Lauritz Knudsen

Electrical & Automation

POWERING
A NON-STOP INDIA



Maximum Retail Prices
For Electrical Standard Products
Effective from 15-08-26

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Lauritz Knudsen
Electrical & Automation

AT LAURITZ KNUDSEN, WE POWER A NON-STOP INDIA.

That's why we listen, we partner, and we innovate - to make technology and energy solutions accessible to every corner of India.

Born of this soil - we understand India's rhythm and resilience.

Therefore, **we create technology that speaks every language of progress.** From farms to factories, we empower every business, regardless of size, sector, or location, to thrive.

Because when technology reaches everyone, India moves forward as one.

Powering a non-stop India with a wide range of solutions

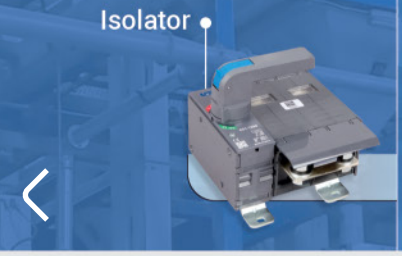
Lauritz Knudsen
Electrical & Automation

Power Distribution


ACB


MCCB


ATS


Isolator

Motor Management


Contactor


Overload Relays


Electronic Motor Protection


Intelligent Motor Protection

Energy Management


Power Quality Analyzer


AHF & ASVG

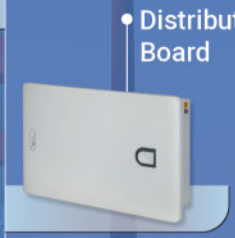

Capacitor


Capacitor Switching Solution

Home & Distribution


MCB


RCD

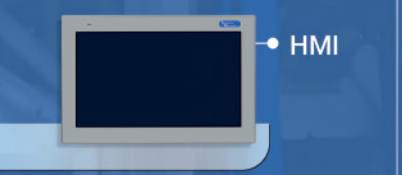

Distribution Board


Switches

Industrial Automation


AC Drives


PLC


HMI


Gateways

Protection Relay


Protection Relays


Insulation Monitoring


Thermal Monitoring

Panel Solutions


IEC Solutions


Hybrid APFC Panel

Software

SMARTCOMM

Design

Electrical Installation Sizing And Simulation

Build

Estimation, Engineering And Quality Check

Commission

Configuration And Testing Of Various Products

Operate

Power Management Software To Connect Electrical Systems And Process Efficiency

Predict

Asset Management and predictive Maintenance

Lauritz Knudsen
Electrical & Automation

INDIA IS GOING SOLAR
AND WE ARE ELECTRIFYING IT



SCAN TO KNOW MORE

With 50 GW of experience in delivering 800VAC technology across India and international markets, we have set new benchmarks in solar electrification. As we look ahead, we are committed to powering a non-stop India, driving its green transition and scaling its renewable future.

- 2500+ projects delivered
- 300+ trained system integrators
- 350+ EPC & 300+ Developers
- Made in India

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Lauritz Knudsen
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Efficient DC Solutions up to 1500V DC

Applications:
› Battery Energy Storage System
› Central Inverter Application
› EV System

MCCB

› Range from 16A to 800A
› DC Operational Voltages of 1500V, 1000V, 750V, 500V & 250V
› Ambient Temperature Compensated DC Releases
› Internal Accessory Compatibility for all DC Applications
› Service Breaking Capacity Ics upto 50kA



ACB - SD

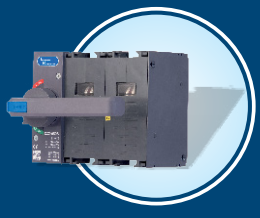


› Disconnector versions up to 6300A*
› DC Voltage ratings 1500V#, 1000V, 750V, 500V & 250V
› Service Breaking Capacity Ics upto 100kA

*6300A in two pole series connection for voltage up to 500V DC
#Upcoming version

SWITCH DISCONNECTOR

› Range: 125A to 630A
› Voltage: 1000/1500V DC



MCB



› Conforms to IEC 60947-2
› Current rating upto 63A
› Available in SP/DP and FP versions
› Voltage rating available from 130V DC to 1000V DC

gPV Fuses

› Conforms to IEC 60269-6
› Range: 2A to 32A, 1000V, DC
› Range: 2A to 32A, 1500V, DC
› High breaking capacity: 20kA



Lauritz Knudsen
Electrical & Automation

TECharge

Powering the **Future of Mobility** with **Integrated EV Charging Solutions**



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KEY FEATURES

» INTEGRATED SYSTEM:

Combines EV Chargers, SmartComm CMS, and TECharge Mobile App for seamless operation

» RATINGS:

AC Chargers 7.4kW and 22kW with Type-2 IEC 62196 connector | 3.3kW Smart Socket

» TAKE CONTROL OF YOUR EV CHARGING NETWORK:

Charging Management Software gives facility managers real-time visibility to proactively manage their network, ensuring reliability and uninterrupted service

» SECURE ACCESS:

RFID authentication and app-based access control to prevent unauthorized usage.

» CUSTOM TARIFF & BILLING:

Enable pay-per-use charging with flexible pricing and secure payment options

» USAGE ANALYTICS DASHBOARD:

Track revenue, session frequency, and user behavior to optimize your operations

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Note:
[Black colour : HSN code]
Current GST 18%, subject to changes as per Govt. notification

Please contact the nearest branch office for Prices of the following products :

- Final Distribution Products - 6kA MCBs
- Wires, Cables and Flat Cables
- Busbar Trunking Systems
- Rotary Switches
- Modular Remote Control Units & Indicating Units
- Timing Devices & Supply Monitors
- Cable Ducts & Load Break Switches
- Modular Switches and Sockets
- Medium Voltage AIS upto 36kV
- Agricultural Electrical Products

Note: Product photographs shown, are for representative purposes only.

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SMARTSHOP

Your Trusted Online Electrical Store

SCAN NOW



BRAND-AUTHORISED SELLERS

WIDE ELECTRICAL RANGE

NATIONWIDE DELIVERY SUPPORT

BULK ORDER DISCOUNTS

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Power Contactors

2 Pole
- MNX
- MU-2P

3 Pole
- MO
- MNX
- MI
- MX Power
- ML
- MDX (DC Control/Electronic coil Control)

4 Pole
- MCX

Control Relays (Auxiliary Contactors)

- MX0 (Mini) AC/DC
- MO0 AC/DC

Capacitor Duty Contactors

- MO C

MI Contactors
6-150A, AC-3 Rating



Understanding customer requirements, we make sure that our range of contactors caters to their evolving needs. Considering the changing expectations of customers and a need for an optimum and reliable solution, we introduce MI range of contactors for applications upto 150 A AC3 rating.

Features
- Finger proof terminals upto 40A
- Can be used with existing MN Range of thermal overload relays
- Top mounting add-on blocks possible upto 80A
- Spares available for entire range
- Optimised for AC1/AC3 applications

Applications
- Street lighting
- VFD, Soft Starters applications
- UPS
- Solar and Wind inverters
- Resistive loads
- Battery charging
- Motor Starters

* For accessories and more details please contact nearest branch.

Type	Cat. No.	M.R.P. (₹) Per Unit
MI 6 (With 1 NO aux contact)	CS90401	Price on Request*
MI 9 (With 1 NO aux contact)	CS90402	
MI 12 (With 1 NO aux contact)	CS90403	
MI 18 (With 1 NO aux contact)	CS90404	
MI 22 (With 1 NO aux contact)	CS90405	
MI 25 (With 1 NO aux contact)	CS90406	
MI 25	CS92912#	
MI 32	CS90407	
MI 40	CS90408	
MI 45	CS90704	
MI 50	CS90705	
MI 70	CS90706	
MI 80	CS90707	
MI 95	CS90724	
MI 120	CS90725	
MI 150	CS90726	

Notes:
1) Standard coil voltage: 110V, 220V, 240V and 415V, 50Hz
2) For ordering Suffix, please refer page No. 10
3) # For 2 no. of 4 sq. mm wires with lugs in single terminal
4) MI6-25 Available with 1NC on Request

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

3 Pole Power Contactors - Type MNX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A – 650A AC-3
- Click fit type construction up to 40A
- Coil on top design in 95A and above
- Spares available for entire range


MNX 22


MNX 40


MNX 80


MNX 140


MNX 250


MNX 650

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9	1 NO	CS94106	1550	20
				1 NC	CS94107	1550	20
	12	30	MNX 12	1 NO	CS94108	1800	20
				1 NC	CS94109	1800	20
	18	30	MNX 18	1 NO	CS94100	2140	20
				1 NC	CS94101	2140	20
	22	32	MNX 22	1 NO	CS94980	2670	20
				1 NC	CS94981	2670	20
Fr 2	25	45	MNX 25	#	CS94110	2730	20
	32	55	MNX 32	#	CS94111	5320	20
	40	55	MNX 40	#	CS94190	7880	20
Fr 3	50	85	MNX 50	#	CS97075	11470	1
	70	100	MNX 70	#	CS97076	16160	1
	80	100	MNX 80	#	CS97077	20170	1
Fr 4	95	160	MNX 95	2 NO + 2 NC	CS94136	33910	1
	110	160	MNX 110	2 NO + 2 NC	CS94137	41370	1
	140	160	MNX 140	2 NO + 2 NC	CS94138	52760	1
Fr 5	185	250	MNX 185	2 NO + 2 NC	CS94139	64390	1
	225	300	MNX 225	2 NO + 2 NC	CS94140	71760	1
	250	300	MNX 250	2 NO + 2 NC	CS94141	80210	1
Fr 6	300	400	MNX 300	2 NO + 2 NC	CS90280	96890	1
	400	425	MNX 400	2 NO + 2 NC	CS94144	140960	1
	550	650	MNX 550	2 NO + 2 NC	CS94145	207040	1
	650	800	MNX 650	2 NO + 2 NC	CS96327	309720	1

Notes:

1) # Add-on blocks can be ordered separately
2) For ordering MNX/MO add-on aux contact blocks, please refer page No.8
3) For ordering MNX/MO surge suppressor and MNX/MO MIL kit, please refer page No.9
4) For ordering Suffix, please refer page No.10
5) Standard coil voltage: MNX/MO - 110V, 220V, 240V and 415V, 50Hz.

▲ If using 16 sq mm cable for MO 45 use of spreader link kit is mandatory
▲ For ordering spreader link kit for MO 45, Please refer page No.9
* Universal AC/DC electronic coil version

3 Pole Power Contactors - Type MO

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A - 300A AC-3
- Range 140A-300A available with conventional / universal AC/DC electronic coil version
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- Standardized accessories for 9A-110A and 140A-300A range
- Compact dimensions saving panel space
- Suitable for Lug as well as Lugless termination
- **RoHS** compliant


MO 18


MO 45


MO 70

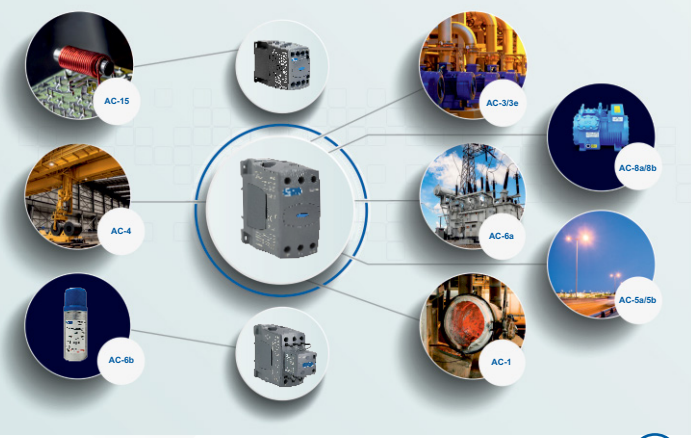

MO 110


MO 140


MO 250

Size	AC 4 Rating (A)	AC 3e Rating (A)	AC 1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 0	9	9	30	MO 9	1 NO	CS94833	2970	10
					1NC	CS92918	2970	10
	12	12	32	MO 12	1 NO	CS94834	3320	10
					1 NC	CS92919	3320	10
	18	18	32	MO 18	1 NO	CS94835	4010	10
					1 NC	CS92920	4010	10
Fr 1	25	25	45	MO 25	#	CS94567	5240	10
	32	32	50	MO 32	#	CS94568	9760	10
	40	40	50	MO 40	#	CS94569	14190	10
	45	45	50	MO 45 ▲	#	CS94570	20590	10
Fr 2	50	50	100	MO 50	#	CS94572	20900	1
	60	60	100	MO 60	#	CS94573	28560	1
	70	70	100	MO 70	#	CS94574	29100	1
Fr 3	80	80	125	MO 80	#	CS94576	35890	1
	95	95	125	MO 95	#	CS94577	45510	1
	110	110	140	MO 110	#	CS94578	55350	1
Fr 4	140	140	250	MO 140	2NO+2NC	CS95000	71450	1
	185	185	275	MO 185	2NO+2NC	CS95001	90380	1
	225	225	275	MO 225	2NO+2NC	CS95002	97180	1
Fr 4*	140	140	250	MO 140	2NO+2NC	CS95042	93520	1
	185	185	275	MO 185	2NO+2NC	CS95047	125770	1
	225	225	275	MO 225	2NO+2NC	CS95052	129110	1
Fr 5	250	250	400	MO 250	2NO+2NC	CS94441	118090	1
	300	300	500	MO 300	2NO+2NC	CS94440	141720	1
Fr 5*	250	250	400	MO 250	2NO+2NC	CS94456	152580	1
	300	300	500	MO 300	2NO+2NC	CS94464	175700	1

Switching solution for all Utilization Categories from MO platform



2 Pole Power Contactors - Type MNX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A - 650A AC-3
- DC ratings available
- Click fit type construction up to 40A
- Coil on top design in 95A and above
- Common spares and accessories as MNX 3P

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9-2P	1 NO	**CS90232**	**1320**	10
	12	30	MNX 12-2P	1 NO	**CS90234**	**1530**	10
	18	30	MNX 18-2P	1 NO	**CS90236**	**1820**	10
	22	32	MNX 22-2P	1 NO	**CS90238**	**2270**	10
Fr 2	25	45	MNX 25-2P	#	**CS90240**	**2320**	10
	32	55	MNX 32-2P	#	**CS90241**	**4520**	10
	40	55	MNX 40-2P	#	**CS90242**	**6700**	10
Fr 3	50	85	MNX 50-2P	#	**CS94061**	**10100**	1
	70	100	MNX 70-2P	#	**CS94062**	**14230**	1
	80	100	MNX 80-2P	#	**CS94063**	**17900**	1
Fr 4	95	160	MNX 95-2P	#	**CS94064**	**28600**	1
	110	160	MNX 110-2P	#	**CS94065**	**34900**	1
	140	160	MNX 140-2P	#	**CS94066**	**44500**	1
Fr 5	185	250	MNX 185-2P	2 NO + 2 NC	**CS94978**	**55700**	1
	225	300	MNX 225-2P	2 NO + 2 NC	**CS94979**	**62600**	1
	250	300	MNX 250-2P	2 NO + 2 NC	**CS90301**	**69900**	1
Fr 6	300	400	MNX 300-2P	2 NO + 2 NC	**CS90346**	**84500**	1
	400	425	MNX 400-2P	2 NO + 2 NC	**CS94069**	**123900**	1
	550	650	MNX 550-2P	2 NO + 2 NC	**CS90243**	**182100**	1
	650	800	MNX 650-2P	2 NO + 2 NC	**CS90578**	**272300**	1

3 Pole Power Contactors - Type MDX

Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 9 - 115A AC-3
- Built in surge suppressor for MDX 9 - 115



MDX 25



MDX 38



MDX 115

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1 (DC Control Coil)	9	25	MDX 9	1 NO	**CS96564**	**4500**	1
	12	28	MDX 12	1 NO	**CS96565**	**5150**	1
	18	32	MDX 18	1 NO	**CS96566**	**6140**	1
	25	32	MDX 25	1 NO	**CS96567**	**13730**	1
Fr 2 (DC Control Coil)	32	56	MDX 32	#	**CS96552**	**17500**	1
	38	56	MDX 38	#	**CS96553**	**23220**	1
Fr 3 (Electronic Coil-AC/DC)	50	90	MDX 50	#	**CS91584**	**31610**	1
	65	110	MDX 65	#	**CS91585**	**35790**	1
	80	125	MDX 80	#	**CS91586**	**44390**	1
	95	125	MDX 95	#	**CS91857**	**53630**	1
	115	125	MDX 115	#	**CS91858**	**60270**	1

* MDX Available till stock lasts

Notes:
1) # Add-on blocks can be ordered separately.
2) For ordering MDX/MNX add-on aux contact blocks, please refer page No.8
3) For ordering MNX surge suppressor and MIL kit, please refer page No.9
4) For ordering Suffix, please refer page No.10
5) Standard coil voltage: MDX - 24V, 48V, 115V and 220V DC
6) Standard coil voltage: MNX 2P - 240V, 50Hz
7) For DC power ratings refer catalogue
8) For MDX side add-on and top add-on can not be mounted together

3 Pole Power Contactors - Type MX Mini

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- AC/DC Contactor in 45mm width
- Base as well as DIN Rail mounting facility
- Built-in Surge Suppressor in MX DC



MX 06

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)						
6A	20A	MX 06	1 NO	**CS94012**	**2020**	10
6A	20A	MX 06	1 NC	**CS94013**	**2020**	10
9A	20A	MX 09	1 NO	**CS94014**	**2070**	10
9A	20A	MX 09	1 NC	**CS94015**	**2070**	10
12A	20A	MX 12	1 NO	**CS94016**	**2290**	10
12A	20A	MX 12	1 NC	**CS94017**	**2290**	10
For DC control (Std. Coil Voltage - 24, 110, 220V)						
6A	20A	MX 06	1 NO	**CS94021**	**3120**	10
6A	20A	MX 06	1 NC	**CS94022**	**3120**	10
9A	20A	MX 09	1 NO	**CS94023**	**3310**	10
9A	20A	MX 09	1 NC	**CS94024**	**3310**	10
12A	20A	MX 12	1 NO	**CS94025**	**3720**	10
12A	20A	MX 12	1 NC	**CS94026**	**3720**	10

3 Pole Power Contactors - Type ML

Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 25A- 300A AC-3
- Robust and suitable for hostile applications



ML 1.5



ML 3

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	25	25	ML 1.5	2 NO + 2 NC	**SS91851**	**10190**	1
Fr 2	32	40	ML 2	2 NO + 2 NC	**SS90701**	**18930**	1
	40	45	ML 3	2 NO + 2 NC	**SS90721**	**27910**	1
Fr 3	70	100	ML 4	2 NO + 2 NC	**SS90910**	**45600**	1
	110	125	ML 6	2 NO + 2 NC	**SS90921**	**72160**	1
Fr 4	300	400	ML 12	2 NO + 2 NC	**SS91010**	**163350**	1

Notes:
1) For ordering MX add-on aux contact blocks, please refer page No.8
2) For ordering ML add-on aux contact blocks, please refer page No.9
3) For ordering MX surge suppressor and MIL kit, please refer page No.9
4) For Ordering Suffix, please refer page No.10
5) Standard Coil Voltage : ML 1.5/2/3 - 110V, 240V and 440V, 50 Hz
   ML 4/6/12 - 110V, 240V and 415V, 50 Hz

4 Pole Power Contactors [8536]

4 Pole Power Contactors - Type MCX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 18A - 900A
- Wide operating band up to 130A AC-1
- Power contacts configuration - 4 NO



MCX 22



MCX 34



MCX 47

Size	AC-1 Rating (A)	Type	Aux Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	18	MCX 01	#	**CS97009**	**2220**	10
	25	MCX 02	#	**CS97010**	**2290**	10
	32	MCX 03	#	**CS97011**	**2540**	10
	40	MCX 04	#	**CS97012**	**4230**	10
Fr 2	55	MCX 11	#	**CS97013**	**6030**	1
	63	MCX 12	#	**CS97014**	**9960**	1
	80	MCX 13	#	**CS97015**	**13410**	1
Fr 3	105	MCX 22	#	**CS97017**	**20420**	1
	130	MCX 23	#	**CS97018**	**21560**	1
Fr 4	160	MCX 32	2 NO + 2 NC	**CS97020**	**40530**	1
	200	MCX 33	2 NO + 2 NC	**CS97021**	**43520**	1
	255	MCX 34	2 NO + 2 NC	**CS97022**	**54260**	1
Fr 5	325	MCX 41	2 NO + 2 NC	**CS97023**	**85680**	1
	360	MCX 42	2 NO + 2 NC	**CS97024**	**93280**	1
	400	MCX 43	2 NO + 2 NC	**CS97025**	**112980**	1
	560	MCX 44	2 NO + 2 NC	**CS97026**	**153480**	1
	600	MCX 45	2 NO + 2 NC	**CS97027**	**162240**	1
	700	MCX 46	2 NO + 2 NC	**CS97028**	**182060**	1
	900	MCX 47	2 NO + 2 NC	**CS94291**	**294300**	1

New 2 NO + 2 NC Power Contactor - Type MCX

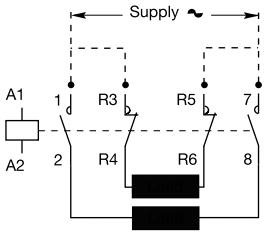
Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 18A - 40A
- Power contacts configuration - 2 NO + 2 NC

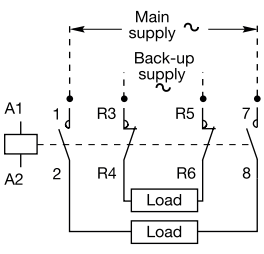
Size	AC-1 Rating (A)	Type	Power Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	18	MCX 01-22	2 NO + 2 NC	**CS91107**	**2220**	10
	25	MCX 02-22	2 NO + 2 NC	**CS91108**	**2290**	10
	32	MCX 03-22	2 NO + 2 NC	**CS91109**	**2540**	10
	40	MCX 04-22	2 NO + 2 NC	**CS91110**	**4230**	10

Block diagrams

Single supply and 2 separate loads



2 separate supplies and 2 separate loads



⚠ MCX 2NO + 2NC contactors are not suitable for a reversing starter or for controlling a single load from 2 separate supplies.

Notes for MCX:

1) # Add-on blocks can be ordered separately.
2) For ordering MCX add-on aux contact blocks, please refer page No.8
3) For ordering MCX surge suppressor and MIL kit, please refer page No.9
4) For Ordering Suffix, please refer page No.10
5) Standard Coil Voltage: MCX - 220V, 240V and 415V 50Hz
6) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
7) MCX 01-04 and MCX 11-13 available in 48V DC coil. Contact nearest branch for more details.

To avoid coil failure due to neutral floating, it is recommended to use 415V coil

AST System Components [9032]

Automatic Transfer Controllers (ATC)



AuXC-2000 Controller

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 Controller	**ATC20000000**	**52600**	1
AuXC-2100 Controller** with Optional RS485	**ATC21000000**	**104800**	1
RS485 Module for AuXC-2100 Controller**	**ETACONRS485**	**20900**	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

** **Note:** RS485 expansion module needs to be ordered with AuXC-2100 for communication

Control Relays (Auxiliary Contactors) [8536]

Type MX0 AC



MX0 22E

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Available with AC or DC control in same dimension
- Inbuilt Surge Suppressor in MX DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MX0 40E (4 NO)	**CS94018**	**2260**	10
	MX0 31E (3 NO + 1 NC)	**CS94019**	**2260**	10
	MX0 22E (2 NO + 2 NC)	**CS94020**	**2260**	10
	MX0 13E (1 NO + 3 NC)	**CS94041**	**2260**	10
	MX0 04E (4 NC)	**CS94042**	**2260**	10

Type MX0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A at 415V	MX0 40E (4 NO)	**CS94027**	**2790**	10
	MX0 31E (3 NO + 1 NC)	**CS94028**	**2790**	10
	MX0 22E (2 NO + 2 NC)	**CS94029**	**2790**	10
	MX0 13E (1 NO + 3 NC)	**CS94043**	**2790**	10
	MX0 04E (4 NC)	**CS94044**	**2790**	10

Notes: 1) For Ordering Suffix, please refer page No.10
2) 5 NC & above combinations are not recommended for MX0 DC Control Contactors
3) 1 NO + 3 NC, 4 NC add-on block combinations are not recommended for MX0 DC Control Contactors.

Type MO0 AC



MO0 AC

Features

- Same add-on aux. contact block in MO0 as of MO power contactors
- Common coil for 50 & 60Hz application

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MO0 40E (4NO)	**CS91623**	**1500**	10
	MO0 31E (3NO + 1NC)	**CS91624**	**1500**	10
	MO0 22E (2NO + 2NC)	**CS91625**	**1500**	10

Note: 6NC & above combination is not recommended for MO0 AC
For ordering add-on contact blocks of MX0, MO0, please refer page no.8

Type MO0 DC



MO0 DC

Features

- Same add-on aux. contact block in MO0 as of MO power contactors
- Inbuilt Surge Suppressor in MO0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 48, 110, 220				
AC-15 4A at 415 V	MO0 40E (4NO)	**CS90045**	**2950**	10
	MO0 31E (3NO + 1NC)	**CS90046**	**2950**	10
	MO0 22E (2NO + 2NC)	**CS90047**	**2950**	10

Note: 5NC & above combination is not recommended for MO0 DC
For ordering add-on contact blocks of MX0, MO0, please refer page no.8

Capacitor Duty Contactors [8536]

Capacitor Duty Contactors - Type MO C



MO C50



MO C100

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- MO C Range available from 3 -100 kVAr, AC-6b
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- Standard accessories throughout the range in line with MO contactor
- Suitable for Lug as well as Lugless termination
- **RoHS** compliant

Size	kVAr Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	3	MO C3	1NO	**CS96146**	**3480**	1
	5	MO C5	1NO	**CS96127**	**3700**	1
	8.5	MO C8.5	1NO	**CS96320**	**4800**	1
	10	MO C10	1NO	**CS96156**	**4910**	1
	12.5	MO C12.5	1NO	**CS96321**	**5180**	1
	15	MO C15	1NO	**CS90019**	**6980**	1
	20	MO C20	1NO	**CS90021**	**7770**	1
	25	MO C25▲	1NO	**CS96322**	**8370**	1
	30	MO C30$	1NO	**CS96148**	**13330**	1
Fr 2	40	MO C40	1NO	**CS96147**	**22120**	1
	50	MO C50	1NO	**CS96324**	**24830**	1
	60	MO C60$	1NO	**CS96149**	**25820**	1
Fr 3	75	MO C75	1NO	**CS96150**	**30870**	1
	85	MO C85	1NO	**CS96157**	**33220**	1
	100	MO C100$	1NO	**CS96158**	**33870**	1

For Power Quality Solutions, please refer page No. 87-95

Note:
1) For ordering add-on aux. contact block, please refer page No.8
2) For ordering suffix, please refer page No.10
3) For ordering spare coils, please refer page No.11
4) Standard coil voltage : 240V, 50/60 Hz
5) For ordering MO C surge suppressor, please refer page No.9

▲ If using 16 sq mm cable use of spreader link kit is mandatory
▲ For ordering spreader link kit, Please refer page No.9
$ Spreader link along with phase barrier included in packing

Definite Purpose Contactors [8536]

Two Pole Contactors - Type MU-2P

Features

- Wide band potted coil
- Neutral isolation



MU 16-2P

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
16A	MU16-2P	**CS90117**	**1600**	10
25A	MU25-2P	**CS90118**	**1950**	10
40A	MU40-2P	**CS90119**	**2500**	10

Note:
1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
2) Ordering suffix for wide band coil of MU-2P is NOOO
3) For ordering add-on aux. contact block, please refer page No.8

	MNX 9-80	MNX 95-650	MO 9-110	MO 140-300	ML	MX	MDX 9-115	MCX 01-23	MCX 32-47	MX0	MO0	MO C	MU-2P
Front add-on possible	Yes	No	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes
Side add-on possible	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No

Note: 1) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
2) Accessories are common for MNX 2P & MNX 3P contactors

Front Mounting
Add-on aux. Contact Block



MNX / MCX Front Add-on aux. contact Block



MO / MO0 Front Add-on aux. contact Block



MDX Front Add-on aux. contact Block



MX Front Add-on aux. contact Block



MU-2P Front Add-on aux. contact Block

Front Mounting	Suitable for									
	MNX 9-80 / MCX 01-23	M.R.P. (₹) Per Unit	MO 9-110 / MO0	M.R.P. (₹) Per Unit	MDX# 9-115	M.R.P. (₹) Per Unit	MX (6,9,12) /MX0	M.R.P. (₹) Per Unit	MU-2P	M.R.P. (₹) Per Unit
4 NO	CS94112^	1195	CS94594^	1590	-	-	CS94033^	1120	-	-
3 NO + 1 NC	CS94113^	1195	CS94595^	1590	-	-	CS94034^	1120	-	-
2 NO + 2 NC	CS94114^	1195	CS94596^	1590	CS96569~	2600	CS94035^	1120	-	-
1 NO + 3 NC	CS94115^	1195	CS94597^	1590	CS90906~	2600	CS94036^	1120	-	-
4 NC	CS94116^	1195	CS94598^	1590	-	-	CS94037^	1120	-	-
2 NO	CS94117^	785	CS94591^^	915	-	-	CS94030^	725	CS90692^	940
1 NO + 1 NC	CS94118^	785	CS94592^^	915	CS96568~	1520	CS94031^	725	CS90693^	940
2 NC	CS94119^	785	CS94593^^	915	-	-	CS94032^	725	CS90694^	940
1 NO	CS94120^	400	CS94585^^	535	CS96586~	850	-	-	CS90695^	480
1 NC	CS94121^	400	CS94586^^	535			-	-	CS90696^	480

#For MDX Side add-on and top add-on can not be mounted together
*MDX add-on available till stock last

Side Mounting
Add-on aux. Contact Block



MNX/MCX Side Add-on aux. contact Block



MO/MO C Left Add-on aux. contact Block

Side Mounting	Suitable for								
	Aux Contact	MNX 9-40/ MCX 01-04	M.R.P. (₹) Per Unit	MCX 11-13	M.R.P. (₹) Per Unit	MNX 50-80/ MCX 22-23	M.R.P. (₹) Per Unit	MO 9-110/ MO C 3-100	M.R.P. (₹) Per Unit
First left	1 NO + 1 NC	CS94220^	1265	CS94201^	1370	CS94201^	1370	CS94580^	1475
First Right	1 NO + 1 NC	CS94221^	1265	CS94202^	1370	CS94202^	1370	CS94581^	1475
Second Left	1 NO + 1 NC	-	-	-	-	CS94203^	1370	CS94582^	1475
Second right	1 NO + 1 NC	-	-	-	-	CS94204^	1370	CS94583^	1475

Note: Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
For MO 9-18, only First left and Second left side add-on is allowed.

Side Mounting
Add-on aux. Contact Block

Side Mounting	Suitable for						
	Aux Contact	MNX 95-650/ MCX 32-47	M.R.P. (₹) Per Unit	MO 140-300	M.R.P. (₹) Per Unit	MDX# 9-115	M.R.P. (₹) Per Unit
First left	1 NO + 1 NC	CS94205^	1555	CS95033^	1815	ST94985^	3110
First Right	1 NO + 1 NC	CS94206^	1555	CS95034^	1815		
Second Left	1 NO + 1 NC	CS94207^	1555	CS95035^	1815	-	-
Second right	1 NO + 1 NC	CS94208^	1555	CS95036^	1815	-	-



MDX Side Add-on aux. contact Block

For MDX Side add-on and top add-on can not be mounted together
- Standard Packing is 1 ^Standard Packing is 10 ^^Standard Packing is 20
* MDX add-on available till stock last

Accessories - Add-on Auxiliary Contact Blocks [8538]

Side Mounting Add-on aux. Contact Block - ML



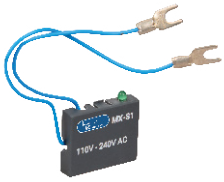
ML Add-on aux. contact Block

Side Mounting	Suitable for				
	Aux Contact	ML 4/6	M.R.P. (₹) Per Unit	ML 12	M.R.P. (₹) Per Unit
Left	1 NO + 1 NC	**SS91494^**	**1920**	-	-
Right	1 NO + 1 NC	-	-	**SS91474^**	**1920**

Note: Ordering Suffix for Add-on aux. contact blocks : OOOO

Accessories - Surge Suppressors [8538]

For MX, MNX, MCX, MO & MO C



MX - S1

Ordering Suffix * 110-240V : BOOO, 415V : DOOO
110V : AOOO, 220-240V : BOOO, 360-525V : DOOO
^ 110V : AOOO, 220-320V : BOOO, 360-415V : DOOO

MDX 9-115, MNX 550-650, MCX 45-47, MX DC, MX0 DC & MO0 DC have built in surge suppressor

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0 AC (S1)	**CS94039***	**1050**	10
MNX 9 - 40 / MCX 01 - 04 (S1)	**CS94166***	**1070**	10
MNX 50 - 80 / MCX 11 - 23 (S3)	**CS94163***	**1195**	10
MNX 95 - 250 / MCX 32 - 34 (S4)	**CS94164#**	**3910**	10
MNX 300 - 400 / MCX 41 - 44 (S6)	**CS94165#**	**5280**	10
MO Frame 0/1, MO C Frame 1, MO0 Control	**CS91706^**	**1070**	10
MO/MO C - Frame 2	**CS91707^**	**1195**	10
MO/MO C - Frame 3	**CS91708^**	**3910**	10
MO Frame - 4/5	**CS91854^**	**5280**	10

Accessories - Mechanical Interlock Kits & Spreader Link Kit [8538]

Mechanical Interlock Kit for MX, MO, MDX, MNX & MCX



MCX M3 (MCX 22)

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0	**CS94038**	**1010**	10
MO 9 - 110*	**CS94584**	**1795**	10
MDX 9 - 38	**CS96572**	**1990**	1
MDX 50 - 115	**CS96573**	**6040**	1
MNX 9 - 40	**CS94126**	**820**	10
MNX 50 - 80	**CS94197**	**5770**	1
MNX 95 - 140	**CS94198**	**8990**	1
MNX 185 - 250	**CS94199**	**10220**	1
MNX 300 - 650	**CS94200**	**11580**	1
MCX 01 - 04	**CS94126**	**820**	10
MCX 11 - 13	**ST50540**	**1625**	10
MCX 22 - 23	**CS93095**	**7620**	1
MCX 32 - 34	**SS94992**	**7870**	1
MCX 41 - 47	**CS94301**	**12980**	1

*MDX Mechanical interlock kit Available till stock last

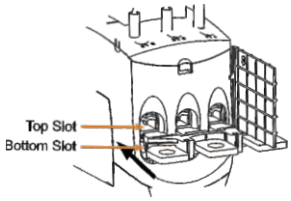
Note:
1) Ordering Suffix for Mechanical Interlock Kits : OOOO
2) *MO MIL Kit contains inbuilt 2 NC Contacts
3) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
4) MIL kit for MNX 50-80 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC
5) MIL kit for MCX 22/23 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC

MO / MO C Spreader Link Kit



For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9 - 45 / MOC 3 - 30	**CS94274**	**950**	10
MO 50 - 70 / MOC 40 - 60	**CS94093**	**1505**	10
MO 80 - 110 / MOC 75 - 100	**CS94094**	**2170**	1
MO 140 - 225	**CS91057**	**6110**	1
MO 250 - 300	**CS90940**	**9500**	1

Note:
1) If using 16 sq mm cable for MO 45/ MO C25 use of spreader link is mandatory
2) Spreader Link Kit consists of six terminals along with phase barrier (Phase barrier not applicable for MO 250-300)
3) In MO C 30, MO C 60 & MO C 100 spreader link is included in packing
4) Ordering Suffix: OOOO
⚠ **5) Insert spreader link in top slot only**



Accessories - Connecting Links [8538]

DOL Starter - Link



Contactor MMS Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	**CS90396 #**	**785**	10
MOG H1/S1 with MO 25-45	**CS90391 #**	**785**	10

Reversing DOL Starter - Link



Reversing Starter



Paralleling Link



Contactor MMS Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	**CS90548 #**	**1970**	10
MOG H1/S1 with MO 25-45	**CS90546 #**	**1970**	10

Star Delta Starter - Link



Reversing / star delta Link



Paralleling Link



Contactor MMS Link

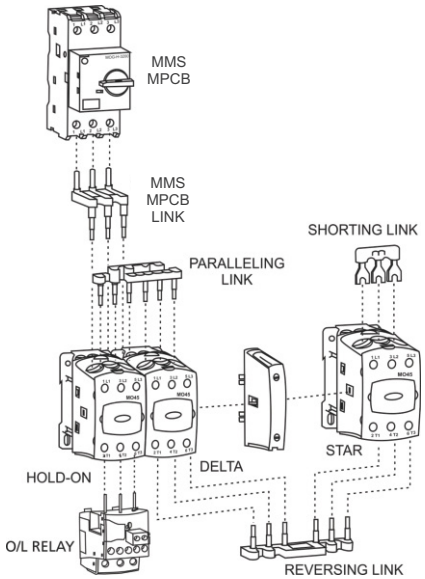


Shorting Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	**CS90549 #**	**2390**	10
MOG H1/S1 with MO 25-45	**CS90547 #**	**2390**	10

#Ordering Suffix OOOO

Example of Star Delta Starter Connection with Link



Ordering Suffix for Standard Coil Voltages

Ordering Suffix for Standard Coil Voltages			
AC Control		**DC Control***	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	GOOO	24	4OOO
110	AOOO	48	5OOO
220	KOOO	110	1OOO
240	BOOO	220	2OOO
415	DOOO		
440	POOO		

Ordering suffix for Electronic coil Contactor		
AC / DC control		
Voltage (V)	**Suffix**	**Contactor**
20-48	JOOO	MDX 50-115
60-110	AOOO	MDX 50-115
110-240	BOOO	MDX 50-115 & MO 140-300
240-415	DOOO	MO 140-300

Note:

1) * For MX DC, MDX 9-38, MX0 DC, MO0 DC

2) For other coil voltages please contact nearest branch office

Spare Contact Kit and Spare Coil



ML Spare Kits



ML Spare Coils

	Spare Contact kit		Spare Coil	
Type	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	SS95305^	5575	SS90873 ^	1840
ML 2	SS95307^	10200	SS90545 ^	3410
ML 3	SS95309^	18020		
ML 4	SS95311^	26710	SS91258 ~	6665
ML 6	SS95313^	49415		
ML 10	SS95315~	96245	SS91011 ~	14220
ML 12	SS95317~	103715		
MR	-	-	CS94102 ^	1400
MU16-2P	CS90217^	540	CS90793 ^	620
MU25-2P	CS90218^	715		
MU40-2P	CS90219^	1020		
MO 0 AC	-	-	CS94841 ^	1030

* MR Coils available till stock last

Note:

1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
2) Ordering suffix for wide band coil of MU-2P is NOOO

MO C Spare Coils		
Type	Cat. No.	M.R.P. (₹) Per Unit
MO C3 - 30	CS96317^	1265
MO C40 - 60	CS96318^	3900
MO C75 - 100	CS96319^	6740

Front housing & Moving bridge kit and Combination coil with timer for ML contactor



Front housing and moving bridge kit		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	ST28734~	1765
ML 2/ ML 3	ST23866~	2410
ML 4/ ML 6	ST28735~	4370
Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	SS90650~	7530

Note:

1) Ordering Suffix for Spare Contact kit - OOOO
2) For Spare Coil Ordering Suffix refer page No. 10

~ Standard Packing is 1
^~ Standard Packing is 5
^ Standard Packing is 10
~~ Standard Packing is 50

Spare Contact Kit and Spare Coil



MNX Spare Coils



MCX Spare Kits

		Spare Contact kit		Spare Coil	
	Type	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MO Contactors	MO 9 (1 NO)	CS94843^	1220	CS94841^	1030
	MO 12 (1 NO)	CS94844^	1580		
	MO 18 (1 NO)	CS94845^	1740		
	MO 9	CS96380^~	1220	CS96317^	1265
	MO 12	CS96381^~	1580		
	MO 18	CS96382^~	1740		
	MO 25	CS96383^~	2020		
	MO 32	CS96384^~	4565		
	MO 40	CS96385^~	7705		
	MO 45	CS96386^~	7800		
	MO 50	CS96387^~	8175	CS96318^	3900
	MO 60	CS96388^~	10590		
	MO 70	CS96389^~	11755		
	MO 80	CS96390^~	16175	CS96319^	6740
	MO 95	CS96391^~	20400		
	MO 110	CS96392^~	29805		
	MO 140	CS90357~	35490	CS90356~	15970
	MO 185	CS90358~	42580		
	MO 225	CS90359~	48755		
	MO 250	CS94444~	58615	CS94442~	23295
	MO 300	CS94443~	66155		
	MO 140 (electronic coil)	CS90357~	35490	CS90855~	28930
	MO 185 (electronic coil)	CS90358~	42580		
	MO 225 (electronic coil)	CS90359~	48755		
	MO 250 (electronic coil)	CS94444~	58615	CS90738~	29060
	MO 300 (electronic coil)	CS94443~	66155		
MNX Contactors	MNX 9	CS94123^	975	CS94105	925
	MNX 12	CS94124^	1265		
	MNX 18	CS94125^	1440		
	MNX 22	CS94269^	1600		
	MNX 25	CS94127^	2080		
	MNX 32	CS94128^	4030		
	MNX 40	CS94147^	6560		
	MNX 50	CS94150^	7230	CS94192^	3700
	MNX 70	CS94151^	10890		
	MNX 80	CS94152^	14840		
	MNX 95	CS94153~	20855	CS94196~	6340
	MNX 110	CS94154~	30195		
	MNX 140	CS94155~	36615		
	MNX 185	CS94156~	40805	CS94194~	14480
	MNX 225	CS94157~	47185		
	MNX 250	CS90310~	56170		
	MNX 300	CS90283~	62795	CS94195~	21460
	MNX 400	CS94161~	94780		
	MNX 550	CS94162~	127350	CS94193~	45355
	MNX 650	CS96336~	198840		
MCX Contactors	MCX 01-04	-	-	CS94105^	925
	MCX 11	CS94077^	3270	CS94009^	1110
	MCX 12	CS94078^	7170		
	MCX 13	CS90307^	11115		
	MCX 22	CS94331~	13745	ST91291*~	3110
	MCX 23	CS90078~	15465		
	MCX 32	CS94082^	26425	CS94196~	6340
	MCX 33	CS94083^	31060		
	MCX 34	CS94084^	36965		
	MCX 41	CS94295~	53585	CS94195~	21460
	MCX 42	CS94296~	61300		
	MCX 43	CS94297~	73555		
	MCX 44	CS94298~	103955		
	MCX 45	CS94299~	102040	CS94193~	45355
	MCX 46	CS94300~	112960		
	MCX 47	CS90308~	179215		

* Ordering Suffix for 240V AC - FOOO, 415V AC - ROOO

Type MN - Suitable for MNX Contactor

Features

- Available in 3 frame sizes from 0.2-570 A
- Ambient temperature compensated up to 55°C
- Built-in Single Phasing protection
- Manual and auto reset mode
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1


MN 2


MN 5


MN 12


MN 12L

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN 2 (Directly Operated)	Direct Mounting on MNX 9 - 40			
	0.2 - 0.33	SS94141OOEO	2680	10
	0.3 - 0.5	SS94141OOGO	2680	10
	0.45 - 0.75	SS94141OOJO	2680	10
	0.6 - 1	SS94141OOKO	2680	10
	0.9 - 1.5	SS94141OOMO	2780	10
	1.4 - 2.3	SS94141OOPO	2780	10
	2 - 3.3	SS94141OOQO	2780	10
	3 - 5	SS94141OOSO	2780	10
	4.5 - 7.5	SS94141OOUO	2780	10
	6 - 10	SS94142OOVO	2780	10
	9 - 15	SS94142OOBO	2900	10
	14 - 23	SS94144OODO	3070	10
	20 - 33	SS94145OOEO	4630	10
	24 - 40	SS94145OOFO	4840	10
MN 5 (Directly Operated)	Direct Mounting on MNX 50 - 80			
	9 - 15	SS94135OOBO	5730	10
	14 - 23	SS94135OODO	5730	10
	20 - 33	SS94136OOEO	5730	10
	30 - 50	SS94136OOGO	7610	10
	36 - 60	SS94136OOTO	7700	10
	45 - 75	SS94137OOJO	8870	10
	66 - 110	SS94137OOKO	9520	10
MN 12 (CT Operated)	Separate Mounting			
	28 - 46.5	SB94211OOGO	14010	1
	42 - 69	SS94138OOHO	14010	1
	60 - 100	SS94138OOKO	14010	1
	90 - 150	SS94138OOMO	14010	1
	135 - 225	SS94138OOPO	15700	1
	180 - 300	SS94139OOQO	17610	1
	270 - 450	SS94139OORO	22110	1
MN 12L # (CT Operated)	Separate Mounting			
	42 - 69	SS94127OOHO	41570	1
	60 - 100	SS94127OOKO	41570	1
	90 - 150	SS94127OOMO	41570	1
	135 - 225	SS94127OOPO	41570	1
	180 - 300	SS94127OOQO	41570	1
	340 - 570	SS94127OOSO	41570	1

For motors with longer starting time (Trip class 30)

Type RTO - Suitable for MO Contactor

Features

- Ambient temperature compensated upto 55°C
- Built-in Single Phasing protection
- Manual and auto reset mode
- Front access to START and STOP/RESET buttons
- Sealable in OFF condition
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1


RTO 1


RTO 2


RTO 3

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO - 1 (Directly Operated)	Direct Mounting on MO 9 - 45			
	0.23 - 0.41	CS96355OOFO	4090	10
	0.31 - 0.55	CS96355OOGO	4090	10
	0.55 - 0.85	CS96355OOJO	4090	10
	0.78 - 1.2	CS96355OOLO	4090	10
	1.2 - 2.0	CS96355OONO	4090	10
	1.9 - 2.8	CS96355OOPO	4280	10
	2.4 - 3.6	CS96355OOQO	4280	10
	3.5 - 5.2	CS96355OOSO	4280	10
	4.6 - 6.7	CS96355OOTO	4280	10
	6.7 - 9.7	CS96355OOVO	4280	10
	8.5 - 12.5	CS96355OOAO	4330	10
	12.5 - 18.5	CS96356OOCO	4800	10
	17 - 25.5	CS96356OODO	4800	10
	25 - 37	CS96356OOEO	7300	10
	35 - 45	CS96356OOGO	7530	10
RTO - 2 (Directly Operated)	Direct Mounting on MO 50 - 70			
	5 - 7.5	CS96366OOUO	8610	1
	7 - 11	CS96366OOVO	8610	1
	10.5 - 16	CS96366OOBO	8610	1
	15 - 21	CS96366OOCO	8610	1
	20 - 31	CS96366OOEO	8960	1
	30 - 43	CS96366OOFO	9970	1
	40 - 57	CS96366OOSO	11920	1
	50 - 75	CS96367OOJO	12320	1
RTO - 3 (Directly Operated)	Direct Mounting on MO 80 - 110			
	23 - 30	CS90873OOEO	13140	1
	29 - 38	CS96303OOQO	13660	1
	37 - 49	CS96304OOGO	14090	1
	47 - 62	CS96312OOTO	14350	1
	60 - 78	CS96313OOJO	16910	1
	75 - 110	CS96314OOKO	18470	1
RTO - 4 (CT Operated)	Separate Mounting			
	23.4 - 36	CS97096OOGO	22180	1
	36 - 60	CS97096OOJO	22180	1
	57 - 84	CS97096OOKO	22180	1
	72 - 108	CS97096OOLO	22180	1
	105 - 156	CS97096OOMO	22180	1
	138 - 201	CS97096OONO	26320	1
	201 - 291	CS97096OOQO	27490	1
	255 - 375	CS97096OORO	33710	1

Thermal Overload Relays [8536]

Type RX

Features

- Direct mounting on MX contactor
- Built-in single phasing protection
- Front access to START and STOP/RESET buttons

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RX (Directly Operated) Direct Mounting on MX Contactors	0.23-0.41	CS96357OOFO	2420	10
	0.45-0.78	CS96357OOJO	2420	10
	0.78-1.2	CS96357OOLO	2420	10
	1.2-1.9	CS96357OONO	2420	10
	1.8-2.8	CS96357OOPO	2420	10
	2.6-3.6	CS96357OOQO	2420	10
	3.6-5.2	CS96357OOSO	2420	10
	4.8-7	CS96357OOTO	2420	10
	6.4-9.7	CS96357OOVO	2420	10
	8.2-12.1	CS96357OOAO	2420	10

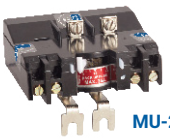
Type ML



ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	Direct Mounting on ML 1.5 Contactors			
ML 1 (Directly Operated)	0.15 - 0.25	SS91858OODO	6710	10
	0.25 - 0.4	SS91858OOFO	6710	10
	0.4 - 0.65	SS91858OOHO	6710	10
	0.6 - 1	SS91858OOKO	6710	10
	1 - 1.6	SS91858OOMO	6710	10
	1.5 - 2.5	SS91858OOPO	6710	10
	2.5 - 4	SS91858OORO	6710	10
	4 - 6.5	SS91858OOTO	6710	10
	6 - 10	SS91858OOVO	6710	10
	10 - 16	SS91858OOBO	6710	10
	11 - 18	SS91858OOCO	6710	10
	Direct Mounting on ML 2/3 Contactors			
ML 2 / ML 3 (Directly Operated)	9 - 14	SS91859OOAO	9930	10
	13 - 21	SS91859OOCO	9930	10
	20 - 32	SS91859OOEO	9930	10
	28 - 42	SS91859OOFO	9930	10

Type MU-2P (2 Pole)



MU-2P

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	MU 2P (2 Pole)			
Direct Mounting on MU-2P Contactor	1 - 1.6A	CS90207OOMO	1130	1
	1.5 - 2.5A	CS90207OOPO	1130	1
	2.5 - 4A	CS90207OORO	1130	1
	4 - 6.5A	CS90207OOTO	1130	1
	6 - 10A	CS90207OOVO	1130	1
	9 - 14A	CS90207OOAO	1130	1

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	MU 2P (2 Pole)			
Direct Mounting on MU-2P Contactor	11 - 18A	CS90207OOCO	1260	1
	13 - 22A	CS90207OODO	1260	1
	16 - 26A	CS90207OOBO	1260	1
	20 - 32A	CS90207OOEO	1580	1
	26 - 40A	CS90207OOFO	1580	1

Accessories for Thermal Overload Relays [8538]

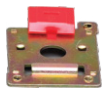
Accessories for Thermal Overload Relays



Relay Mounting Kit



Kit for Mounting MN5 Relay



Din Rail Mounting Kit MN2 Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button extn. unit for MN 2 Relays	SS949680000	115	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS947010000	395	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS947000000	395	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS946380000	635	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS941510000	410	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS941520000	565	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS918870000	310	50

Separate Mounting Kit for RTO Relay



Relay Reset Cord for MN & RTO relay



400 mm



650 mm



900 mm



1200 mm

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN Relay reset cord - 400mm	SB942070000	1430	1
MN Relay reset cord - 650mm	SB942080000	1490	1
MN Relay reset cord - 900mm	SB942090000	1525	1
MN Relay reset cord - 1200mm	SB942100000	1715	1
RTO Relay reset cord - 400mm	CS909410000	1430	1
RTO Relay reset cord - 650mm	CS909420000	1490	1
RTO Relay reset cord - 900mm	CS909430000	1525	1
RTO Relay reset cord - 1200mm	CS909440000	1715	1

Description	Cat. No.	M.R.P.(₹) Per Unit	Std. Pkg. (Nos.)
RTO-1 Relay Separate Mounting Kit	CS963350000	535	1
RTO-2 Relay Separate Mounting Kit	CS963060000	1260	1
RTO-3 Relay Separate Mounting Kit	CS963070000	1800	1

Type REO - Electronic Overload Relay



To Experience the Benefits of REO Electronic Overload Relay

Click or Scan

Features

- Protections:
  - » Overload
  - » Single Phasing, Phase unbalance
  - » Locked Rotor
  - » Earth Fault in REO 1.1G & REO 4G
- Trip indication
- Selectable Trip class - 10A, 10, 20, 30 as per IEC 60947-4-1
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1

Model	Type of Mounting	Relay Range (A)	Without earth fault protection		Model	With in-built earth fault protection		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	
REO 1.1	Direct Mounting on MO 9-45	0.15-0.75	**CS90418OOJO**	**10540**	REO 1.1G	**CS90423OOJO**	**17570**	10
		0.6-3	**CS90418OOQO**	**10540**		**CS90423OOQO**	**17570**	10
		2.4-12	**CS90418OOLO**	**10540**		**CS90423OOLO**	**17570**	10
		9-45	**CS90418OOGO**	**11830**		**CS90423OOGO**	**18160**	10
REO 4	Separate Mounting	18-90	**CS90418OOUO**	**31220**	REO 4G	**CS90423OOUO**	**31520**	1
		72-360	**CS90418OORO**	**42780**		**CS90423OORO**	**42940**	1

Type REO - Electronic Over Current Relay

Electronic Overcurrent Relay (EOCR) is a type of Electronic relay that has tripping based on Definite mean time characteristics. The tripping of relay is decided by trip time selected by user.



Features

- Protections:
  - » Overload
  - » Single Phasing, Phase unbalance
  - » Locked Rotor
- Settable start time (5s, 10s, 20s, 40s) and trip time (2s, 4s, 8s, 16s)
- Trip indication
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1

Model	Type of Mounting	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO 1.1c	Direct Mounting on MO 9-45	0.15-0.75	**CS91911OOJO**	**13540**	1
		0.6-3	**CS91911OOQO**	**13540**	1
		2.4-12	**CS91911OOLO**	**13540**	1
		9-45	**CS91911OOGO**	**13540**	1

Accessories for REO - Electronic Overload Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO Relay Reset Cord - 400mm	**CS904250OOO**	**1430**	1
Separate Mounting Kit for REO 1.1/1.1G/1.1c Relay	**CS963350OOO**	**535**	1

Lauritz Knudsen

Electrical & Automation

eMPR300D & eMPR300I

Microcontroller based Motor Protection Relay with Inbuilt CTs, Display and Communication.

Protect Your Motors, Enhance Plant Performance.



- Electronic Overload + Overcurrent Protection
- EOLR + EOCR in one product
- Current rating 1 to 88 Amp
- RS-485 Communication

Remote Monitoring of Motor Feeders with SMARTCOMM

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eMPR150 - Electronic Motor Protection Relay



- **Protections**
  - » Overload
  - » Locked Rotor
  - » Single Phasing, Current Unbalance,
  - » Under Current
- **Inbuilt CT's (1 A to 88 A)**
- **Trip indication**
- **Test facility**
- **Site Selectable – Fail-safe / Non Fail-safe mode**
- **Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1**

Model	Aux.Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR150	110V AC	1-5.5	49, 51LR, 37, 46	EMPR150XAAO	4480
		4-22		EMPR150XABO	6830
		16-88		EMPR150XACO	9180
	230V AC	1-5.5		EMPR150XBAO	4480
		4-22		EMPR150XBBO	6830
		16-88		EMPR150XBCO	9180

eMPR selection must be done as per Line Current of Motor

eMPR300 - Electronic Motor Protection Relay with Built-in Earth Fault Protection



- **Protections**
  - » Overload
  - » Locked Rotor
  - » Single Phasing, Current Unbalance,
  - » Under Current
  - » Earth Fault
  - » Phase Sequence Reversal
- **Inbuilt CT's (1 A to 88 A)**
- **Trip indication**
- **Test facility**
- **Site Selectable Phase Sequence - RYB/ RBY**
- **Site Selectable – Fail-safe / Non Fail-safe mode**
- **Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1**

Model	Aux.Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300	110V AC	1-5.5	49, 51LR, 64, 37, 46	EMPR300XAAO	11760
		4-22		EMPR300XABO	14110
		16-88		EMPR300XACO	16460
	230V AC	1-5.5		EMPR300XBAO	11760
		4-22		EMPR300XBBO	14110
		16-88		EMPR300XBCO	16460

eMPR selection must be done as per Line Current of Motor

New

eMPR300D - Electronic Motor Protection Relay with inbuilt display

One solution for both EOLR and EOCR applications



- **Protections**
  - » Overload
  - » Locked Rotor
  - » Single Phasing, Current Unbalance,
  - » Dry Run Protection with Programmable Under Current
  - » Earth Fault
  - » Phase Sequence Reversal
  - » Overcurrent
- **7 Segment LED Display**
- **Inbuilt CT's (1 A to 88 A)**
- **5 trip records**
- **Test facility**
- **Site Selectable – Fail-safe / Non Fail-safe mode**
- **Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1**

Model	Aux.Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300D	85-265V AC	1-5.5	37, 46, 49, 51LR, 51, 64	EMPR300DCAO	12390
		4-22		EMPR300DCBO	14600
		16-88		EMPR300DCCO	16800

eMPR selection must be done as per Line Current of Motor

New

eMPR300I - Electronic Motor Protection Relay with inbuilt display & Modbus RTU Communication

One solution for both EOLR and EOCR applications

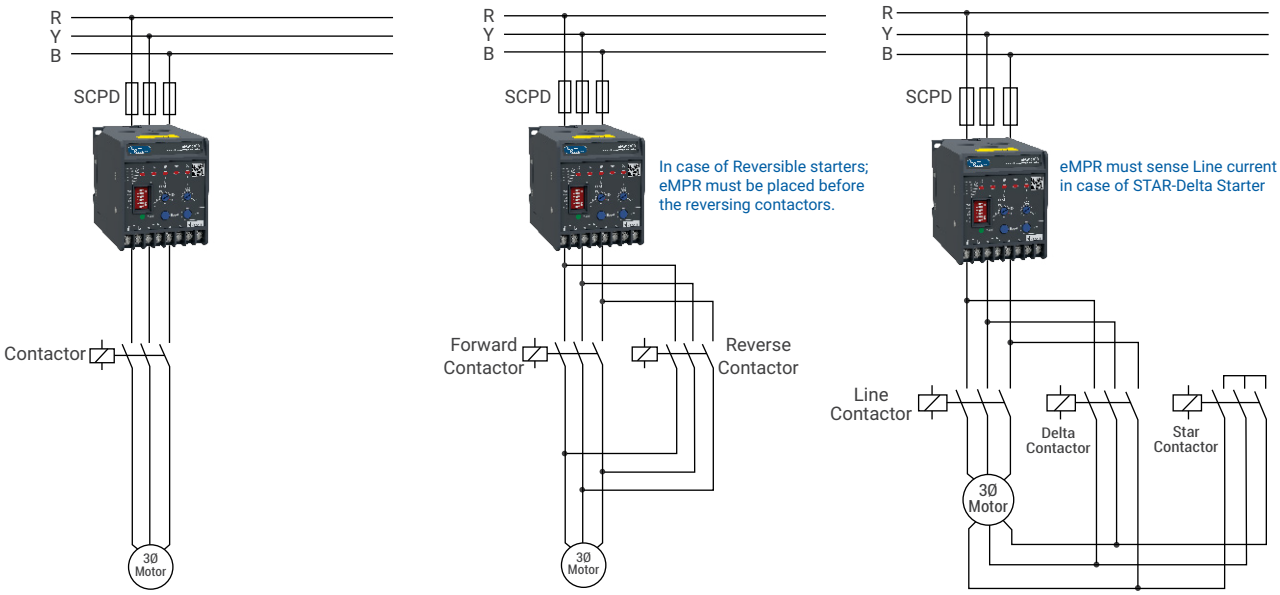


- **Protections**
  - » Overload
  - » Locked Rotor
  - » Single Phasing, Current Unbalance,
  - » Dry Run Protection with Programmable Under Current
  - » Earth Fault
  - » Phase Sequence Reversal
  - » Overcurrent
- **7 Segment LED Display**
- **Inbuilt CT's (1 A to 88 A)**
- **5 trip records**
- **Test facility**
- **Site Selectable – Fail-safe / Non Fail-safe mode**
- **Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1**
- **Inbuilt Communication port Modbus - RS-485**

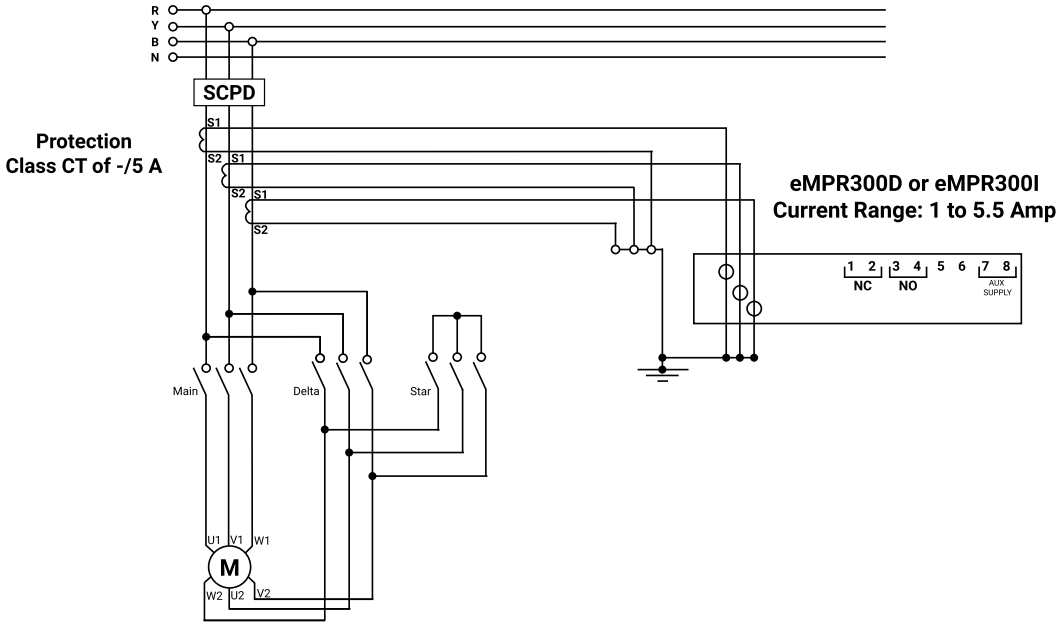
Model	Aux.Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300I	85-265V AC	1-5.5	37, 46, 49, 51LR, 51, 64	EMPR300ICAO	17850
		4-22		EMPR300ICBO	20060
		16-88		EMPR300ICCO	22260

eMPR selection must be done as per Line Current of Motor

Application Schemes : eMPR150, eMPR300, eMPR300D, eMPR300I



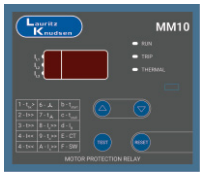
eMPR300D or eMPR300I with External 5P10 Class CTs for Motors with FLC > 88 Amp



Compact Motor Protection Relay - MM10

Features

- Flush Mounting with display
- Last trip data recording
- Protections:
  - » Thermal Overload with pre-alarm
  - » Short Circuit
  - » Earth fault
  - » Phase loss, Unbalance, Phase reversal
  - » Under Current
  - » Prolong starting, Locked Rotor



Model	Aux. Supply	CT# secondary	Device code	Cat. No.	M.R.P. (₹) Per Unit
MM10*	110 - 240 V AC / DC	5 Amp	37, 46, 49, 50 / 51, 51LR, 64	**MM10240E005**	**46640**

#- Protection Class CT
*- Available till stock last

Draw-out Motor Protection Relay - MPR21

- MPR21 – 37, 46, 48, 49, 50BF, 50, 51, 50N, 51N, 51LR, 64, 66, 74TCS.
- Microcontroller-based design
- Draw-out enclosure.
- CT rating#- 1A/ 5A (site selectable)
- Display of 250 event and 30 Trip records
- 128*64 graphical display
- Modbus RS-485 Communication
- Front Micro USB port for numrAL Suite



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL MPR21	20 - 60V DC	Modbus RS 485	**NRMPR2A28RA**	**69000**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRMPR2B28RA**	**69000**

#- Protection Class CT

Lauritz Knudsen

Electrical & Automation

Redundant and Reliable network for Intelligent Motor Management Solution with iMMR



DISPLAY UNIT

iMMR MAIN UNIT

CT UNIT



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iMMR - Intelligent Motor Management Relay

Besides control, protection and diagnostics, iMMR provides accurate real time data for analytics and insights into the performance of plant and process

Optimum Protection | Accurate real time data | Predictive Maintenance | Cloud Computing | Profinet/Modbus Protocol

Intelligent Motor Management Solutions for enhancement of process and energy efficiency.	Comprehensive Protection and Reliable Motor control with Ethernet based redundant communication network.	Real time monitoring and Predictive analytics with SmartComm	Ring & Star communication networking with Profinet & Ethernet IP

iMMR - Intelligent Motor Management Relay [8536]



iMMR is a comprehensive Motor protection, control and monitoring relay for intelligent MCC's

"Besides control, protection and diagnostics, iMMR provides accurate real time data for analytics and insights into the performance of plant and process"

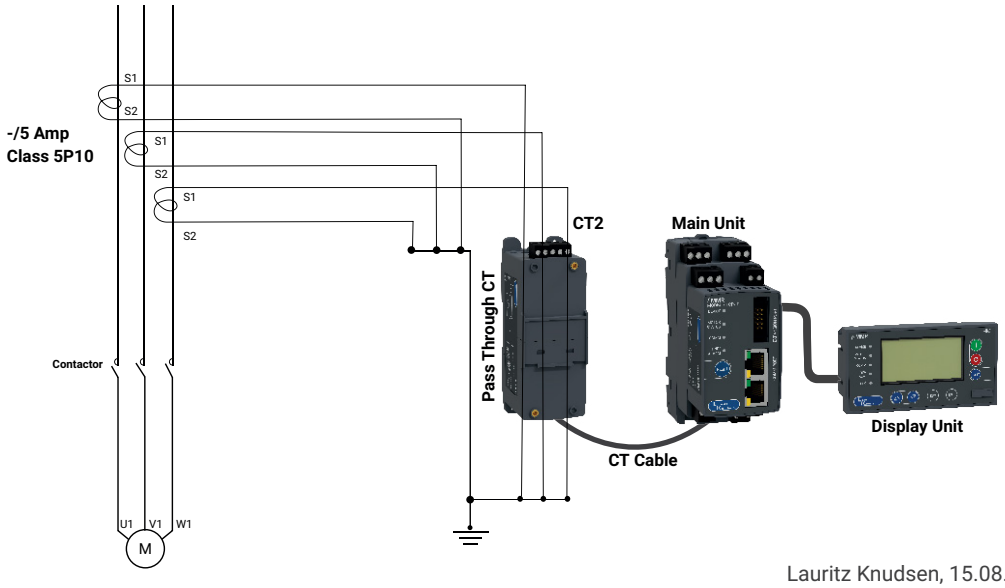
Features

- Comprehensive Current & Voltage based Protections
- 20 nos. of last trip records, 100 event records and 20 IRF Records are available
- Preprogrammed Starter logics reduces manufacturing and commissioning time
- Software iMMR Suite is available for Easy and effective configuration and monitoring
- Ethernet IP, Profinet, Modbus RTU, Modbus TCP/IP and Profibus-DP protocols available for seamless integration with DCS/PLC
- Redundant network for seamless Motor control and monitoring, with Profinet/ Ethernet IP

Product	Description	Cat. No.	M.R.P. (₹) Per Unit
Main Unit	iMMR MODBUS RTU 85-265 VAC/DC	CS912440000	30000
	iMMR PROFIBUS-DP 85-265 VAC/DC	*Available On Request	
	iMMR MODBUS TCP/IP 85-265 VAC/DC	*Available On Request	
	iMMR Ethernet IP 85-265 VAC/DC	*Available On Request	
	iMMR Profinet 85-265 VAC/DC	*Available On Request	
CT Unit	CT1 (0.3-3A) with 15 cm cable	CS912450000	6900
	CT2 (2.5-25A) with 15 cm cable	CS912460000	9200
	CT3 (7-70A) with 15 cm cable	CS912470000	14600
CTVT Unit	CT1 (0.3-3A) + VT with 15 cm cable	CS912490000	15900
	CT2 (2.5-25A) + VT with 15 cm cable	CS912500000	18700
	CT3 (7-70A) + VT with 15 cm cable	CS912510000	24600
Display Unit	iMMR Display unit without cable	CS912530000	16000
Display Cable	iMMR Display Cable - 1 meter	XK131280000	1400
	iMMR Display Cable - 2 meter	XK131290000	2100
Expansion Unit	iMMR EXP 4DI + 2DO with 10 cm cable	*Available On Request	
	iMMR EXP 6DI 110V/240V with 10cm cable	*Available On Request	
	iMMR EXP Earth Leakage + 2DI + 2DO with 10 cm cable	*Available On Request	
	iMMR EXP 2AI + 1AO with 10 cm cable	*Available On Request	

* Please contact our nearest branch for details

iMMR with external CT's for Motors >37kW



iMMR selection guide

Main Unit + **CT / CTVT Unit** + **Display Unit** + **Display Cable** + **Expansion Unit** = **iMMR for one motor**

Main Unit	CT / CTVT Unit	Display Unit	Display Cable	Expansion Unit	iMMR for one motor
Select **Main Unit** based on required communication protocol.	For Current based protection select **CT Unit**. For Current & Voltage based protection select **CTVT Unit**.	Select a panel mounted **Display Unit & Cable** for monitoring and parametrization.		Add up to 5 **Expansion Unit** based on DI/DO & AI/AO requirement.	Complete package selection of **iMMR**.

Cat.no. selection guide

Modbus RTU communication and **Current** based protection and metering

Motor Rating	Total MRP	Main Unit - Modbus RTU	CT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	55000	CS912440000	CS912450000	CS912530000	XK131290000
1.1 KW to 11 KW	57300	CS912440000	CS912460000	CS912530000	XK131290000
11 KW to 37 KW	62700	CS912440000	CS912470000	CS912530000	XK131290000
>37 KW	57300	CS912440000	CS912460000*	CS912530000	XK131290000

* with External Protection class CT's of -/5Amp

Modbus RTU communication and **Current + Voltage** based protection and metering

Motor Rating	Total MRP	Main Unit - Modbus RTU	CTVT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	64000	CS912440000	CS912490000	CS912530000	XK131290000
1.1 KW to 11 KW	66800	CS912440000	CS912500000	CS912530000	XK131290000
11 KW to 37 KW	72700	CS912440000	CS912510000	CS912530000	XK131290000
>37 KW	66800	CS912440000	CS912500000*	CS912530000	XK131290000

* with External Protection class CT's of -/5Amp



Manual Motor Starters [8536]

Rocker Type

- MOG-S1: upto 32A
- Short circuit + Overload protection

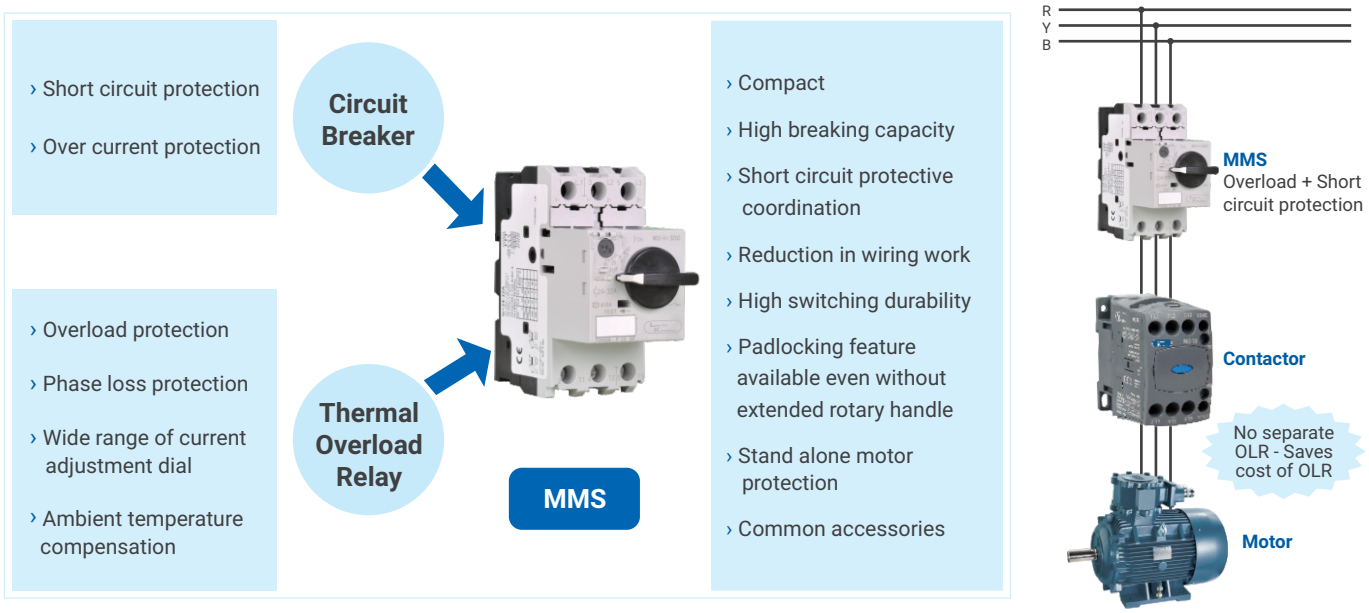
Rotary Type

- MOG-H1M: upto32A
- MOG-H2M: 32A-63A
- Short circuit protection

Rotary Type

- MOG-H1: upto 32A
- MOG-H2: 32A-63A
- Short circuit + Overload protection

Rocker type and Rotary Type Manual Motor Starters conforms to IEC 60947-4-1



Type MOG-S1 (Rocker Type)

With short circuit & overload protection



Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Thermal Release range (A)	Instantaneous Trip Current (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	2.1	**ST418890000**	**5360**	**1**
0.25	0.06	0.16 - 0.25	3.3	**ST418900000**	**5360**	**1**
0.40	0.09	0.25 - 0.40	5.2	**ST418910000**	**5360**	**1**
0.63	0.12	0.40 - 0.63	8.2	**ST418920000**	**6105**	**1**
1.00	0.25	0.63 - 1.00	13	**ST418930000**	**6105**	**1**
1.60	0.55	1.00 - 1.60	20.8	**ST418940000**	**6135**	**1**
2.50	0.75	1.60 - 2.50	32.5	**ST418950000**	**6135**	**1**
4.00	1.50	2.50 - 4.00	52	**ST418960000**	**6370**	**1**
6.30	2.20	4.00 - 6.30	81.9	**ST418970000**	**6370**	**1**
10.00	4.00	6.30 - 10.00	130	**ST418980000**	**6795**	**1**
13.00	5.40	9.00 - 13.00	169	**ST418990000**	**7645**	**1**
16.00	7.50	11.00 - 16.00	208	**ST419000000**	**8370**	**1**
20.00	9.00	14.00 - 20.00	260	**ST419010000**	**8790**	**1**
25.00	12.50	19.00 - 25.00	325	**ST419020000**	**9235**	**1**
32.00	15.00	24.00 - 32.00	416	**ST419030000**	**16405**	**1**

Note: Extended rotary handle cannot be fitted with MOG - S1

Type MOG-H1 (Rotary Type) - Frame1

With short circuit & overload protection



Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Thermal Release range (A)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	2.1	**ST419040000**	**6000**	**1**
0.25	0.06	0.16 - 0.25	3.3	**ST419050000**	**6215**	**1**
0.40	0.09	0.25 - 0.40	5.2	**ST419060000**	**6215**	**1**
0.63	0.12	0.40 - 0.63	8.2	**ST419070000**	**6950**	**1**
1.00	0.25	0.63 - 1.00	13	**ST419080000**	**6950**	**1**
1.60	0.55	1.00 - 1.60	20.8	**ST419090000**	**7175**	**1**
2.50	0.75	1.60 - 2.50	32.5	**ST419100000**	**7175**	**1**
4.00	1.50	2.50 - 4.00	52	**ST419110000**	**7310**	**1**
6.30	2.20	4.00 - 6.30	81.9	**ST419120000**	**7375**	**1**
10.00	4.00	6.30 - 10.00	130	**ST419130000**	**7860**	**1**
13.00	5.40	9.00 - 13.00	169	**ST419140000**	**8715**	**1**
16.00	7.50	11.00 - 16.00	208	**ST419150000**	**9375**	**1**
20.00	9.00	14.00 - 20.00	260	**ST419160000**	**10105**	**1**
25.00	12.50	19.00 - 25.00	325	**ST419170000**	**10505**	**1**
32.00	15.00	24.00 - 32.00	416	**ST419180000**	**17030**	**1**

Manual Motor Starters [8536]

Type MOG-H1M (Rotary Type) - Frame 1



With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	2.1	**ST419230000**	**5785**	1
0.25	0.06	3.3	**ST419240000**	**5785**	1
0.40	0.09	5.2	**ST419250000**	**5785**	1
0.63	0.12	8.2	**ST419260000**	**6545**	1
1.00	0.25	13	**ST419270000**	**6670**	1
1.60	0.55	20.8	**ST419280000**	**6670**	1
2.50	0.75	32.5	**ST419290000**	**6715**	1
4.00	1.50	52	**ST419300000**	**6790**	1
6.30	2.20	81.9	**ST419310000**	**6790**	1
10.00	4.00	130	**ST419320000**	**7010**	1
13.00	5.40	169	**ST419330000**	**7320**	1
16.00	7.50	208	**ST419340000**	**7320**	1
20.00	9.00	260	**ST419350000**	**7685**	1
25.00	12.50	325	**ST419360000**	**7920**	1
32.00	15.00	416	**ST419370000**	**12580**	1

Type MOG-H2 (Rotary Type) - Frame 2



With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Thermal Release range (A)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	24.00 - 32.00	416	**ST419190000**	**20700**	1
40.00	20.00	28.00 - 40.00	520	**ST419200000**	**22825**	1
50.00	25.00	35.00 - 50.00	650	**ST419210000**	**28495**	1
63.00	34.00	45.00 - 63.00	819	**ST419220000**	**28915**	1

Type MOG-H2M (Rotary Type) - Frame 2



With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	416	**ST419380000**	**19845**	1
40.00	20.00	520	**ST419390000**	**19985**	1
50.00	25.00	650	**ST419400000**	**20550**	1
63.00	34.00	819	**ST419410000**	**20980**	1

Accessories for MOG [8538]



Short Circuit Alarm



Auxiliary + Alarm



Extended Rotary Handle



Shunt Trip

Mounting Position*	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
F1/F2	Auxiliary Contact Front mtg. 1NO	**ST419420000**	**1000**	10
F1/F2	Auxiliary Contact Front mtg. 1NC	**ST419430000**	**1000**	10
L	Auxiliary Contact Left side mtg. 2NO	**ST419440000**	**1375**	1
L	Auxiliary Contact Left side mtg. 1NO + 1NC	**ST419450000**	**1375**	1
L	Auxiliary Contact Left side mtg. 2NC	**ST419460000**	**1375**	1
F2	Trip Alarm Contact Front mtg. 1NO	**ST419470000**	**1780**	10
F2	Trip Alarm Contact Front mtg. 1NC	**ST419480000**	**1780**	10
L	Auxiliary + Alarm Left side mtg. 2NO	**ST419490000**	**1890**	1
L	Short circuit alarm Left side mtg. 1NO + 1NC	**ST419500000**	**1890**	1
R	Shunt trip 24V DC	**ST419510000**	**3635**	1
R	Shunt trip 110V, 50Hz	**ST419520000**	**3825**	1
R	Shunt trip 230V, 50Hz	**ST429520000**	**3825**	1
R	Under Voltage release, 110V, 50Hz	**ST419530000**	**3825**	1
R	Under Voltage release, 415V, 50Hz	**ST419540000**	**3825**	1
-	External operating handle, (Black) Frame 1	**ST419550000**	**2205**	1
-	External operating handle, (Black) Frame 2	**ST419560000**	**2205**	1

* F1- Front left slot F2- Front right slot L- Left side R- Right side



MMSs with bus bar connection



Connecting Busbar link



3 Phase Feed in terminal

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Connecting Busbar link			
2 MMS 45 mm width w/o acc	**ST419570000**	**1150**	5
3 MMS 45 mm width w/o acc	**ST419580000**	**1265**	5
4 MMS 45 mm width w/o acc	**ST419590000**	**1370**	5
5 MMS 45 mm width w/o acc	**ST419600000**	**1745**	5
2 MMS 45 mm width with one acc 9 mm	**ST419610000**	**1345**	5
3 MMS 45 mm width with one acc 9 mm	**ST419620000**	**1450**	5
4 MMS 45 mm width with one acc 9 mm	**ST419630000**	**1560**	5
5 MMS 45 mm width with one acc 9 mm	**ST419640000**	**1665**	5
2 MMS 55 mm width w/o acc	**ST419660000**	**2100**	1
3 MMS 55 mm width w/o acc	**ST419670000**	**2395**	1
4 MMS 55 mm width w/o acc	**ST419680000**	**2870**	1
2 MMS 55 mm width with one acc 9 mm	**ST419690000**	**2285**	1
3 MMS 55 mm width with one acc 9 mm	**ST419700000**	**2605**	1
4 MMS 55 mm width with one acc 9 mm	**ST419710000**	**3060**	1
2 MMS 55 mm width with two acc 18 mm	**ST419720000**	**2675**	1
4 MMS 55 mm width with two acc 18 mm	**ST419730000**	**2985**	1
Feed in terminal for 45 mm width Busbar	**ST419650000**	**1345**	1
Feed in terminal for 55 mm width Busbar	**ST419740000**	**2320**	1
Bus bar safety cover 45 mm width Busbar	**ST419750000**	**580**	10
Bus bar safety cover 55 mm width Busbar	**ST419760000**	**630**	10

acc: Accessories

Motor Starters [8536]

Direct-on-Line Starters

in Sheet-Steel Enclosure Type MN / ML
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)



MN 16



ML 1.5

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
10.0	7.5	9 - 15	MN 16 DOL	**SS94351**	**9820**	1
15.0	11.0	14 - 23	MN 25 DOL	**SS94352**	**14990**	1
20.0	15.0	20 - 33	MN 32 DOL	**SS94353**	**24200**	1
30.0	22.5	30 - 50	MN 45 DOL	**SS94017**	**41200**	1
45.0	33.5	45 - 75	MN 65 DOL	**SS94018**	**56600**	1
30.0	22.5	28 - 42	ML 3 DOL	**SS90722**	**53300**	1

Fully Automatic Star-Delta Starters [8536]

in Sheet-Steel Enclosure Type MN / ML
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
17.5	13.0	9 - 15	MN 16 FASD	**SS94362**	**33100**	1
30.0	22.5	14 - 23	MN 25 FASD	**SS94364**	**37000**	1
40.0	30.0	20 - 33	MN 32 FASD	**SS94366**	**60800**	1
50.0	37.5	30 - 50	MN 45 FASD	**SS94021**	**97500**	1
75.0	55.0	45 - 75	MN 65 FASD	**SS94022**	**161800**	1
90.0	67.5	45 - 75	MN 80 FASD	**SS94705**	**176700**	1
150.0	110.0	66 - 110	MN 110 FASD	**SS94706**	**231400**	1
180.0	132.0	90 - 150	MN 140 FASD	**SS94707**	**252800**	1
50.0	37.5	28 - 42	ML3 FASD	**SS90730**	**128500**	1
75.0	55.0	45 - 75	ML4 FASD	**SS90913**	**220000**	1
125.0	90.0	66 - 110	ML6 FASD	**SS90923**	**361000**	1

Spares for MN Starters [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Bracket for Mounting cont. MNX 25 - 32	**SS940300000**	**320**	20
MN DOL/FASD Push Button	**SS939410000**	**550**	10

Timers

Electronic Timers Type ST100 [9107]



ST 100

Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
240 / 360 / 415V, 50Hz for			
3 - 30 secs.	**ST803280000**	**2470**	1
12 - 120 secs.	**ST803290000**	**2470**	1

Note:
ST 100 supplied with Mounting Kit, suitable for ET 100 replacement.
For Complete range of Timing Devices, please refer the Panel Accessories Price List.

Ordering Suffix for ML & MN Starters

Coil Voltages
B - 240 V
C - 360 V
D - 415 V
P - 440 V

Relay Range (A)	
ML	MN
A : 9 - 14	B : 9 - 15
B : 10 - 16	D : 14 - 23
C : 13 - 21	E : 20 - 33
E : 20 - 32	G : 30 - 50
F : 28 - 42	J : 45 - 75
G : 30 - 50	K : 66 - 110
J : 45 - 75	Q : 2 - 3.3
K : 66 - 110	S : 3 - 5
M : 90 - 150	T : 36 - 60
P : 135 - 225	U : 4.5 - 7.5
Q : 180 - 310	V : 6 - 10
R : 2.5 - 4	M : 90 - 150
T : 13 - 21	

All our Type 2 charts are available on **Knowledge Portal**

Access E&A's Knowledge Portal from
www.LK-EA.com/kp

Following combination of Type 2 Charts available

Fuse Based Charts		Fuseless Charts			
IE2/IE3	IE2/IE3	IE2	IE2	IE3	IE3
DOL	SD	DOL	SD	DOL	SD
FN	FN	MMS/MCCB	MMS/MCCB	MMS/MCCB	MMS/MCCB
MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO

Charts available at Iq of
- 50kA
- 65kA
- 80kA
- 100kA

MCCB charts are available with Microprocessor Releases too



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- Plug and Play Solution
- RS-485 for Seamless connectivity
- Application friendly
- Large Display unit
- No change in Footprint
- Features of C-line intact

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Integrated ATS, Frame 2-125A	125A	**CK90161BATS**	**80000**	1
Integrated ATS, Frame 2-160A	160A	**CK90162BATS**	**85000**	1
Integrated ATS, Frame 2-200A	200A	**CK90163BATS**	**96100**	1
Integrated ATS, Frame 3-250A	250A	**CK90164BATS**	**114600**	1
Integrated ATS, Frame 3-315A	315A	**CK90165BATS**	**116500**	1
Integrated ATS, Frame 4-400A	400A	**CK90166BATS**	**138600**	1
Integrated ATS, Frame 4-630A	630A	**CK90167BATS**	**168200**	1
Integrated ATS, Frame 5-800A	800A	**CK90169BATS**	**233370**	1
Integrated ATS, Frame 5-1000A	1000A	**CK90170BATS**	**262500**	1

Automatic Solution | Pre-wired | Flexible Settings



Switch to ATS

Now, experience seamless transfer between two power sources...

Convenience

- Ample Space for Cable Termination
- Ease of Generator Control (ON-OFF, Cooling Cycle Self-Test)
- Cyclic Event Logger: Logs 100 Events

Flexibility

- Priority Source Selection
- Adjustable Time Delay (0.1sec to 3 hours)
- Suitable for 3-Phase as well as 1-Phase Sources

Performance

- Wide range: 125A to 630A, 415V ac.
- Double-Break Contact System offering High Short-time Withstand (Icw)
- High Mechanical and Electrical Life: Double than requirement of IS/IEC standard
- Suitable for Aluminum Termination

Safety

- Protections: UV/OV, Phase Sequence, Single Phasing, Frequency
- Authorized Access Control through Password Protection
- Terminal Shrouds, Phase Barriers & Source Separator

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Enclosed ATS, Frame 2, 125A	125A	**CK90161BSOO**	**105800**	1
Enclosed ATS, Frame 2, 160A	160A	**CK90162BSOO**	**121220**	1
Enclosed ATS, Frame 2, 200A	200A	**CK90163BSOO**	**126510**	1
Enclosed ATS, Frame 3, 250A	250A	**CK90164BSOO**	**147350**	1
Enclosed ATS, Frame 3, 315A	315A	**CK90165BSOO**	**154600**	1
Enclosed ATS, Frame 4, 400A	400A	**CK90166BSOO**	**178910**	1
Enclosed ATS, Frame 4, 630A	630A	**CK90167BSOO**	**217340**	1

Chapter ID [8537]

For AuXC 2000 programming videos and more details please scan the QR code or click here

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Changeover Switch-Disconnector (Conforms to IEC 60947-3, IS/IEC 60947-3)

Features offered by Manual Changeover

- Range 63A to 2000A, 415V, AC 23A, 4P
- Enclosure version does not require separate cable gland box
- Terminal Shrouds, Source Separator and Phase Barriers included
- Staggered Terminals make cable termination easy
- Suitable for horizontal as well as vertical mounting



Open execution



SS enclosure



Motorised Changeover

Features offered by Motorised Changeover

- Range 40 A to 2000A, 415V, AC 23A, 4P (Control Voltage 240 Vac)
- No change in HxWxD dimension of motorised and manual changeover switch
- Padlocking in OFF position
- Option for selection between manual and auto mode

Size	Rated Current (A)	Type	Manual Changeover Open Execution		Manual Changeover In Sheet Steel Enclosure#		Motorised Changeover Open Execution		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	40	CO1-40	-	-	-	-	New CK90944BOOO	34240	1
	63	CO1-63	CO106300OOO	7870	CO106300SOO	12650	New CK90945BOOO	35710	1
	63	CO1-63	CO10630OOOD ▲	7640					
	100	CO1-100	CO110000OOO	9960	CO110000SOO	14050	New CK90946BOOO	42060	1
	100	CO1-100	CO11000OOOD ▲	9470					
	125	CO1-125	CO112500OOO	13130	CO112500SOO	17400	New CK90947BOOO	44720	1
Fr 2	125	CO2-125	CO212500OOO	16270	CO212500SOO	24790	CK90161BOOO	60630	1
	160	CO2-160	CO216000OOO	17840	CO216000SOO	26060	CK90162BOOO	75470	1
	200	CO2-200	CO220000OOA	20990	CO220000SOO	29970	CK90163BOOO	82290	1
Fr 3	250	CO3-250	CO325000OOO	30350	CO325000SOO	41430	CK90164BOOO	99530	1
	315	CO3-315	CO331500OOO	33250	CO331500SOO	43590	CK90165BOOO	104150	1
Fr 4	400	CO4-400	CO440000OOO	47070	CO440000SOO	57810	CK90166BOOO	135860	1
	630	CO4-630	CO463000OOO	59950	CO463000SOO	77090	CK90167BOOO	171070	1
Fr 5	630	CO5-630	CO563000OOO	73070	-	-	CK90168BOOO	177690	1
	800	CO5-800	CO580000OOO	79100	CO580000SOO	147250	CK90169BOOO	248450	1
	1000	CO5-1000	CO510000OOO	175400	CO510000SOO	224490	CK90170BOOO	325770	1
Fr 6	1250	CO6-1250	CO612500OOO	212300	-	-	CK90081BOOO	368300	1
	1600	CO6-1600	CO616000OOO	266530	-	-	CK90082BOOO	452100	1
	2000	CO6-2000	CO620000OOO	372380	-	-	CK90083BOOO	558610	1

▲ Direct handle version # Sheet Steel Enclosure version is with CO with extended handle
Note: Changeovers will be without inbuilt Aux contact and same to be purchased separately as an accessories if required.

Spares & Accessories for Changeover S-D [8538]



Auxiliary Contact



Operating Handle (63A to 200A)



Flip-able Handle (250A to 2000A)



Castell Type Lock

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (2 sets of C/O contact)	CO1-(63-125A)	CX100020OOO	770	1
	CO2-(125-200A)	CX200020OOO	1310	1
	CO3-(250-315A)	CX300020OOO	1860	1
	CO4-(400-630A)	CX400020OOO	1970	1
	CO5-(630-1000A)	CX500020OOO	2290	1
	CO6-(1250-2000A)	CX600020OOO	2500	1
Operating Handle Kit (handle + shaft + center bush + bush clip)	CO1-(63-125A)	CX100010OOO	1170	1
	CO2-(125-200A)	CX300010OOO	2460	1
	CO3-(250-315A)	CK903920OOO	2530	1
	CO4-(400-630A)	CX400010OOO	2570	1
	CO5-(630-1000A)	CX500010OOO	2780	1
	CO6-(1250-2000A)***	CX600010OOO	3160	1
Castell Type Lock$	CO-(125-1000A)	CX400040OOO	4370	1
	CO6-(1250-2000A)	CX600040OOO	4180	1
Output shorting link	CO1-(63-125A) Top Side	CX10005OOOT	1220	1
	CO1-(63-125A) Bottom Side	CX10005OOOB	1440	1
Operating Handle for Motorised Changeover	C/O Frame 1 (40-125A)	CK909370OOO	1650	1
	C/O Frame 2 & 3 (125-315A)	CK903740OOO	2210	1
	C/O Frame 4 & 5 (400-1000A)	CK903780OOO	2780	1
	C/O Frame 6 (1250-2000A	CK906450OOO	6910	1

$ Chapter ID [8301]

Automatic Transfer Controllers (ATC) for Motorised Changeover [8538]



AST Controller with wire harness



AuXC-2000 Controller with wire harness



Illuminated Push Button assembly

Description	Type		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Automatic Transfer Controllers	AST Controller with wire harness		CK901920OOO	29620	1
	AuXC-2000 Controller** with wire harness	AuXC-2000β wire harness	ATC20000OOO	52600	1
			CK900990OOO	6040	1
Control Accessories	Illuminated Push Button assembly with Wire harness		CK901950OOO	6030	1

β Chapter ID [9032]

** **Note**: For communication version of AuXC controller refer page no-6
*** For CO6, the kit will have only operating handle.



CZ Bypass Switches

125A to 630A

Bypass Switches are meant for special application and help to maintain continuity of power supply to the load by simply 'bypassing' UPS or Servo stabilizer. Removal of the UPS or Servo, for maintenance or repair is safe, as it is isolated from both input and output sides in the 'bypass' mode.

Time-Saving Convenient solution
No hassle of operating multiple devices for safe and positive isolation on both sides of Servo/UPS

Phase Barriers
Easy to fit and long phase barriers for complete isolation between phases

Suitable for Aluminum Termination
Entire range is suitable for Aluminum cable/link termination as per the size prescribed by the standards

Safety interlock and padlocking
Door interlock is provided in ON position with defeat feature Also, Bypass Switch can be padlocked in OFF position; upto 3 padlocks can be fitted

Mounting flexibility
Suitable for mounting in horizontal as well as vertical orientation. Also, the shaft is 'cut-able' and can be adjusted to suit different panel depth requirements.

Finger proof protection (IP30)
Terminal Shrouds provide protection against accidental contact with live terminals.
As it is swivellable, there is no need to remove during termination/inspection

4P, Open Execution with extended handle

Frame	Rating 440Vac, AC 23A	Cat No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	**CK908130OOO**	**30650**	1
CZ1	160A	**CK908140OOO**	**31930**	1
CZ1	200A	**CK908150OOO**	**33760**	1
CZ1	250A	**CK908160OOO**	**44860**	1
CZ1	315A	**CK908170OOO**	**50250**	1
CZ2	315A	**CK908750OOO**	**55530**	1
CZ2	400A	**CK908760OOO**	**67750**	1
CZ2	630A	**CK908770OOO**	**82210**	1

Chapter ID [8536]

Accessories for CZ Bypass switch

Frame	Description	Cat No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1/ CZ2	Auxiliary Contact Kit* (1 C/O contact)	**CK908050OOO**	**735**	1

Chapter ID [8538]

* Upto 2 C/O contacts can be installed for status / indication

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Multiple Applications, One Solution

CZ Switch Disconnectors



- Compact 2P, 3P & 4P configurations
- 1250Vac Insulation Voltage
- AC-23A @ 690Vac without derating
- Suitable for 50°C ambient temperature
- Direct termination without the need of any extended links
- Extra assurance with visible contact system
- High electrical and mechanical life (double than requirement in IS/IEC standards)
- Terminal shrouds and phase barriers are provided as standard offering along with the product
- Higher ground clearance ensure safety at all times

Versions: Upto 690V

4P AC Switch Disconnector

Frame	Rating Upto 690V, AC 23A	Handle Type	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	Extended	**CK907690000**	**9900**	1
CZ1	160A	Extended	**CK907700000**	**13100**	1
CZ1	200A	Extended	**CK907710000**	**15200**	1
CZ1	250A	Extended	**CK907720000**	**17100**	1
CZ1	315A	Extended	**CK907730000**	**19400**	1
CZ2	315A	Extended	**CK908570000**	**20200**	1
CZ2	400A	Extended	**CK908580000**	**25300**	1
CZ2	630A	Extended	**CK908590000**	**33900**	1
CZ1	125A	Direct	**CK907990000**	**9590**	1
CZ1	160A	Direct	**CK908000000**	**12500**	1
CZ1	200A	Direct	**CK908010000**	**14500**	1
CZ1	250A	Direct	**CK908020000**	**16300**	1
CZ1	315A	Direct	**CK908030000**	**17200**	1
CZ2	315A	Direct	**CK908720000**	**19100**	1
CZ2	400A	Direct	**CK908730000**	**24500**	1
CZ2	630A	Direct	**CK908740000**	**30800**	1

Chapter ID [8536]

4P AC Switch Disconnector in SS enclosure (with extended handle)

Frame	Rating Upto 690V, AC 23A	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	**CK908190000**	**20400**	1
CZ1	160A	**CK908200000**	**23600**	1
CZ1	200A	**CK908210000**	**26600**	1
CZ1	250A	**CK908220000**	**30500**	1
CZ1	315A	**CK908230000**	**32200**	1
CZ2	315A	**CK908780000**	**38400**	1
CZ2	400A	**CK908790000**	**44500**	1
CZ2	630A	**CK908800000**	**52100**	1

Chapter ID [8536]

Accessories for CZ Switch Disconnector

Frame	Description	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1/CZ2	Auxiliary Contact Kit (1 C/O contact)	**CK908050000**	**735**	1
CZ1	Extended Handle	**CK907400000**	**1535**	1
CZ2	Extended Handle	**CK908420000**	**1765**	1

Chapter ID [8538]

Notes:
- 2P and 3P versions are also available. Please contact our nearest branch office for further details
- Please refer next page for details on offerings for Solar applications

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

CZ Switch Disconnectors - For Solar/PV Application

- Designed for tough conditions at **solar sites**
- Separate versions for **800Vac** string inverter systems and upto **1500Vdc** for central inverter systems
- Suitable for Aluminum termination of double the size recommended by IEC standards
- **1250Vac** Rated Insulation Voltage
- **Direct termination** without the need of any extended links
- Terminal shrouds and phase barriers are provided as standard offering along with CZ AC Isolator

Versions: 800Vac I 1000Vdc I 1500Vdc



AC SD

- Operational Voltage upto 800Vac

800Vac, 3P Switch Disconnectors

Frame	Rating	Handle Type	Cat. No.	M.R.P. (₹) Per Unit
CZ1	125A	Direct	**CK907570000**	*
CZ1	160A	Direct	**CK907580000**	*
CZ1	200A	Direct	**CK907590000**	*
CZ1	250A	Direct	**CK907600000**	*
CZ1	315A	Direct	**CK907610000**	*
CZ2	315A	Direct	**CK908510000**	*

800Vac, 3P Switch Disconnectors

Frame	Rating	Handle Type	Cat. No.	M.R.P. (₹) Per Unit
CZ2	400A	Direct	**CK908520000**	*
CZ2	630A	Direct	**CK908530000**	*
CZ1	125A	Extended	**CK907630000**	*
CZ1	160A	Extended	**CK907640000**	*
CZ1	200A	Extended	**CK907650000**	*
CZ1	250A	Extended	**CK907660000**	*
CZ1	315A	Extended	**CK907670000**	*
CZ2	315A	Extended	**CK908540000**	*
CZ2	400A	Extended	**CK908550000**	*
CZ2	630A	Extended	**CK908560000**	*

Chapter ID [8536]



DC SD

- Operational Voltage 1000Vdc & 1500Vdc

DC Switch Disconnectors

Frame	Rating	Voltage	No. of Poles	Description	Cat. No.	M.R.P. (₹) Per Unit
CZ1	125A	1000Vdc	2	Direct Handle, Side operated	**CK907930000**	*
CZ1	160A	1000Vdc	2	Direct Handle, Side operated	**CK907940000**	*
CZ1	200A	1000Vdc	2	Direct Handle, Side operated	**CK907950000**	*
CZ1	250A	1000Vdc	2	Direct Handle, Side operated	**CK907960000**	*
CZ1	315A	1000Vdc	2	Direct Handle, Side operated	**CK907970000**	*
CZ2	315A	1000Vdc	2	Direct Handle, Side operated	**CK908690000**	*
CZ2	400A	1000Vdc	2	Direct Handle, Side operated	**CK908700000**	*
CZ2	630A	1000Vdc	2	Direct Handle, Side operated	**CK908710000**	*
CZ0	16A	1500 Vdc	4	Direct Handle, Center operated	**CK913140000**	*
CZ0	25A	1500 Vdc	4	Direct Handle, Center operated	**CK913150000**	*
CZ0	32A	1500 Vdc	4	Direct Handle, Center operated	**CK913160000**	*
CZ0	40A	1500 Vdc	4	Direct Handle, Center operated	**CK913170000**	*
CZ1	125A	1500Vdc	2	Direct Handle, Side operated	**CK907870000**	*
CZ1	160A	1500Vdc	2	Direct Handle, Side operated	**CK907880000**	*
CZ1	200A	1500Vdc	2	Direct Handle, Side operated	**CK907890000**	*
CZ1	250A	1500Vdc	2	Direct Handle, Side operated	**CK907900000**	*
CZ1	315A	1500Vdc	2	Direct Handle, Side operated	**CK907910000**	*
CZ2	315A	1500Vdc	3	Direct Handle, Side operated	**CK908660000**	*
CZ2	400A	1500Vdc	3	Direct Handle, Side operated	**CK908670000**	*
CZ2	630A	1500Vdc	3	Direct Handle, Side operated	**CK908680000**	*

Chapter ID [8536]

*Available on Request

DC Switch Disconnectors

Frame	Rating	Voltage	No. of Poles	Description	Cat. No.	M.R.P. (₹) Per Unit
CZ2	315A	1500Vdc	2	Direct Handle, Side operated	**CK911570000**	*
CZ2	400A	1500Vdc	2	Direct Handle, Side operated	**CK911580000**	*
CZ2	500A	1500Vdc	2	Direct Handle, Side operated	**CK911590000**	*
CZ2	630A	1500Vdc	2	Direct Handle, Side operated	**CK911600000**	*
CZ2	315A	1500Vdc	2	Direct Handle, Center operated	**CK911610000**	*
CZ2	400A	1500Vdc	2	Direct Handle, Center operated	**CK911620000**	*
CZ2	500A	1500Vdc	2	Direct Handle, Center operated	**CK911630000**	*
CZ2	630A	1500Vdc	2	Direct Handle, Center operated	**CK911640000**	*
CZ2	315A	1500Vdc	2	Extended Handle, Side operated	**CK911650000**	*
CZ2	400A	1500Vdc	2	Extended Handle, Side operated	**CK911660000**	*
CZ2	500A	1500Vdc	2	Extended Handle, Side operated	**CK911670000**	*
CZ2	630A	1500Vdc	2	Extended Handle, Side operated	**CK911680000**	*
CZ2	315A	1500Vdc	2	Extended Handle, Center operated	**CK911690000**	*
CZ2	400A	1500Vdc	2	Extended Handle, Center operated	**CK911700000**	*
CZ2	500A	1500Vdc	2	Extended Handle, Center operated	**CK911710000**	*
CZ2	630A	1500Vdc	2	Extended Handle, Center operated	**CK911720000**	*
CZ2	315A	1500Vdc	4	Direct Handle, Center operated	**CK911770000**	*
CZ2	400A	1500Vdc	4	Direct Handle, Center operated	**CK911780000**	*
CZ2	500A	1500Vdc	4	Direct Handle, Center operated	**CK911790000**	*
CZ2	630A	1500Vdc	4	Direct Handle, Center operated	**CK911800000**	*
CZ2	315A	1500Vdc	4	Extended Handle, Center operated	**CK911850000**	*
CZ2	400A	1500Vdc	4	Extended Handle, Center operated	**CK911860000**	*
CZ2	500A	1500Vdc	4	Extended Handle, Center operated	**CK911870000**	*
CZ2	630A	1500Vdc	4	Extended Handle, Center operated	**CK911880000**	*

Chapter ID [8536]

*Available on Request

Note: CZ1 & CZ2 DC will be without inbuild terminal shroud & same to be purchased separately as an accessory if required

Frame	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ2 DC 2P	Terminal Shroud	**CK501910000**	**1000**	1
CZ2 DC 4P	Terminal Shroud	**CK500720000**	**1100**	1
CZ1 DC 2P	Terminal Shroud	**CK500600000**	**700**	1

Chapter ID [8538]

gPV Fuses [8536]

Features offered by Photovoltaic Fuse, gPV

- Conforms to IEC 60269-6
- Range: 2A to 32A, 1000V, DC
- Range: 2A to 32A, 1500V, DC
- High breaking capacity: 20kA

Cylindrical fuse links Type gPV 1000Vdc



gPV Fuse

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
10 X 38	2	1000Vdc Fuse size 10 x 38 Suitable for Fuse holder PV10DC1038FH	PV10DC103802	145	12
	3		PV10DC103803	145	12
	4		PV10DC103804	145	12
	5		PV10DC103805	145	12
	6		PV10DC103806	145	12
	8		PV10DC103808	145	12
	10		PV10DC103810	145	12
	12		PV10DC103812	145	12
	15		PV10DC103815	255	12
	16		PV10DC103816	255	12
	20		PV10DC103820	255	12
	25		PV10DC103825	345	12
	30		PV10DC103830	370	12
	32		PV10DC103832	370	12

Cylindrical fuse links Type gPV 1500Vdc



gPV Fuse

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
10 X 85	2	1000Vdc Fuse size 10 x 38 Suitable for Fuse holder PV10DC1038FH	PV15DC108502	430	6
	4		PV15DC108504	430	6
	6		PV15DC108506	430	6
	8		PV15DC108508	430	6
	10		PV15DC108510	430	6
	15		PV15DC108515	430	6
	16		PV15DC108516	430	6
	20		PV15DC108520	570	6
	25		PV15DC108525	570	6
	30		PV15DC108530	715	6
	32		PV15DC108532	715	6

Cylindrical fuse links + fuse holder Type gPV 1000Vdc



Fuse + Fuse Holder 1000V DC

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
10 X 38	20	Fuse + Fuse holder	PV10DC103820A	500	6
	25		PV10DC103825A	500	6
	30		PV10DC103830A	520	6
	32		PV10DC103832A	570	6

Cylindrical fuse links + fuse holder Type gPV 1500Vdc



Fuse + Fuse Holder 1500V DC

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
10 X 85	20	Fuse + Fuse holder	PV15DC108520A	1140	6
	25		PV15DC108525A	1140	6
	30		PV15DC108530A	1430	6
	32		PV15DC108532A	1430	6

Switch-Disconnector Units [8536]

Type FN & C-Line Switch Disconnector (2P/TPN/4P)


FN 2P S-D


FN TPN S-D

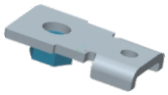
Features offered by S-D
- Range 32A to 2000A, 415V, AC 23A
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Door interlock & padlock facility
- **Telescopic shaft for depth adjustment**
- Flip-able handle 1000A and above

Size	Rated Current (A)	Open Execution 2P S-D			Std. Pkg. (Nos.)	Open Execution TPN S-D*			Std. Pkg. (Nos.)
		Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	FN 32 2P	**SK904180OOO**	**3100**	1	FN 32 TPN / 4P	**SK955410OOO**	**3700**	1
	63	FN 63 2P	**SK904190OOO**	**3560**	1	FN 63 TPN / 4P	**SK955400OOO**	**4420**	1
Fr 2	100	FN 100 2P	**SK904200OOO**	**6410**	1	FN 100 TPN	**SK955710OOO**	**7970**	1
	125	FN 125 2P	**SK904210OOO**	**8030**	1	FN 125 TPN	**SK954050OOO**	**10000**	1
Fr 3	200	FN 200 2P	**SK904500OOO**	**13200**	1	FN 200 TPN	**SK956070OOO**	**15600**	1
	250	FN 250 2P	**SK904540OOO**	**14700**	1	FN 250 TPN	**SK956830OOO**	**17900**	1
Fr 4	315	FN 315 2P	**SK904650OOO**	**19900**	1	FN 315 TPN	**SK956090OOO**	**21700**	1
	400	FN 400 2P	**SK904660OOO**	**21000**	1	FN 400 TPN	**SK956100OOO**	**25100**	1
Fr 5	630	FN 630 2P	**SK904670OOO**	**33600**	1	FN 630 TPN	**SK956110OOO**	**39500**	1
	800	FN 800 2P	**SK904680OOO**	**36100**	1	FN 800 TPN	**SK955510OOO**	**42400**	1
	1000	FN 1000 2P	**SK904690OOO**	**46500**	1	FN 1000 TPN	**SK957100OOO**	**65300**	1
Fr 6	1000	-	-	-	-	C-Line SD 1000 4P$	**COS10000O4O**	**79500**	1
	1250	-	-	-	-	C-Line SD 1250 4P$	**COS12500O4O**	**99100**	1
	1600	-	-	-	-	C-Line SD 1600 4P$	**COS16000O4O**	**126000**	1
	2000	-	-	-	-	C-Line SD 2000 4P$	**COS20000O4O**	**165200**	1

$ For C-Line SD 3P (1000A to 2000A), please contact nearest branch office
* For Switched Neutral Pole in FN TPN S-D, order Switched Neutral Kit separately. Refer 'Spares & Accessories for type FN' table
* FN SDF and FN SD models are supplied without terminal shrouds

Spares & Accessories for type FN [8538]


Handle Assembly


Earthing Link

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1NO + 1 NC)	FN 32 / 63	**SK91302**	**840**	1
	FN 100 / 125 / 160	**SK91328**	**1020**	1
	FN 200 / 250	**SK91329**	**1370**	1
	FN 315 / 400 / 630	**SK91330**	**1430**	1
	FN 800/630[(1)]	**CK91034#**	**1430**	1
2nd Aux. Contact (1NO + 1NC)	FN 32 / 63	**SK90670**	**910**	1
	FN 100 to FN 1000	**SK90696**	**1050**	1
Earthing Link	FN 32 to FN 1000@	**CK90396**	**840**	1
Handle Assembly - A	FN 32 / 63	**SK91257**	**800**	1
	FN 100 to FN 250	**SK91258**	**1700**	1
	FN 315 / 400 / 630 / 800	**SK91259#**	**1880**	1
Handle Assembly - B	FN 32 / 63	**SK91277**	**800**	1
	FN 100 to FN 250	**SK91278**	**1700**	1
	FN 315 / 400 / 630 / 800	**SK91279#**	**1880**	1
Handle Assembly - CE	FN 32 / 63	**SK91337**	**470**	1
Interphase Barrier Kit	FN 200	**SK91343**	**720**	
	FN 315 / 400	**SK91344**	**760**	1
	FN 630 / 800	**SK91345#**	**780**	


Switched Neutral Kit


Auxiliary Contact Kit


Castell Type Lock

Description	Type		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Castell Type Lock$	FN 100 / 125 / 160 / 200 / 250	A	**SK00333**	**4010**	1
		B	**SK00334**	**4010**	1
		C	**SK00335**	**4010**	1
		D	**SK00336**	**4010**	1
	FN 315 / 400 / 630 / 800	A	**SK00345#**	**4010**	1
		B	**SK00346#**	**4010**	1
		C	**SK00347#**	**4010**	1
		D	**SK00348#**	**4010**	1
Switched Neutral Kit	FN 100 / 125 / 160		**SK95233**	**7710**	1
	FN 200 / 250		**SK95516**	**8210**	1
	FN 315 / 400		**SK95517**	**8870**	1
	FN 630 / 800		**SK95546#**	**12290**	1

@For terminating earth busbar upto 25mm width. Order Qty 1 for 10 earthing links
[(1)]FN 630 units manufactured from Dec-2025: Use Auxiliary Contact CK91034.
FN 630 units manufactured before Dec-2025: Use Auxiliary Contact Sk91330.

Fuse pulling handle [8538]


For Type HN fuse-link


For Type HF fuse-link

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse pulling handle for HF Fuse-link from 2A-63A	**SK91185**	**340**	1
Insulated fuse pulling handle for Type HN fuse-link from 63A-800A	**SF90126**	**1170**	1

Spares & Accessories for type COS Switch-Disconnector [8538]

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1 sets of C/O contact)	**CXS6002**	**1410**	1
Operating Handle	**CXS6001**	**3020**	1
Castell Type Lock$	**CX60004**	**4010**	1

$ Chapter ID [8301] # Also suitable for Switch-Disconnector FN 1000

Notes: 1) Add suffix "OOOO" to all cat nos. of Spares and Accessories.

Type TPN S-D-F suitable for DIN fuse-link (TPN & FP) in open execution

Features offered by FN S-D-F

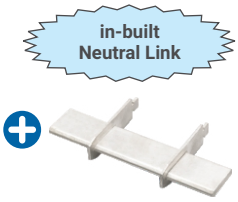
- Range 32A to 800A, 415V, **AC 23A**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Phase Barriers included**
- **Telescopic shaft for depth adjustment**
- **TPN SDF has isolable neutral**
- **4P SDF has Switched Neutral Pole and is 100% rated**
- Door interlock & padlock facility



FN - TPN S-D-F
(Open Execution)



FN - 4P S-D-F
(Open Execution)

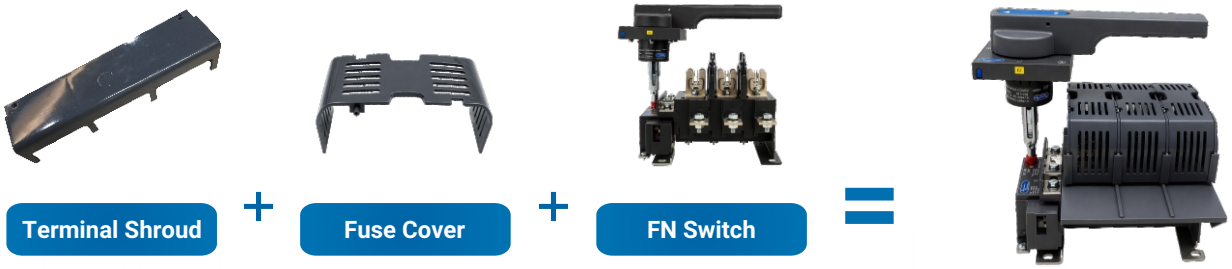


Size	Rated Current (A)	Suitable HRC fuse-link		Open Execution Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)	Open Execution Type FN S-D-F suitable for DIN fuse-link (4P)			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FN 32 TPN / FP	**SK95518**	**3740**	1	FN 32 TPN/FP	**SK95518**	**3740**	1
	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	**SK95703***	**3390**	1	FN 32 TPN/FP CE*	**SK95703***	**3390**	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP	**SK95421**	**4930**	1	FN 63 TPN/FP	**SK95421**	**4930**	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	**SK95704***	**4600**	1	FN 63 TPN/FP CE*	**SK95704***	**4600**	1
Fr 2	New 100	HN Size 000	63 to 100	FN 100C TPN	**CK91079**	**7100**	1	-	-	-	-
	100	HN Size 000/00	63 to 100	FN 100 TPN	**SK95568**	**9350**	1	FN 100 FP	**SK90496**	**10700**	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	**SK95001**	**12400**	1	FN 125 FP	**SK90497**	**13300**	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	**SK95713**	**13300**	1	FN 160 FP	**SK90498**	**15000**	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	**SK95418**	**18100**	1	FN 200 FP	**SK90471**	**21400**	1
	250	HN Size 1	125 to 250	FN 250 TPN	**SK95642**	**20500**	1	FN 250 FP	**SK90472**	**24300**	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	**SK95461**	**25600**	1	FN 315 FP	**SK90473**	**29400**	1
	400	HN Size 2	200 to 400	FN 400 TPN	**SK95481**	**30700**	1	FN 400 FP	**SK90480**	**33400**	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	**SK95521**	**52500**	1	FN 630 FP	**SK90481**	**56200**	1
	800	HN Size 3	315 to 800	FN 800 TPN	**SK95679**	**92300**	1	FN 800 FP	**SK90482**	**109400**	1

* 'CE' handle has door interlock facility without defeat feature
* FN SDF and FN SD models are supplied without terminal shrouds

FN S-D-F With Fuse Cover [8537]

New



Spares & Accessories for type FN [8538]

New

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse Cover Kit for 3P/TPN	FN 32/63	**CK91321**	**250**	1
	FN 100/125/160	**CK91322**	**750**	1
	FN 200/250	**CK91323**	**1000**	1
	FN 315/400	**CK91324**	**1125**	1
	FN 630/800	**CK91325**	**1250**	1
Terminal Shroud Kit 3P/TPN	FN 32/63	**SK91190**	**290**	1
	FN 100/125/160	**SK91137**	**360**	1
	FN 200/250	**SK91335**	**1030**	1
	FN 315/400	**SK91346**	**1050**	1
	FN 630/800	**SK91347**	**1110**	1

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse Cover Kit for 4P	FN 100/125/160	**CK91326**	**575**	1
	FN 200/250	**CK91327**	**1080**	1
	FN 315/400	**CK91328**	**1210**	1
	FN 630/800	**CK91329**	**1355**	1
Terminal Shroud Kit 4P	FN 100/125/160	**CK91334**	**400**	1
	FN 200/250	**CK91335**	**1060**	1
	FN 315/400	**CK91336**	**1100**	1
	FN 630/800	**CK91337**	**1200**	1

Features offered by HRC fuse link

- Conforms to IEC 60269-2, IS 13703 part 2
- Range: 2A to 800A, 415V, AC 50Hz
- Type: Cylindrical (2A to 63A), DIN (63A to 800A) & Bolted (2A to 630A)
- High breaking capacity: 100kA for type HN and 80kA for type HF/HG/HQ

HF



Cylindrical fuse links Type HF

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
New 10 X 38	2	Suitable for Type for Fuse Holder 10 x 38 -SF93868	SF93802	110	12
	4		SF93804	110	12
	6		SF93806	110	12
	10		SF93810	110	12
	16		SF93816	110	12
	20		SF93820	110	12
	25		SF93825	110	12
14 X 51	2	Suitable for Type FN 32 / 63 / FNX 32 / 63 S-D-F & for HCO 32 Fuse base	SF90144	245	30
	4		SF90145	245	30
	6		SF90146	245	30
	8		SF90147	245	30
	10		SF90148	245	30
	16		SF90150	245	30
	20		SF90151	245	30
	25		SF90152	245	30
	32		SF90142	245	30
	40	Suitable for Type FN 63 / FNX 63 S-D-F & for HC 63 Fuse base	SF90143	260	30
	50		SF90158	570	30
	63		SF90159	615	30

DIN Type Fuse Links Type HN

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
000 	000	63	Suitable for Type FN 100/125/160 / FNX 100/125/160 S-D-F & for HB 160 Fuse base	SF94940	650	3
		80		SF94941	685	3
		100		SF94942	695	3
		125		SF94946	810	3
00 	00	63	Suitable for Type FN 100/125/160 / FNX 125/160 S-D-F & for HB 160 Fuse base	SF94027	855	3
		80		SF94028	855	3
		100		SF94029	855	3
		125		SF94030	865	3
		160		SF94939	885	3
0 	0	80	Suitable for Type FN 200 / FNX 200 S-D-F & for HB 250 Fuse base	SF94128	1120	3
		100		SF94129	1160	3
		125		SF94130	1160	3
		160		SF94131	1170	3
		200		SF94132	1210	3
1 	1	125	Suitable for Type FN 250/315 / FNX 250/315 S-D-F & for HB 250 Fuse base	SF94230	1130	3
		160		SF94231	1210	3
		200		SF94232	1210	3
		250		SF94233	1360	3
		315		SF94234	1730	3
2 	2	200	Suitable for Type FN 400 / FNX 400 S-D-F & for HB 800 Fuse base	SF94332	1720	3
		250		SF94333	1760	3
		315		SF94334	1810	3
		400		SF94335	1840	3
3 	3	315	Suitable for Type FN 630/800 / FNX 630/800 S-D-F & for HB 800 Fuse base	SF94434	2550	1
		400		SF94435	2700	1
		500		SF94436	2780	1
		630		SF94437	2930	1
		800		SF94938	3620	1

Fuse holders & Fuse bases suitable for Cylindrical / DIN fuse-links



HCM HB HC

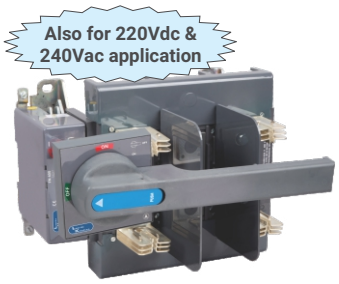
Rated Current (A)	Type	Description	Suitable fuse-link		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
			Type	Range (A)			
New 32	HCM 32	Fuse holder	HF(10x38)	2-25	SF93868	400	12
32	HCO 32	Fuse holder	HF(14x51)	2-32	SK91314	455	10
63	HC 63	Fuse holder	HF(14x51)	2-63	SK91043	520	10
160	HB 160	Fuse base	HN-Size 000 & 00	63-160	SK90405	695	12
250	HB 250	Fuse base	HN-Size 0 & 1	80-250	SK90406	1470	3
400	HB 400	Fuse base	HN-Size 2	200-400	SK90717	2040	3
800	HB 800	Fuse base	HN-Size 3	315-800	SK91051	2970	3

Notes : 1) Add suffix "OOOO" to all cat nos.

Type FN S-D-F suitable for DIN fuse-link (2P) in open execution

Features offered by FN S-D-F

- Range 32A to 630A, 415V, **AC 23A**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Phase Barriers included**
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility



FN 2P S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (2P) S-D-F suitable for DIN fuse-link			
			Open Execution			
			Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg (Nos.)
Fr 1	32	HF Size 14x51	FN 32 2P	**SK95594**	**3210**	1
	63	HF Size 14x51	FN 63 2P	**SK95595**	**4280**	1
Fr 2	100	HN Size 000/00	FN 100 2P	**ST35086**	**7360**	1
	125	HN Size 000/00	FN 125 2P	**ST35087**	**10900**	1
	160	HN Size 000/00	FN 160 2P	**ST35088**	**11400**	1
Fr 3	200	HN Size 0	FN 200 2P	**ST35089**	**14900**	1
	250	HN Size 1	FN 250 2P	**ST31674**	**17200**	1
Fr 4	315	HN Size 1	FN 315 2P	**ST38930**	**21300**	1
	400	HN Size 2	FN 400 2P	**ST31676**	**24000**	1
Fr 5	630	HN Size 3	FN 630 2P	**ST35090**	**41400**	1

Type FN S-D-F suitable for BS fuse-link (TPN) in open execution

For BOLTED fuse-link

Features offered by FN S-D-F

- Range 32A to 630A, 415V, **AC 23A**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Phase Barriers included**
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility



FN - TPN S-D-F

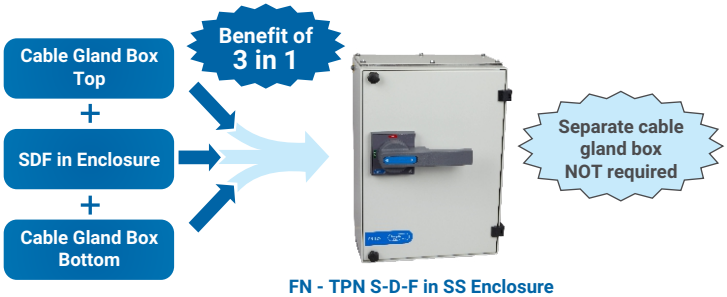
Size	Rated Current (A)	Suitable fuse-link type	Type FN (2P) S-D-F suitable for DIN fuse-link			
			Open Execution			
			Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg (Nos.)
Fr 1	32	A1L	FN 32 TPN	**SK95653**	**3610**	1
	63	A1L	FN 63 TPN	**SK95651**	**4880**	1
Fr 2	100	A4	FN 100 TPN	**SK95570**	**9340**	1
	125	A4	FN 125 TPN	**SK95009**	**11900**	1
	160	A4	FN 160 TPN	**SK95714**	**12900**	1
Fr 3	200	B1 / B2	FN 200 TPN	**SK95588**	**17200**	1
	250	B2 / B3	FN 250 TPN	**SK95682**	**20200**	1
Fr 4	315	B3	FN 315 TPN	**SK95590**	**25100**	1
	400	B4	FN 400 TPN	**SK95591**	**30400**	1
Fr 5	630	C2	FN 630 TPN	**SK95592**	**52300**	1

* Add suffix "OOOO" to all cat nos.
* FN SDF and FN SD models are supplied without terminal shrouds

FN- TPN S-D-F in SS Enclosure

Features offered by FN S-D-F in SS Enclosure:

- Range 32A to 800A, 415V, **AC 23A**
- Spacious Sheet Steel Enclosure
- **Separate cable gland box not required**
- **Phase Barriers included**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Suitable for Cylindrical/DIN fuse-link
- Door interlock & padlock facility



FN - TPN S-D-F in SS Enclosure

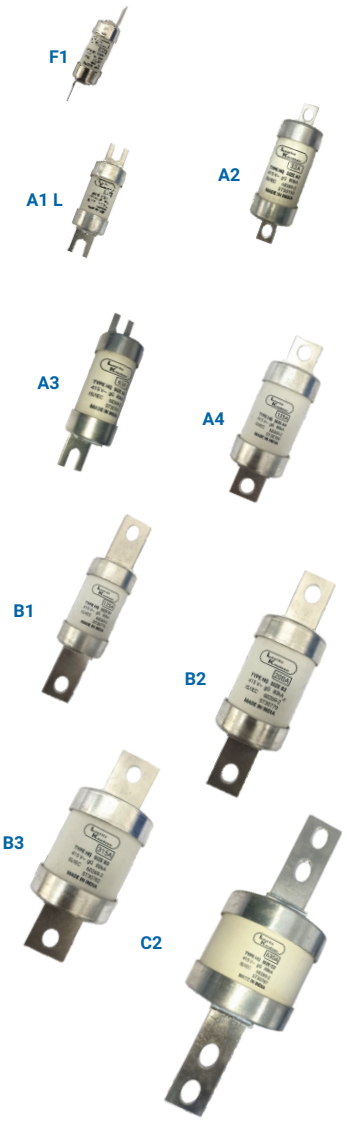
Size	Rated Current (A)	Suitable HRC fuse-link		In Sheet Steel Enclosure Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	**SK90483***	**8640**	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	**SK90484***	**10300**	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	**SK90485**	**16700**	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	**SK90486**	**18900**	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	**SK90487**	**19800**	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	**SK90488**	**28600**	1
	250	HN Size 1	125 to 250	FN 250 TPN	**SK90489**	**31500**	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	**SK90490**	**36500**	1
	400	HN Size 2	200 to 400	FN 400 TPN	**SK90491**	**41100**	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	**SK90492**	**64200**	1
	800	HN Size 3	315 to 800	FN 800 TPN	**SK90493**	**116800**	1

* 'CE' handle has door interlock facility without defeat feature

Notes:

1) Type FN S-D-F range (Bolted fuse-link) suitable for harsh environment is also available. Please contact nearest branch office for further details
2) For 690V AC application, please contact nearest branch office
3) The prices for S-D-F range are without HRC fuses
4) The SDF units in SS enclosure version can be replaced with FN TPN SDF open execution units. Please refer point 5 for replacement of 250A unit
5) For replacement of FN 250 SDF unit in sheet steel enclosure version (Cat. No. SK90489OOOO & SK95681OOOO), order Cat. No. ST97895OOOO
6) Please refer Page 36 for Switch-Disconnectors
7) Add suffix "OOOO" to all cat nos.
8) FN SDF and FN SD models are supplied without terminal shrouds

Bolted fuse links: Type HG and HQ

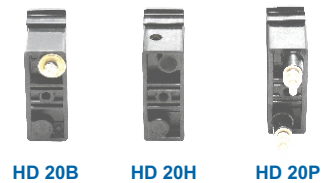


Type	Fixing Method	Size	Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HG	Offset, staggered	F1	2	Suitable for type HD 20H/20P/20B, HD 32H/32P/32B fuse base	**ST30725**	**100**	24
			4		**ST30726**	**100**	24
			6		**ST30727**	**100**	24
			10		**ST30728**	**100**	24
			16		**ST30729**	**110**	24
			20		**ST30730**	**110**	24
			25		**ST30731**	**110**	24
			32		**ST30732**	**110**	24
HQ	Offset	A1L	20	Suitable for type FN 32/63 S-D-F	**ST34527**	**200**	15
			25		**ST34528**	**200**	15
			32		**ST34529**	**200**	15
			50		**ST35827**	**245**	15
			63		**ST35828**	**245**	15
		A2	4	Suitable for type HK 32H/32B fuse base	**ST30747**	**170**	12
			6		**ST30748**	**170**	12
			10		**ST30749**	**170**	12
			16		**ST30750**	**170**	12
			20		**ST30751**	**170**	12
			25		**ST30752**	**170**	12
			32		**ST30753**	**170**	12
		A3	35	Suitable for type HK 63B/63H Fuse base	**ST30759**	**260**	12
			50		**ST30760**	**280**	12
			63		**ST30761**	**290**	12
		A4	80	Suitable for type FN 100/125/160 S-D-F & for HK 125H/125B Fuse base	**ST30767**	**560**	12
			100		**ST30768**	**560**	12
			125		**ST30769**	**625**	12
			160		**ST35829**	**715**	12
	Centre Tag, 2 holes	B1	80	Suitable for type FN 200 S-D-F	**ST30774**	**625**	12
			100		**ST30775**	**625**	12
			125		**ST30776**	**740**	12
		B2	125	Suitable for type FN 200/250 S-D-F	**ST30777**	**760**	3
			160		**ST30778**	**785**	3
			200		**ST30779**	**850**	3
		B3	250	Suitable for type FN 250/315 S-D-F	**ST30781**	**1240**	3
			315		**ST30782**	**1310**	3
		B4	355	Suitable for type FN 400 S-D-F	**ST30783**	**1840**	3
			400		**ST30784**	**1890**	3
	Centre Tag, 4 holes	C2	400	Suitable for type FN 630 S-D-F	**ST30785**	**3570**	1
			500		**ST30786**	**3770**	1
			630		**ST30787**	**4310**	1

Fuse holders suitable for Bolted fuse-links

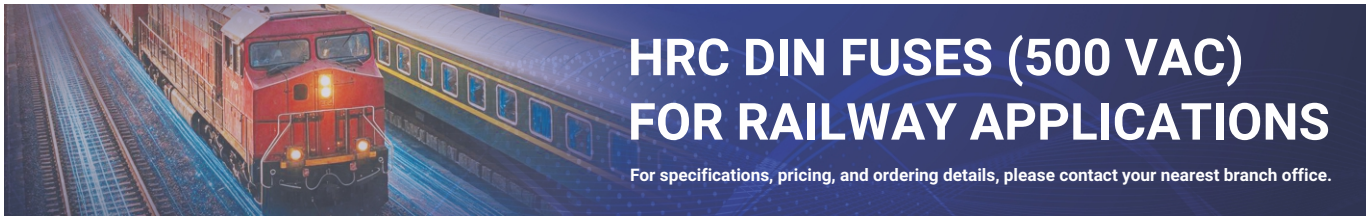


Rear View



Rated Current (A)	Type	Connection Method	Fuse Type	Suitable Fuse Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
20	HD 20H	Both side cable (Front)	F1	2-20	**ST30772**	**365**	12
	HD 20P	Both side busbar (Back)	F1	2-20	**ST30773**	**380**	12
	HD 20B	Top busbar & bottom cable	F1	2-20	**ST30766**	**380**	12
32	HD 32H	Both side cable (Front)	F1	2-32	**ST30733**	**390**	12
	HD 32P	Both side busbar (Back)	F1	2-32	**ST30734**	**390**	12
	HD 32B	Top busbar & bottom cable	F1	2-32	**ST30735**	**400**	12
	HK 32H	Both side cable (Front)	A2	4-32	**ST30754**	**485**	12
	HK 32B	Top busbar & bottom cable	A2	4-32	**ST30755**	**485**	12
63	HK 63H	Both side cable (Front)	A3	35-63	**ST30762**	**690**	6
	HK 63B	Top busbar & bottom cable	A3	35-63	**ST30763**	**690**	6
125	HK 125H	Both side cable (Front)	A4	80-125	**ST30770**	**1910**	3
	HK 125B	Top busbar & bottom cable	A4	80-125	**ST30771**	**1910**	3

Notes: 1) Add suffix "0000" to all cat nos.



FEATURES TO MEET EVERY APPLICATION

Contact System
- **Double Break** with **low let-through energy**
- High Breaking Capacity up to **200kA @ 415V AC**
- **100kA @690V AC** at 100% Ics
- **50kA @ 800V AC** offering for Solar PV String inverters
- **1000V/1500V PV DC Offering**

Thermal - Magnetic Release
- **Extended Overload Setting of 67%**
- **16A to 800A Offering**
- **Ambient Temperature Compensation**
- Suitable for wide temperature range

Mechanism
- **Class II Front Facia**
- Double Insulation
- Positive Isolation
- **High Electrical and Mechanical Life**



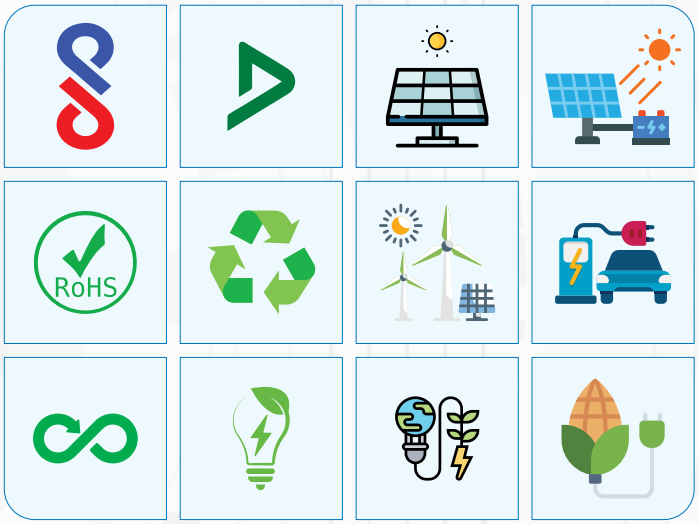
Microprocessor Release
- **Extended Overload Setting of 25%**
- **Individual Fault Indication** LEDs
- Battery Operated **In-built Display**
- **Advanced** Metering and Protection
- **Motor Protection Variant with effective Type 2 Coordination**

Modular Architecture
- **Compact Size**
- Late Personalization
- Interchangeability of Releases
- **Reduced Inventory** for internal accessories

Modules
- **Temperature Monitoring** & Protection
- **Zone Selective Interlocking** for effective Selectivity
- **Communication Module** for metering & control
- Remote Operation for **Motorized MCCB**
- Breaker Status, Alarm & Trip with Records

FUTURE READY FOR COMPLIANCE AND NEW APPLICATIONS





RESILIENT FOR BETTER SAFETY AND MAINTENANCE

Inventory & Application friendly Internal Accessories


Aux/TAC


Shunt


UVR

Robust Rotary & Electrically Operated Mechanisms


Direct ROM


Extended ROM


EOM



Reduced Downtime with Plug-in & Drawout Modules


Plug-in


Draw-out

Shrouds for increased personnel safety


Short Shroud


Long Shroud

Multiple options for Mechanical Interlocking


Front Slider


Cable Base Plate


Rear Base Plate

Versatile Range of Terminations


Direct Termination


Box Clamp Termination


Spreader Termination

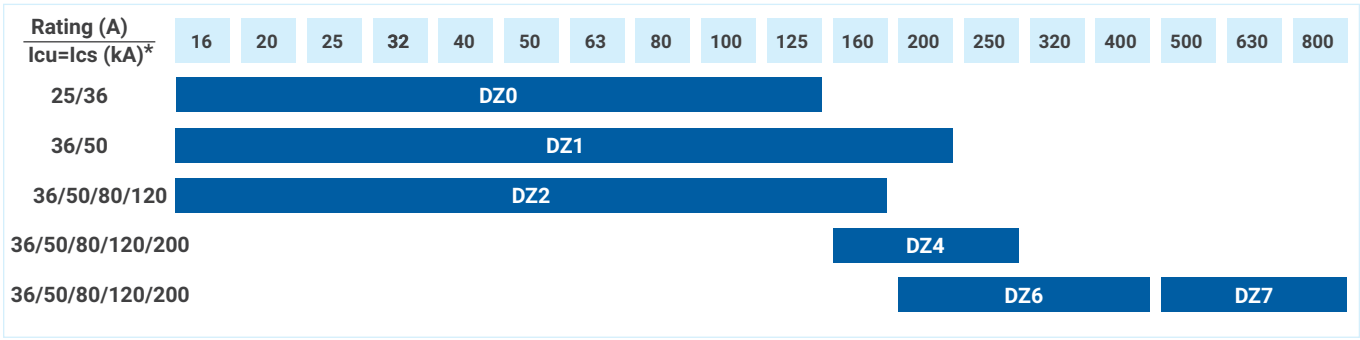

Rear Termination

CONNECTED TO DRIVE ENERGY EFFICIENCY



- Data Analytics
- Trend Analysis
- Real Time Monitoring
- Status & Control
- Metering & Protection
- Data Acquisition

DZ With Thermal - Magnetic Release





dsine-DZ0 TM

- Conforms to IS/IEC 60947-2
- 16A to 125A, 3P & 4P
- 25kA & 36kA breaking capacities
- Ics= 100% of Icu*
- Adjustable overload settings: 0.8 - 1.0 x In
- Fixed short-circuit settings: 10 x In
- Compact size
- Manual and Rotary versions available
- Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ0-125D*	13-16	36kA	DZ0T0016D5C1AOOOO	12400	DZ0F0016D5C1AOOOO	17400	1
	16-20		DZ0T0020D5C1AOOOO	12400	DZ0F0020D5C1AOOOO	17400	1
	20-25		DZ0T0025D5C1AOOOO	12400	DZ0F0025D5C1AOOOO	17400	1
	26-32		DZ0T0032D5C1AOOOO	12400	DZ0F0032D5C1AOOOO	17400	1
	32-40		DZ0T0040D5C1AOOOO	12400	DZ0F0040D5C1AOOOO	17400	1
	40-50		DZ0T0050D5C1AOOOO	12400	DZ0F0050D5C1AOOOO	17400	1
	50-63		DZ0T0063D5C1AOOOO	12100	DZ0F0063D5C1AOOOO	16800	1
	64-80		DZ0T0080D5C1AOOOO	12100	DZ0F0080D5C1AOOOO	16800	1
	80-100		DZ0T0100D5C1AOOOO	12100	DZ0F0100D5C1AOOOO	16800	1
	100-125		DZ0T0125D5C1AOOOO▲	15700	DZ0F0125D5C1AOOOO▲	21000	1
DZ0-125C	13-16	25kA	DZ0T0016CXC1AOOOO	12900	DZ0F0016CXC1AOOOO	18000	1
	16-20		DZ0T0020CXC1AOOOO	12900	DZ0F0020CXC1AOOOO	18000	1
	20-25		DZ0T0025CXC1AOOOO	12900	DZ0F0025CXC1AOOOO	18000	1
	26-32		DZ0T0032CXC1AOOOO	12900	DZ0F0032CXC1AOOOO	18000	1
	32-40		DZ0T0040CXC1AOOOO	12900	DZ0F0040CXC1AOOOO	18000	1
	40-50		DZ0T0050CXC1AOOOO	12900	DZ0F0050CXC1AOOOO	18000	1
	50-63		DZ0T0063CXC1AOOOO	12400	DZ0F0063CXC1AOOOO	17500	1
	64-80		DZ0T0080CXC1AOOOO	12400	DZ0F0080CXC1AOOOO	17500	1
	80-100		DZ0T0100CXC1AOOOO	12400	DZ0F0100CXC1AOOOO	17500	1
	100-125		DZ0T0125CXC1AOOOO▲	17300	DZ0F0125CXC1AOOOO▲	21800	1

▲- Spreader Terminals are included

Note:

Breaking Capacity: C = 25kA, D = 36kA

*DZ0-125D : Ics= 50% Icu

Phase barriers are supplied with all MCCBs

d sine DZ With Thermal - Magnetic Release



dsine-DZ1 TM

- Conforms to IS/IEC 60947-2
- 16A to 800A, 3P & 4P
- 36kA, 50kA, 80kA,120kA & 200kA breaking capacities
- Ics= 100% of Icu
- Adjustable overload settings: 0.67 - 1.0 x In
- Adjustable short-circuit settings: 6 - 12 x In*
- Transparent sealable release cover
- Ambient Temperature Compensation
- Compact size
- Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D/ DZ1-200D	11-16	36kA	DZ1T0016DXC1AOOOO	22200	DZ1F0016DXC1AOOOO	27600	1
	14-20		DZ1T0020DXC1AOOOO	22200	DZ1F0020DXC1AOOOO	27600	1
	17-25		DZ1T0025DXC1AOOOO	22200	DZ1F0025DXC1AOOOO	27600	1
	22-32		DZ1T0032DXC1AOOOO	22200	DZ1F0032DXC1AOOOO	27600	1
	27-40		DZ1T0040DXC1AOOOO	22200	DZ1F0040DXC1AOOOO	27600	1
	34-50		DZ1T0050DXC1AOOOO	22200	DZ1F0050DXC1AOOOO	27600	1
	43-63		DZ1T0063DXD1AOOOO	21500	DZ1F0063DXD1AOOOO	26600	1
	54-80		DZ1T0080DXD1AOOOO	21500	DZ1F0080DXD1AOOOO	26600	1
	67-100		DZ1T0100DXD1AOOOO	21500	DZ1F0100DXD1AOOOO	26600	1
	84-125		DZ1T0125DXD1AOOOO	24200	DZ1F0125DXD1AOOOO	29800	1
	108-160		DZ1T0160DXD1AOOOO	31700	DZ1F0160DXD1AOOOO	37700	1
	134-200		DZ1T0200DXD1AOOOO▲	48000	DZ1F0200DXD1AOOOO▲	57600	1
DZ2-160D	11-16		DZ2T0016DXC1AOOOO	22600	DZ2F0016DXC1AOOOO	28200	1
	14-20		DZ2T0020DXC1AOOOO	22600	DZ2F0020DXC1AOOOO	28200	1
	17-25		DZ2T0025DXC1AOOOO	22600	DZ2F0025DXC1AOOOO	28200	1
	22-32		DZ2T0032DXC1AOOOO	22600	DZ2F0032DXC1AOOOO	28200	1
	27-40		DZ2T0040DXC1AOOOO	22600	DZ2F0040DXC1AOOOO	28200	1
	34-50		DZ2T0050DXC1AOOOO	22600	DZ2F0050DXC1AOOOO	28200	1
	43-63		DZ2T0063DXD1AOOOO	21800	DZ2F0063DXD1AOOOO	27300	1
	54-80		DZ2T0080DXD1AOOOO	21800	DZ2F0080DXD1AOOOO	27300	1
	67-100		DZ2T0100DXD1AOOOO	21800	DZ2F0100DXD1AOOOO	27300	1
	84-125		DZ2T0125DXD1AOOOO	24500	DZ2F0125DXD1AOOOO	30400	1
	108-160		DZ2T0160DXD1AOOOO	32100	DZ2F0160DXD1AOOOO	38300	1
DZ4-250D	108-160		DZ4T0160DXD1AOOOO	40600	DZ4F0160DXD1AOOOO	50000	1
	134-200		DZ4T0200DXD1AOOOO	46500	DZ4F0200DXD1AOOOO	55900	1
	168-250		DZ4T0250DXD1AOOOO	49000	DZ4F0250DXD1AOOOO	59000	1
DZ6-400D	134-200		DZ6T0200DXD1AOOOO	60500	DZ6F0200DXD1AOOOO	73900	1
	168-250		DZ6T0250DXD1AOOOO	64900	DZ6F0250DXD1AOOOO	79300	1
	215-320		DZ6T0320DXD1AOOOO	67200	DZ6F0320DXD1AOOOO	81900	1
	268-400		DZ6T0400DXD1AOOOO	67200	DZ6F0400DXD1AOOOO	81900	1
DZ7-800D	335-500		DZ7T0500DXD1AOOOO	76800	DZ7F0500DXD1AOOOO	96800	1
	422-630		DZ7T0630DXD1AOOOO	76800	DZ7F0630DXD1AOOOO	96800	1
	536-800		DZ7T0800DXD1AOOOO	107000	DZ7F0800DXD1AOOOO	136200	1

▲- Spreader Terminals are included

Note:
Breaking Capacity: D = 36kA, N = 50kA, H = 80kA
dsine DZ-120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.
It is recommended to use spreader terminals for enhancing termination capacity
For Motor back-up protection, use 'M' series of MCCBs such as DZ0-N, DZ1-N, DZ4-N, DZ6-N, DZ7-N
* For DZ1 & DZ2 - 16A to 50A, Fixed Magnetic setting (375A)
For DZ7 630A / 800A, Magnetic setting from 6 In to 10 In / 6 In to 8 In respectively

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P.(₹) Per Unit	Cat No	M.R.P.(₹) Per Unit	
DZ1-160N/ DZ1-200N	11-16	50kA	DZ1T0016NXC1AOOOO	26200	DZ1F0016NXC1AOOOO	31500	1
	14-20		DZ1T0020NXC1AOOOO	26200	DZ1F0020NXC1AOOOO	31500	1
	17-25		DZ1T0025NXC1AOOOO	26200	DZ1F0025NXC1AOOOO	31500	1
	22-32		DZ1T0032NXC1AOOOO	26200	DZ1F0032NXC1AOOOO	31500	1
	27-40		DZ1T0040NXC1AOOOO	26200	DZ1F0040NXC1AOOOO	31500	1
	34-50		DZ1T0050NXC1AOOOO	26200	DZ1F0050NXC1AOOOO	31500	1
	43-63		DZ1T0063NXD1AOOOO	25400	DZ1F0063NXD1AOOOO	30600	1
	54-80		DZ1T0080NXD1AOOOO	25400	DZ1F0080NXD1AOOOO	30600	1
	67-100		DZ1T0100NXD1AOOOO	25400	DZ1F0100NXD1AOOOO	30600	1
	84-125		DZ1T0125NXD1AOOOO	33500	DZ1F0125NXD1AOOOO	37000	1
	108-160		DZ1T0160NXD1AOOOO	36400	DZ1F0160NXD1AOOOO	43500	1
	134-200		DZ1T0200NXD1AOOOO▲	53500	DZ1F0200NXD1AOOOO▲	67100	1
DZ2-160N	11-16		DZ2T0016NXC1AOOOO	30300	DZ2F0016NXC1AOOOO	36300	1
	14-20		DZ2T0020NXC1AOOOO	30300	DZ2F0020NXC1AOOOO	36300	1
	17-25		DZ2T0025NXC1AOOOO	30300	DZ2F0025NXC1AOOOO	36300	1
	22-32		DZ2T0032NXC1AOOOO	30300	DZ2F0032NXC1AOOOO	36300	1
	27-40		DZ2T0040NXC1AOOOO	30300	DZ2F0040NXC1AOOOO	36300	1
	34-50		DZ2T0050NXC1AOOOO	30300	DZ2F0050NXC1AOOOO	36300	1
	43-63		DZ2T0063NXD1AOOOO	29300	DZ2F0063NXD1AOOOO	35200	1
	54-80		DZ2T0080NXD1AOOOO	29300	DZ2F0080NXD1AOOOO	35200	1
	67-100		DZ2T0100NXD1AOOOO	29300	DZ2F0100NXD1AOOOO	35200	1
	84-125		DZ2T0125NXD1AOOOO	38500	DZ2F0125NXD1AOOOO	42500	1
	108-160		DZ2T0160NXD1AOOOO	41800	DZ2F0160NXD1AOOOO	49900	1
DZ4-250N	108-160		DZ4T0160NXD1AOOOO	47500	DZ4F0160NXD1AOOOO	60000	1
	134-200		DZ4T0200NXD1AOOOO	51800	DZ4F0200NXD1AOOOO	65000	1
	168-250		DZ4T0250NXD1AOOOO	54600	DZ4F0250NXD1AOOOO	68600	1
DZ6-400N	134-200		DZ6T0200NXD1AOOOO	63300	DZ6F0200NXD1AOOOO	78200	1
	168-250		DZ6T0250NXD1AOOOO	66600	DZ6F0250NXD1AOOOO	82400	1
	215-320		DZ6T0320NXD1AOOOO	68800	DZ6F0320NXD1AOOOO	85000	1
	268-400		DZ6T0400NXD1AOOOO	68800	DZ6F0400NXD1AOOOO	85000	1
DZ7-800N	335-500		DZ7T0500NXD1AOOOO	85300	DZ7F0500NXD1AOOOO	110200	1
	422-630		DZ7T0630NXD1AOOOO	85300	DZ7F0630NXD1AOOOO	110200	1
	536-800		DZ7T0800NXD1AOOOO	115100	DZ7F0800NXD1AOOOO	146500	1
DZ2-160H	11-16	80kA	DZ2T0016HXC1AOOOO	38800	DZ2F0016HXC1AOOOO	42900	1
	14-20		DZ2T0020HXC1AOOOO	38800	DZ2F0020HXC1AOOOO	42900	1
	17-25		DZ2T0025HXC1AOOOO	38800	DZ2F0025HXC1AOOOO	42900	1
	22-32		DZ2T0032HXC1AOOOO	38800	DZ2F0032HXC1AOOOO	42900	1
	27-40		DZ2T0040HXC1AOOOO	38800	DZ2F0040HXC1AOOOO	42900	1
	34-50		DZ2T0050HXC1AOOOO	38800	DZ2F0050HXC1AOOOO	42900	1
	43-63		DZ2T0063HXD1AOOOO	37600	DZ2F0063HXD1AOOOO	41700	1
	54-80		DZ2T0080HXD1AOOOO	37600	DZ2F0080HXD1AOOOO	41700	1
	67-100		DZ2T0100HXD1AOOOO	37600	DZ2F0100HXD1AOOOO	41700	1
	84-125		DZ2T0125HXD1AOOOO	56100	DZ2F0125HXD1AOOOO	62000	1
	108-160		DZ2T0160HXD1AOOOO	59800	DZ2F0160HXD1AOOOO	66900	1
DZ4-250H	108-160		DZ4T0160HXD1AOOOO	68100	DZ4F0160HXD1AOOOO	76000	1
	134-200		DZ4T0200HXD1AOOOO	79200	DZ4F0200HXD1AOOOO	95300	1
	168-250		DZ4T0250HXD1AOOOO	82500	DZ4F0250HXD1AOOOO	99100	1
DZ6-400H	134-200		DZ6T0200HXD1AOOOO	89000	DZ6F0200HXD1AOOOO	105400	1
	168-250		DZ6T0250HXD1AOOOO	91700	DZ6F0250HXD1AOOOO	108700	1
	215-320		DZ6T0320HXD1AOOOO	92800	DZ6F0320HXD1AOOOO	109800	1
	268-400		DZ6T0400HXD1AOOOO	92800	DZ6F0400HXD1AOOOO	109800	1
DZ7-800H	335-500		DZ7T0500HXD1AOOOO	110400	DZ7F0500HXD1AOOOO	131800	1
	422-630		DZ7T0630HXD1AOOOO	110400	DZ7F0630HXD1AOOOO	131800	1
	536-800		DZ7T0800HXD1AOOOO	129800	DZ7F0800HXD1AOOOO	169600	1

d sine DZ MCCB with Microprocessor Release

Rating (A) / Icu (kA)	40	63	100	160	200	250	400	630	800	1000
36/50	DZ1									
36/50/80/120	DZ2									
36/50/80/120/200				DZ4		DZ4				
36/50/80/120/200						DZ6		DZ7		

d sine DZ MCCB with Microprocessor Release iTRP1



dsine-DZ iTRP1

- Conforms to IS/IEC 60947-2
- 16A to 1000A, 3P & 4P
- 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir*
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- Compact size
- Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D#/ DZ1-200D	10-40	36kA	DZ1T0040DXF1AOOOO	39600	DZ1F0040DXF1AOOOO	48300	1
	16-63		DZ1T0063DXF1AOOOO	39600	DZ1F0063DXF1AOOOO	48300	1
	25-100		DZ1T0100DXF1AOOOO	39600	DZ1F0100DXF1AOOOO	48300	1
	40-160		DZ1T0160DXF1AOOOO	46600	DZ1F0160DXF1AOOOO	65000	1
	50-200		DZ1T0200DXF1AOOOO ▲	60900	DZ1F0200DXF1AOOOO ▲	84000	1
DZ2-160D#	10-40		DZ2T0040DXF1AOOOO	41800	DZ2F0040DXF1AOOOO	50900	1
	16-63		DZ2T0063DXF1AOOOO	41800	DZ2F0063DXF1AOOOO	50900	1
	25-100		DZ2T0100DXF1AOOOO	41800	DZ2F0100DXF1AOOOO	50900	1
	40-160		DZ2T0160DXF1AOOOO	49300	DZ2F0160DXF1AOOOO	68400	1
DZ4-250D	40-160		DZ4T0160DXF1AOOOO	60300	DZ4F0160DXF1AOOOO	84000	1
	63-250		DZ4T0250DXF1AOOOO	62800	DZ4F0250DXF1AOOOO	86900	1
DZ6-400D	63-250		DZ6T0250DXF1AOOOO	75100	DZ6F0250DXF1AOOOO	97300	1
	100-400		DZ6T0400DXF1AOOOO	79100	DZ6F0400DXF1AOOOO	102400	1
DZ7-800D/ DZ7-1000D	158-630		DZ7T0630DXF1AOOOO	96700	DZ7F0630DXF1AOOOO	125300	1
	200-800		DZ7T0800DXF1AOOOO	127000	DZ7F0800DXF1AOOOO	157200	1
	250-1000		DZ7T1000DXF1AOOOO ▲	208600	DZ7F1000DXF1AOOOO ▲	289200	1
DZ1-160N#/ DZ1-200N	10-40	50kA	DZ1T0040NXF1AOOOO	45900	DZ1F0040NXF1AOOOO	63200	1
	16-63		DZ1T0063NXF1AOOOO	45900	DZ1F0063NXF1AOOOO	63200	1
	25-100		DZ1T0100NXF1AOOOO	45900	DZ1F0100NXF1AOOOO	63200	1
	40-160		DZ1T0160NXF1AOOOO	57600	DZ1F0160NXF1AOOOO	75700	1
	50-200		DZ1T0200NXF1AOOOO ▲	71900	DZ1F0200NXF1AOOOO ▲	91000	1
DZ2-160N#	10-40		DZ2T0040NXF1AOOOO	48300	DZ2F0040NXF1AOOOO	66800	1
	16-63		DZ2T0063NXF1AOOOO	48300	DZ2F0063NXF1AOOOO	66800	1
	25-100		DZ2T0100NXF1AOOOO	48300	DZ2F0100NXF1AOOOO	66800	1
	40-160		DZ2T0160NXF1AOOOO	60700	DZ2F0160NXF1AOOOO	79600	1

d sine DZ MCCB with Microprocessor Release iTRP1

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ4-250N	40-160	50kA	DZ4T0160NXF1AOOOO	69300	DZ4F0160NXF1AOOOO	88900	1
	63-250		DZ4T0250NXF1AOOOO	73900	DZ4F0250NXF1AOOOO	93700	1
DZ6-400N	63-250		DZ6T0250NXF1AOOOO	83800	DZ6F0250NXF1AOOOO	109300	1
	100-400		DZ6T0400NXF1AOOOO	88100	DZ6F0400NXF1AOOOO	115000	1
DZ7-800N/ DZ7-1000N	158-630		DZ7T0630NXF1AOOOO	106900	DZ7F0630NXF1AOOOO	136600	1
	200-800		DZ7T0800NXF1AOOOO	145400	DZ7F0800NXF1AOOOO	185000	1
	250-1000		DZ7T1000NXF1AOOOO▲	259700	DZ7F1000NXF1AOOOO▲	360100	1
DZ2-160H#	10-40	80kA	DZ2T0040HXF1AOOOO	56500	DZ2F0040HXF1AOOOO	70200	1
	16-63		DZ2T0063HXF1AOOOO	56500	DZ2F0063HXF1AOOOO	70200	1
	25-100		DZ2T0100HXF1AOOOO	56500	DZ2F0100HXF1AOOOO	70200	1
	40-160		DZ2T0160HXF1AOOOO	73800	DZ2F0160HXF1AOOOO	92400	1
DZ4-250H	40-160		DZ4T0160HXF1AOOOO	79200	DZ4F0160HXF1AOOOO	99100	1
	63-250		DZ4T0250HXF1AOOOO	88800	DZ4F0250HXF1AOOOO	122000	1
DZ6-400H	63-250		DZ6T0250HXF1AOOOO	111000	DZ6F0250HXF1AOOOO	146800	1
	100-400		DZ6T0400HXF1AOOOO	116900	DZ6F0400HXF1AOOOO	154200	1
DZ7-800H/ DZ7-1000H	158-630		DZ7T0630HXF1AOOOO	121100	DZ7F0630HXF1AOOOO	176400	1
	200-800		DZ7T0800HXF1AOOOO	176300	DZ7F0800HXF1AOOOO	230500	1
	250-1000		DZ7T1000HXF1AOOOO▲	301300	DZ7F1000HXF1AOOOO▲	436000	1

▲- Spreader Terminals are included
*** For DZ7 630A / 800A & 1000A: Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
For 25A, please contact nearest branch office

Note:
Breaking Capacity: D = 36kA, N = 50kA, H = 80kA
dsine DZ-120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.
It is recommended to use spreader terminals for enhancing termination capacity
dsine DZ Selectivity Version MCCBs are available on request.

d sine DZ MCCB with Microprocessor Release iTRP3



dsine-DZ iTRP3

- Conforms to IS/IEC 60947-2
- 16A to 1000A, 3P & 4P
- 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir*
- Adjustable Instantaneous setting, 6 In & 12 In
- Inbuilt ground fault protection from 20% to 70% of In
- Adjustable neutral overload protection from 50% to 200% of Ir
- Switchable thermal memory
- Provision for release testing
- Individual fault indication LEDs
- Transparent sealable release cover
- Compact size
- Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- Wide range of accessories

d sine DZ MCCB with Microprocessor Release iTRP3

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D#/ DZ1-200D	10-40	36kA	DZ1T0040DXH1AOOOO	66500	DZ1F0040DXH1AOOOO	77400	1
	16-63		DZ1T0063DXH1AOOOO	66500	DZ1F0063DXH1AOOOO	77400	1
	25-100		DZ1T0100DXH1AOOOO	66500	DZ1F0100DXH1AOOOO	77400	1
	40-160		DZ1T0160DXH1AOOOO	76400	DZ1F0160DXH1AOOOO	94100	1
	50-200		DZ1T0200DXH1AOOOO ▲	87300	DZ1F0200DXH1AOOOO ▲	107100	1
DZ2-160D#	10-40		DZ2T0040DXH1AOOOO	69400	DZ2F0040DXH1AOOOO	81000	1
	16-63		DZ2T0063DXH1AOOOO	69400	DZ2F0063DXH1AOOOO	81000	1
	25-100		DZ2T0100DXH1AOOOO	69400	DZ2F0100DXH1AOOOO	81000	1
	40-160		DZ2T0160DXH1AOOOO	79800	DZ2F0160DXH1AOOOO	98200	1
DZ4-250D	40-160		DZ4T0160DXH1AOOOO	86300	DZ4F0160DXH1AOOOO	106000	1
	63-250		DZ4T0250DXH1AOOOO	89900	DZ4F0250DXH1AOOOO	110400	1
DZ6-400D	63-250		DZ6T0250DXH1AOOOO	103600	DZ6F0250DXH1AOOOO	120000	1
	100-400		DZ6T0400DXH1AOOOO	108800	DZ6F0400DXH1AOOOO	126200	1
DZ7-800D/ DZ7-1000D	158-630		DZ7T0630DXH1AOOOO	121600	DZ7F0630DXH1AOOOO	151400	1
	200-800		DZ7T0800DXH1AOOOO	163000	DZ7F0800DXH1AOOOO	193700	1
	250-1000		DZ7T1000DXH1AOOOO ▲	242800	DZ7F1000DXH1AOOOO ▲	320500	1
DZ1-160N#/ DZ1-200N	10-40	50kA	DZ1T0040NXH1AOOOO	73600	DZ1F0040NXH1AOOOO	87700	1
	16-63		DZ1T0063NXH1AOOOO	73600	DZ1F0063NXH1AOOOO	87700	1
	25-100		DZ1T0100NXH1AOOOO	73600	DZ1F0100NXH1AOOOO	87700	1
	40-160		DZ1T0160NXH1AOOOO	87400	DZ1F0160NXH1AOOOO	104600	1
	50-200		DZ1T0200NXH1AOOOO ▲	98200	DZ1F0200NXH1AOOOO ▲	119900	1
DZ2-160N#	10-40		DZ2T0040NXH1AOOOO	76800	DZ2F0040NXH1AOOOO	91600	1
	16-63		DZ2T0063NXH1AOOOO	76800	DZ2F0063NXH1AOOOO	91600	1
	25-100		DZ2T0100NXH1AOOOO	76800	DZ2F0100NXH1AOOOO	91600	1
	40-160		DZ2T0160NXH1AOOOO	91300	DZ2F0160NXH1AOOOO	109500	1
DZ4-250N	40-160		DZ4T0160NXH1AOOOO	97400	DZ4F0160NXH1AOOOO	118800	1
	63-250		DZ4T0250NXH1AOOOO	101200	DZ4F0250NXH1AOOOO	123600	1
DZ6-400N	63-250		DZ6T0250NXH1AOOOO	110900	DZ6F0250NXH1AOOOO	132200	1
	100-400		DZ6T0400NXH1AOOOO	116800	DZ6F0400NXH1AOOOO	139100	1
DZ7-800N/ DZ7-1000N	158-630		DZ7T0630NXH1AOOOO	129400	DZ7F0630NXH1AOOOO	171100	1
	200-800		DZ7T0800NXH1AOOOO	199400	DZ7F0800NXH1AOOOO	236800	1
	250-1000		DZ7T1000NXH1AOOOO ▲	302400	DZ7F1000NXH1AOOOO ▲	399000	1
DZ2-160H#	10-40	80kA	DZ2T0040HXH1AOOOO	91500	DZ2F0040HXH1AOOOO	108800	1
	16-63		DZ2T0063HXH1AOOOO	91500	DZ2F0063HXH1AOOOO	108800	1
	25-100		DZ2T0100HXH1AOOOO	91500	DZ2F0100HXH1AOOOO	108800	1
	40-160		DZ2T0160HXH1AOOOO	108900	DZ2F0160HXH1AOOOO	121400	1
DZ4-250H	40-160		DZ4T0160HXH1AOOOO	116700	DZ4F0160HXH1AOOOO	134700	1
	63-250		DZ4T0250HXH1AOOOO	133600	DZ4F0250HXH1AOOOO	157400	1
DZ6-400H	63-250		DZ6T0250HXH1AOOOO	154100	DZ6F0250HXH1AOOOO	193000	1
	100-400		DZ6T0400HXH1AOOOO	162500	DZ6F0400HXH1AOOOO	203000	1
DZ7-800H/ DZ7-1000H	158-630		DZ7T0630HXH1AOOOO	175800	DZ7F0630HXH1AOOOO	241700	1
	200-800		DZ7T0800HXH1AOOOO	236000	DZ7F0800HXH1AOOOO	294600	1
	250-1000		DZ7T1000HXH1AOOOO ▲	379600	DZ7F1000HXH1AOOOO ▲	492100	1

▲- Spreader Terminals are included
*** For DZ7 630A / 800A & 1000A: Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
For 25A, please contact nearest branch office

Note:
Breaking Capacity : D = 36kA, N = 50kA, H = 80kA
dsine DZ 120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.
It is recommended to use spreader terminals for enhancing termination capacity
dsine DZ Selectivity Version MCCBs are available on request.

DZ MCCB Range [8536]

Rating (A) / Icu (kA)	40	63	100	160	200	250	400	630	800	1000
	DZ1[$]									
36/50/80/120	DZ2									
36/50/80/120/200				DZ4		DZ4				
36/50/80/120/200						DZ6		DZ7		

[$] iTRP4 Only

DZ MCCB with Microprocessor Releases iTRP4 & iTRP5

- Confirms to IS/IEC 60947-2
- 16A to 1000A, 3P & 4P
- 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- Ics=100% Icu
- Adjustable Overload Settings from 0.25 to 1 In (in steps of 0.01)
- Adjustable Short Circuit Settings from 1.5 to 12 Ir (in steps of 0.1)
- Adjustable Instantaneous Settings from 1.5 to 12 Ir (in steps of 0.1)
- In-built Ground Fault Protection from 0.1 to 1 In (in steps of 0.05)
- Adjustable Neutral Overload Protection from 50% to 160% of Ir
- Local LCD Display Menu Navigation using Keypad
- Modbus RTU Communication Capable
- Switchable Thermal Memory
- Provision for Release Testing
- Variable trip class
- Transparent sealable release cover
- Compact size
- Wide range of accessories

Advance Metering Solution



Measurement & Diagnostics

- Advanced Current based protection function via iTRP4 Release
- Advanced Energy based protection function via iTRP5 Release
- I²T, SI, LI-VI based over load curves
- Advanced Protections like Maximum Demand, Phase Sequence, THD etc
- Common Fault Indication and Diagnostic LED
- Self, Auxiliary and Battery Mode
- Trip & Event Records available
- Communication module for remote monitoring & control
- Temperature module with thermal sensors for online temperature monitoring
- Zone Selective Interlocking (ZSI) module for system level coordination of faults

Accessories for iTRP4 & iTRP5 [8538]

Modules	Details
Communication Module	*
Aux. Power Supply Module	
Temperature Module (with Thermal Sensors)	
Zone Selective Interlocking Module	
Programmable Relay Module	

* **On request**

d sine DZ MCCBs for Motor back-up Protection

- Range: 16A to 800A, 50kA
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

3 Pole					
Type	Current Rating (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DZ0-125N	32	50kA	DZ0T0032N5M1AOOOO	10300	1
	40		DZ0T0040N5M1AOOOO	10300	1
	63		DZ0T0063N5M1AOOOO	10200	1
	80		DZ0T0080N5M1AOOOO	10200	1
	100		DZ0T0100N5M1AOOOO	10200	1
	125		DZ0T0125N5M1AOOOO▲	13400	1
DZ1-160N/ DZ1-200N	32		DZ1T0032NXM1AOOOO	13500	1
	40		DZ1T0040NXM1AOOOO	13500	1
	63		DZ1T0063NXM1AOOOO	13400	1
	80		DZ1T0080NXM1AOOOO	13400	1
	100		DZ1T0100NXM1AOOOO	13400	1
	125		DZ1T0125NXM1AOOOO	14000	1
	160		DZ1T0160NXM1AOOOO	16100	1
	200		DZ1T0200NXM1AOOOO▲	30000	1
DZ4-250N	250		DZ4T0250NXM1AOOOO	38800	1
DZ6-400N	320		DZ6T0320NXM1AOOOO	49000	1
	400		DZ6T0400NXM1AOOOO	51400	1
DZ7-800N	500		DZ7T0500NXM1AOOOO	68600	1
	630		DZ7T0630NXM1AOOOO	72900	1
	800		DZ7T0800NXM1AOOOO	76000	1



Representative Application Image

▲- Spreader Terminals are included

Note:
Please contact nearest branch office for Fuseless Type 2 Co-ordination selection charts.
For Microprocessor based Motor back-up Protection MCCBs, please contact nearest branch office.
For lower HP Motors, Please select MMS. Details are given on page no.21



DZ 800V MCCB Range [8536]

Rating (A) / Icu (kA) @ 800V	200	250	320	400	500	630
25/36/50	DZ6					
36/50					DZ7	



dsine-DZ TM

- Conforms to IS/IEC 60947-2
- 200A to 630A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Ics=100% Icu
- Rated insulation voltage: 1250V AC rms
- Adjustable overload settings: 0.67 - 1.0 x In
- Adjustable short-circuit settings: 6 - 12 x In**
- Transparent sealable release cover
- Ambient Temperature Compensation
- High Electrical & Mechanical life***
- Manual and Rotary versions available
- Standard Back Insulating Plates included for 3P MCCBs
- Wide range of accessories

DZ 800V with Thermal - Magnetic Release

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	134-200	25kA	DZ6T0200WXD1AOOOO	*	DZ6F0200WXD1AOOOO	*	1
	168-250		DZ6T0250WXD1AOOOO		DZ6F0250WXD1AOOOO		1
DZ6-400Y	134-200	36kA	DZ6T0200YXD1AOOOO	*	DZ6F0200YXD1AOOOO	*	1
	168-250		DZ6T0250YXD1AOOOO		DZ6F0250YXD1AOOOO		1
	214-320		DZ6T0320YXD1AOOOO		DZ6F0320YXD1AOOOO		1
	268-400		DZ6T0400YXD1AOOOO		DZ6F0400YXD1AOOOO		1
DZ7-800Y	335-500		DZ7T0500YXD1AOOOO		DZ7F0500YXD1AOOOO		1
	422-630		DZ7T0630YXD1AOOOO		DZ7F0630YXD1AOOOO		1
DZ6-400Z	134-200	50kA	DZ6T0200ZXD1AOOOO	*	DZ6F0200ZXD1AOOOO	*	1
	168-250		DZ6T0250ZXD1AOOOO		DZ6F0250ZXD1AOOOO		1
	214-320		DZ6T0320ZXD1AOOOO		DZ6F0320ZXD1AOOOO		1
	268-400		DZ6T0400ZXD1AOOOO		DZ6F0400ZXD1AOOOO		1
DZ7-800Z	335-500		DZ7T0500ZXD1AOOOO		DZ7F0500ZXD1AOOOO		1
	422-630		DZ7T0630ZXD1AOOOO		DZ7F0630ZXD1AOOOO		1

*** Price on request**
**** For DZ7 630A - Magnetic setting from 6 In to 10 In**
***** Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)**

General Information
- Ambient temperature compensation in MCCBs helps prevent nuisance tripping by adjusting for temperature variations that affect the thermal elements. High ambient temperatures can cause premature tripping, while low temperatures may delay it. This is most suitable for Solar application.

DZ 800V MCCB Range [8536]

Rating (A) / Icu (kA) @ 800V	125	160	200	250	320	400	500	630	800
25/36/50	DZ6								
36/50							DZ7		



dsine-DZ iTRP1

- Conforms to IS/IEC 60947-2
- 125A to 800A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Ics=100% Icu
- Rated insulation voltage: 1250V AC rms
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir**
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- High Electrical & Mechanical life***
- Manual and Rotary versions available
- Standard Back Insulating Plates included for 3P MCCBs
- Wide range of accessories

DZ 800V with Microprocessor Release iTRP1

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	31-125	25kA	DZ6T0125WXF1AOOOO	*	DZ6F0125WXF1AOOOO	*	1
	40-160		DZ6T0160WXF1AOOOO		DZ6F0160WXF1AOOOO		1
	50-200		DZ6T0200WXF1AOOOO		DZ6F0200WXF1AOOOO		1
	63-250		DZ6T0250WXF1AOOOO		DZ6F0250WXF1AOOOO		1
	80-320		DZ6T0320WXF1AOOOO		DZ6F0320WXF1AOOOO		1
	100-400		DZ6T0400WXF1AOOOO		DZ6F0400WXF1AOOOO		1
DZ6-400Y	31-125	36kA	DZ6T0125YXF1AOOOO	*	DZ6F0125YXF1AOOOO	*	1
	40-160		DZ6T0160YXF1AOOOO		DZ6F0160YXF1AOOOO		1
	50-200		DZ6T0200YXF1AOOOO		DZ6F0200YXF1AOOOO		1
	63-250		DZ6T0250YXF1AOOOO		DZ6F0250YXF1AOOOO		1
	80-320		DZ6T0320YXF1AOOOO		DZ6F0320YXF1AOOOO		1
	100-400		DZ6T0400YXF1AOOOO		DZ6F0400YXF1AOOOO		1
DZ7-800Y	125-500		DZ7T0500YXF1AOOOO		DZ7F0500YXF1AOOOO		1
	156-630		DZ7T0630YXF1AOOOO		DZ7F0630YXF1AOOOO		1
	200-800		DZ7T0800YXF1AOOOO		DZ7F0800YXF1AOOOO		1
DZ6-400Z	31-125	50kA	DZ6T0125ZXF1AOOOO	*	DZ6F0125ZXF1AOOOO	*	1
	40-160		DZ6T0160ZXF1AOOOO		DZ6F0160ZXF1AOOOO		1
	50-200		DZ6T0200ZXF1AOOOO		DZ6F0200ZXF1AOOOO		1
	63-250		DZ6T0250ZXF1AOOOO		DZ6F0250ZXF1AOOOO		1
	80-320		DZ6T0320ZXF1AOOOO		DZ6F0320ZXF1AOOOO		1
	100-400		DZ6T0400ZXF1AOOOO		DZ6F0400ZXF1AOOOO		1
DZ7-800Z	125-500		DZ7T0500ZXF1AOOOO		DZ7F0500ZXF1AOOOO		1
	156-630		DZ7T0630ZXF1AOOOO		DZ7F0630ZXF1AOOOO		1
	200-800		DZ7T0800ZXF1AOOOO		DZ7F0800ZXF1AOOOO		1

*** Price on request**
**** For DZ7 630A / 800A, Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
***** Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)**

DZ 800V MCCB Range [8536]

Rating (A) / Icu (kA) @ 800V	200	250	320	400	500	630	800
25/36/50	DZ6						
36/50					DZ7		



dsine-DZ iTRP3

- Conforms to IS/IEC 60947-2
- 125A to 800A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Ics=100% Icu
- Rated insulation voltage: 1250V AC rms
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir**
- Adjustable Instantaneous setting, 6 In & 12 In
- Inbuilt ground fault protection from 20% to 70% of In
- Adjustable neutral overload protection from 50% to 200% of Ir
- Switchable thermal memory
- Variable trip class
- Individual fault indication LEDs
- Transparent sealable release cover
- High Electrical & Mechanical life***
- Manual and Rotary versions available
- Standard Back Insulating Plates included for 3P MCCBs
- Wide range of accessories

DZ 800V with Microprocessor Release iTRP3

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	50-200	25kA	DZ6T0200WXH1AOOOO	*	DZ6F0200WXH1AOOOO	*	1
	63-250		DZ6T0250WXH1AOOOO		DZ6F0250WXH1AOOOO		1
	80-320		DZ6T0320WXH1AOOOO		DZ6F0320WXH1AOOOO		1
	100-400		DZ6T0400WXH1AOOOO		DZ6F0400WXH1AOOOO		1
DZ6-400Y	50-200	36kA	DZ6T0200YXH1AOOOO	*	DZ6F0200YXH1AOOOO	*	1
	63-250		DZ6T0250YXH1AOOOO		DZ6F0250YXH1AOOOO		1
	80-320		DZ6T0320YXH1AOOOO		DZ6F0320YXH1AOOOO		1
	100-400		DZ6T0400YXH1AOOOO		DZ6F0400YXH1AOOOO		1
DZ7-800Y	125-500		DZ7T0500YXH1AOOOO		DZ7F0500YXH1AOOOO		1
	156-630		DZ7T0630YXH1AOOOO		DZ7F0630YXH1AOOOO		1
	200-800		DZ7T0800YXH1AOOOO		DZ7F0800YXH1AOOOO		1
DZ6-400Z	50-200	50kA	DZ6T0200ZXH1AOOOO	*	DZ6F0200ZXH1AOOOO	*	1
	63-250		DZ6T0250ZXH1AOOOO		DZ6F0250ZXH1AOOOO		1
	80-320		DZ6T0320ZXH1AOOOO		DZ6F0320ZXH1AOOOO		1
	100-400		DZ6T0400ZXH1AOOOO		DZ6F0400ZXH1AOOOO		1
DZ7-800Z	125-500		DZ7T0500ZXH1AOOOO		DZ7F0500ZXH1AOOOO		1
	156-630		DZ7T0630ZXH1AOOOO		DZ7F0630ZXH1AOOOO		1
	200-800		DZ7T0800ZXH1AOOOO		DZ7F0800ZXH1AOOOO		1

*** Price on request**
**** For DZ7 630A / 800A, Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
***** Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)**

Accessories for d sine DZ MCCBs [8538]



Auxiliary Contact
Trip Alarm Contact



Shunt Release



UV Release

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxillary Contact/ Trip Alarm Contact [8538]			
DZ0 Aux/TAC 1 C/o	EM909660OOO	1150	1
DZ1/2/4 Aux/TAC 1 C/o	EM901100OOO	1800	1
DZ6/7 Aux/TAC 1 C/o	EM901140OOO	1960	1
Shunt Release [8538]			
DZ0 Shunt 110/240/415V AC	EM90520OMOO	1560	1
DZ1/2/4 Shunt 415V AC	EM900320POO	4780	1
DZ1/2/4 Shunt 240V AC	EM900320BOO	4780	1
DZ1/2/4 Shunt 110V AC	EM900320AOO	4780	1
DZ1/2/4 Shunt 48V AC	EM900320JOO	4780	1
DZ1/2/4 Shunt 24V AC	EM900320GOO	4780	1
DZ1/2/4 Shunt 220V DC	EM900320200	4780	1
DZ1/2/4 Shunt 110V DC	EM900320100	4780	1
DZ1/2/4 Shunt 48V DC	EM900320500	4780	1
DZ1/2/4 Shunt 24V DC	EM900320400	4780	1
DZ1/2/4 Shunt 12V DC	EM900320300	4780	1
DZ6/7 Shunt 415V AC	EM900340POO	5350	1
DZ6/7 Shunt 240V AC	EM900340BOO	5350	1
DZ6/7 Shunt 110V AC	EM900340EOO	5350	1
DZ6/7 Shunt 48V AC	EM900340JOO	5350	1
DZ6/7 Shunt 24V AC	EM900340GOO	5350	1
DZ6/7 Shunt 220V DC	EM900340200	5350	1
DZ6/7 Shunt 110V DC	EM900340100	5350	1
DZ6/7 Shunt 48V DC	EM900340500	5350	1
DZ6/7 Shunt 24V DC	EM900340400	5350	1
DZ6/7 Shunt 12V DC	EM900340300	5350	1

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Under Voltage Release [8538]			
DZ0 UVR 240V AC	EM90518BOOO	4690	1
DZ1/2/4 UVR 415V AC	EM90031POOO	6180	1
DZ1/2/4 UVR 240V AC	EM90031BOOO	6180	1
DZ1/2/4 UVR 110V AC	EM90031EOOO	6180	1
DZ1/2/4 UVR 48V AC	EM90031JOOO	6180	1
DZ1/2/4 UVR 24V AC	EM90031GOOO	6180	1
DZ1/2/4 UVR 220V DC	EM900312OOO	6180	1
DZ1/2/4 UVR 110V DC	EM900311OOO	6180	1
DZ1/2/4 UVR 48V DC	EM900315OOO	6180	1
DZ1/2/4 UVR 24V DC	EM900314OOO	6180	1
DZ1/2/4 UVR 12V DC	EM900313OOO	6180	1
DZ6/7 UVR 415V AC	EM90033POOO	6860	1
DZ6/7 UVR 240V AC	EM90033BOOO	6860	1
DZ6/7 UVR 110V AC	EM90033EOOO	6860	1
DZ6/7 UVR 48V AC	EM90033JOOO	6860	1
DZ6/7 UVR 24V AC	EM90033GOOO	6860	1
DZ6/7 UVR 220V DC	EM900332OOO	6860	1
DZ6/7 UVR 110V DC	EM900331OOO	6860	1
DZ6/7 UVR 48V DC	EM900335OOO	6860	1
DZ6/7 UVR 24V DC	EM900334OOO	6860	1
DZ6/7 UVR 12V DC	EM900333OOO	6860	1

Accessories for d sine DZ MCCBs [8538]


Direct ROM


Extended ROM


Key Lock


EOM


Spreaders Terminals


Rear Terminals


Box Clamp Terminals

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Rotary Mechanism (Direct/Extended) [8538]			
DZ0 Direct ROM	EM909690OOO	2130	1
DZ1 Direct ROM	EM902070OOO	2370	1
DZ2 Direct ROM	EM902080OOO	2700	1
DZ4 Direct ROM	EM903860OOO	3150	1
DZ6 Direct ROM	EM902280OOO	3900	1
DZ7 Direct ROM	EM903500OOO	5410	1
DZ0 Extended ROM	EM909700OOO	3060	1
DZ1 Extended ROM	EM902090OOO	3200	1
DZ2 Extended ROM	EM902100OOO	3760	1
DZ4 Extended ROM	EM902930OOO	4770	1
DZ6 Extended ROM	EM902760OOO	6290	1
DZ7 Extended ROM	EM903810OOO	6600	1
Panel Door mounted Key lock for Extended ROM [8301]			
DZ0/1/2/4 Key Lock Type 1	EM990310OOO	8760	1
DZ0/1/2/4 Key Lock Type 2	EM99031OOOA	8760	1
DZ0/1/2/4 Key Lock Type 3	EM99031OOOB	8760	1
DZ0/1/2/4 Key Lock Type 12	EM99031OOOC	8760	1
DZ0/1/2/4 Key Lock Type 23	EM99031OOOD	8760	1
DZ6/7 Key Lock Type 1	EM991410OOO	10400	1
DZ6/7 Key Lock Type 2	EM99141OOOA	10400	1
DZ6/7 Key Lock Type 3	EM99141OOOB	10400	1
DZ6/7 Key Lock Type 12	EM99141OOOC	10400	1
DZ6/7 Key Lock Type 23	EM99141OOOD	10400	1
Electrical Operating Mechanism [8538]			
DZ1 240V AC	EM90490BOOO	54900	1
DZ2 240V AC	EM90545BOOO	59900	1
DZ4 240V AC	*		
DZ6 240V AC	EM90355BOOO	85300	1
DZ7 240V AC	EM90480BOOO	115700	1

*** Price on request**

Note:
For Electrical Operating Mechanism, refer wiring diagram from Product Catalogue or Product Manual.

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals (Up to 690V AC #) [8538]			
DZ0-100 3 Pole	CM977850OOO[@]	770	Set of 6
DZ0-100 4 Pole	CM979210OOO[@]	1200	Set of 8
DZ1, DZ2-160 3 Pole	EM906090OOO	2930	Set of 6
DZ1, DZ2-160 4 Pole	EM906100OOO	3830	Set of 8
DZ4-250 - 3 Pole	EM940960OOO	4760	Set of 6
DZ4-250 - 4 Pole	EM940970OOO	6360	Set of 8
DZ6-400 - 3 Pole	EM906110OOO	7140	Set of 6
DZ6-400 - 4 Pole	EM906120OOO	9590	Set of 8
DZ7-630 - 3 Pole	EM970500OOO	21500	Set of 6
DZ7-630 - 4 Pole	EM970520OOO	28600	Set of 8
DZ7-800 - 3 Pole	EM970510OOO	26900	Set of 6
DZ7-800 - 4 Pole	EM970530OOO	35000	Set of 8
Rear Terminals [8538]			
DZ1-160 3 Pole	EM911760OOO	7460	Set of 6
DZ1-160 4 Pole	EM911770OOO	10700	Set of 8
DZ2-160 3 Pole	EM920880OOO	8270	Set of 6
DZ2-160 4 Pole	EM920890OOO	11700	Set of 8
DZ4-250 - 3 Pole	EM940580OOO	10000	Set of 6
DZ4-250 - 4 Pole	EM940590OOO	14400	Set of 8
DZ6-400 - 3 Pole	EM960450OOO	13600	Set of 6
DZ6-400 - 4 Pole	EM960460OOO	19700	Set of 8
DZ7-800 - 3 Pole	EM970450OOO	25400	Set of 6
DZ7-800 - 4 Pole	EM970460OOO	36900	Set of 8
Box Clamp Termination [8538]			
DZ1, DZ2-160 3 Pole	EM921760OOO	6270	Set of 6
DZ1, DZ2-160 4 Pole	EM921770OOO	8960	Set of 8
DZ4-250 - 3 Pole	EM940940OOO	11600	Set of 6
DZ4-250 - 4 Pole	EM940950OOO	16700	Set of 8
DZ6-400 - 3 Pole	EM969850OOO	15800	Set of 6
DZ6-400 - 4 Pole	EM963700OOO	22800	Set of 8

Note:
Phase Barriers are supplied along with MCCBs
[@] Change in CAT No.
[#] For 800V Application Spreaders, please contact nearest branch office

Accessories for d sine DZ MCCBs [8538]

	DZ1	DZ2	DZ4	DZ6	DZ7
Plug-in	Full Kit				Fixed Kit + Conversion Kit
Draw-out	-		Fixed Kit + Conversion Kit		



Plug-in



Draw-out

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Plug-in Module [8538]			
DZ1 3 Pole Full Kit	EM902010000	*	1
DZ1 4 Pole Full Kit	EM902020000	*	1
DZ2 3 Pole Full Kit	EM902620000	*	1
DZ2 4 Pole Full Kit	EM902630000	*	1
DZ4 3 Pole Full Kit	EM902500000	*	1
DZ4 4 Pole Full Kit	EM902510000	*	1
DZ6 3 Pole Full Kit	EM902460000	*	1
DZ6 4 Pole Full Kit	EM902470000	*	1
DZ7-630 3 Pole Fixed Kit	EM992560000	*	1
DZ7-630 3 Pole Conversion Kit	EM992540000	*	1
DZ7-630 4 Pole Fixed Kit	EM992570000	*	1
DZ7-630 4 Pole Conversion Kit	EM992550000	*	1
DZ7-800 3 Pole Fixed Kit	EM990610000	*	1
DZ7-800 3 Pole Conversion Kit	EM990690000	*	1
DZ7-800 4 Pole Fixed Kit	EM990620000	*	1
DZ7-800 4 Pole Conversion Kit	EM990700000	*	1

*** Price on request**

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Draw-out Module [8538]			
DZ4 3 Pole Fixed Kit	EM902600000	*	1
DZ4 3 Pole Conversion Kit	EM902580000	*	1
DZ4 4 Pole Fixed Kit	EM902610000	*	1
DZ4 4 Pole Conversion Kit	EM902590000	*	1
DZ6 3 Pole Fixed Kit	EM902560000	*	1
DZ6 3 Pole Conversion Kit	EM902540000	*	1
DZ6 4 Pole Fixed Kit	EM902570000	*	1
DZ6 4 Pole Conversion Kit	EM902550000	*	1
DZ7-630 3 Pole Fixed Kit	EM991050000	*	1
DZ7-630 3 Pole Conversion Kit	EM991030000	*	1
DZ7-630 4 Pole Fixed Kit	EM991060000	*	1
DZ7-630 4 Pole Conversion Kit	EM991040000	*	1
DZ7-800 3 Pole Fixed Kit	EM904550000	*	1
DZ7-800 3 Pole Conversion Kit	EM904530000	*	1
DZ7-800 4 Pole Fixed Kit	EM904560000	*	1
DZ7-800 4 Pole Conversion Kit	EM904540000	*	1

Direct ROM or EOM is to be ordered mandatorily along with Drawout Module
*** Price on request**

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Short Terminal Shroud $ [8538]			
DZ1-160 3 Pole	EM990810000	3570	1
DZ1-160 4 Pole	EM990820000	4300	1
DZ2-160 3 Pole	EM990850000	3570	1
DZ2-160 4 Pole	EM990870000	4300	1
DZ4-250 - 3 Pole	EM990890000	3760	1
DZ4-250 - 4 Pole	EM990910000	5480	1
DZ6-400 - 3 Pole	EM990930000	5000	1
DZ6-400 - 4 Pole	EM990940000	6790	1
DZ7-630/800 - 3 Pole	EM990970000	5440	1
DZ7-630/800 - 4 Pole	EM990990000	7500	1

$ Long Terminal Shrouds available on request

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
DZ1, DZ2 - 40A, 63A, 80A	EM905070000	4420	1
DZ1, DZ2 - 100A, 160A	EM905080000	4530	1
DZ1 - 200A	EM905090000	4570	1
DZ4 - 160A, 250A	EM905120000	6780	1
DZ6 - 250A, 400A	EM905150000	8330	1
DZ7 - 630A, 800A	EM905160000	12900	1
DZ7 - 1000A	EM973260000	13600	1
Adaptor Kit for External Neutral CT [8538]			
DZ1, DZ2 & DZ4 - Up to 250A	CM999940000	1410	Set of 2
DZ6 - Up to 400A	CM999950000	2600	Set of 2
DZ7 - Up to 1000A	EM972270000	9440	Set of 2

Accessories for d sine DZ MCCBs [8538]

Mechanical Interlocking Kit Range	DZ1	DZ2	DZ4	DZ6
Front Slider	✓	✓	✓	
Rear Base Plate	-	-	✓	✓
Cable Base Plate	✓	✓	✓	✓


Front Slider


Cable Base Plate


Rear Base Plate

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Mechanical Interlocking Options [8538]			
1. Front Slider MIL #			
DZ1 Front Slider	**EM903960000**	**5350**	1
DZ2 Front Slider	**EM903970000**	**5630**	1
DZ2/DZ4 Front Slider	**EM903980000**	**7620**	1

Front Slider MIL Selection Table	DZ1	DZ2	DZ4
DZ1	✓		
DZ2		✓	✓
DZ4		✓	✓

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
2. Rear Base Plate MIL#			
DZ4 Mounting Plate ~	**EM904000000**	**5560**	1
DZ6 Mounting Plate ~	**EM903990000**	**6930**	1
DZ4 Rear Base Plate ~	**EM903540000**	**27400**	1
DZ4/DZ6 Rear Base Plate ~	**EM903530000**	**34400**	1
DZ7 Rear Base Plate	**EM991420000**	**68000**	1

~ - 2 Nos of Mounting Plate and 1 No of Base Plate must be ordered together along with 2 Nos of MCCBs.

Rear Base Plate MIL Selection Table (DZ4 & DZ6)	Base Plate		Mounting Plate	
	EM90353	EM90354	EM90399	EM90400
DZ4-DZ4	X	1No.	X	2 Nos.
DZ4-DZ6	1No.	X	1No.	1No.
DZ6-DZ6	1No.	X	2 Nos.	X

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
3. Cable Base Plate MIL #			
a. Base Plate with Cable (for MCCBs without Rear Terminations)			
DZ1/DZ2 Cable Base Plate $	**EM904040000**	**9600**	1
DZ4 Cable Base Plate $	**EM904050000**	**11500**	1
DZ6 Cable Base Plate $	**EM904060000**	**15000**	1
b. Base Plate with Cable (for MCCBs with Rear Terminations)			
DZ1/DZ2 Cable Base Plate RT $	**EM904010000**	**10600**	1
DZ4 Cable Base Plate RT $	**EM904020000**	**12700**	1
DZ6 Cable Base Plate RT $	**EM904030000**	**16600**	1
c. Cable Types and Lengths - For DZ1/ DZ2/ DZ4/ DZ6 MCCBs (for both MCCBs with and without Rear Terminations)			
L Cable (1 m Length) $	**EM004710000**	**2500**	1
L Cable (3 m Length) $	**EM004740000**	**3770**	1
L Cable (5 m Length) $	**EM004770000**	**5220**	1
M Cable (1 m Length) $	**EM004720000**	**2500**	1
M Cable (3 m Length) $	**EM004750000**	**3770**	1
M Cable (5 m Length) $	**EM004780000**	**5220**	1
H Cable (1 m Length) $	**EM004730000**	**2500**	1
H Cable (3 m Length) $	**EM004760000**	**3770**	1
H Cable (5 m Length) $	**EM004790000**	**5220**	1

$ - 2 Nos of Base Plate & 1 No of suitable length of Cable must be ordered together along with 2 Nos of MCCBs.

Cable Base Plate MIL Selection Table		DZ1		DZ2		DZ4		DZ6	
		EM90404	EM90401	EM90404	EM90401	EM90405	EM90402	EM90406	EM90403
DZ1	**EM90404**	L	L						
	EM90401		M						
DZ2	**EM90404**			L	L	L	M	L	M
	EM90401				M	L	M	M	H
DZ4	**EM90405**					L	M	L	M
	EM90402						H	M	H
DZ6	**EM90406**							M	H
	EM90403								H

Common for 3P & 4P MCCBs

d sine DN MCCB with Thermal - Magnetic Release

Rating (A) / Icu=Ics (kA)*	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630
25		DN0-100C								DN1-C							
36		DN0-100D/125D												DN3B			
36/50/70				DN2										DN3			



dsine TM

- Conforms to IS/IEC 60947-2
- 20A to 630A, 3P & 4P
- 25kA, 36kA, 50kA & 70kA breaking capacities
- Ics= 100% of Icu*
- Adjustable overload settings: 0.8 - 1.0 x In
- Adjustable short-circuit settings: 6 - 10 x In**
- Manual & Rotary versions available
- Wide range of accessories

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-100D*	16-20	36	CM97893OOC2OG	11600	CM97919OOC2OG	16400	1
	20-25		CM97893OOD2OG	11600	CM97919OOD2OG	16400	1
	25-32		CM97893OOE2OG	11600	CM97919OOE2OG	16400	1
	32-40		CM97893OOF2OG	11600	CM97919OOF2OG	16400	1
	40-50		CM97893OOG2OG	11600	CM97919OOG2OG	16400	1
	50-63		CM97893OOH2OG	11300	CM97919OOH2OG	15900	1
	63-80		CM97893OOJ2OG	11300	CM97919OOJ2OG	15900	1
	80-100		CM97893OOK2OG	11300	CM97919OOK2OG	15900	1
DN0-125D*	100-125		CM90680OOLOOG	14100	CM90681OOLOOG	18600	1
DN0-100C	16-20	25	CM91612OOCOOG	12100	CM91712OOCOOG	16900	1
	20-25		CM91612OODOOG	12100	CM91712OODOOG	16900	1
	25-32		CM91612OOEOOG	12100	CM91712OOEOOG	16900	1
	32-40		CM91612OOFOOG	12100	CM91712OOFOOG	16900	1
	40-50		CM91612OOGOOG	12100	CM91712OOGOOG	16900	1
	50-63		CM91612OOHOOG	11700	CM91712OOHOOG	16400	1
	63-80		CM91612OOJOOG	11700	CM91712OOJOOG	16400	1
	80-100		CM91612OOKOOG	11700	CM91712OOKOOG	16400	1
DN1-250C	100-125		CM90638OOLO	16600	CM90642OOLO	20300	1
	125-160		CM90638OOMO	21500	CM90642OOMO	26100	1
	160-200		CM90638OONO	27500	CM90642OONO	32900	1
	200-250		CM90638OOPO	32200	CM90642OOPO	37400	1

Note:

Breaking Capacity : C = 25kA, D = 36kA, N = 50kA, S = 70kA

* DN0-100D/125D : Ics= 50% Icu

** For DN0, DN1, DN3B-Short Circuit Setting: 9In

For DN1-250N (50kA) please contact nearest branch office

*** From 16A to 50A, Fixed Magnetic setting (375A)

d sine DN MCCB with Thermal - Magnetic Release

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	100-125	36	CM92008OOL1OG	28700	CM92108OOL1OG	35500	1
	125-160		CM92008OOM1OG	35500	CM92108OOM1OG	43800	1
	160-200		CM92009OON1OG	36800	CM92109OON1OG	47100	1
	200-250		CM92009OOP1OG	41900	CM92109OOP1OG	51700	1
DN3B-400D	250-320		CM98401OOQOOG	57000	CM98403OOQOOG	69500	1
	320-400		CM98401OOROOG	57000	CM98403OOROOG	69500	1
DN3-400D	250-320		CM94005OOQ1OG	*	CM94105OOQ1OG	*	1
	320-400		CM94005OOR1OG	*	CM94105OOR1OG	*	1
DN3-630D	400-500		CM94006OOS1OG	73400	CM94106OOS1OG	92500	1
	500-630		CM94006OOT1OG	73400	CM94106OOT1OG	92500	1
DN2-250N	100-125	50	CM92005OOL1OG	39900	CM92105OOL1OG	48400	1
	125-160		CM92005OOM1OG	40900	CM92105OOM1OG	51500	1
	160-200		CM92006OON1OG	41800	CM92106OON1OG	52400	1
	200-250		CM92006OOP1OG	47000	CM92106OOP1OG	58900	1
DN3-400N	250-320		CM94003OOQ1OG	61900	CM94103OOQ1OG	76700	1
	320-400		CM94003OOR1OG	61900	CM94103OOR1OG	76700	1
DN3-630N	400-500		CM94004OOS1OG	81500	CM94104OOS1OG	105200	1
	500-630		CM94004OOT1OG	81500	CM94104OOT1OG	105200	1
DN2-250S	100-125	70##	CM92002OOL1OG	*	CM92102OOL1OG	*	1
	125-160		CM92002OOM1OG	*	CM92102OOM1OG	*	1
	160-200		CM92003OON1OG	*	CM92103OON1OG	*	1
	200-250		CM92003OOP1OG	*	CM92103OOP1OG	*	1
DN3-400S	250-320		CM94001OOQ1OG	*	CM94101OOQ1OG	*	1
	320-400		CM94001OOR1OG	*	CM94101OOR1OG	*	1
DN3-630S	400-500		CM94002OOS1OG	*	CM94102OOS1OG	*	1
	500-630		CM94002OOT1OG	*	CM94102OOT1OG	*	1

*** Price on request**

Available till stock lasts.

General Information

- Use of phase barriers is mandatory. These are supplied along with MCCBs
- **It is recommended to use spreader terminals for enhancing termination capacity**
- Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

Special Applications

- dsine-DN/DU/DY MCCBs with TM release can be used for DC application (2P/3P/4P)
- dsine-DN/DU MCCBs can be used for Capacitor back-up protection
- For Motor back-up protection, use 'M' series of MCCBs
- For isolator applications, use SD version (without protection release)

d sine DN MCCB with Microprocessor Release

Rating (A) / Icu (kA)	40	63	100	160	250	400	630	800	1000	1250
36/50/70/100	DN2					DN3				
50/70/100								DN4		

d sine DN MCCB with Microprocessor Release MTX1.0



dsine DN MTX1.0

- Conforms to IS/IEC 60947-2
- 40A to 1250A, 3P & 4P
- 36kA, 50kA, 70kA and 100kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.4 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 8 x Ir
- Inbuilt instantaneous Protection
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Manual & Rotary versions available
- Wide range of accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16-40	36	CM920630OOOX1	48800	CM921550OOOX1	61200	1
	25-63		CM920710OOOX1	48800	CM921540OOOX1	61200	1
	40-100		CM920510OOOX1	48800	CM921530OOOX1	61200	1
	63-160		CM920740OOOX1	61500	CM921520OOOX1	85600	1
	100-250		CM920540OOOX1	64100	CM921510OOOX1	88700	1
DN3-400D	160-400		CM930010OOOX1	78800	CM930030OOOX1	102000	1
DN3-630D	250-630		CM930050OOOX1	87100	CM930070OOOX1	115200	1
DN2-250N	16-40	50	CM920640OOOX1	55500	CM921600OOOX1	73500	1
	25-63		CM920720OOOX1	55500	CM921590OOOX1	73500	1
	40-100		CM920520OOOX1	55500	CM921580OOOX1	73500	1
	63-160		CM920750OOOX1	72000	CM921570OOOX1	93600	1
	100-250		CM920550OOOX1	76900	CM921560OOOX1	95700	1
DN3-400N	160-400		CM930020OOOX1	86100	CM930040OOOX1	112400	1
DN3-630N	250-630		CM930060OOOX1	94600	CM930080OOOX1	123400	1
DN4-1250N	320-800		CM960210OOOX1	136000	CM961110OOOX1	172900	1
	400-1000		CM960220OOOX1	201100	CM961120OOOX1	283100	1
	500-1250		CM960230OOOX1	251100	CM961130OOOX1	339600	1
DN2-250S	16-40	70##	CM920650OOOX1	*	CM921650OOOX1	*	1
	25-63		CM920730OOOX1	*	CM921640OOOX1	*	1
	40-100		CM920590OOOX1	*	CM921630OOOX1	*	1
	63-160		CM920760OOOX1	*	CM921620OOOX1	*	1
	100-250		CM920560OOOX1	*	CM921610OOOX1	*	1
DN3-400S	160-400		CM940530OOOX1	*	CM941530OOOX1	*	1
DN3-630S	250-630		CM940790OOOX1	*	CM941790OOOX1	*	1
DN4-1250S	320-800		CM960250OOOX1	145800	CM961150OOOX1	191000	1
	400-1000		CM960260OOOX1	210000	CM961160OOOX1	309100	1
	500-1250		CM960270OOOX1	271900	CM961170OOOX1	369900	1

Note:
Available till stock lasts.
dsine DN-V Version (Icu=Ics=100kA) MCCBs are available till stock lasts.

d sine DN MCCB with Microprocessor Release MTX2.0



dsine DN MTX2.0

- Conforms to IS/IEC 60947-2
- 40A to 1250A, 3P & 4P
- 36kA, 50kA, 70kA and 100kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.4 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 8 x Ir
- Inbuilt instantaneous Protection
- Inbuilt ground fault protection from 20%-50% of In
- Adjustable neutral overload protection from 50% to 150% of Ir
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Panel mounted display for current metering & trip record
- Manual & Rotary versions available
- Wide range of accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16-40	36	CM92063OOOOAG	83400	CM92155OOOOAG	95900	1
	25-63		CM92071OOOOAG	83400	CM92154OOOOAG	95900	1
	40-100		CM92051OOOOAG	83400	CM92153OOOOAG	95900	1
	63-160		CM92074OOOOAG	90600	CM92152OOOOAG	111200	1
	100-250		CM92054OOOOAG	91800	CM92151OOOOAG	112600	1
DN3-400D	160-400		CM93001OOOOAG	108600	CM93003OOOOAG	125700	1
DN3-630D	250-630		CM93005OOOOAG	118800	CM93007OOOOAG	144000	1
DN2-250N	16-40	50	CM92064OOOOAG	90600	CM92160OOOOAG	108000	1
	25-63		CM92072OOOOAG	90600	CM92159OOOOAG	108000	1
	40-100		CM92052OOOOAG	90600	CM92158OOOOAG	108000	1
	63-160		CM92075OOOOAG	94400	CM92157OOOOAG	114900	1
	100-250		CM92055OOOOAG	95200	CM92156OOOOAG	115800	1
DN3-400N	160-400		CM93002OOOOAG	114000	CM93004OOOOAG	136000	1
DN3-630N	250-630		CM93006OOOOAG	126300	CM93008OOOOAG	162700	1
DN4-1250N	320-800		CM96021OOOOAG	181300	CM96111OOOOAG	215100	1
	400-1000		CM96022OOOOAG	233400	CM96112OOOOAG	309300	1
	500-1250		CM96023OOOOAG	291900	CM96113OOOOAG	377800	1
DN2-250S	16-40	70##	CM92065OOOOAG	*	CM92165OOOOAG	*	1
	25-63		CM92073OOOOAG	*	CM92164OOOOAG	*	1
	40-100		CM92059OOOOAG	*	CM92163OOOOAG	*	1
	63-160		CM92076OOOOAG	*	CM92162OOOOAG	*	1
	100-250		CM92056OOOOAG	*	CM92161OOOOAG	*	1
DN3-400S	160-400		CM94053OOOOAG	*	CM94153OOOOAG	*	1
DN3-630S	250-630		CM94079OOOOAG	*	CM94179OOOOAG	*	1
DN4-1250S	320-800		CM96025OOOOAG	208600	CM96115OOOOAG	260900	1
	400-1000		CM96026OOOOAG	291300	CM96116OOOOAG	379400	1
	500-1250		CM96027OOOOAG	358900	CM96117OOOOAG	470600	1

Accessories for MTX2.0 [8538]

Modules for MTX2.0 release	Cat. No.	M.R.P. (₹) Per Unit
Current Metering Module (Display & Metering Module)##	CM95698OOOO	72700
Cable (2m length)##	CM01196OOOO	3390
Power Supply Module##	CL90722OOOO	*
UNCO Module for Status Indication & Control through communication##	CL90852OOOO	24300

Current Metering & latest trip record

Note:
* Price on request
Available till stock lasts.
dsine DN-V Version (Icu=Ics=100kA) MCCBs are available till stock lasts.

d sine DN MCCB with Microprocessor Release MTX3.0



dsine DN MTX3.0

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 40A to 1250A, 3P & 4P
- Choice of 36kA / 50kA / 70kA / 100kA breaking capacities
- Ics = 100% Icu
- Suitable for Isolation
- Adjustable Over Load from 0.4 - 1.0 x In
- Adjustable Short Circuit from 1.5 - 8 x Ir with selectable time delay
- Instantaneous protection with fine settings
- Inbuilt ground fault protection from 10% - 50% of In
- Adjustable neutral overload protection available : 50% to 150% of Ir
- Advanced Current, Voltage, Frequency & Power based protections
- Other Protections like Maximum Demand, Phase Sequence, THD etc.
- Comprehensive Current, Power, Energy, PF, MD, THD metering
- Provision of Thermal Memory : ON/OFF
- Variable trip class at 1.5 Ir,6 Ir & 7.2 Ir
- Front LED indication of Over Load, short circuit & earth fault
- Panel mounted display available for advanced protections & metering
- Communication capable release
- Manual & Rotary versions available
- For 3 phase 4 wire system, External neutral CTs available for 3P MCCBs
- Wide Range of snap fit Internal and External Accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16 - 40	36	CM920630000BG	*	CM921550000BG	*	1
	25 - 63		CM920710000BG		CM921540000BG		1
	40 - 100		CM920510000BG		CM921530000BG		1
	63 - 160		CM920740000BG		CM921520000BG		1
	100 - 250		CM920540000BG		CM921510000BG		1
DN3-400D	160 - 400		CM930010000BG		CM930030000BG		1
DN3-630D	250 - 630		CM930050000BG		CM930070000BG		1
DN2-250N	16 - 40	50	CM920640000BG	*	CM921600000BG	*	1
	25 - 63		CM920720000BG		CM921590000BG		1
	40 - 100		CM920520000BG		CM921580000BG		1
	63 - 160		CM920750000BG		CM921570000BG		1
	100 - 250		CM920550000BG		CM921560000BG		1
DN3-400N	160 - 400		CM930020000BG		CM930040000BG		1
DN3-630N	250 - 630		CM930060000BG		CM930080000BG		1
DN4-1250N	320 - 800		CM960210000BG		CM961110000BG		1
	400 - 1000		CM960220000BG		CM961120000BG		1
	500 - 1250		CM960230000BG		CM961130000BG		1
DN2-250S	16 - 40	70##	CM920650000BG	*	CM921650000BG	*	1
	25 - 63		CM920730000BG		CM921640000BG		1
	40 - 100		CM920590000BG		CM921630000BG		1
	63 - 160		CM920760000BG		CM921620000BG		1
	100 - 250		CM920560000BG		CM921610000BG		1
DN3-400S	160 - 400		CM940530000BG		CM941530000BG		1
DN3-630S	250 - 630		CM940790000BG		CM941790000BG		1
DN4-1250S	320 - 800		CM960250000BG		CM961150000BG		1
	400 - 1000		CM960260000BG		CM961160000BG		1
	500 - 1250		CM960270000BG		CM961170000BG		1

Accessories for MTX3.0 [8538]

Modules for MTX3.0 release	Cat. No.	M.R.P. (₹) Per Unit
Communication Module##	CM956800000	*
Voltage Module##	CM956850000	*
Display Module##	CM956760000	*
Power Supply Module##	CL907220000	*
UNCO Module for Status Indication & Control through communication##	CL908520000	24300

Note:
* Price on request
Available till stock lasts.
dsine DN-V Version (Icu=Ics=100kA) MCCBs are available till stock lasts.

d sine DN MCCBs for Motor back-up Protection##



- Range: 32A to 630A, 50kA
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

3 Pole					
Type	Current Rating (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN0-100M	32	50	CM98944OOEO	*	1
	40		CM98944OOFO	*	1
	50		CM98944OOGO	*	1
	63		CM98944OOHO	*	1
	80		CM98944OOJO	*	1
	100		CM98944OOKO	*	1
DN1-160M	100		CM90345OOKO	*	1
	125		CM90345OOLO	*	1
	160		CM90345OOMO	*	1
DN2-250M	200		CM92171OONOOG	*	1
	250		CM92171OOPOOG	*	1
DN3-400M	320		CM94516OOQOOG	*	1
	400		CM94516OOROOG	*	1
DN3-630M	500		CM94515OOSOOG	*	1
	630		CM94515OOTOOG	*	1



Representative Application Image

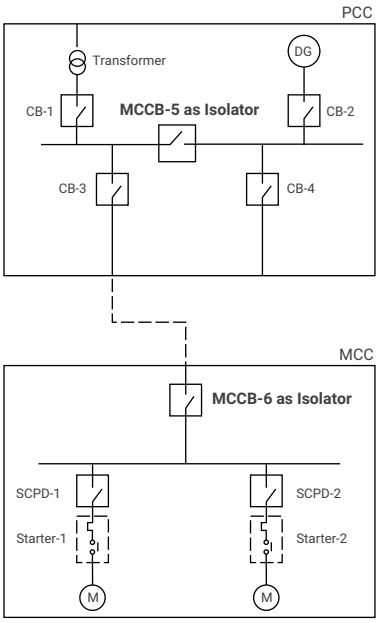
*** Price on request**

Note:
Please contact nearest branch office for fuseless type 2 co-ordination selection chart
For lower HP Motors, Please select MMS. Details are given on page no.21
dsine-DN M version MCCBs are available till stock lasts.
Available till stock lasts.

d sine DN Switch Disconnector - SD (MCCBs without protection release)



- Used as switching devices for isolation
- Range: 32A to 1250A, 3P & 4P
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

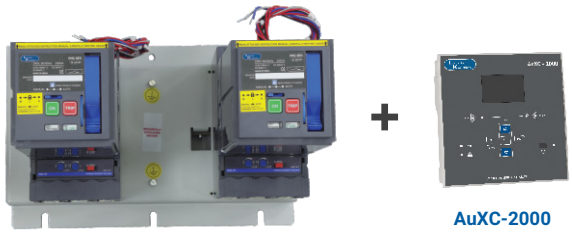


Representative Application Image

Type	Current Rating (A)	3 Pole		4 Pole		Std. Pkg. (Nos.)
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-160SD	32	CM90716OOEO	10500	CM90717OOEO	14100	1
	63	CM90716OOHO	10500	CM90717OOHO	14100	1
	100	CM90716OOKO	12400	CM90717OOKO	16400	1
	125	CM90716OOLO	13800	CM90717OOLO	18300	1
	160	CM90716OOMO	14900	CM90717OOMO	19400	1
DN2-250SD	200	CM96814OONOOG	29800	CM96815OONOOG	39700	1
	250	CM96802OOPOOG	32100	CM96803OOPOOG	42500	1
DN3B-400SD	320	CM98410OOQOOG	47400	CM98412OOQOOG	61500	1
	400	CM98410OOROOG	47400	CM98412OOROOG	61500	1
DN3-630SD	500	CM96806OOSOOG	53700	CM96807OOSOOG	73400	1
	630	CM96806OOTOOG	53700	CM96807OOTOOG	73400	1
DN4-1250SD	800	CM93041OOUO	107300	CM93042OOUO	132100	1
	1000	CM93041OOVO	142500	CM93042OOVO	182400	1
	1250	CM93041OOAO	189000	CM93042OOAO	234300	1

Automatic Source Transfer System (ASTS)**

- 128x80 pixel, backlit LCD screen with 4 grey levels
- Advanced programmable I/O function
- Management of automatic generator start/stop
- Controls of UV, OV, phase loss, asymmetry, minimum frequency, maximum frequency, with independent enabling and time delay



AuXC-2000

Automatic Transfer Controllers (ATC) [9032]

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC20000OOO	52600	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

Note:
** For communication version of AuXC controller refer page no-6

2 d sine MCCBs + 2 SE-EOM + 2 ATAC + 1 MIL kit

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here

Frame	Accessories	Total Set M.R.P. (₹)	Remarks
DN2	2 Nos : SEOMs with Aux + Trip Alarm Contact + 1 No. : MIL + 1 No. : AuXC2000	*	Add MRPs of Similar 2 MCCBs of DN2 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-400		*	Add MRPs of Similar 2 MCCBs of DN3 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-630		*	

* **Price on request**

Note:
Picture shown is for representation purpose only, MCCB + EOM + ATAC combination, MIL kit & AuXC-2000 to be purchased separately & assembled at site.
dsine-DN COMBO MCCBs are available till stock lasts.
For ASTS Solution in MCCB, please refer DZ range.

Accessories for dsine DN MCCBs [8538]


Auxiliary Contact


TAC


Shunt Release


UV Release


Neutral CT

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978860000	1650	1
DN0, DN1 - 2 C/O - Right	CM978870000	2910	1
DN2, DN3B, DN3, DN4 - 1 C/O	CM998010000	1920	1
DN2, DN3B, DN3, DN4 - 2 C/O	CM998020000	3710	1
Trip Alarm Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978880000	1650	1
DN0, DN1 - 2 C/O - Right	CM978890000	2910	1
DN2, DN3B, DN3, DN4 - 1 C/O - Right	CM998030000	2010	1
Auxiliary 1 C/O + TAC 1 C/O [8538]			
DN0, DN1 - Right	CM978900000	2800	1
DN2, DN3B, DN3, DN4 - Right	CM998040000	3710	1
Shunt Release [8538]			
DN0, DN1 - 24V DC - Left	CM914020400	3260	1
DN0, DN1 - 110V AC - Left	CM978830A00	3260	1
DN0, DN1 - 240/415V AC - Left	CM978830M00	3260	1
DN2, DN3 - 110V DC - Left	CM998070000	5760	1
DN2, DN3B, DN3, DN4 - 110/240/415V AC,220V DC	CM998050000	4800@	1
DN2, DN3B, DN3 - 24V DC	CM989760400	4800@	1
Under Voltage Release [8538]			
DN0, DN1 - 240V AC - Left	CM97892B000	5400	1
DN2, DN3B, DN3 - 240V AC - Left	CM99986B000	6680**	1
DN4 - 240V AC - Left	CM999060000	7630**	1

@ - 'NO' of control contactor to be connected in series for DC control supply
** Use these UV Cat. Nos. with Grey look MCCBs only

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
DN2 - 40A	CM999460000	3110	1
DN2 - 63A	CM999470000	3110	1
DN2 - 100A	CM999480000	3110	1
DN2 - 160A	CM999490000	4470	1
DN2 - 250A	CM999500000	4470	1
DN3 - 400A	CM999540000	9130	1
DN3 - 630A	CM999550000	9130	1
DN4 - 800A	CM998890000	14000	1
DN4 - 1000A	CM998900000	14600	1
DN4 - 1250A	CM998910000	16200	1
Adaptor kit for External Neutral CT [8538]			
DN2 - 250	CM999940000	1410	Set of 2
DN3 - 400	CM999950000	2600	Set of 2
DN3 - 630	CM999970000	2850	Set of 2
DN4 - 800	CM999960000	6990	Set of 2
DN4 - 1000	CM909660000	14800	Set of 4
DN4 - 1250	CM999980000	25400	Set of 2

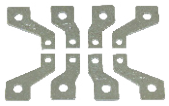

Direct ROM


Extended ROM


Key Lock

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Rotary Handle [8538]			
DN0 Direct ROM	CM978950000	2100	1
DN1 Direct ROM	CM980400000	2260	1
DN2 Direct ROM	CM998290000	2330	1
DN3B, DN3 Direct ROM	CM998600000	3480	1
DN0 Extended ROM	CM978960000	2720	1
DN1 Extended ROM	CM980410000	2900	1
DN2 Extended ROM	CM998300000	3500	1
DN3B, DN3 Extended ROM	CM998610000	5720	1
DN4 Extended ROM	CM998840000	7260	1
Panel door mounted Key lock for Extended ROM # [8301]			
Type 1	CM99958T0000	9670	1
Type 2	CM99958T000A	9670	1
Type 3	CM99958T000B	9670	1
Type 12	CM99958T000C	9670	1
Type 23	CM99958T000D	9670	1

- Can be used with dsine DN & DU new look extended ROM

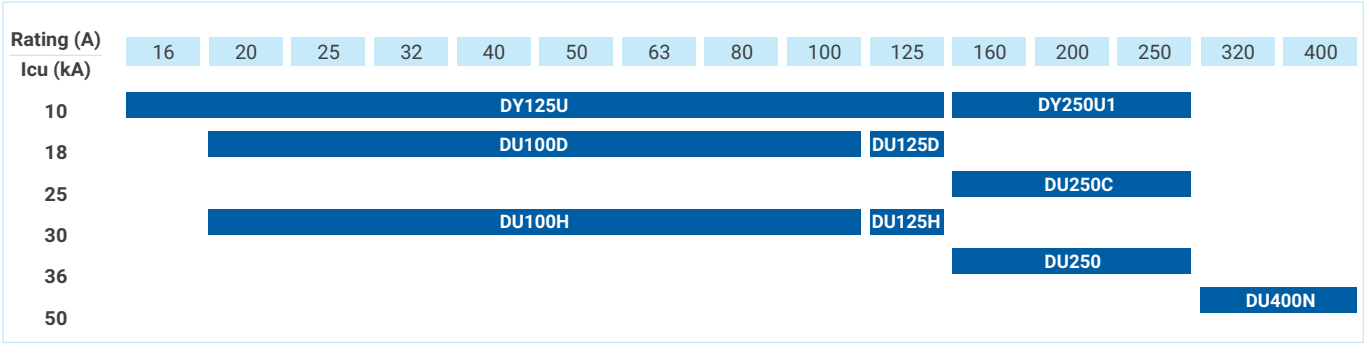

Spreader Terminals


MIL Kit - Base Mounted

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals [8538]			
DN0-100 - 3 Pole	CM977850000	770	Set of 6
DN0-125D - 3 Pole	CM906870OLO	900	Set of 6
DN1, DN2 - 250 - 3 Pole	ST980530000	3000	Set of 6
DN3B/DN3 - 400 - 3 Pole	ST980650000	5520	Set of 6
DN3-630 - 3 Pole	ST980540000	6500	Set of 6
DN4-800 - 3 Pole	CM911610OUO	16600	Set of 6
DN4-1000 - 3 Pole	CM911610OVO	24500	Set of 6
DN4-1250 - 3 Pole	CM911610OAO	68300	Set of 6
DN0-100 - 4 Pole	CM979210000	1200	Set of 8
DN0-125D - 4 Pole	CM906880OLO	1310	Set of 8
DN1, DN2 - 250 - 4 Pole	CM920070000	3980	Set of 8
DN3B/DN3-400 - 4 Pole	ST980660000	7910	Set of 8
DN3-630 - 4 Pole	CM920040000	8250	Set of 8
DN4-800- 4 Pole	ST903620000	21300	Set of 8
DN4-1000- 4 Pole	CM900640OVO	32300	Set of 8
DN4-1250 - 4 Pole	ST980580000	87200	Set of 8
Mechanical Interlock Kit - Base Plate [8538]			
DN2-250	CM997310000	11000	1
DN3-400	CM997320000	16800	1
DN3-630	CM998540000	18000	1
DIN rail kit [8538]			
DN0	CM909440000	250	1

Note:
Phase Barriers are supplied along with MCCBs

DU/DY with Thermal - Magnetic Release :



DY125U MCCBs



- Conforms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2
- Range: 16A to 125A, 2P/3P/4P
- Ics=100% of Icu
- High Electrical & Mechanical life
- Thermal Magnetic Release
- No Load-Line Bias
- ON-TRIP-OFF indication
- Suitable for Isolation
- Common SS Enclosure for 3P & 4P

Type	Current Rating (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DY125U	16	AC : 25kA @ 240V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (2P in series)	EM90982OOBO	2900	AC : 10kA @ 415V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (3P in series)	EM90983OOBO	3410	EM90984OOBO	4590	1
	20		EM90982OOCO	2900		EM90983OOCO	3410	EM90984OOCO	4590	1
	25		EM90982OODO	2900		EM90983OODO	3410	EM90984OODO	4590	1
	32		EM90982OOEO	2900		EM90983OOEO	3410	EM90984OOEO	4590	1
	40		EM90982OOFO	2900		EM90983OOFO	3410	EM90984OOFO	4590	1
	50		EM90982OOGO	2900		EM90983OOGO	3410	EM90984OOGO	4590	1
	63		EM90982OOHO	2820		EM90983OOHO	3310	EM90984OOHO	4460	1
	80		EM90982OOJO▲	3100		EM90983OOJO▲	3730	EM90984OOJO ▲	5150	1
			EM90812OOJO	2820		EM90813OOJO	3310	EM90814OOJO	4460	1
	100		EM90982OOKO▲	3100		EM90983OOKO▲	3730	EM90984OOKO ▲	5150	1
			EM90812OOKO	2820		EM90813OOKO	3310	EM90814OOKO	4460	1
	125		EM90982OOLO▲	4330		EM90983OOLO▲	5480	EM90984OOLO ▲	6720	1

▲- Spreader Terminals are included
Note: 2 Pole in 3 Pole frame size
Phase barriers are supplied with all MCCBs

Accessories for DY125U MCCBs [8538]



Auxiliary/Trip Alarm Contact



Shunt Release



Spreader Terminals



Direct ROM



Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary/Trip Alarm Contact			
1C/O	EM909660OOO	1150	1
Shunt Release			
Short Rated 110/240/415V AC	EM905200MOO	1560	1
Under Voltage Release			
240V AC	EM90518BOOO	4690	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole (upto 100A)	CM977850OO2	460	Set of 4
3 Pole (upto 100A)	CM977850OOO	770	Set of 6
4 Pole (upto 100A)	CM979210OOO	1200	Set of 8
Rotary Handle			
Direct ROM	EM909690OOO	2130	1
Extended ROM	EM909700OOO	3060	1
SS Enclosure			
Size I Enclosure for 3P & 4P	CM909960OOO	4110	1

3 Pole / 4 Pole MCCBs
DU100D/DU125D MCCBs



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 20A to 125A, 3P & 4P
- Ics=100% of Icu
- Compact size
- Common SS Enclosure for 3P & 4P
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100D	16-20	18	CM90517OOCO	6920	CM90518OOCO	8480	1
	20-25		CM90517OODO	6920	CM90518OODO	8480	1
	25-32		CM90517OOEO	6920	CM90518OOEO	8480	1
	32-40		CM90517OOFO	6920	CM90518OOFO	8480	1
	40-50		CM90517OOGO	6920	CM90518OOGO	8480	1
	50-63		CM90517OOHO	6720	CM90518OOHO	8230	1
	63-80		CM90517OOJO	6720	CM90518OOJO	8230	1
	80-100		CM90517OOKO	6720	CM90518OOKO	8230	1
DU125D	100-125		CM90676OOLO	8140	CM90677OOLO	10200	1

Note:
DIN rail kit available as an accessory. Please refer DU100D/DU125D accessories table.

2 Pole / 3 Pole / 4 Pole MCCBs
DU100H/DU125H MCCBs



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 20A to 125A, 2P, 3P & 4P
- Compact size
- Common SS Enclosure for 2P, 3P & 4P
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100H	16-20	AC : 65kA @ 240V AC, 50Hz DC : 15kA @ 250V DC, (2P in Series) L/R < 15 msec.	CM97898OOC2	5560	30	CM97894OOC2	7770	CM97933OOC2	10300	1
	20-25		CM97898OOD2	5560		CM97894OOD2	7770	CM97933OOD2	10300	1
	25-32		CM97898OOE2	5560		CM97894OOE2	7770	CM97933OOE2	10300	1
	32-40		CM97898OOF2	5560		CM97894OOF2	7770	CM97933OOF2	10300	1
	40-50		CM97898OOG2	5560		CM97894OOG2	7770	CM97933OOG2	10300	1
	50-63		CM97898OOH2	5400		CM97894OOH2	7540	CM97933OOH2	10000	1
	63-80		CM97898OOJ2	5400		CM97894OOJ2	7540	CM97933OOJ2	10000	1
	80-100		CM97898OOK2	5400		CM97894OOK2	7540	CM97933OOK2	10000	1
DU125H	100-125		CM91198OOLO	8380		CM90678OOLO	8780	CM90679OOLO	11400	1

Note: 2 Pole in 3 pole frame size

DIN rail kit available as an accessory. Please refer DU100H/DU125H accessories table.

Accessories for DU100D/DU125D/DU100H/DU125H MCCBs [8538]



Auxiliary Contact



ATAC



Shunt Release



UV Release



Spreader Terminals



Direct ROM



Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM97886OOOO	1650	1
2 C/O - Right	CM97887OOOO	2910	1
Trip Alarm Contact			
1 C/O - Right	CM97888OOOO	1650	1
2 C/O - Right	CM97889OOOO	2910	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890OOOO	2800	1
Shunt Release			
24V DC - Left	CM914020400	3260	1
110V AC - Left	CM97883OAOO	3260	1
240/415V AC - Left	CM97883OMOO	3260	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	5400	1

Description		External		
		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals				
DU100H - 2 Pole		CM97785OOO2	460	Set of 4
DU125H - 2 Pole		CM91199OOLO	580	Set of 4
DU100D/DU100H - 3 Pole		CM97785OOOO	770	Set of 6
DU125D/DU125H - 3 Pole		CM90687OOLO	900	Set of 6
DU100D/DU100H - 4 Pole		CM97921OOOO	1200	Set of 8
DU125D/DU125H - 4 Pole		CM90688OOLO	1310	Set of 8
Rotary Handle				
DU100D/DU125D/ DU100H/DU125H	Direct ROM	CM97895OOOO	2100	1
	Extended ROM	CM97896OOOO	2720	1
DIN rail kit				
DU100D/DU125D/DU100H/DU125H		CM90944OOOO	250	1
SS Enclosure				
Size I Enclosure		CM90996OOOO	4110	1

Note: Phase Barriers are supplied along with all MCCBs

2 Pole / 3 Pole / 4 Pole MCCBs
DY250U1/DU250C/DU250/DU400N MCCBs



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 160A to 400A, 2P, 3P & 4P
- Common SS Enclosure for 2P, 3P & 4P*
- Compact size
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DY250U1	125-160	–	–	–	10	CM98195OOMO▲	10600	CM98196OOMO▲	13100	1
	160-200					CM98195OONO▲	11300	CM98196OONO▲	14600	1
	200-250					CM98195OOPO▲	14600	CM98196OOPO▲	19700	1
DU250C	125-160	–	–	–	25	CM90631OOMO	11900	CM90634OOMO	15200	1
	160-200					CM90631OONO	14400	CM90634OONO	18300	1
	200-250					CM90631OOPO	15800	CM90634OOPO	20900	1
DU250	125-160	AC : 65kA @ 240V AC, 50Hz DC : 15kA for DU250 @250V DC & 25kA for DU400N @ 250V DC, (2P in Series) L/R < 15 msec.	CM90905OOMO	10400	36	CM98062OOOO	13800	CM98065OOMO	17100	1
	160-200		CM90905OONO	12000		CM98061OOOO	16900	CM98065OONO	22900	1
	200-250		CM90905OOPO	13400		CM98060OOOO	19000	CM98065OOPO	25100	1
DU400N	250-320		CM90886OOQO	26400	50	CM98402OOQO	30900	CM98404OOQO	38000	1
	320-400		CM90886OORO	26400		CM98402OORO	30900	CM98404OORO	38000	1

▲- Spreader Terminals are included
Note: 2 Pole in 3 Pole frame size * For DU250/DU250C

Accessories for DY250U1/DU250/DU250C MCCBs [8538]

Description	Internal			External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact						
1 C/O - Right	CM97886OOOO	1650	1			
2 C/O - Right	CM97887OOOO	2910	1			
Trip Alarm Contact						
1 C/O - Right	CM97888OOOO	1650	1			
2 C/O - Right	CM97889OOOO	2910	1			
Auxiliary + Trip Alarm Contact						
1 C/O + 1C/O - Right	CM97890OOOO	2800	1			
Shunt Release						
24V DC - Left	CM91402O4OO	3260	1			
110V AC - Left	CM97883OAOO	3260	1			
240/415V AC - Left	CM97883OMOO	3260	1			
Under Voltage Release						
240V AC - Left	CM97892BOOO	5400	1			
Spreader Terminals						
DU250 - 2 Pole				CM909600OOO	2340	Set of 4
DU250C/DU250 - 3 Pole				ST980530OOO	3000	Set of 6
DU250C/DU250 - 4 Pole				CM920070OOO	3980	Set of 8
Rotary Handle						
Direct ROM				CM980400OOO	2260	1
Extended ROM				CM980410OOO	2900	1
SS Enclosure						
Size II Enclosure				CM910030OOO	9440	1

Note: Phase Barriers are supplied along with all MCCBs

Accessories for DU400N MCCBs [8538]


Auxiliary Contact


TAC


Shunt Release


UV Release


Spreader Terminals

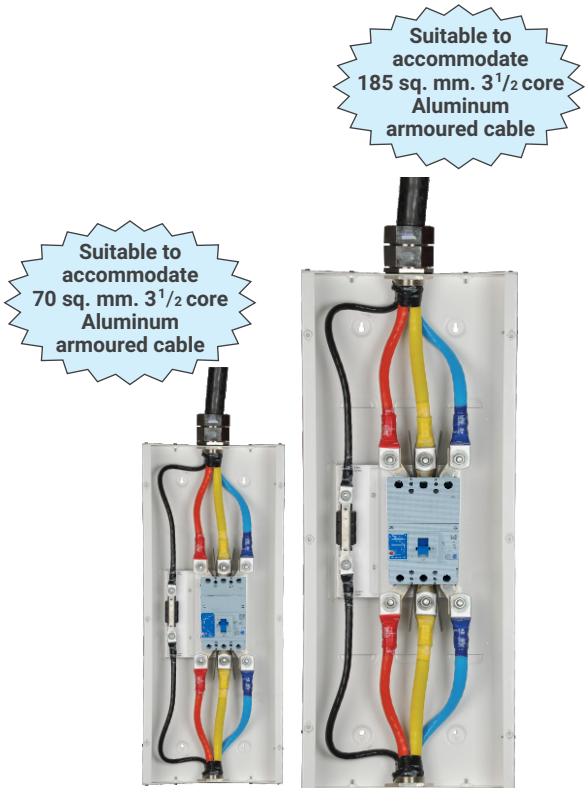

Direct ROM


Extended ROM

Description	Internal			External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact						
1 C/O	CM998010OOO	1920	1			
2 C/O	CM998020OOO	3710	1			
Trip Alarm Contact						
1 C/O - Right	CM998030OOO	2010	1			
Auxiliary + Trip Alarm Contact						
1 C/O + 1C/O - Right	CM998040OOO	3710	1			
Shunt Release						
110/240/415V AC, 220V DC	CM998050OOO	4800@	1			
24V DC	CM989760400	4800@	1			
Under Voltage Release						
240V AC - Left	CM99986BOOO	6680	1			
Spreader Terminals						
2 Pole				CM909640OOO	3610	Set of 4
3 Pole				ST980650OOO	5520	Set of 6
4 Pole				ST980660OOO	7910	Set of 8
Rotary Handle						
Direct ROM				CM998600OOO	3480	1
Extended ROM				CM998610OOO	5720	1

Note:
Phase Barriers are supplied along with all MCCBs
All internal accessories & ROMs are common for 2P MCCBs
@- 'NO' of control contactor to be connected in series for DC control supply

SS Enclosure for MCCBs [8538]



Size I & Size II Enclosures

Perfect home for your MCCB

- Superior Aesthetics
- Common Enclosure for 3P and 4P MCCBs
- Generous space for cable termination
- In-built neutral Link for TPN system
- IK08 and IP30 Protection
- Mounting holes for easy wall mounting
- Louvers for better heat dissipation
- Effortless Installation
- Size I suitable up to 125A MCCBs, 36kA
- Size II suitable from 160A to 250A MCCBs, 50kA

Separate cable gland box NOT required



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Size I Enclosure for DU100H/DU125H/ DU100D/DU125D/DN0/DY125U	**CM909960000**	**4110**	1
Size II Enclosure for DY250U1/DU250C/DU250/DN1	**CM910030000**	**9440**	1



Easy wall Mounting



In-built Neutral Link

Better Heat Dissipation

Note:
Pictorial is for representation purpose only.
Does not include cabling. MCCB to be purchased separately.

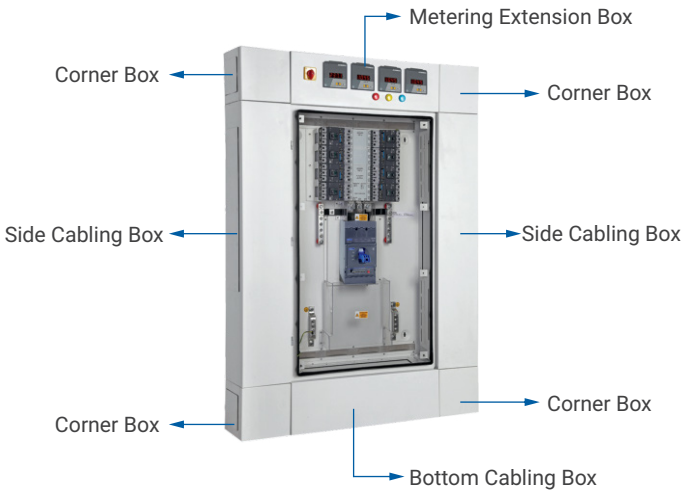
Ground Fault Module [8538]



- Provides protection against ground fault
- GF Module for ground fault protection can be used with all Thermal Magnetic MCCBs
- Adjustable ground fault sensitivity selection: 10% - 50% of In
- Adjustable time delay: 100ms / 200ms
- Test facility to check healthiness of ground fault protection system without tripping MCCB
- Suitable for 3 phase 3 wire & 3 phase 4 wire electrical distribution network with cable termination
- LED for earth fault indication

Ground Fault Protection					
Type	Range (A)	Cat. No.	M.R.P. (₹) Per Unit	CT	Std. Pkg. (Nos.)
GF1	100 - 200A	**ST277450000**	**16400**	Built in CBCT	1
GF2	200 - 400A	**ST277460000**	**24200**	Built in CBCT	1
GF11	up to 800A	**ST285940000**	**14600**#	External CT required	1

External CTs of 5P10 class with secondary rating of 1A or 5A



Range Highlights

- Sub Main Distribution Board (SMDB) with MCCB as incomer and MCCBs as outgoing devices
- Conforms to IEC 61439-2
- DEKRA and ASTA certified
- Rating up to 630 A
- Short-time withstand current
  - » 250A & 400A SMDB - 36 kA 1s
  - » 630A SMDB - 50 kA 1s
- Ingress protection - IP 43
- Choice in number of outgoing ways - 4, 8, 12 and 16
- Ready to use, off the shelf solution
- Suitable for d sine range of MCCBs
- Metering & cabling extensions are available as accessories

ENERSYS-S SMDB

Description	Cat. No.	No of ways		M.R.P. (₹) Per Unit	Height (H) (mm)	Width (W) (mm)	Depth (D) (mm)
		250A	100A				
SMDB - TN250D, O/G 100A 4 ways	**DA20D1044CZZ0**	-	4	**56450**	637	670	208.5
SMDB - TN250D, O/G 100A 8 ways	**DA20D1084CZZ0**	-	8	**68655**	787	670	208.5
SMDB - TN250D, O/G 100A 12 ways	**DA20D1124CZZ0**	-	12	**86355**	937	670	208.5
SMDB - TN250D, O/G 100A 16 ways	**DA20D1164CZZ0**	-	16	**101490**	1087	670	208.5
SMDB - TN400D, O/G 100A 4 ways	**DA40D1044CZZ0**	-	4	**63250**	937	670	208.5
SMDB - TN400D, O/G 100A 8 ways	**DA40D1084CZZ0**	-	8	**72070**	1087	670	208.5
SMDB - TN400D, O/G 100A 12 ways	**DA40D1124CZZ0**	-	12	**92670**	1237	670	208.5
SMDB - TN400D, O/G 100A 16 ways	**DA40D1164CZZ0**	-	16	**109225**	1387	670	208.5
SMDB - TN630D, O/G 100A 8 ways	**DA60D1084CZZ0**	-	8	**119500**	1287	870	208.5
SMDB - TN630D, O/G 100A 12 ways	**DA60D1124CZZ0**	-	12	**161385**	1507	870	208.5
SMDB - TN630D, O/G 100A 16 ways	**DA60D1164CZZ0**	-	16	**176900**	1507	870	208.5
SMDB - TN630D, O/G 250A 4 ways	**DA62D1044CZZ0**	4	-	**116380**	1067	870	208.5
SMDB - TN630D, O/G 250A 8 ways	**DA62D1084CZZ0**	8	-	**130345**	1287	870	208.5
SMDB - TN630D, O/G 250A 12 ways	**DA62D1124CZZ0**	12	-	**167590**	1507	870	208.5
SMDB - TN630D, O/G 250A 16 ways	**DA62D1164CZZ0**	16	-	**187765**	1727	870	208.5
SMDB - TN630D, O/G COMBI 4 ways	**DA6AD1044CZZ0**	2	2	**114055**	1067	870	208.5
SMDB - TN630D, O/G COMBI 8 ways	**DA6AD1084CZZ0**	2	6	**124140**	1287	870	208.5
SMDB - TN630D, O/G COMBI 12 ways	**DA6AD1124CZZ0**	2	10	**164485**	1507	870	208.5
SMDB - TN630D, O/G COMBI 16 ways	**DA6AD1164CZZ0**	2	14	**181550**	1507	870	208.5

Incoming Device [8536]

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D*	DN1-250C 3 Pole MCCB - 160A	**CM90638OOMO**	**21500**
	DN1-250C 3 Pole MCCB - 200A	**CM90638OONO**	**27500**
	DN1-250C 3 Pole MCCB - 250A	**CM90638OOPO**	**32200**
TN400D	DN3-400D 3 Pole MCCB - 320A	**CM94005OOQ1OG**	*
	DN3-400D 3 Pole MCCB - 400A	**CM94005OOR1OG**	*
TN630D	DN3-630D 3 Pole MCCB - 500A	**CM94006OOS1OG**	**73400**
	DN3-630D 3 Pole MCCB - 630A	**CM94006OOT1OG**	**73400**

Note:

- While ordering SMDB, incoming and outgoing MCCBs have to be ordered separately.
- Prices of MCCBs are not included in SMDB prices.

* TN250D - Suitable for DN1-250N, DU250 & DU250C MCCB as incomer.

Price on Request.

Outgoing Device [8536]

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D, TN400D & TN630D	DN0-100C 3 Pole MCCB - 20A	**CM91612OOCOOG**	**12100**
	DN0-100C 3 Pole MCCB - 25A	**CM91612OODOOG**	**12100**
	DN0-100C 3 Pole MCCB - 32A	**CM91612OOEOOG**	**12100**
	DN0-100C 3 Pole MCCB - 40A	**CM91612OOFOOG**	**12100**
	DN0-100C 3 Pole MCCB - 50A	**CM91612OOGOOG**	**12100**
	DN0-100C 3 Pole MCCB - 63A	**CM91612OOHOOG**	**11700**
	DN0-100C 3 Pole MCCB - 80A	**CM91612OOJOOG**	**11700**
	DN0-100C 3 Pole MCCB - 100A	**CM91612OOKOOG**	**11700**
TN630D	DN1-250C 3 Pole MCCB - 160A	**CM90638OOMO**	**21500**
	DN1-250C 3 Pole MCCB - 200A	**CM90638OONO**	**27500**
	DN1-250C 3 Pole MCCB - 250A	**CM90638OOPO**	**32200**

DN0, DU100D & DU100H MCCBs are suitable as outgoing devices up to 100A
DN1-250N, DU250 & DU250C MCCBs are suitable as outgoing devices up to 250A

Metering, Bottom Cabling & Corner Box

› Provision of 3 nos of 1-phase ammeter (96*96), 1 nos of 1-phase voltmeter (96*96) with selector switch and indicating lamps.

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D & TN400D	Metering Extension Box	CM90439OOPO	8715
	Bottom Cabling Box	CM904370OOO	8170
TN630D	Metering Extension Box	CM91064OOTO	9190
	Bottom Cabling Box	CM91062OOOO	8640
TN250D, TN400D & TN630D	Corner Box	CM91089OOOO	3035
	Mounting base	CM702600OOO	4095



Note:

› Ammeter, voltmeter, selector switch and indicating lights have to be ordered separately.

› Mounting base to be used without bottom cabling box.

Side Cabling Box

SMDB Type	No. of Ways		Left		Right	
	250A	100A	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
TN250D	-	4	CM91085ODOO	8360	CM91086ODOO	8360
	-	8	CM91085OFOO	10795	CM91086OFOO	10795
	-	12	CM91085OHOO	12935	CM91086OHOO	12935
	-	16	CM91085OKOO	15100	CM91086OKOO	15100
TN400D	-	4	CM91087ODOO	12935	CM91088ODOO	12935
	-	8	CM91087OFOO	15100	CM91088OFOO	15100
	-	12	CM91087OHOO	16540	CM91088OHOO	16540
	-	16	CM91087OKOO	18690	CM91088OKOO	18690
TN630D	-	8	CM91120OOFO	15665	CM91121OOFO	15665
	-	12	CM91120OOHO	18250	CM91121OOHO	18250
	-	16				
	4	-	CM91120OODO	14040	CM91121OODO	14040
	8	-	CM91120OOFO	15665	CM91121OOFO	15665
	12	-	CM91120OOHO	18250	CM91121OOHO	18250
	16	-	CM91120OOKO	19885	CM91121OOKO	19885
	2	2	CM91120OODO	14040	CM91121OODO	14040
	2	6	CM91120OOFO	15665	CM91121OOFO	15665
	2	10	CM91120OOHO	18250	CM91121OOHO	18250
	2	14				



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- Highest Safety with MTX Protection and Control Unit
- Full Uptime with Dual Protection Set Group
- Easy Maintenance with Tool Less Arc Chute Removal
- Superior Performance With Double Short Circuit Protection
- Remote Monitoring & Control with Digicom Module
- Advanced Protection with ERMS (Energy Reduction Maintenance Settings)



In-built Industrial Communication Protocol
(MODBUS TCP/IP - ETHERNET/MODBUS RS485/PROFIBUS)





U-POWER OMEGA Air Circuit Breakers Range of Air Circuit Breakers

- Complete range conforms to IS/IEC 60947-2 & IEC 60947-2
- Current Rating from **400A to 6300A in 3 Frame sizes** for application voltages **upto 690V AC**
- Special ACB range available for Voltage Applications **upto 800V AC and 1000V AC#**
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed/Draw-out version
- Common Height & Depth across the range
- High short time fault withstand capacity, Icu = Ics = Icw for 1 sec for total selectivity
- High mechanical and electrical operating life
- Neutral pole is 100% rated, option of 50% & 200% rated neutral also available
- Available in standard NRYB & RYBN/NBYR/BYRN configurations in 4 Pole ACBs **with on-site change facility**
- In-built Electrical & Mechanical Anti-Pumping
- Modular & snap-fit accessories
- Ease of on-site conversion from Fixed to Draw-out version
- Pollution Degree 4 suitability
- Best in Class Overlap with Bus bars
- Break Time of 25msec
- RoHS Compliant

Matrix Protection & Control Units:

- Available in versions - MTX1.0/1G/1Gi/1.5G/1.5Gi, MTX3.5/3.5EC/3.5H & MTX 3.5T/MTX 3.5ET/3.5A
- Unique O-LED display for metering
- Unique withdrawable Communication & Power metering modules
- Dual protection curve settings & Password protection
- Soft-rating plug for precise protection at lower load currents
- Provision for on-load self-diagnosis of Releases & modules
- Data communication on Modbus RTU, Modbus TCP/IP (ETHERNET), Profibus & wireless Zigbee protocols
- Power & Harmonics measurement
- Temperature rise monitoring & protection
- Easy to integrate with HMI & PLC
- Add-on modules for advance protections
- Protection Releases conform to EMI/EMC standard



UW-MTX1G/1Gi



UW-MTX1.5G/1.5Gi



UW-MTX3.5/3.5EC/3.5H



New Integrated MODBUS TCP/IP (ETHERNET) Communicable ACB

Breaking Capacities Offered:

at 415V/440V AC (Please refer Catalogue for Breaking Capacities above 440V AC)

Icu = Ics = Icw for 1 sec

	Rated current	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
Frame-1	N : 50kA										
	S : 65kA										
	H : 80kA										
		UW1-08	UW1-10	UW1-12	UW1-16	UW1-20	UW1-25				
Frame-2	N : 50kA										
	S : 65kA										
	H : 80kA										
		UW2-08	UW2-10	UW2-12	UW2-16	UW2-20	UW2-25	UW2-32	UW2-40		
Frame-3	H : 80kA										
	V : 100kA										
		UW3-08	UW3-10	UW3-12	UW3-16	UW3-20	UW3-25	UW3-32	UW3-40	UW3-50	UW3-63

Note: 400A & 630A ACBs are also available on request. # Please contact the nearest branch office for more details of 1000V AC ACBs

U-POWER OMEGA Air Circuit Breakers ACB ordering information:

UW	1	08	N	X	D	1	2	9	0	0#	UW1 800N 3P ED 1.5G BotV

Frame Size	
Frame - I	***1***
Frame - II	2
Frame - III	3

Current Ratings	
400A	04
630A	06
800A	***08***
1000A	10
1250A	12
1600A	16
2000A	20
2500A[4]	25
3200A	32
4000A	40
5000A	50
6300A	63

Selection for Breaking Capacity (Icu=Ics)[1]	
50kA (Fr-I upto 2000A & Fr-II upto 4000A)	***N***
65kA (Fr-I & Fr-II)	S
80kA (Fr-I, Fr-II & Fr-III)	H
100kA (Fr-III)	V

Type	
Manually Operated	1
Electrically Operated	***2***

Version	
Draw-out	***D***
Fixed	F
Cradle/Fixed Part [7]	C
Breaker/Moving Part	B

Selection for Termination **(For Drawout ACBs Only)**	
Standard Termination	0
For Top Horizontal (Long), Bottom Vertical for Fr2 & Fr3	X
For Top & Bottom Horizontal (Long) for Fr3	Y
Note: X is applicable for 4000A (Fr2 & Fr3) and 5000A (Fr3). Y is applicable for 4000A (Fr3) & 5000A (Fr3). X & Y recommended for Buscoupler only.	
For 800V AC Application	ZM
For 1000V AC Application	ZH

Temperature Rise Monitoring[3]	
Not Required	**0**
Required	1

Selection for P&C Units	
B/C (w/o protection)	0
UW - MTX1.0	7
UW - MTX1G	8
UW - MTX1Gi	B
UW - MTX1.5G	***9***
UW - MTX1.5Gi	C
UW-MTX3.5	3
UW-MTX3.5EC[5]	4
UW-MTX4.5	5
UW-MTX3.5H	6
New UW-MTX3.5T[8]	D
New UW-MTX3.5ET[8]	E
New UW-MTX4.5T[8]	F
New UW-MTX3.5A[6]	K

Selection for control voltage[2]	
For Manually Operated	0
240V AC/DC ECD & CR + 240V AC/DC SR	***1***
240V AC/DC ECD & CR + 24V DC SR	2
110V AC/DC ECD & CR + 110V AC/DC SR	3
240V AC/DC ECD & CR + 110V AC/DC SR	4

Selection for No. of Poles	
3 Pole	***X***
4 Pole 100% N	F
4 Pole 50% N (in Fr-III only)	H
4 Pole 200% N (upto 2500A)	D

Please Note:

[1] For Icw values please refer technical specification
[2] Other options of control voltage are available as accessory
[3] Temperature monitoring & protection is available only for Drawout type ACBs with MTX3.5 Series & above releases
[4] For Fr-1, 2500A selection, please contact the nearest branch office
[5] For system requiring 690V metering, kindly order separate Power Metering module with MTX3.5.
[6] For MTX3.5A technical specifications please get in touch with the local sales team
[7] For Cradle Cat Number last 5 digits shall be "00000" of any combination
[8] MODBUS TCP/IP (Ethernet) ready ACB as an Integrated Release Offering

U-POWER OMEGA Air Circuit Breakers ACBs are offered with following standard features

Draw-out Version:	OMEGA ACBs with UW-MTX release will have inbuilt- Current Metering (MTX 1.5G/1.5Gi/3.5 Series/4.5 Series), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Smart-racking shutter, Safety shutter assembly, Racking Handle, Door sealing frame, Pad-locking arrangement for ON/OFF button, Rating Error Preventer, Arc shield. A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frame 1, 2 & 3. B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3. C) For rating 4000A and above operation counter inbuilt for Frames 2 & 3 both.
Fixed Version:	OMEGA ACBs with UW-MTX release will have inbuilt- Current Metering (MTX 1.5G/1.5Gi/3.5 Series/4.5 Series), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Door sealing frame & Pad-locking arrangement for ON/OFF push button. A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frames 1, 2 & 3. B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3. C) For ratings 4000A & above, operation counter inbuilt for Frames 2 & 3 both.

Please contact the nearest branch office for more details of 800V & 1000V AC ACBs

ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) and UW-MTX1.5G (LSING + Current Metering - BCD Switches) [8536]





Current Rating	Version	Breaking Capacity @ 415V AC	3 Pole Manual Draw-out ACB				4 Pole Manual Draw-out ACB			
			UW-MTX1G		UW-MTX1.5G		UW-MTX1G		UW-MTX1.5G	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	50kA	UW108NXD01800	322600	UW108NXD01900	343900	UW108NFD01800	402900	UW108NFD01900	424200
1000A			UW110NXD01800	333400	UW110NXD01900	354700	UW110NFD01800	428500	UW110NFD01900	449800
1250A			UW112NXD01800	367200	UW112NXD01900	388500	UW112NFD01800	463300	UW112NFD01900	484600
1600A			UW116NXD01800	416200	UW116NXD01900	437500	UW116NFD01800	519100	UW116NFD01900	540400
2000A			UW120NXD01800	507900	UW120NXD01900	529200	UW120NFD01800	610800	UW120NFD01900	632100
2500A			UW225NXD01800	654900	UW225NXD01900	676200	UW225NFD01800	787500	UW225NFD01900	808800
3200A			UW232NXD01800	782900	UW232NXD01900	804200	UW232NFD01800	961200	UW232NFD01900	982500
4000A			UW240NXD01800	902100	UW240NXD01900	923400	UW240NFD01800	1097300	UW240NFD01900	1118600

Current Rating	Version	Breaking Capacity @ 415V AC	3 Pole Manual Fixed ACB				4 Pole Manual Fixed ACB			
			UW-MTX1G		UW-MTX1.5G		UW-MTX1G		UW-MTX1.5G	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MF	50kA	UW108NXF01800	248200	UW108NXF01900	269500	UW108NFF01800	309900	UW108NFF01900	331200
1000A			UW110NXF01800	256500	UW110NXF01900	277800	UW110NFF01800	329600	UW110NFF01900	350900
1250A			UW112NXF01800	282500	UW112NXF01900	303800	UW112NFF01800	356400	UW112NFF01900	377700
1600A			UW116NXF01800	320200	UW116NXF01900	341500	UW116NFF01800	399300	UW116NFF01900	420600
2000A			UW120NXF01800	390700	UW120NXF01900	412000	UW120NFF01800	469800	UW120NFF01900	491100
2500A			UW225NXF01800	503800	UW225NXF01900	525100	UW225NFF01800	605800	UW225NFF01900	627100
3200A			UW232NXF01800	602200	UW232NXF01900	623500	UW232NFF01800	739400	UW232NFF01900	760700
4000A			UW240NXF01800	693900	UW240NXF01900	715200	UW240NFF01800	844100	UW240NFF01900	865400

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)	88000
Buscoupler (without protection release)	*
UW-MTX1.0 (LSI - BCD Switches)	
UW-MTX1Gi (LSING + Inbuilt ZSI - BCD Switches)	
UW-MTX1.5Gi (LSING + Current Metering + Inbuilt ZSI - BCD Switches)	
UW-MTX3.5 (LSING + Current Metering) + can be upgraded for Power Metering & Communication	
UW-MTX3.5EC (LSING + Power Metering + Communication)	
UW-MTX3.5H (LSING + Power Metering + Harmonic Metering)	
UW-MTX4.5 (LSING + Power Metering + Harmonic Metering + Communication with Touch Screen navigation + PS Module)	
PS (Auxiliary power supply module for display in No-load or OFF condition)$**	
COM Module (MODBUS) for communication$	
PM Module for power metering$	
New UW-MTX3.5T (LSING + Current Metering + MODBUS TCP/IP (ETHERNET) Communication) + can be upgraded for Power Metering#	
New UW-MTX3.5ET (LSING + Power Metering +MODBUS TCP/IP (ETHERNET) Communication)#	

*** Available on request**
**** Applicable only for MTX 1Gi, MTX 1.5Gi & MTX 3.5 Series**
Integrated Release along with ACB - available as Factory-fitted option only
$ Chapter ID [8538]

3 Pole ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) [8536]





Current Rating	Version	3 Pole Manual Draw-out ACB with UW-MTX1G					
		S (65kA @ 415V AC)		H (80kA @ 415V AC)		V (100kA @ 415V AC)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	UW108SXD01800	*	UW108HXD01800	*	UW308VXD01800	*
1000A		UW110SXD01800		UW110HXD01800		UW310VXD01800	
1250A		UW112SXD01800		UW112HXD01800		UW312VXD01800	
1600A		UW116SXD01800		UW116HXD01800		UW316VXD01800	
2000A		UW120SXD01800		UW120HXD01800		UW320VXD01800	
2500A		UW225SXD01800		UW225HXD01800		UW325VXD01800	
3200A		UW232SXD01800		UW232HXD01800		UW332VXD01800	
4000A		UW240SXD01800		UW240HXD01800		UW340VXD01800	
4000A		-	-	UW340HXD01800		UW340VXD01800	
5000A		-	-	UW350HXD01800		UW350VXD01800	
6300A		-	-	UW363HXD01800		UW363VXD01800	

		3 Pole Manual Fixed ACB with UW-MTX1G					
800A	MF	UW108SXF01800	*	UW108HXF01800	*	UW308VXF01800	*
1000A		UW110SXF01800		UW110HXF01800		UW310VXF01800	
1250A		UW112SXF01800		UW112HXF01800		UW312VXF01800	
1600A		UW116SXF01800		UW116HXF01800		UW316VXF01800	
2000A		UW120SXF01800		UW120HXF01800		UW320VXF01800	
2500A		UW225SXF01800		UW225HXF01800		UW325VXF01800	
3200A		UW232SXF01800		UW232HXF01800		UW332VXF01800	
4000A		UW240SXF01800		UW240HXF01800		UW340VXF01800	
4000A		-	-	UW340HXF01800		UW340VXF01800	
5000A		-	-	UW350HXF01800		UW350VXF01800	
6300A		-	-	*		*	

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)	88000
Buscoupler (without protection release)	*
UW-MTX1.0 (LSI - BCD Switches)	
UW-MTX1Gi (LSING + Inbuilt ZSI - BCD Switches)	
UW-MTX1.5G (LSING + Current Metering - BCD Switches)	
UW-MTX1.5Gi (LSING + Current Metering + Inbuilt ZSI - BCD Switches)	
UW-MTX3.5 (LSING + Current Metering) + can be upgraded for Power Metering & Communication	
UW-MTX3.5EC (LSING + Power Metering + Communication)	
UW-MTX3.5H (LSING + Power Metering + Harmonic Metering)	
UW-MTX4.5 (LSING + Power Metering + Harmonic Metering + Communication with Touch Screen navigation + PS Module)	
PS (Auxiliary power supply module for display in No-load or OFF condition)$**	
COM Module (MODBUS) for communication$	
PM Module for power metering$	
New UW-MTX3.5T (LSING + Current Metering + MODBUS TCP/IP (ETHERNET) Communication) + can be upgraded for Power Metering#	
New UW-MTX3.5ET (LSING + Power Metering +MODBUS TCP/IP (ETHERNET) Communication)#	

*** Available on request**
**** Applicable only for MTX 1Gi, MTX 1.5Gi & MTX 3.5 Series**
Integrated Release along with ACB - available as Factory-fitted option only
$ Chapter ID [8538]

4 Pole ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) [8536]





Current Rating	Version	4 Pole Manual Draw-out ACB with UW-MTX1G					
		S (65kA @ 415V AC)		H (80kA @ 415V AC)		V (100kA @ 415V AC)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	UW108SFD01800	*	UW108HFD01800	*	UW308VFD01800	*
1000A		UW110SFD01800		UW110HFD01800		UW310VFD01800	
1250A		UW112SFD01800		UW112HFD01800		UW312VFD01800	
1600A		UW116SFD01800		UW116HFD01800		UW316VFD01800	
2000A		UW120SFD01800		UW120HFD01800		UW320VFD01800	
2500A		UW225SFD01800		UW225HFD01800		UW325VFD01800	
3200A		UW232SFD01800		UW232HFD01800		UW332VFD01800	
4000A		UW240SFD01800		UW240HFD01800		UW340VFD01800	
4000A		-	-	UW340HFD01800		UW340VFD01800	
5000A		-	-	UW350HFD01800		UW350VFD01800	
6300A		-	-	UW363HFD01800		UW363VFD01800	

4 Pole Manual Fixed ACB with UW-MTX1G							
800A	MF	UW108SFF01800	*	UW108HFF01800	*	UW308VFF01800	*
1000A		UW110SFF01800		UW110HFF01800		UW310VFF01800	
1250A		UW112SFF01800		UW112HFF01800		UW312VFF01800	
1600A		UW116SFF01800		UW116HFF01800		UW316VFF01800	
2000A		UW120SFF01800		UW120HFF01800		UW320VFF01800	
2500A		UW225SFF01800		UW225HFF01800		UW325VFF01800	
3200A		UW232SFF01800		UW232HFF01800		UW332VFF01800	
4000A		UW240SFF01800		UW240HFF01800		UW340VFF01800	
4000A		-	-	UW340HFF01800		UW340VFF01800	
5000A		-	-	UW350HFF01800		UW350VFF01800	
6300A		-	-	*		*	

*** Available on request**

Accessories of U-POWER OMEGA Air Circuit Breakers [8538]

Terminal Adaptor configuration upto 690V AC



Draw-out ACBs Terminal Adaptors



Fixed ACBs Terminal Adaptors

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Draw-out Omega ACBs		*
Frame-1 400-1000A N/S/H (Vertical / Horizontal)	CL604380000	
Frame-1 1250-2000A N/S/H (Vertical / Horizontal)	CL609630000	
Frame-1 2500A S/H (Vertical)	CL609640000	
Frame-2 400-3200A N/S/H (Vertical / Horizontal)		
Frame-2 4000A N/S/H (Vertical)	CL604200000	
Frame-2 4000A N/S/H (Horizontal)	CL603160000	
Frame-3 400-4000A H/V (Vertical)#	CL601280000	
Frame-3 400-4000A H/V (Horizontal-Long)	CL600730000	
Frame-3 5000A H/V (Horizontal-Long)	CL609660000	
Frame-3 5000A H/V (Vertical)#	CL600670000	
Frame-3 6300A H/V (Vertical)#	CL609650000	

: Please consider 4 terminal adaptors per phase.

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Fixed Omega ACBs		*
Frame-1 400-2000A N/S (Vertical / Horizontal)	CL609670000	
Frame-1 400-2000A H (Vertical / Horizontal)	CL609680000	
Frame-1 2500A S/H (Vertical)	CL609760000	
Frame-2 400-2500A N/S (Vertical / Horizontal)	CL601220000	
Frame-2 400-3200A H, 3200A N/S (Vertical / Horizontal)	CL609770000	
Frame-2 4000A S/H (Vertical)	CL604170000	
Frame-3 400-4000A H/V (Vertical)#	CL604180000	
Frame-3 5000A H/V (Vertical)#	CL603470000	
Frame-3 400-5000A H/V (Horizontal-Long)	CL603730000	

: Please consider 4 terminal adaptors per phase.

800V AC ACBs with UW-MTX1G (LSING - BCD Switches) [8536]

Breaking Capacity @ 800V AC (Icu=Ics=Icw for 1s)





800V AC Manual Fixed/Draw-out ACB with UW-MTX1G									
Current Rating	Frame	Breaking Capacity @ 800V AC	3P				4P			
			Fixed		Draw-out		Fixed		Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	1	50kA	UW108NXF0180ZM	*	UW108NXD0180ZM	*	UW108NFF0180ZM	*	UW108NFD0180ZM	*
1000A			UW110NXF0180ZM		UW110NXD0180ZM		UW110NFF0180ZM		UW110NFD0180ZM	
1250A			UW112NXF0180ZM		UW112NXD0180ZM		UW112NFF0180ZM		UW112NFD0180ZM	
1600A			UW116NXF0180ZM		UW116NXD0180ZM		UW116NFF0180ZM		UW116NFD0180ZM	
2000A			UW120NXF0180ZM		UW120NXD0180ZM		UW120NFF0180ZM		UW120NFD0180ZM	
2000A	2	50kA	UW220NXF0180ZM	*	UW220NXD0180ZM	*	UW220NFF0180ZM	*	UW220NFD0180ZM	*
2500A			UW225NXF0180ZM		UW225NXD0180ZM		UW225NFF0180ZM		UW225NFD0180ZM	
3200A			UW232NXF0180ZM		UW232NXD0180ZM		UW232NFF0180ZM		UW232NFD0180ZM	
4000A			-		UW240NXD0180ZM		-		UW240NFD0180ZM	
3200A	3	50kA	UW332NXF0180ZM	*	UW332NXD0180ZM	*	UW332NFF0180ZM	*	UW332NFD0180ZM	*
4000A			UW340NXF0180ZM		UW340NXD0180ZM		UW340NFF0180ZM		UW340NFD0180ZM	
5000A			UW350NXF0180ZM		UW350NXD0180ZM		UW350NFF0180ZM		UW350NFD0180ZM	
3200A	3	65kA	UW332SXF0180ZM	*	UW332SXD0180ZM	*	UW332SFF0180ZM	*	UW332SFD0180ZM	*
4000A			UW340SXF0180ZM		UW340SXD0180ZM		UW340SFF0180ZM		UW340SFD0180ZM	
5000A			UW350SXF0180ZM		UW350SXD0180ZM		UW350SFF0180ZM		UW350SFD0180ZM	

Note: 1. Above mentioned Cat. No. of ACBs are without Terminal Adaptors. Please consider Terminal Adaptors from below table.
2. Phase-Barriers are mandatory to be used with 800V AC ACBs:
(a) For Draw-out ACBs, Phase-Barriers are provided as standard supply along with ACBs
(b) For Fixed ACBs, kindly consider Phase-Barriers from below table

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
Buscoupler (without protection release)	*
UW-MTX1.0 (LSI - BCD switch for selection)	
UW-MTX1G (LSING - BCD switch for selection)	
UW-MTX1.5G (LSING + display - BCD switch for selection)	
UW-MTX3.5 (LSING + Display + Option for other features)	
UW-TM - Temperature Rise Module (for MTX3.5)	
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)	
COM Module (MODBUS) for communication	
PS (Auxiliary power supply module for display in No-load or OFF condition)**	

**** Applicable only for MTX 1Gi, MTX 1.5Gi & MTX 3.5 Series**

Terminal Adaptors for 800V ACBs [8538]

Current Rating	Frame	Fixed			Draw-out		
		Cat. No.	M.R.P. (₹) Per Unit	Qty (3P/4P)	Cat. No.	M.R.P. (₹) Per Unit	Qty (3P/4P)
630A	1	CL609670000	*	(6/8)	CL609630000	*	(6/8)
800A		CL609670000		(6/8)	CL609630000		(6/8)
1000A		CL609670000		(6/8)	CL609630000		(6/8)
1250A		CL609670000		(6/8)	CL609630000		(6/8)
1600A		CL609670000		(6/8)	CL609630000		(6/8)
2000A		CL601220000		(6/8)	CL609640000		(6/8)
2000A	2	CL609770000		(6/8)	CL609640000		(6/8)
2500A		CL603180000		(6/8)	CL609640000		(6/8)
3200A		CL604170000		(6/8)	CL604190000		(6/8)
4000A		-		-	CL604200000		(6/8)
3200A	3	CL604180000		(12/16)	CL601280000		(12/16)
4000A		CL604180000		(12/16)	CL600670000		(12/16)
5000A		CL603470000		(12/16)	CL609650000		(12/16)

Note: Please contact the nearest branch office for more details of 1000V AC ACBs



Draw-out ACBs Terminal Adaptors



Fixed ACBs Terminal Adaptors

Phase-Barriers for 800V AC Fixed ACBs [8538]

Cat. No.	Type	Pole	M.R.P. (₹) Per Unit	Qty. per ACB
CL912580000	Fixed	3P	*	2
CL912590000	Fixed	4P		2

*** Available on request**


Operation Counter


Door Interlock

Description	Cat. No.	M.R.P. (₹) Per Unit
Other Accessories [8538]		
Operation Counter	CL909830000#	
Door Interlock	CL909780000	*
Electrical Position Indication (EPI)	CL958260000	
Microswitches for Indication [8536]		
Microswitch for Common Fault Indication (CFI)	CL909490000	
Microswitch for Ready To Close Indication (RTC)	CL909530000^	
Microswitch for Shunt Release	CL909510000	*
Microswitch for Undervoltage Release	CL909470000	
Microswitch for Spring Charging Indication	ST426720000	

Operation Counter inbuilt for rating 4000A to 6300A

^ Cradle SIC block CL958250000 needs to be ordered separately, If EPI not installed in same ACB


R-Lock


C-Lock

Description	Cat. No.	M.R.P. (₹) Per Unit
Mechanical Interlock using Key & Lock$		
R - Lock Type - 1	CL006590000	
R - Lock Type - 2	CL006600000	
R - Lock Type - 3	CL006610000	
R - Lock Type - 12	CL006620000	
R - Lock Type - 23	CL006630000	
Locking arrangement for OFF button with R - Lock (on breaker)	CL908150000	
Locking arrangement for ISO position with R - Lock (on Cradle)	CL908650000	
Locking arrangement for ANY position with R - Lock (on Cradle)	CL909270000	
C - Lock Type - S	CL006640000	*
C - Lock Type - T	CL006650000	
C - Lock Type - ST	CL006660000	
C - Lock Type - SS	CL006670000	
C - Lock Type - TT	CL006680000	
Locking arrangement for OFF button with C - Lock (on breaker)	CL908140000	
Locking arrangement for ISO position for C - Lock (on Cradle)	CL909820000	
Locking arrangement for ANY position with C - Lock (on Cradle)	CL909810000	

Note: For Mechanical Interlock using Key & Lock please order combination of Lock and Locking arrangement.

* Available on request $ Only locks **[8301]** Locking arrangement **[8538]**


Closing Release


Shunt Release


UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
Electrical Charging Device (ECD) [8501]		
24-30V DC	CL903620000	
48/60V DC	CL903630000	
110V AC / 110-125V DC	CL903600000	*
220V AC / 200V DC	CL903640000	
240V AC / 250V DC	CL903590000	
415V AC / 400V DC	CL903610000	
Closing Release (CR) [8538]		
24-30V DC	CL908174000	
48/60V DC	CL908175000	
110V AC / 110V DC	CL90817A000	*
125/127V DC	CL908171000	
220 - 240V AC / 220 - 250V DC	CL90817B000	
415V AC	CL90817D000	
Shunt Release (SR) [8538]		
24-30V DC	CL90816O400	
48/60V DC	CL90816O500	
110V AC / 110V DC	CL90816OA00	
125/127V DC	CL90816O100	*
220 - 240V AC / 220 - 250V DC	CL90816OB00	
415V AC	CL90816OD00	
Under Voltage Release (UVR) with time delay (0-1-3-5 sec) [8538]		
24-30V DC	CL908184000	
48V DC	CL908185000	
110V AC / 110V DC	CL90818A000	*
240V AC / 220V DC	CL90818B000	
415V AC	CL90818D000	


Neutral CT

Description	Cat. No.	M.R.P. (₹) Per Unit
External Neutral CT for UW-MTX Releases [8504]		
Frame-1, 2 & 3 400-800A	CL007170000	
Frame-1, 2 & 3 1000-1600A	CL007180000	
Frame-1 2000-2500A	CL007190000	*
Frame-2 & 3 2000-4000A	CL007200000	
Frame-3 5000-6300A	CL007210000	

Automatic Transfer Controllers (ATC) [9032]

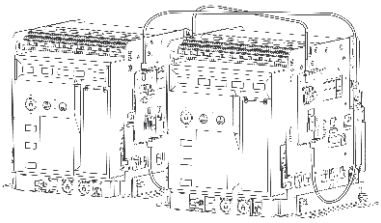

AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC20000000	52600	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

** **Note:** For communication version of AuXC controller refer page no-6

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here



Mechanical Interlock using Bowden Cable [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit
Mechanical Interlock using Bowden Cable (5 meters length)		
Between 2 Incomers	**CL906630000**	
Between 3 Incomers	**CL906640000**	*
Between 2 Incomers & 1 Standby	**CL906650000**	
Between 2 Incomers & 1 Buscoupler	**CL906660000**	
Mechanical Interlock using Bowden Cable (3 meters length)		
Between 2 Incomers	**CL906590000**	
Between 3 Incomers	**CL906600000**	*
Between 2 Incomers & 1 Standby	**CL906610000**	
Between 2 Incomers & 1 Buscoupler	**CL906620000**	
Mechanical Interlock using Bowden Cable (2 meters length)		
Between 2 Incomers	**CL908100000**	
Between 3 Incomers	**CL908110000**	*
Between 2 Incomers & 1 Standby	**CL908120000**	
Between 2 Incomers & 1 Buscoupler	**CL908130000**	

Note: Common from 400A to 6300A and can be interlocked between Fixed / Draw-out / Mixed version

*** Available on request**



MODBUS Module



Power Metering Module

Description	Cat. No.	M.R.P. (₹) Per Unit
MATRIX Releases & Modules [8538]		
UW-MTX1.0	**CL919660000**	
UW-MTX1G	**CL919710000**	
UW-MTX1Gi	**CL905620000**	
UW-MTX1.5G	**CL919650000**	
UW-MTX1.5Gi	**CL905520000**	
UW-MTX3.5	**CL906450000**	
UW-MTX3.5EC	**CL906440000**	
UW-MTX3.5H	**CL906460000**	
UW-MTX4.5	*	
New UW-MTX3.5T	#	
New UW-MTX3.5ET	#	
New UW-MTX4.5T	#	
New UW-MTX3.5A	*	
Power supply module with 2 Ports	**CL907220000**	*
New 1A Power supply module	**CL918950000**	
New DigiCom Module	**CL918960000**	
Relay Module	**CL907160000**	
MODBUS Module	**CL907090000**	
Profibus Module	**CL902950000**	
Matrix Smart Card Module	**CL907050000**	
Power Metering Module (415V)	**CL906490000**	
Power Metering Module (690V)	**CL906850000**	
ZSI Module	**CL907180000**	
TCS Module	**CL907190000**	
EL Module	**CL907200000**	
REF Module	**CL907210000**	
Simulation Kit	**CL907240000**	

For Energy Management Communication Software Please contact the nearest branch office
Integrated Release along with ACB - available as Factory-fitted option only



Pre-Engineered Retrofit Solution
Upgrade CNCS ACB to OMEGA ACB

Presenting the pre-engineered CNCS to OMEGA Retrofit kit

CNCS to OMEGA Retrofit kit is a pre-engineered solution which allows you to upgrade from the old CNCS ACB to the advanced OMEGA ACB - with minimal modification. All installations are done by trained Engineers from the nearestAuthorised Service Centre to ensure total reliability and minimum shut-down time.

Specifications

- *ETP grade Copper links with Silver Plating*
- *CNCS to OMEGA Retrofit solution is available from 800A to 3200A*

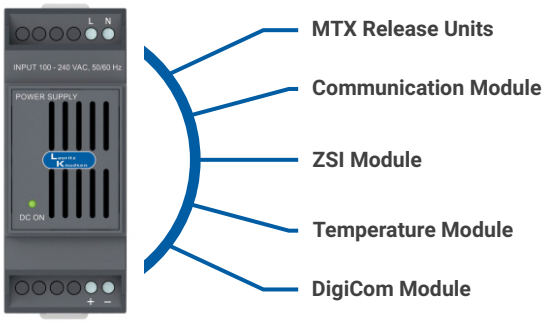
For more details please scan the QR code or click here

For retrofitting of any ACB to Omega ACB please contact the nearest branch office

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

New Power Supply Module (230V AC - 24V DC 1A)

- 100-265V AC Input Voltage
- Regulated 24V DC Output Voltage
- Suitability of up to 1 Amp Loading
- Compact (2M) and Modular Design
- Suitable for DIN Rail & Base mounting



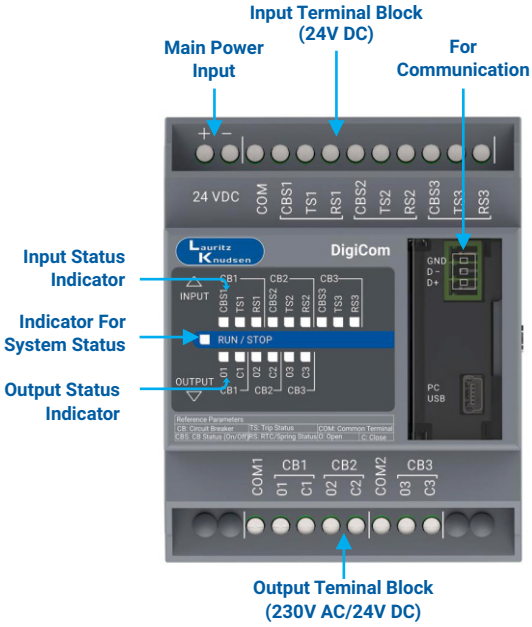
PS Module Details	Function	Module Compatibility	M.R.P. (₹) Per Unit
New PS Module **(CAT Code: CL918950000)**	Suitable for providing regulated 24V DC Power Supply	All MTX Release Units for Powering ON, MODBUS Module, ZSI Module, Temperature Module, UN-CO Module & DigiCom Module	**11400**
UW-PS Module (CAT Code: CL907220000)	Suitable for providing regulated 24V DC Power Supply and Internal Communication Bus	All MTX Release Units and MTX Modules	**29700**

New DigiCom Module

Status Monitoring & Control of up to 3 Circuit Breakers

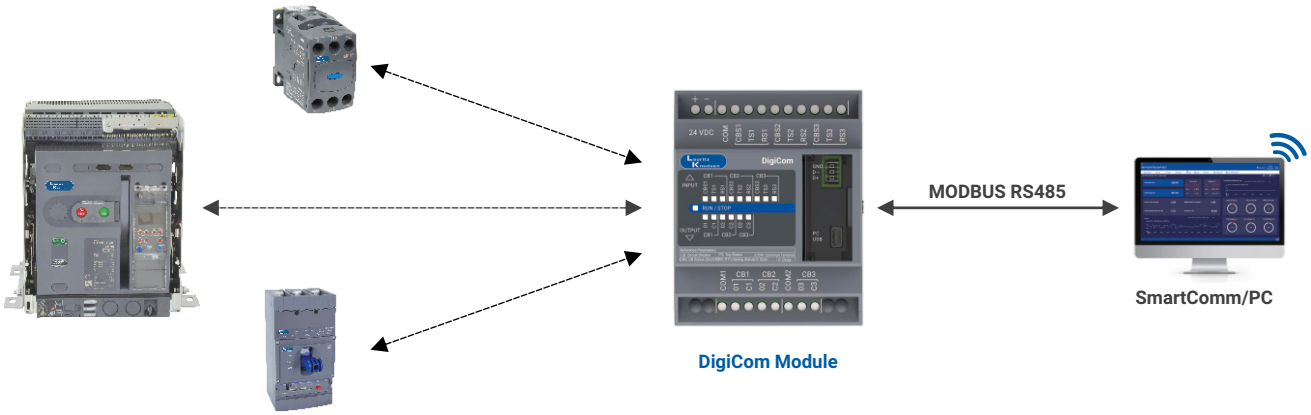
- 3 Digital Inputs for 3 Circuit Breakers - 9 Digital Inputs
- 2 Relay Outputs for 3 Circuit Breakers – 6 Relay Outputs
- 24V DC Input Voltage
- Status Monitoring & Control of up to 3 Circuit Breakers through communication over MODBUS RTU protocol with RS 485 port.
- **For optimal performance, CFI and RTC micro switches should be selected along with the ACB.**

Input Status Indicator	CB1	CBS1	ON/OFF Indication for Circuit Breaker 1
		TS1	Trip status Indication for Circuit Breaker 1
		RS1	Ready spring/Ready to Close Status Indication for Circuit Breaker 1
	CB2	CBS2	ON/OFF Indication for Circuit Breaker 2
		TS2	Trip status Indication for Circuit Breaker 2
		RS2	Ready spring/Ready to Close Status Indication for Circuit Breaker 2
	CB3	CBS3	ON/OFF Indication for Circuit Breaker 3
		TS3	Trip status Indication for Circuit Breaker 3
		RS3	Ready spring/Ready to Close Status Indication for Circuit Breaker 3
Output Status Indicator	CB1	O1	Open Circuit Breaker 1
		C1	Close Circuit Breaker 1
	CB2	O2	Open Circuit Breaker 2
		C2	Close Circuit Breaker 2
	CB3	O3	Open Circuit Breaker 3
		C3	Close Circuit Breaker 3



DigiCom Module Details	M.R.P. (₹) Per Unit
New DigiCom Module **(CAT Code: CL918960000)**	**33800**

Connection Architecture of DigiCom



C-POWER S1 Range of Air Circuit Breakers

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 400A to 3200A
- Available in 50kA & 60kA breaking capacity
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- High short time withstand capacity, Icu = Ics = Icw for 1 sec for total selectivity
- High mechanical and electrical operating life
- 100% rated neutral pole
- Common height and depth across the range
- Protection through Thermal - Magnetic (DN1) & Microprocessor releases (SR18G, SR18G+D & SR18Gi+D)
- Self diagnostic Microprocessor based Releases with on-load testing through TEST button
- Inbuilt thermal memory
- Protection Releases conform to EMI/EMC standards
- Breaker Status and Control through MODBUS protocol



C-POWER S1 ACB

C-POWER C Range of Air Circuit Breakers



C-POWER C ACB

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 800A to 6300A
- Available in 50,55,60 & 95kA breaking capacity
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- High short time fault withstanding capacity, Icu = Ics = Icw for 1 sec for total selectivity
- High mechanical and electrical operating life
- 100% rated neutral pole
- Protection through Thermal - Magnetic (DN1) & Microprocessor releases (SR18G, SR18G+D, SR18Gi+D)
- Self diagnostic Microprocessor based Releases with on-load testing through TEST button
- Inbuilt thermal memory
- Protection Releases conform to EMI/EMC standards
- Data communication & Power Management
- Breaker Status and Control through MODBUS protocol

C-POWER HE ACBs for Harsh Environment

- Designed to operate at peak efficiency in Sulphur-rich Harsh corrosive environments
- Range 1250A to 5000A, 415/690V ac
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed and Draw-out versions
- Protection through Microprocessor release
- Operates reliably in 3C4 environmental conditions containing SO_2 and H_2S

Please contact the nearest branch office for Details & product Selection



C-POWER HE Range

Breaking Capacities Offered:

Icu = Ics = Icw for 1 sec

	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
CN-CS : E / G	50kA	50kA	50kA	50kA	50kA	50kA					
	Frame-1										
CN-CS : S1	50kA	50kA	50kA	50kA	50kA	50kA	60kA	60kA			
	Frame-1						Frame-2				
CN-CS : C		50kA	50kA	50kA	50kA	55kA	60kA			95kA	95kA
CN-CS : H		65kA	65kA	65kA	65kA	75kA	75kA				
CN-CS : H2								75kA	75kA		
CN-CS : H / H1								100kA	100kA		
CN-CS : HE				50kA		60kA		75kA		95kA	
		Frame-1				Frame-2		Frame-3		Frame-4	

For technical & dimension details please refer product catalogue. 400A ACB also available on request.

C-POWER Air Circuit Breakers [8536]







C-POWER S1 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Microprocessor Based SR18G				Thermal-Magnetic DN1			
			3 Pole		4 Pole		3 Pole		4 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630A	50kA	MDO	SL96041	307200	SL96061	385400	SL95331	304000	SL95351	382200
		EDO	SL96051	378500	SL96071	456700	SL95341	375300	SL95361	453500
800A	50kA	MDO	SL96042	307200	SL96062	385400	SL95332	304000	SL95352	382200
		EDO	SL96052	378500	SL96072	456700	SL95342	375300	SL95362	453500
1000A	50kA	MDO	SL96043	319400	SL96063	403600	SL95333	316200	SL95353	400400
		EDO	SL96053	390700	SL96073	474900	SL95343	387500	SL95363	471700
1250A	50kA	MDO	SL96044	352400	SL96064	444500	SL95334	349200	SL95354	441300
		EDO	SL96054	423700	SL96074	515800	SL95344	420500	SL95364	512600
1600A	50kA	MDO	SL96045	401700	SL96065	494100	SL95335	398500	SL95355	490900
		EDO	SL96055	473000	SL96075	565400	SL95345	469800	SL95365	562200
2000A	50kA	MDO	SL96046	471900	SL96066	579600	SL95336	468700	SL95356	576400
		EDO	SL96056	543200	SL96076	650900	SL95346	540000	SL95366	647700
2500A	60kA	MDO	SL96047	583300	SL96067	703100	SL95337	580100	SL95357	699900
		EDO	SL96057	654600	SL96077	774400	SL95347	651400	SL95367	771200

Note : Add a Suffix "OOOO" for all the above mentioned cat. nos.

C-POWER S1 3 & 4 Pole Fixed ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Microprocessor Based SR18G				Thermal-Magnetic DN1			
			3 Pole		4 Pole		3 Pole		4 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630A	50kA	MF	SL95561	167500	SL95581	213600	SL95481	164300	SL95501	210400
		EF	SL95571	238800	SL95591	284900	SL95491	235600	SL95511	281700
800A	50kA	MF	SL95562	167500	SL95582	213600	SL95482	164300	SL95502	210400
		EF	SL95572	238800	SL95592	284900	SL95492	235600	SL95512	281700
1000A	50kA	MF	SL95563	182900	SL95583	230900	SL95483	179700	SL95503	227700
		EF	SL95573	254200	SL95593	302200	SL95493	251000	SL95513	299000
1250A	50kA	MF	SL95564	210800	SL95584	263400	SL95484	207600	SL95504	260200
		EF	SL95574	282100	SL95594	334700	SL95494	278900	SL95514	331500
1600A	50kA	MF	SL95565	233600	SL95585	300500	SL95485	230400	SL95505	297300
		EF	SL95575	304900	SL95595	371800	SL95495	301700	SL95515	368600

Note Add a Suffix "OOOO" for all the above mentioned cat. nos.

M.R.P. changes for product customization w.r.t. SR18G ACB M.R.P.		M.R.P. (₹) Per Unit
Bus - Coupler (w/o protection)	Reduce	**8400**
Microprocessor based SR18G+D (LSING + Current Metering)	Add	**22600**
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	**29900**

C-POWER S1 Draw-Out ACBs will have inbuilt - 2NO+2NC Aux contact for MDO & 6NO+6NC Aux contact for EDO breakers, Safety shutter assembly, Racking handle, Door sealing frame, Push-button cover & Rating error preventor.
Electrical version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.
C-POWER S1 Fixed ACBs will have inbuilt - 2NO+2NC Aux contact for MF & 6NO+6NC Aux contact for EF breakers, Door sealing frame & Push-button cover.
Electrical version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.
Note: 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker.
In electrically operated breaker with DN1 release, either earth fault or undervoltage protection can be used.

CN-CS-E Range 3 Pole Manual Fixed

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Thermal-Magnetic Release Type DN1	
			Cat. No.	M.R.P. (₹) Per Unit
400A	50kA	3P MF	SL957210OOO	108900
630A	50kA	3P MF	SL957220OOO	109900
800A	50kA	3P MF	SL957230OOO	116400
1000A	50kA	3P MF	SL957240OOO	119300
1250A	50kA	3P MF	SL957250OOO	149300
1600A	50kA	3P MF	SL957260OOO	157200
2000A	50kA	3P MF	SL932970OOO	180500





C-POWER 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Type	Microprocessor Based SR18G				Thermal-Magnetic DN1			
				3 Pole		4 Pole		3 Pole		4 Pole	
				Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	65kA	MDO	H	SL95311	543900	#	704700	#	540700	#	701500
		EDO	H	SL95321	615200	#	776000	#	612000	#	772800
1000A	65kA	MDO	H	SL95312	553900	#	749000	#	550700	#	745800
		EDO	H	SL95322	625200	#	820300	#	622000	#	817100
1250A	65kA	MDO	H	SL95313	605600	#	803300	#	602400	#	800100
		EDO	H	SL95323	676900	#	874600	#	673700	#	871400
1600A	65kA	MDO	H	SL95314	681600	#	884100	#	678400	#	880900
		EDO	H	SL95324	752900	#	955400	#	749700	#	952200
2000A	75kA	MDO	H	SL95315	753300	#	903900	#	750100	#	900700
		EDO	H	SL95325	824600	#	975200	#	821400	#	972000
2500A	75kA	MDO	H	SL95316	784100	#	954600	#	780900	#	951400
		EDO	H	SL95326	855400	#	1025900	#	852200	#	1022700
3200A	75kA	MDO	H2	SL94822	826200	SL94826	1014100	#	*	#	*
		EDO	H2	SL94824	897500	SL94828	1085400	#	*	#	*
4000A	75kA	MDO	H2	SL94823	939000	SL94827	1173500	#	*	#	*
		EDO	H2	SL94825	1010300	SL94829	1244800	#	*	#	*
5000A	95kA	MDO/EDO	C	#	*	#	*	#	*	#	*
6300A	95kA	MDO/EDO	C	#	*	#	*	#	*	#	*

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office
Add a Suffix "OOOO" for all the above mentioned cat. nos.

C-POWER 3 & 4 Pole Manual Fixed ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Type	Microprocessor Based SR18G				Thermal-Magnetic DN1			
				3 Pole		4 Pole		3 Pole		4 Pole	
				Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA	MF	C	*				*			
1000A	50kA										
1250A	50kA										
1600A	50kA										
2000A	55kA			SL97635	355500	#	461200	SL93005	352300	#	458000
2500A	60kA			SL97636	391800	#	528000	SL93006	388600	#	524800

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office
Add a Suffix "OOOO" for all the above mentioned cat. nos.

M.R.P. changes for product customization w.r.t. SR18G M.R.P.		M.R.P. (₹) Per Unit
Bus-Coupler (w/o protection)	Reduce	8400
Microprocessor based SR18G+D (LSING + Current Metering)	Add	22600
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	29900

C-POWER Draw-Out ACBs will have inbuilt - 6NO+6NC Aux contact, Safety shutter assembly, Racking handle, Door sealing frame, Push-button cover & Rating Error preventor. Option of horizontal & vertical termination upto 4000A also available. Operation counter for 4000A & above.
EDO version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.

C-POWER Fixed ACBs will have inbuilt - 6NO+6NC Aux contact, Door sealing frame & Push-button cover. Operation counter for 4000A & above.

Note: 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker.
In electrically operated breaker with DN1 release, either earth fault or undervoltage protection can be used.
Note: Electrical Fixed type breakers are available on request.

Available on *"Made to order"* basis. * Available on request

Accessories (Common for C-POWER Family)



LTPB



LIP



Shunt Release



UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
Lockable Trip Push Button (LTPB) [8301]		
Type AA	SL93148000A	8260
Type BB	SL93148000B	8260
Type CC	SL93148000C	8260
Type DD	SL93148000D	8260
Lockable Trip Push Button kit (3 I/C & 2 B/C)	SL919360000	41400
Locking of ACB in Isolated position (LIP) [8301]		
Type A	SL93146000A	8260
Type B	SL93146000B	8260
Type C	SL93146000C	8260
Type D	SL93146000D	8260
Locking of ACB in Any position (LAP) [8301]		
Type A	SL93147000A	8260
Type B	SL93147000B	8260
Type C	SL93147000C	8260
Type D	SL93147000D	8260
Racking Interlock [8301]		
Type AA	SL93149000A	11300
Type BB	SL93149000B	11300
Type CC	SL93149000C	11300
Type DD	SL93149000D	11300
Padlock [8301]		
Racking Padlock Assembly	CL900250000	3840
Other Accessories [8538]		
Door Interlock	SL931500000	6050
Mechanical Operation Counter*	XM808370000	6000
Mounting Kit for Front Mounted Counter	SL958820000	2120
Spring Charge Indication Microswitch	SL960000000	4800

* For mounting the Operation counter, mounting kit "SL958820000" needs to be ordered separately. Operation Counter inbuilt for rating 4000A to 6300A.

Description	Cat. No.	M.R.P. (₹) Per Unit
Shunt Release (SR) [8538]		
Type EA : 24/48V DC	SL927180400	5300
Type EA : 110V DC	SL927180100	5300
Type EA : 220V DC	SL927180200	5300
Type EA1 : 110V AC	SL927180A00	5300
Type EA1 : 240V AC	SL927180B00	5300
Type EA1 : 415V AC	SL927180D00	5300
Under Voltage Release (UVR) [8538]		
Type MV : 24V DC	ST368770000	9310
Type MV : 240V AC	SL92720B000	9310
Type MV : 415V AC	SL92720D000	9310
Earth Fault Release (for DN1) [8538]		
Type EF1 (10%, 20% In)	SL913400000	8230
Type EF2 (30%, 40%, 50% In)	SL913410000	8230
Remote Fault Indication [8538]		
AN1 Remote Annunciation Module for SR18G/SR18G+D/SR18Gi+D : 240V AC	SL946540000	20000
Microswitches for Indication [8536]		
Microswitch for Voltmetric Releases (2) each	SL927030000	5110
Microswitch for Common Indication of O/L & S/C (3) each	SL927040000	5110
Microswitch for Separate Indication of O/L & S/C (3) each (for DN1 release)	SL927050000	8540
Service Position Microswitch - Right (2)	SL931420000	3450
Service Position Microswitch - Left (2)	SL931430000	3450
Test or Isolated Position Microswitch - Right (2)	SL931440000	3450
Test or Isolated Position Microswitch - Left (2)	SL931450000	3450

Note:
a. The Numerical in brackets, against various accessories indicate the SICs required for wiring purpose in Draw-Out breakers
b. Shunt release requires one set of auxiliary contacts
c. Maximum 24 SICs can be fitted on an ACB. In Electrical ACBs 5 SICs are prewired for control circuit purpose



Vertical Terminal Adaptor

Description & Rating	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Vertical Terminal Adaptors for Draw out C-POWER ACB [8538]			
400-1250 S1/800-1000 C	SL932810000	10300	1
1600-2000 S1/1250-1600 C/800-1600 H	SL932820000	12500	1
2000 C	SL932840000	18500	1
2000 H/2500 C/H	SL932850000	19300	1
2500 S1	SL932890000	19300	1
3200 S1	SL932860000	23800	1
3200H2/H1, 4000H2/H	SL932880000	57500	1

Features
- Remote Status & Control of ACB
- Communicates on MODBUS Protocol
- Inbuilt RS485 Port

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
UN-CO module for Breaker control	CL908520000**	24300	1

**Available till stock last

Protection Releases



SR18G



SR18G+D



SR18Gi+D



CT

Description	Cat. No.	M.R.P. (₹) Per Unit
Protection Releases [8538]		
Microprocessor based type SR18Gi+D	**SL948130000**	**98400**
Microprocessor based type SR18G+D	**SL948120000**	**91100**
Microprocessor based type SR18G	**SL960300000**	**68500**
Thermal-Magnetic Release type DN1	**SL931520000**	**65300**
Universal Test Kit	**CL904620000**	**140200**

Universal Test Kit
Compatible with following Lauritz Knudsen Protection Releases
› SR protection releases of C-Power ACB family
› UNRS protection releases of U-Power ACB family
› MTX and RC releases of D-Sine MCCB family

Retrofit kit solutions are available
For further details please contact the nearest branch office

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CTs for SR18G / SR18G+D / SR18Gi+D [8504]			
400 S1 Fix & Draw-out	**SL015230000**	**11400**	1
630 S1 Fix & Draw-out	**ST374950000**	**11400**	1
800 C/H/S1 Fix & Draw-out	**SL018570000**	**11400**	1
1000 C/H/S1 Fix & Draw-out	**SL018580000**	**11400**	1
1250 C/H/S1 Fix & Draw-out	**SL905710000**	**13900**	1
1600 C/H/S1 Fix & Draw-out	**SL905720000**	**13900**	1
2000 C/H Fix & Draw-out	**SL905650000**	**15200**	1
2000 S1 Draw-out	**SL932100000**	**15200**	1
2500 C/H Fix & Draw-out	**SL905660000**	**15200**	1
2500 S1 Draw-out			
3200 H2/H1 Draw-out	**SL017400000**	**17600**	1
4000 H2/H Draw-out	**SL017390000**	**20900**	1

For External Neutral C.T.s please use the above Cat. No.



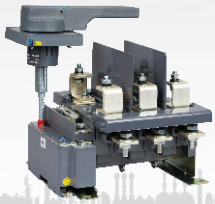
C-POWER HE Air Circuit Breaker

- Range 1250A to 5000A, 415/690V ac
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- Protection through Microprocessor release



FN BOLTED HE Switch-Disconnector-Fuse

- Range 32A to 630A, 415V ac, AC 23A
- TPN version suitable for Bolted Fuse Link
- Door Interlocking & Padlocking facility



Lauritz Knudsen Electrical & Automations HE range of Air Circuit Breakers (ACBs) and Switch-Disconnector-Fuse (S-D-F) are designed to ensure that they operate at peak efficiency for their entire lifespan in harsh, Sulphur-rich Harsh corrosive environments.

For more details please scan the QR code or click here

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

ClarityPRD/122015

Lauritz Knudsen
Electrical & Automation

S-LINE BUSBAR TRUNKING SYSTEM

A smart, safe and reliable solution for power distribution



KEY FEATURES

- Enclosure: GI or Aluminium
- UL Certified Class-F Insulation with ROHS compliance
- Current Rating:
  - 250A to 6300A (Aluminium)
  - 400A to 6300A (Copper)
- Ingress Protection up to IP66
- Plug-in boxes with Safety interlocks

Now equipped with Temperature monitoring system and

Powered By SMARTCOMM

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Lauritz Knudsen
Electrical & Automation

ENGINEERED FOR ENDURANCE

Built to withstand tough conditions



LTXL CAPACITOR

- Designed to operate at Temperature upto 70°C
- 3 x In Over Curent withstand capacity
- Highest 500 x In Inrush current withstand capacity.
- Special Stainless Steel Earthing pad corrosion proof.
- Glazed ceramic bushing provied better protection.
- Enhanced Durability

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

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Power Factor Correction Capacitors [8532]

Parameters	Standard Duty		Heavy Duty		HD Plus Gas Filled	Super Heavy Duty	APP	LTXL Ultra Heavy Duty	
	Cylindrical	Box	Cylindrical	Box	Cylindrical	Cylindrical	Box	Cylindrical	Box
Over current withstand capability	1.5 x In	1.5 x In	1.8 x In	1.8 x In	2.0 x In	2.5 x In	2.5 x In	3 x In	3 x In
Operating losses	0.45 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.5 W/kVAr
Peak Inrush current withstand capability	200 x In	200 x In	250 x In	300 x In	300 x In	350 x In	300 x In	500 x In	500 x In
Number of switching operations per year	5000	5000	7500	8000	10000	15000	10000	18000	20000
Max. Temperature	55°C	55°C	55°C	55°C	55°C	65°C	55°C	65°C	70°C
Operating life	100000 hrs.	100000 hrs.	130000 hrs.	150000 hrs.	180000 hrs.	200000 hrs.	200000 hrs.	300000 hrs.	300000 hrs.

Standard Duty Capacitors

Features

- Finger proof terminal in Cyl capacitor
- 150% continuous current carrying capacity
- Self-Healing property
- Soft resin as coolant
- Inbuilt Over Pressure Disconnector (OPD)



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical 1 to 6 kVAr - Series : LTCCF 7.5 to 33.1 kVAr - Series : LTCCD	1 to 25	440	**299**
	1.2 to 27.7	480	**299**
	1.3 to 33.1	525	**299**
Box 1 to 6 kVAr - Series : LTBCF 7.5 to 33.1 kVAr - Series : LTBCD	1 to 50	440	**383**
	11.1 to 27.7	480	**383**
	13.2 to 33.1	525	**383**

HD Plus Gas Filled Capacitor

Features

- High inrush current carrying capacity 300 x In
- Inert gas as coolent (Non-flammable)
- Finger proof terminal in Cyl capacitor
- Self-Healing property
- Inbuilt Over Pressure Disconnector (OPD)
- Long life



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCN	7.5 to 15	440	**623**
	20 & 25		**579**
	7.5 to 15	480	**623**
	20 to 30		**579**
	7.5 to 15	525	**623**
	20 to 33.1		**579**

Heavy Duty Capacitors



Features

- 180% continuous current carrying capacity
- Finger proof terminal in Cyl capacitor
- Self-Healing property
- Soft resin as coolant
- Inbuilt over pressure disconnector (OPD)
- Low losses

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCH	1 to 4	440 V	**572**
	5 to 15		**526**
	20 to 30		**512**
	1.2 to 4.4*	480 V	**572**
	5.5 to 16.6		**526**
	22.1 to 27.7		**512**
	1.3 to 5.3*	525 V	**572**
	6.6 to 16.6		**526**
	20 to 33.1		**512**
Box Series: LTBCH	1 to 4	440 V	**733**
	5 to 15		**634**
	20 to 50		**621**
	5.5 to 15	480 V	**634**
	20 to 27.7		**621**
	6.6 to 15	525 V	**634**
	20 to 33.1		**621**

*** Now smaller rating also available in Heavy Duty Cylindrical**

Super Heavy Duty Capacitors



Features

- High over current withstand capacity 2.5 x In
- High Inrush current withstand capacity 350 x In
- Finger proof Sigut terminal in Cyl capacitor

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCR	3 to 5	440 V	**860**
	7.5 to 15		**703**
	20 & 25		**665**
	1.2 to 5.5	480 V	**860**
	11.1 & 15		**703**
	20 to 27.7		**665**
	1.3 to 5	525 V	**860**
	6.6 to 15		**703**
	20 to 33.3		**665**

APP Capacitors



Features

- High over current withstand capacity 2.5 x In
- High Inrush current withstand capacity 300 x In
- Glazed ceramic bushing
- Tinned Copper studs
- Corrosion proof stainless steel Earthing pad

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Box Series: LTBCP	5 to 15	440 V	**1079**
	20 to 50		**1044**
	5.5 to 13.8	480 V	**1079**
	16.6 to 55.3		**1044**
	6.6 & 13.2	525 V	**1079**
	16.6 to 66.2		**1044**

LTXL - Ultra Heavy Duty Capacitors



Features

- High over current withstand capacity 3 x In
- High Inrush current withstand capacity 500 x In
- Glazed ceramic bushing (In box type capacitor)
- Lower thermal impedance
- Designed to operate at temperature up to 70°C
- Corrosion proof **stainless steel Earthing pad**

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series : LTCCU	5 to 15	440V	**1660**
	20 & 25		**1633**
	7.5 to 15	480V	**1660**
	20		**1633**
	7.5 to 15	525V	**1660**
	20		**1633**
Box Series: LTBCU	5 to 15	440V	**1848**
	20 to 50		**1812**
	7.5 to 15	480V	**1848**
	20 to 30		**1812**
	7.5 to 15	525V	**1848**
	20 to 33.1		**1812**

Ordering Information for Capacitors

C - Cylindrical, B - Box

Duty: D/F – Standard**
H - Heavy
N - Gas Filled
R - Super Heavy
P - APP
U - Ultra Heavy

kVAr Rating

Sample ratings
01 - 1 kVAr
07 - 7.5 kVAr
10 - 10 kVAr
12 - 12.5 kVAr

Voltages: B - 440V, C - 480V, M - 525V

** F - 1 to 6 kVAr. D - 7.5 kVAr & above

L T C 3 2 **Catalogue Number**

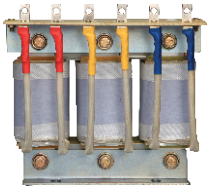
Capacitor Series	kVAr ratings		
	440 V	**480 V**	**525 V**
LTCCF	1, 2, 3, 4, 5, 6	1.2, 2.2, 3.3, 4.4, 5.5	1.3, 2.6, 3.9, 5.3, 6.6
LTBCF	1, 2, 3, 4, 5, 6	-	-
LTCCD/LTBCD	7.5, 8.33, 10, 12.5, 15, 20, 25, 30*	11.1, 13.8, 16.6, 22.1, 27.7	13.2, 16.6, 20, 26.5, 30, 33.1
LTCCH	1, 2, 3, 4, 5, 7.5, 10, 12.5, 15, 20, 25, 30	1.2, 2.2, 3.3, 4.4, 5.5, 11.1, 13.8, 16.6, 22.1, 27.7	1.3, 2.6, 3.9, 5.3, 6.6, 13.2, 16.6, 20, 26.5, 30, 33.1
LTBCH	1, 2, 3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25, 30, 50	5.5, 11.1, 15, 20, 25, 27.7	6.6, 13.2, 15, 20, 25, 30, 33.1
LTCCN	7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 12.5, 15, 20, 25, 30	7.5, 12.5, 15, 20, 25, 30, 33.1
LTCCR	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	1.2, 2.2, 3.3, 4.4, 5.5, 11.1, 15, 20, 25, 27.7	1.3, 2.6, 3.9, 5, 6.6, 13.2, 15, 20, 25, 30, 33.3
LTBCP	5, 7.5, 10, 12.5, 15, 20, 25, 50	5.5, 11.1, 13.8, 16.6, 22.1, 27.7, 55.3	6.6, 13.2, 16.6, 20, 26.5, 30, 33.1, 66.2
LTCCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 10, 12.5, 15, 20	7.5, 10, 12.5, 15, 20
LTBCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25, 30, 50	7.5, 10, 12.5, 15, 20, 25, 30	7.5, 12.5, 15, 20, 25, 30, 33.1

*Only LTBCD is available at 30 kVAr

Detuned Reactors, 440 V, 50 Hz [8504]

Features

- Copper & Aluminium wound reactors
- H-class insulation
- Lower operating losses
- 180% linearity*
- Thermal cut off
- High Quality Factor



kVAr Rating	7% Copper Reactor		7% Aluminium Reactor		14% Copper Reactor		14% Aluminium Reactor	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
1	**LTFR0701B2**	**15821**	**LTAL0701B2**	**9733**	**LTFR1401B2**	**30755**	**LTAL1401B2**	**16062**
2	**LTFR0702B2**	**17277**	**LTAL0702B2**	**10616**	**LTFR1402B2**	**33528**	**LTAL1402B2**	**17493**
3	**LTFR0703B2**	**19585**	**LTAL0703B2**	**12024**	**LTFR1403B2**	**38025**	**LTAL1403B2**	**19821**
4	**LTFR0704B2**	**20817**	**LTAL0704B2**	**12783**	**LTFR1404B2**	**40427**	**LTAL1404B2**	**21085**
5	**LTFR0705B2**	**23373**	**LTAL0705B2**	**13822**	**LTFR1405B2**	**43710**	**LTAL1405B2**	**24124**
10	**LTFR0710B2**	**31927**	**LTAL0710B2**	**19617**	**LTFR1410B2**	**61958**	**LTAL1410B2**	**34314**
12.5	**LTFR0712B2**	**36028**	**LTAL0712B2**	**21936**	**LTFR1412B2**	**67971**	**LTAL1412B2**	**39308**
15	**LTFR0715B2**	**41851**	**LTAL0715B2**	**26320**	**LTFR1415B2**	**74783**	**LTAL1415B2**	**46966**
20	**LTFR0720B2**	**46350**	**LTAL0720B2**	**29294**	**LTFR1420B2**	**86616**	**LTAL1420B2**	**53387**
25	**LTFR0725B2**	**47256**	**LTAL0725B2**	**29857**	**LTFR1425B2**	**95122**	**LTAL1425B2**	**54818**
50	**LTFR0750B2**	**79216**	**LTAL0750B2**	**46489**	**LTFR1450B2**	**153681**	**LTAL1450B2**	**77441**
75	**LTFR0775B2**	**117745**	**LTAL0775B2**	**68475**	**LTFR1475B2**	**222318**	**LTAL1475B2**	**115138**
100	**LTFR0700B2**	**153209**	**LTAL0700B2**	**94093**	**LTFR1400B2**	**297019**	**LTAL1400B2**	**155251**

* Prices of 200% linearity reactors are available on request.

For industries with High Voltage Harmonics, **special solutions** are available on request. Contact your nearest sales office for the customised solutions.

Selection of capacitors for detuned harmonic filter application

Step Size & 440 V Reactor rating (kVAr)	With 7% detuned reactor			With 14% detuned reactor	
	Capacitor series	480 V Capacitor (kVAr)	525 V Capacitor (kVAr)	Capacitor series	525 V Capacitor (kVAr)
1	LTCCF, LTCCH, LTCCR	1.2	1.3	LTCCF, LTCCH, LTCCR	1.3
2	LTCCF, LTCCH, LTCCR	2.2	2.6	LTCCF, LTCCH, LTCCR	2.6
3	LTCCF, LTCCH, LTCCR	3.3	3.9	LTCCF, LTCCH, LTCCR	3.9
4	LTCCF, LTCCH	4.4	5.3	LTCCF, LTCCH	5.3
	LTCCR		5	LTCCR	5
5	LTCCF, LTCCH, LTCCR, LTBCH, LTBCP	5.5	6.6	LTCCF, LTCCH, LTCCR, LTBCH, LTBCP	6.6
	LTCCN, LTCCU, LTBCU	7.5	7.5	LTCCN, LTCCU, LTBCU	7.5
10	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	11.1	13.2	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	13.2
	LTCCN, LTCCU, LTBCU	12.5	12.5	LTCCN, LTCCU, LTBCU	12.5
12.5	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	15	15	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	15
	LTCCD, LTCCH, LTBCD, LTBCP	13.8	16.6	LTCCD, LTCCH, LTBCD, LTBCP	16.6
15	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	20	20	LTCCD, LTCCN, LTCCH, LTCCR, LTCCU,	20
	LTCCD, LTCCH, LTBCD, LTBCP	16.6		LTBCD, LTBCH, LTBCP, LTBCU	
20	LTCCN, LTCCR, LTBCH, LTBCU	25	25	LTCCN, LTCCR, LTBCH, LTBCU	25
	LTCCD, LTCCH, LTBCD, LTBCP	22.1	26.5	LTCCD, LTCCH, LTBCD, LTBCP	26.5
	LTCCU	7.5 + 15	2 x 12.5	LTCCU	2x12.5
25	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	27.7	33.1	LTCCD, LTCCN, LTCCH, LTCCR,	30
	LTBCU, LTCCN	30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	12.5 + 15	15 + 20	LTCCU	(10+20)
50	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH	2 x 27.7	2 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR,	2 x 30
	LTBCU, LTCCN	2 x 30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	2 x (12.5 + 15)	2 x (15 + 20)	LTCCU	3 x 20
	LTBCP	55.3	66.2		
75	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH	3 x 27.7	3 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR,	3 x 30
	LTBCU, LTCCN	3 x 30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	3 x (12.5 + 15)	3 x (15 + 20)	LTCCU	(4 x 20) + 10
	LTBCP	27.7 + 55.3	33.1 + 66.2		
100	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	4 x 27.7	4 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR,	4 x 30
	LTBCU, LTCCN	4 x 30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	4 x (12.5 + 15)	4 x (15 + 20)	LTCCU	6 x 20
	LTBCP	2 x 55.3	2 x 66.2		



Capacitor Duty Contactors - Type MO C [8536]

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- **RoHS** compliant



Size	kVAr Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	3	MO C3	1NO	**CS96146**	**3480**	1
	5	MO C5	1NO	**CS96127**	**3700**	1
	8.5	MO C8.5	1NO	**CS96320**	**4800**	1
	10	MO C10	1NO	**CS96156**	**4910**	1
	12.5	MO C12.5	1NO	**CS96321**	**5180**	1
	15	MO C15	1NO	**CS90019**	**6980**	1
	20	MO C20	1NO	**CS90021**	**7770**	1
	25	MO C25▲	1NO	**CS96322**	**8370**	1
	30	MO C30$	1NO	**CS96148**	**13330**	1
Fr 2	40	MO C40	1NO	**CS96147**	**22120**	1
	50	MO C50	1NO	**CS96324**	**24830**	1
	60	MO C60$	1NO	**CS96149**	**25820**	1
Fr 3	75	MO C75	1NO	**CS96150**	**30870**	1
	85	MO C85	1NO	**CS96157**	**33220**	1
	100	MO C100$	1NO	**CS96158**	**33870**	1

Thyristor Switching Module, 440V 50Hz [8538] New

Features

- High Peak Inverse Voltage (PIV) - 2.2 kV
- Inbuilt control supply voltage
- Auto thermal cut off
- LEDs for various status/fault indications
- Ambient Temperature -10° C to 55° C
- No moving parts
- On-site self test logic
- Low operating losses
- 2 Nos Aux Contact outputs for fault and status



kVAr Rating	Cat. No.	M.R.P. (₹) Per Unit
10	**CS920490000**	**33245**
25	**CS920500000**	**47424**
50	**CS920510000**	**54317**

Note (TSM): Above prices include Quick Discharge Resistors (QDR)

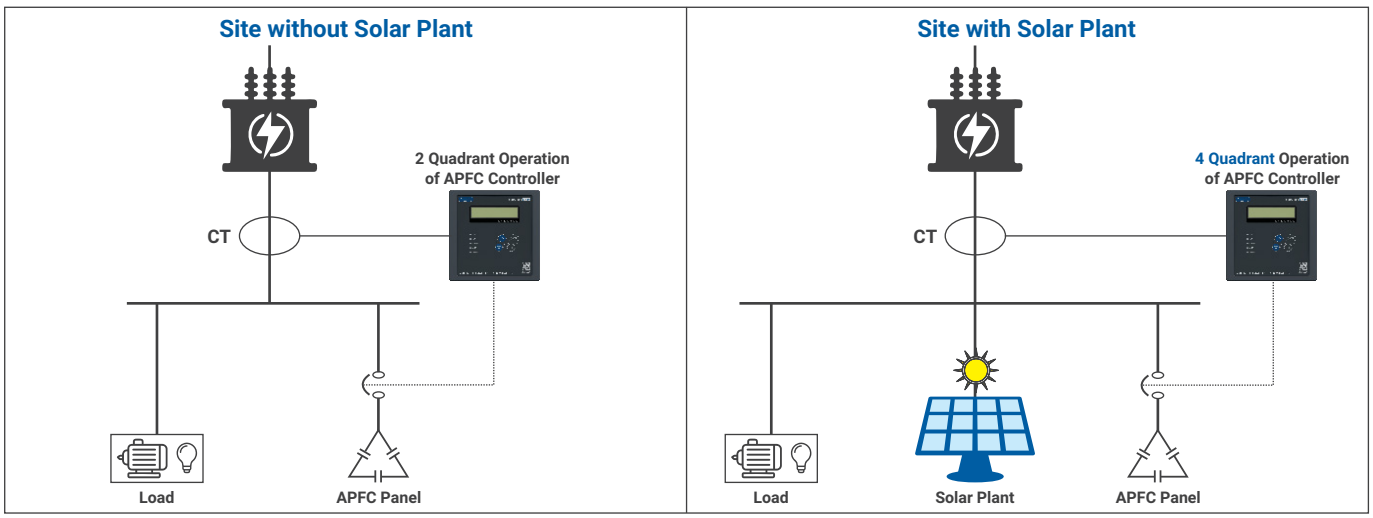
Note (MOC):

1) For ordering add-on aux. contact block, please refer page No. 8
2) For ordering suffix, please refer page No.10
3) For ordering spare coils, please refer page No. 11
4) Standard coil voltage : 240V, 50/60 Hz
5) For ordering MO C surge suppressor, please refer page No. 9

▲ If using 16 sq mm cable use of spreader link kit is mandatory
▲ For ordering spreader link kit, Please refer page No.9
$ Spreader link along with phase barrier included in packing

APFC Controller [8538]

etaSMART and etaULTRA Controllers are compatible for Sites with or without a Solar plant.



Enable 4 Quadrant setting in etaSMART and etaULTRA for site with Solar Plant.

etaULTRA - APFC Controller - 3 CT inputs

Features

- 3 Phase Current and Voltage measurement
- PF display - 3 Digit after decimal
- Individual harmonics measurement up to 31st order
- Dual PF setting for Mains - DG application
- Communication through Inbuilt MODBUS RS-485 Protocol
- Suitable for LT as well as HT side sensing

Cascading (Master - Slave configuration) for APFC panel with more than 16 steps



4 Quadrant Operation suitable for Solar Powered installations

Model Name	No. of steps (For Contactor switching)	No. of steps (For Thyristor switching)	Voltage Input	Cat No.	Size	M.R.P. (₹) Per Unit
etaULTRA 8R	8	0	110 / 415 V	CS910500000	144 x 144	31900
etaULTRA 16R	16	0		CS910510000		42790
etaULTRA 14T+2R	2	14		CS910530000		44740
etaULTRA 8T+8R	8	8		CS910540000		44740

Last Two Contacts can be programmed for Capacitor Switching / Alarm Function / Fan Control

etaSMART - APFC Controller - 1 CT input

Features

- Simple and Smart Controller
- Auto programming function available
- CT secondary - 1 / 5 Amp site selectable
- Measurement of Total harmonics distortion of current and voltage up to 13th order harmonics



4 Quadrant Operation suitable for Solar Powered installations

etaSMART T - APFC Controller for Thyristor Switching with 1 CT input

No. of steps (for Thyristor switching)	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
8	144 x 144	CS916140000	1/ 5 Amp	415 V	26800
12	144 x 144	CS916150000			33350
15	144 x 144	CS916160000			38990

One separate relay contact is available for Alarm

etaSMART R - APFC controller for Contactor switching with 1 CT input

No. of steps (For Contactor Switching)	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
4	96 x 96	CS908840000	1/ 5 Amp	415 V	12760
6	96 x 96	CS908850000			14520
8	96 x 96	CS909020000			17110
12	144 x 144	CS909030000			28290
14	144 x 144	CS909040000			34960
16	144 x 144	CS909050000			38070

Last Two Contacts can be Programmed for Capacitor Switching / Alarm Function / Fan Control

Power Factor Perfected, Harmonics Mitigated

Lauritz Knudsen
Electrical & Automation



ASVG & AHF

Experience the next generation of power quality solutions. Our Advanced Static VAR Generator (ASVG) & Active Harmonic Filter (AHF) Modules dynamically corrects power factor for varying loads and mitigates harmonic in the system, resulting in improved system performance and a longer equipment lifespan. ASVG & AHF Modules compatibility with Hybrid controller enables true hybrid solutions, offering greater control and flexibility.

- Ultra-High Speed compensation using IGBT
- Dynamic Stepless Power Factor Correction
- Harmonic Mitigation

Advanced Static VAR Generator (ASVG) [8504] New

ASVG Features

- Dynamic Stepless PF correction, Load balancing & Harmonic Mitigation
- Suitable for DPF & TPF improvement
- Harmonic Mitigation up to 15th Order
- Fast response time of 50 µsec
- Scalable architecture for future expansion
- Lower thermal losses
- Communicable –Inbuilt MODBUS RS485 Protocol
- Wall mount/ Rack Mount Modules
- True Hybrid Solution Compatibility

Hybrid controller

- Intuitive Touchscreen display
- Easy installation & programming
- 18 Ports to connect Capacitor banks (Thyristor & Cap. duty Contactor Switching)
- Alarm and Event Management
- Bar Chart Visualization



kVAr Rating	3P3W ASVG (415 V,-25%+15%)		3P4W ASVG (415 V,-25%+10%)	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
30	ASVG0030H3WD2*	On Request	ASVG0030H4WD2*	On Request
50	ASVG0050H3WD2*		ASVG0050H4WD2*	
100	ASVG0100H3WD2*		ASVG0100H4WD2*	
150	ASVG0150H3WD2*		ASVG0150H4WD2*	
30	ASVG0030N3RD2		ASVG0030N4RD2	
50	ASVG0050N3RD2		ASVG0050N4RD2	
100	ASVG0100N3RD2		ASVG0100N4RD2	
150	ASVG0150N3RD2		ASVG0150N4RD2	
Hybrid Controller / HMI				
18 Stage Relay O/P	ASVGHC18R00T		On Request	
18 Stage Thyristor O/P	ASVGHC00R18T			
9 Stage Relay 9 Stage Thyristor O/P	ASVGHC09R09T			
7 Inch HMI	ASVGHMI007			

*** ASVG module with inbuilt HMI**

Active Harmonic Filter (AHF) [8543]





ACTIVE HARMONIC FILTER - MODULE

Features

- Reduces THD within IEEE - 519 limits
- Harmonic Mitigation, Dynamic Stepless PF correction & Load balancing
- Advanced 3 Level Inverter topology
- Harmonic Mitigation up to 51st Order
- Fast response time of 50 µsec
- Lower thermal losses
- Scalable architecture for future expansion
- Communicable –Inbuilt MODBUS RS485 Protocol
- Wall mount/ Rack Mount Modules
- True Hybrid Solution Compatibility

Ampere Rating	3P3W AHF (415 V,-25%+15%)		3P4W AHF (415 V,-25%+10%)	
	Cat. No.*	M.R.P. (₹) Per Unit	Cat. No.*	M.R.P. (₹) Per Unit
30	**AHF0030H3WD2***	On Request	**AHF0030H4WD2***	On Request
50	**AHF0050H3WD2***		**AHF0050H4WD2***	
100	**AHF0100H3WD2***		**AHF0100H4WD2***	
150	**AHF0150H3WD2***		**AHF0150H4WD2***	
30	**AHF0030N3RD2**		**AHF0030N4RD2**	
50	**AHF0050N3RD2**		**AHF0050N4RD2**	
100	**AHF0100N3RD2**		**AHF0100N4RD2**	
150	**AHF0150N3RD2**		**AHF0150N4RD2**	
Hybrid Controller / HMI				
18 Stage Relay O/P	**AHFHC18R00T**	On Request		
18 Stage Thyristor O/P	**AHFHC00R18T**			
9 Stage Relay 9 Stage Thyristor O/P	**AHFHC09R09T**			
7 Inch HMI	**AHFHMI007**			

*** AHF module with inbuilt HMI**

ACTIVE HARMONIC FILTER

Features

- Reduces THD within IEEE - 519 limits
- Harmonic mitigation up to 50th Order
- Harmonic Mitigation, Dynamic Stepless PF correction & Load balancing
- With complete panel enclosure
- Up to 1000 Amp in a single enclosure
- Customizable to withstand in extreme environment
- Communicable – Inbuilt MODBUS RS485 Protocol
- Modular Design allowing for future expansion
- Ease of Monitoring using Touch Screen HMI
- Fully Customized as per site condition**

Contact your nearest sales office for customized solution.

Ampere Rating	3 Phase 3 wire AHF Without Neutral Compensation		3 Phase 4 wire AHF With Neutral Compensation	
	Cat. No.*	M.R.P. (₹) Per Unit	Cat. No.*	M.R.P. (₹) Per Unit
30	**AHF030431D2**	On Request	**AHF030441D2**	On Request
60	**AHF060431D2**		**AHF060441D2**	
100	**AHF100431D2**		**AHF100441D2**	
125	**AHF125433D2**		**AHF125443D2**	
150	**AHF150433D2**		**AHF150443D2**	
200	**AHF200433D2**		**AHF200443D2**	
250	**AHF250433D2**		**AHF250443D2**	
300	**AHF300433D2**		**AHF300443D2**	
400	**AHF400433D2**		**AHF400443D2**	
500	**AHF500433D2**		-	
600	**AHF600433D2**		-	
750	**AHF750433D2**		-	
1000	**AHF000433D2**		-	

*Standard CAT No. Configuration Cable Entry – Top/Cable Alley

**Customisable options available
IP Class – IP 40/IP 42/IP 54
Conformal Coating - (3C3)

Lauritz Knudsen
Electrical & Automation

INTRODUCING etaSYS HYBRID APFC PANEL



ENGINEERED BY LAURITZ KNUDSEN ENGINEERED BY

BUILT FOR TOTAL ACCOUNTABILITY.

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- Designed for 'Low Life-Cycle Cost'
- Integrated OEM Ecosystem
- Intelligent Thermal Management
- Optimised Total Cost of Ownership (TCO)
- Unified Hybrid Control Systems
- Smart Panels for Real-Time Monitoring and Analytics

*** Note: Hybrid Panel Combination - ASVG + APFC & AHF + APFC**

Suggested Step Ratings for APFC Panels

Panel Rating (kVAr)	Physical Step Size (kVAr)	No. of Physical Steps	Electrical Steps (All Possible Combination of Physical Steps)	No. of Electrical Steps
10	4 + 3 + 2 + 1	4	1,2,3,4...8,9,10	10
15	5 + 4 + 3 + 2 + 1	5	1,2,3,4...13,14,15	15
20	10 + 5 + 2x2 + 1	5	1,2,3,4...18,19,20	20
25	15 + 5 + 2x2 + 1	5	1,2,3,4...23,24,25	20
30	15 + 10 + 2x2 + 1	5	1,2,3,4...28,29,30	22
35	20 + 10 + 2x2 + 1	5	1,2,3,4...33,34,35	23
40	20 + 10 + 5 + 3 + 2	5	2,3,5,7...35,37,38,40	24
45	25 + 10 + 5 + 3 + 2	5	2,3,5,7...40,42,43,45	24
50	25 + 15 + 5 + 3 + 2	5	2,3,5,10...45,47,48,50	24
55	25 + 15 + 10 + 3 + 2	5	2,3,5,10....50,52,53,55	25
60	25 + 15 + 10 + 5 + 3 + 2	6	2,3,5,7....55,57,58,60	36
65	25 + 2x15 + 5 + 3 + 2	6	2,3,5,7....60,62,63,65	35
70	25 + 20 + 15 + 5 + 3 + 2	6	2,3,5,7....65,67,68,70	36
75	2x25 + 15 + 5 + 3 + 2	6	2,3,5,7....70,72,73,75	39
80	2x25 + 15 + 10 + 3 + 2	6	2,3,5,10....75,77,78,80	36
85	50 + 20 + 5 + 4 + 2x3	6	2,3,5,6....80,81,82,85	44
90	50 + 25 + 5 + 4 + 2x3	6	3,4,5,6....85,86,87,90	47
95	50 + 25 + 10 + 4 + 2x3	6	3,4,6,7....89,91,92,95	43
100	50 + 25 + 15 + 4 + 2x3	6	3,4,6,7....94,96,97,100	44
105	50 + 25 + 15 + 5 + 4 + 2x3	7	3,4,5,6....100,101,102,105	85
110	50 + 25 + 15 + 10 + 4 + 2x3	7	3,4,5,6....104,106,107,110	65
115	50 + 25 + 2x15 + 4 + 2x3	7	3,4,6,7....109,111,112,115	65

Panel Rating (kVAr)	Physical Step Size (kVAr)	No. of Physical Steps	Electrical Steps (All Possible Combination of Physical Steps)	No. of Electrical Steps
120	50 + 25 + 20 + 15 + 4 + 2x3	7	3,4,6,7....114,116,117,120	85
125	50 + 2x25 + 15 + 4 + 2x3	7	3,4,6,7....119,121,122,125	55
130	50 + 2x25 + 20 + 4 + 2x3	7	3,4,6,7....124,126,127,130	60
135	2x50 + 15 + 10 + 4 + 2x3	7	3,4,6,7....129,131,132,135	65
140	2x50 + 20 + 10 + 4 + 2x3	7	3,4,6,7....134,136,137,140	62
145	2x50 + 25 + 10 + 4 + 2x3	7	3,4,6,7....139,141,142,145	65
150	2x50 + 25 + 15 + 4 + 2x3	7	3,4,6,7....144,146,147,150	66
155	2x50 + 25 + 15 + 3x5	7	5,10,15,20....145,150,155	31
175	2x50 + 2x25 + 10 + 3x5	8	5,10,15,20....165,170,175	35
200	2x50 + 3x25 + 15 + 2x5	8	5,10,15,20...190,195,200	40
225	3x50 + 2x25 + 15 + 10	7	10,15,25,35...210,215,225	27
250	3x50 + 3x25 + 15 + 10	8	10,15,25,35...235,240,250	30
275	4x50 + 2x25 + 15 + 10	8	10,15,25,35...260,265,275	33
300	100 + 2x50 + 3x25 + 15 + 10	8	10,15,25,35...285,290,300	36
325	100 + 3x50 + 2x25 + 15 + 10	8	10,15,25,35...310,315,325	39
350	100 + 4x50 + 25 + 15 + 10	8	10,15,25,35...335,340,350	42
375	2x100 + 2x50 +2x25 + 15 + 10	8	10,15,25,35...360,365,375	45
400	2x100 + 2x50 + 4x25	8	25,50,75,100...350,375,400	16
425	2x100 + 3x50 + 3x25	8	25,50,75,100...375,400,425	17
450	2x100 + 3x50 + 4x25	9	25,50,75,100...400,425,450	18
475	2x100 + 4x50 + 3x25	9	25,50,75,100...425,450,475	19
500	2x100 + 5x50 + 2x25	9	25,50,75,100...450,475,500	20

Note: Above mentioned steps are typical recommendations, suitable for most of the industries. For accurate compensation, step size selection may have to be decided after studying load profile of that industry.

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numrAL

Draw-out Numerical Protection Relays with Intelligent Algorithm

- Comprehensive Protection along with Control and Monitoring
- Enhanced interface with Display and Modbus Communication

Current and Voltage-based Protection ▼



▲ Single Element and Multifunction Relays

Powered By SMARTCOMM

APPLICATIONS

DISTRIBUTED ENERGY SYSTEM:

Renewable and Grid Stability

EQUIPMENT PROTECTION:

Generator, Transformer and Motor

POWER GENERATION AND DISTRIBUTION SUBSTATIONS:

LV and MV applications

REAL TIME MONITORING AND PREDICTIVE ANALYTICS

with SmartComm

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Correlation between ANSI/IEEE device function number and relays																
ANSI Code	Function Name	Protection Relays														
		Single Function						Voltage and Frequency			Feeder		Motor Protection			
		REF11	NDR11	OCR11	RPR11	TCS11	PTF11	VPR11	VPR21	VPR22	FDR21	FDR22	eMPR 300I	iMMR	MM10	MPR21
27	AC under-voltage relay							✓	✓	✓				✓		
32	Power directional relay				✓											
37	Under current or under power relay												✓	✓	✓	✓
46	Reverse phase or phase balance current relay											✓	✓	✓	✓	✓
46BC	Broken conductor Protection											✓				
47	Phase-sequence or single-phasing voltage relay								✓	✓				✓		
48	Excessive Start Time Monitoring													✓	✓	✓
49	Machine or transformer thermal Overload relay											✓	✓	✓	✓	✓
50	Instantaneous overcurrent relay										✓	✓		✓	✓	✓
50N	Instantaneous Earth Fault relay			✓							✓	✓		✓		✓
50BF	Breaker - failure									✓		✓				✓
51	AC time over current relay										✓	✓	✓	✓		✓
51N-(51G)	Ground fault time over current relay / Standby Earth Fault Relay			✓							✓	✓		✓		✓
51LR	Locked rotor												✓	✓	✓	✓
59	AC over-voltage relay							✓	✓	✓				✓		
59N	Neutral Displacement Relay		✓						✓	✓						
59D	Positive Sequence Over-voltage protection								✓	✓						
64REF	Restricted Earth Fault Relay	✓														
64	Machine Ground Fault			✓									✓	✓	✓	✓
66	Max. no. of starts													✓		✓
81	Frequency relay								✓	✓				✓		
87N-(87G)	Ground fault differential protection relay*	✓														
74TCS	Trip Circuit supervision Protection					✓				✓		✓				✓
78	Vector surge protection relay									✓						
df/dt	Rate of change of frequency									✓						
SOTF	Switch On to Fault Protection											✓				
PTFF	PT Fuse failure						✓									

* REF11 is meant for Generator Differential Protection

3 Phase non-directional Over Current + Earth Fault Relay



- FDR21 – 50, 51, 50N, 51N.
- Microcontroller-based design
- Draw-out enclosure.
- CT rating#- 1A/ 5A (site selectable)
- Display of 250 event and 30 Trip records
- 128*64 graphical display

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL FDR21	20 - 60V DC	Non-Communicable	**NRFDR2A26NX**	**29680**
	85 - 265V AC, 87 - 265V DC	Non-Communicable	**NRFDR2B26NX**	**29680**

#- Protection Class CT

3 Phase non-directional Over Current + Earth Fault Relay



- FDR22 - 46BC, 49, 50, 51, 50N, 51N, 50BF, 74TCS, SOTF
- Microcontroller-based design
- Draw-out enclosure.
- CT rating#- 1A/ 5A (site selectable)
- Display of 250 event and 30 Trip records
- 128*64 graphical display
- Modbus RS-485 Communication
- Front Micro USB port for numrAL Suite

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL FDR22	20 - 60V DC	Modbus RS 485	**NRFDR2A27RA**	**37520**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRFDR2B27RA**	**37520**

#- Protection Class CT

Motor Protection Relay



- MPR21 – 37, 46, 48, 49, 50BF, 50, 51, 50N, 51N, 51LR, 64, 66, 74TCS.
- Microcontroller-based design
- Draw-out enclosure.
- CT rating#- 1A/ 5A (site selectable)
- Display of 250 event and 30 Trip records
- 128*64 graphical display
- Modbus RS-485 Communication
- Front Micro USB port for numrAL Suite

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL MPR21	20 - 60V DC	Modbus RS 485	**NRMPR2A28RA**	**69000**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRMPR2B28RA**	**69000**

#- Protection Class CT

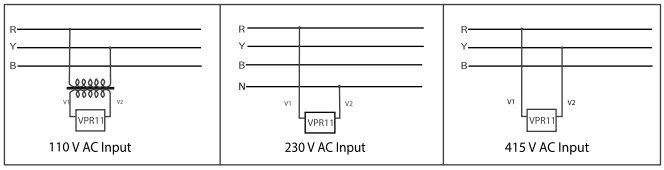
Single Pole Over Voltage + Under Voltage Relay

VPR11 - Single Pole Under Voltage and Over Voltage Relay (27, 59)



- Microcontroller-based design
- Draw-out Enclosure
- Single Phase OV + UV Protection
- System Voltage – 110/ 230/ 415 VAC (site programable)
- Inverse and definite time delay
- Display of Actual value and 5 Trip records

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL VPR11	20 - 60V DC	Non-communicable	**NRVPR1A11NX**	**21560**
	85 - 265V AC, 87 - 265V DC	Non-communicable	**NRVPR1B11NX**	**21560**
	20 - 60V DC	Modbus RS 485	**NRVPR1A11RA**	**26400**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRVPR1B11RA**	**26400**

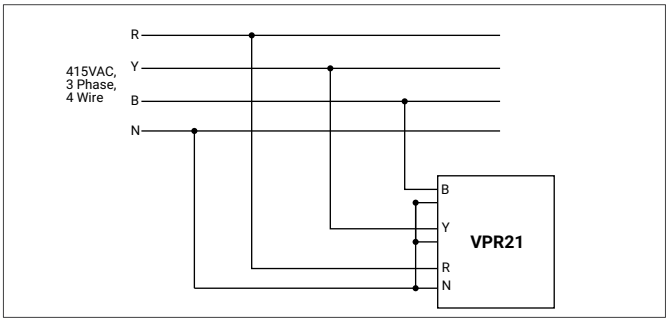


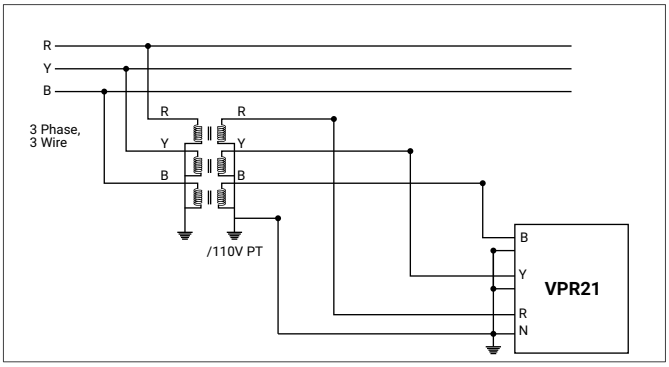
3 Phase Voltage + Frequency Relay



- VPR21 – 27, 47, 59, 59N, 81O/U
- Microcontroller-based design
- Draw-out enclosure.
- System Voltage – 110/ 230/ 415 VAC (site programable)
- Display of 250 event and 30 Trip records
- 128*64 graphical display

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL VPR21	20 - 60V DC	Non-Communicable	**NRVPR2A2ANX**	**33040**
	85 - 265V AC, 87 - 265V DC	Non-Communicable	**NRVPR2B2ANX**	**33040**





Restricted Earth Fault Relay

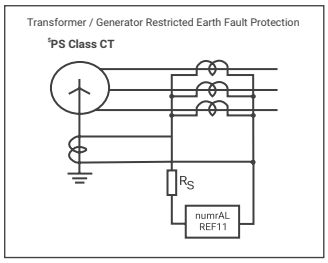
REF11 - Restricted Earth Fault Relay (87N/64REF)

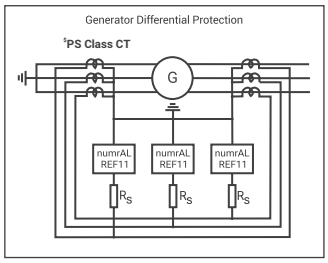


- Microcontroller-based design
- Draw-out Enclosure
- CT rating[$]- 1A/ 5A (site selectable)
- Single Phase high impedance Earth Fault
- Instantaneous and definite time delay [50 msec to 1 sec (programmable)]
- Built in third harmonic filter
- Display of Actual value and 5 Trip records

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL REF11	20 - 60V DC	Non-communicable	**NRREF1A10NX**	**21560**
	85 - 265V AC, 87 - 265V DC	Non-communicable	**NRREF1B10NX**	**21560**
	20 - 60V DC	Modbus RS 485	**NRREF1A10RA**	**26400**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRREF1B10RA**	**26400**

[$]- PS Class CT





Single Pole Over Current OR Earth Fault Relay

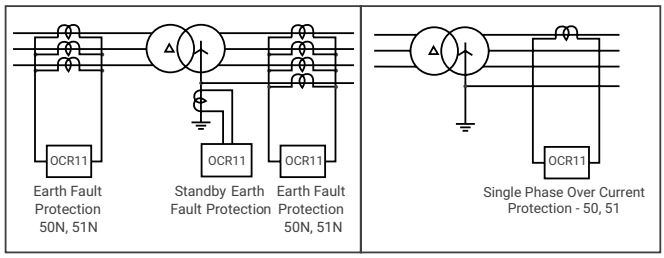
OCR11 – Single pole Over Current or Earth Fault Relay (50, 51 OR 50N, 51N)



- Microcontroller-based design
- Draw-out Enclosure
- Single Phase OC/ EF Protection
- CT rating[#] - 1A/ 5A (site selectable)
- Inverse and definite time delay
- Display of Actual Current value and 5 Trip records

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL OCR11	20 - 60V DC	Non-communicable	**NROCR1A10NX**	**21560**
	85 - 265V AC, 87 - 265V DC	Non-communicable	**NROCR1B10NX**	**21560**
	20 - 60V DC	Modbus RS 485	**NROCR1A10RA**	**26400**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NROCR1B10RA**	**26400**

[#]- Protection Class CT



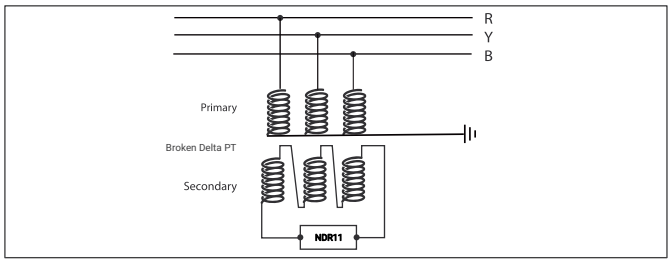
Neutral Displacement Relay

NDR11 - Neutral Displacement Relay (59N)



- Microcontroller-based design
- Draw-out Enclosure
- Single Phase OV Protection
- Definite & Normal inverse time delay
- Display of Actual value and 5 Trip records

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL NDR11	20 - 60V DC	Non-communicable	**NRNDR1A11NX**	**21560**
	85 - 265V AC, 87 - 265V DC	Non-communicable	**NRNDR1B11NX**	**21560**
	20 - 60V DC	Modbus RS 485	**NRNDR1A11RA**	**26400**
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRNDR1B11RA**	**26400**



Trip Circuit Supervision Relay

TCS11 – Trip Circuit Supervision Relay (74)



- Microcontroller-based design
- Draw-out Enclosure
- Monitors Trip Coil in Breaker ON & OFF condition
- Site selectable Trip Coil Voltage

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL TCS11*	20 - 60V DC	Non-Communicable	**NRTCS1A13NX**	**12880**
	85 - 265V AC, 87 - 265V DC	Non-Communicable	**NRTCS1B13NX**	**12880**

*Available on Request - Please contact our nearest branch for details

PT Fuse Failure Relay

PTF11 – PT Fuse Failure Relay (PTFF/97)



- Microcontroller-based design
- Draw-out Enclosure
- Monitors the healthiness of PT Fuse.
- 3 Separate sensing elements.

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL PTF11*	20 - 60V DC	Non-Communicable	**NRPTF1A14NX**	**12880**
	85 - 265V AC, 87 - 265V DC	Non-Communicable	**NRPTF1B14NX**	**12880**

*Available on Request - Please contact our nearest branch for details

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BECAUSE YOUR IT SYSTEMS CAN'T AFFORD DOWNTIME

Discover Insulation Monitoring Relay -Your first alert to insulation failure

Insulation Monitoring Relay



Hospitals & Pharmaceutical Facilities | Data Centres | Mining Operations
Railways & Transport Systems | Transportable & Mobile Cranes

- High visibility status indications
- Early fault detection with clear visual indication
- Test / Reset button
- Precise customizable threshold resistance with easy dial control
- Flexibility to operate in fail safe and non-fail safe mode

Reverse Power Relay

RPR11 – Reverse Power Relay (32)

› Microcontroller-based design
› Draw-out Enclosure
› Site selectable System Voltage - 110V / 415VAC



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL RPR11*	20 - 60V DC	Modbus RS 485	**NRRPR1A12RA**	*
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	**NRRPR1B12RA**	*

*Available on Request - Please contact our nearest branch for details

Insulation Monitoring Relay

New

Application: Monitoring of insulation resistance between Live conductors and Earth (Ground) in case of Unearthed (IT) electrical systems. Detection of insulation faults at earlier stage prevents electrical hazards such as electric shock, fire and equipment damage.

Features:

› Threshold resistance setting from 1K to 100K ohm
› Suitable for 1Phase and 3 Phase (Both 3W and 4W)
› Test/Reset function with remote and manual facility
› Indication of Power ON, Relay output and Fault.
› Both fail safe and non-failsafe relay option available

Application Segments:

1.Railways
2.Hospitals and Pharma
3.Data Centre
4.Mining



Description	Cat Code	M.R.P. (₹) Per Unit
System voltage up to 520V. Adjustable from 1-100K Ω with 2C/O	**IMR520**	**13260**

Single Element Lockout Relay - LocR

Features

› Lockout Relays [Master Trip Relay] - LocR
› Designed to operate the circuit breaker trip coils at high speed
› Available with Hand reset contact (HRC) and hand reset Flag (HRF)

Description	Output contacts	Reset Contacts	Reset Flag	Coil Voltage	Cat. No.	M.R.P. (₹) Per Unit
Single element Lockout relay	3NO + 2NC	Hand	Hand	**24VDC**	**L1H32DC024X**	**6000**
				110VDC	**L1H32DC110X**	**6000**
				220VDC	**L1H32DC220X**	**6000**
				110VAC	**L1H32AC110X**	**6000**
				230VAC	**L1H32AC230X**	**6000**



ANSI Code - 86

Three Element Auxiliary Relay - AuxR

Features

› AuxR relay provides additional contacts for interlocking, control and signal applications
› Available with hand reset or self-reset contacts and hand reset Flag

Description	Output Contacts	Reset Contacts	Reset Flag	Coil Voltage	Cat. No.	M.R.P. (₹) Per Unit
Three element Auxiliary relay	4 N/O	Hand	Hand	**24VDC**	**A3H40DC024X**	**12000**
				110VDC	**A3H40DC110X**	**12000**
				220VDC	**A3H40DC220X**	**12000**
				110VAC	**A3H40AC110X**	**12000**
				230VAC	**A3H40AC230X**	**12000**
Three element Auxiliary relay	2 N/O + 2 N/C	Auto	Hand	**24VDC**	**A3A22DC024X**	**12000**
				110VDC	**A3A22DC110X**	**12000**
				220VDC	**A3A22DC220X**	**12000**
				110VAC	**A3A22AC110X**	**12000**
				230VAC	**A3A22AC230X**	**12000**



Metering Devices [9028]

Single Phase kWh meter with LCD display



Model EM101+ Class 1 Base mounting

Description	Cat. No.	M.R.P. (₹) Per Unit
1P LCD Meter 5-30A	**WM101BC5DL0**	**2596**
1P LCD Meter 5-30A with BOX	**WM101BC5DL0BOX**	**3461**
1P LCD Meter 5-30A with OPTICAL PORT	**WM101BC5DDH**	**3567**
1P LCD Meter 5-30A with Optical port + BOX	**WM101BC5DDHBOX**	**4432**
1P LCD Meter 10-60A	**WM101BC7DL0**	**3061**
1P LCD Meter 10-60A with BOX	**WM101BC7DL0BOX**	**3860**
1P LCD Meter 10-60A with Optical Port	**WM101BC7DDH**	**3913**
1P LCD Meter 10-60A with Optical Port + BOX	**WM101BC7DDHBOX**	**4499**
1P LCD Meter 5-30 with Optical Port + RS232	**WM101BC5DLMSC**	**3993**

Trivector Meter Class 1 whole current meter



Model ER300P Class 1 (Base Mounting)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 240 V 10 - 60A BM	**WR300BC7300**	**12219**
3Ph, 4W TVM 240 V 10 - 60A BM with Hinge type Box*	**WR300BC73BOXH**	**15134**

*** - Available on request only and minimum order Quantity is 100 nos**

Trivector Meter Class 0.2s



Model ER300P Class 0.2s (Base Mounting)

- Inform CT/PT ratio while ordering
- Meters with DLMS Protocol (IS 15959)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.2s BM RS485 Modbus	**WR300BB11RS**	**105376**
3Ph, 4W TVM 110V (L-L) 5 A Class 0.2s BM RS485 Modbus	**WR300BB51RS**	**105376**

Meter Reading Instrument [8471]



Description	Cat. No.	M.R.P. (₹) Per Unit
Meter Reading Instrument - (16.5 MB)	**990MRIXX000**	**208581**
Meter Optical port to USB cable	**990PCXXUSB**	**2489**

3 Phase 4 Wire kWh meter LCD type



Model ER300P Base Mounting

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph 4 W kWh CT op base mtg 240V, /5A, Acc 0.5s	**WR301BC3C00**	**8279**
3Ph 4 W kWh Dir base mtg 240V 5-30 A Acc 1	**WR301BC4D20**	**6934**
3Ph 4 W kWh Dir base mtg 240V 10-40 A Acc 1	**WR301BC6D20**	**7135**
3Ph 4 W kWh Dir base mtg 240V 10-60 A Acc 1	**WR301BC7D10**	**9038**
3Ph 4 W kWh Dir base mtg 240V 20-100 A Acc 1	**WR301BC8D10**	**13097**

Trivector Meter Class 0.5s



Model ER300P Class 0.5s (Base Mounting)

- Inform CT/PT ratio while ordering
- Meters with DLMS Protocol (IS 15959)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.5s BM RS 485 Modbus#	**WR300BB12RS**	**48848**
3Ph, 4W TVM 110V (L-L) 5 A Class 0.5s BM RS 485 Modbus#	**WR300BB52RS**	**48848**
3Ph, 4W TVM 240V (L-N) 5 A Cl 0.5s BM RS 485 Modbus*	**WR300BC52RS**	**43803**

- Available on request
*** - Available on request only till stocks are cleared and minimum order Quantity is 100 nos**

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Multifunction Meter Selection Chart

Parameters Group	Parameters	Basic MFM	MFM					Advanced MFM	
		4400/ 4405	4410	4420	4425 (New)	4430	4440	5010	5000
Instantaneous Parameters	V1, V2, V3, V12, V23, V31, Avg (VLN, VLL)	✓	✓	✓	✓	✓	✓	✓	✓
	A1, A2, A3, Aavg	✓	✓	✓	✓	✓	✓	✓	✓
	An (Computed)		✓	✓	✓	✓	✓	✓	✓
	Frequency	✓	✓	✓	✓	✓	✓	✓	✓
	% A Unbal, % V Unbal (Avg and Phase wise)		✓	✓	✓	✓	✓	✓	✓
	PF-1, PF-2, PF-3, PF (Avg)	✓	✓	✓	✓	✓	✓	✓	✓
	RPM (Rotations per minute)		✓	✓	✓	✓	✓	✓	✓
	Phase Angle A°1, A°2, A°3, V°1, V°2, V°3		✓	✓	✓	✓	✓	✓	✓
	W1, W2, W3, W(total)	✓	✓	✓	✓	✓	✓	✓	✓
	VA1, VA2, VA3, VA(total)	✓	✓	✓	✓	✓	✓	✓	✓
	VAr1, VAr2, VAr3, VAr (total)		✓	✓	✓	✓	✓	✓	✓
Cumulative Parameters	Import Wh	✓*	✓	✓	✓	✓	✓	✓	✓
	Import VAh	✓*	✓	✓	✓	✓	✓	✓	✓
	Import VArh (Lead & Lag)		✓	✓	✓	✓	✓	✓	✓
	Import load hours	✓	✓	✓	✓	✓	✓	✓	✓
	Export Wh				✓	✓		✓	✓
	Export VAh				✓	✓		✓	✓
	Export VArh (Lead & Lag)				✓	✓		✓	✓
	Export run hours				✓	✓		✓	✓
	No of Interrupts		✓	✓	✓	✓	✓	✓	✓
Reset (old) Cumulative parameters	Import Wh	✓	✓	✓	✓	✓	✓	✓	✓
	Import VAh		✓	✓	✓	✓	✓	✓	✓
	Import VArh (Lead & Lag)		✓	✓	✓	✓	✓	✓	✓
	Import load hours	✓	✓	✓	✓	✓	✓	✓	✓
	Export Wh				✓	✓		✓	✓
	Export VAh				✓	✓		✓	✓
	Export VArh (Lead & Lag)				✓	✓		✓	✓
	Export run hours				✓	✓		✓	✓
Harmonic	V THD%, V1, V2, V3 - harmonic (31st)		✓	✓	✓	✓	✓	✓	✓
	A THD%, A1, A2, A3, - harmonic (31st)		✓	✓	✓	✓	✓	✓	✓
	Individual harmonics upto 31 st (V, A)				✓			✓	✓
Demand / Load parameters	Maximum demand MD W, MD VA, MD VAr - max avg A (without RTC)			✓		✓			
	Maximum demand MD W, MD VA, MD VAr - max avg A (with RTC)				✓		✓	✓	✓
	Max MD & occurence time							✓	✓
Min / Max value	VLL, VLN, A, F, W, VA, VAr, PF		✓	✓	✓	✓	✓	✓	✓
Storage	Datalog (8MB)								✓
Communication	RS485 Modus RTU	Optional	Optional	Optional		Optional	Optional	Optional	Optional
	Ethernet Port (Modbus TCP/IP)				✓				Optional
Input and Output	Digital and Analog (input and output)								Optional
	Pulse Output		Optional						Optional

✓* User will see either kWh or kVAh on the display.

Single Function Meters [9030]

1xxx Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 V AC / DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- Inbuilt selector switch for 3 phase meters
- CT/PT site programmable
- Frequency parameter available in 3Ph Voltmeter additionally



Description	Cat. No.	M.R.P. (₹) Per Unit
1Ph LED Ammeter Cl 1	WL1110100000	1130
1Ph LED Voltmeter Cl 1	WL1120100000	1130
3Ph LED Ammeter Cl 1	WL1310100000	1725
3Ph LED Voltmeter Cl 1	WL1320100000	1725
LED Freq meter Cl 0.2	WL1130400000	1130
1Ph LED Ammeter Cl 0.5	WL1110200000	1590
1Ph LED Voltmeter Cl 0.5	WL1120200000	1590
3Ph LED Ammeter Cl 0.5	WL1310200000	2000
3Ph LED Voltmeter Cl 0.5	WL1320200000	2000

Energy Meters [9030]

4000 Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- Auto scaling of Kilo, Mega and Giga
- Parameters: Site selectable kWh / kVA / PF / W, Old energy

kWh or kVAh is site selectable



Energy display in kWh in its lifetime#

Description	Cat. No.	M.R.P. (₹) Per Unit
kWh LED meter Cl 1	WL4000100000	3500
kWh LED meter Cl 1 with RS485	WL4000110000	3875
kWh LED meter Cl 0.5	WL4000200000	4445
kWh LED meter Cl 0.5 with RS485	WL4000210000	4825
kWh LCD meter Cl 1	WC4000100000	3965
kWh LCD meter Cl 1 with RS485	WC4000110000	4380
kWh LCD meter Cl 0.5	WC4000200000	4910
kWh LCD meter Cl 0.5 with RS485	WC4000210000	5285

For 415V LL and CT Primary value of 400 and below

VAF, VAF + PF Meters [9030]

41XX Series



- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- Parameters:VLL, VLN, A, F, PF, On Hrs, RPM

Description	Cat. No.	M.R.P. (₹) Per Unit
VAF meter, Cl 1 New	WL4100100000	1935
VAF + PF meter, Cl 1	WL4110100000	3210
VAF + PF meter with RS485, Cl 1	WL4110110000	4030
VAF + PF meter, Cl 0.5	WL4110200000	3690
VAF + PF meter with RS485, Cl 0.5	WL4110210000	4465

DIN Type Basic Multifunction Meters [9030]

New 40x0 Series



- DIN mounting whole current operated meter
- Accuracy Class 1.0
- Inbuilt RS485 option
- **Parameters :** Voltage, Current, kW, kWh, kVA, kVAh, RPM, Load hours, Interruptions

Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	WD4010100000	3940
Three Phase - 80A	5	WD4020100000	8530
Single Phase - 60A (RS485)	2	WD4010110000	5825
Three Phase - 80A (RS485)	5	WD4020110000	12870



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Compact, Accurate & Intelligent

Dual Source Basic MFM [9030]

4040 Series

kWh or kVAh is site selectable

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- DG sensing input 230 VAC
- Flush mounting 96 X 96 mm
- CT/PT site programmable
- Discrete LED for EB and DG
- True PF or Displacement PF site selectable
- Parameters on Display : kW, kVA, PF, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh
- Parameters on Communication : V, A, F, kW, kVA, PF, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh



LCD offers better readability of parameters

Description	Cat. No.	M.R.P. (₹) Per Unit
Dualsource LED meter Cl1	WL4040100000	6040
Dualsource LED meter Cl1 with RS485	WL4040110000	7100
Dualsource LED meter Cl0.5	WL4040200000	7170
Dualsource LED meter Cl0.5 with RS485	WL4040210000	8400
Dualsource LCD meter Cl1	WC4040100000	6640
Dualsource LCD meter Cl1 with RS485	WC4040110000	7725
Dualsource LCD meter Cl0.5	WC4040200000	7785
Dualsource LCD meter Cl0.5 with RS485	WC4040210000	8915

Basic Multifunction Meters [9030]

4400 Series

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- True PF or Displacement PF site selectable
- V, A, F, PF, kW, kVA, Old energy, Load hours, site selectable kWh/ kVAh



LCD offers better readability of parameters

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4400 LED meter Cl 1	WL4400100000	5790
MFM 4400 LED meter Cl 1 with RS485	WL4400110000	6685
MFM 4400 LED meter Cl 0.5 with RS485	WL4400210000	7680
MFM 4400 LED meter Cl 0.5S with RS485	WL4400310000	7760
MFM 4400 LCD meter Cl 1	WC4400100000	6090
MFM 4400 LCD meter Cl 1 with RS485	WC4400110000	7065

Basic Multifunction Meters [9030]

4405 Series

All parameters of 4400 series in 3 line LED display

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- V, A, F, PF, kW, kVA, Old energy, On and Run hours, site selectable kWh/ kVAh
- True PF or Displacement PF site selectable



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4405 LED meter Cl 1	WL4405100000	7485
MFM 4405 LED meter Cl 1 with RS485	WL4405110000	8455
MFM 4405 LED meter Cl 0.5 with RS485	WL4405210000	9720
MFM 4405 LED meter Cl 0.5S with RS485	WL4405310000	9790

Multifunction Meters [9030]

Features

- Accuracy Class 1.0, 0.5, 0.5S, 0.2, 0.2S
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- 128 samples / cycle
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters
- Dedicated buttons available for direct access to Basic, Power and Energy parameters

True and Displacement PF available

Constant Wh viewing in LCD MFM even in auto scroll mode. LCD offers better readability of parameters



4410 Series

- Parameters: V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh, Runhours, On hours, Phase angle, Interrupts, THD, Events (High-Low), Neutral Current, K Factor

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4410 LED meter Cl 1	WL4410100000	10840
MFM 4410 LED meter Cl 1 with RS485	WL4410110000	12185
MFM 4410 LED meter Cl 0.5 with RS485	WL4410210000	14005
MFM 4410 LED meter Cl 0.5S with RS485	WL4410310000	15480
MFM 4410 LED meter Cl 0.2 with RS485	WL4410410000	18430
MFM 4410 LED meter Cl 0.2S with RS485	WL4410510000	23590
MFM 4410 LCD meter Cl 1	WC4410100000	12745
MFM 4410 LCD meter Cl 1 with RS485	WC4410110000	13640
MFM 4410 LCD meter Cl 0.5 with RS485	WC4410210000	15910
MFM 4410 LCD meter Cl 0.5S with RS485	WC4410310000	17430
MFM 4410 LCD meter Cl 0.2 with RS485	WC4410410000	20465
MFM 4410 LCD meter Cl 0.2S with RS485	WC4410510000	25760

Multifunction Meters [9030]

4420 Series Max Demand Indicator (without Real time clock)

Parameters

- All parameters of 4410 series
- Maximum Demand (kW or kVA)

Standard 2 Relay outputs for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4420 LED meter Cl 1	WL4420100000	15965
MFM 4420 LED meter Cl 1 with RS485	WL4420110000	17135
MFM 4420 LED meter Cl 0.5 with RS485	WL4420210000	18810
MFM 4420 LED meter Cl 0.5S with RS485	WL4420310000	20260
MFM 4420 LED meter Cl 0.2 with RS485	WL4420410000	23155
MFM 4420 LED meter Cl 0.2S with RS485	WL4420510000	28220
MFM 4420 LCD meter Cl 1	WC4420100000	18285
MFM 4420 LCD meter Cl 1 with RS485	WC4420110000	19585
MFM 4420 LCD meter Cl 0.5 with RS485	WC4420210000	21225
MFM 4420 LCD meter Cl 0.5S with RS485	WC4420310000	22735
MFM 4420 LCD meter Cl 0.2 with RS485	WC4420410000	25760
MFM 4420 LCD meter Cl 0.2S with Rs485	WC4420510000	31080

For Max Demand Controller (with Real time clock) please refer 6000 series

4425 Series MFM for Import-Export New

Parameters

- All parameters of 4420 series with Bi-directional (Import-Export)
- Demand parameters with Individual Harmonics up to 31st order
- Built-in Ethernet port for communication

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4425 LED meter I/E Cl 1 with Ethernet	WL4425120000	22175
MFM 4425 LED meter I/E Cl 0.5s with Ethernet	WL4425320000	26215
MFM 4425 LED meter I/E Cl 0.2S with Ethernet	WL4425520000	29570

4430 Series MFM for Import-Export

Parameters

- All parameters of Model 4420 series
- Bi-directional (Import-Export)

Standard 2 Relay outputs for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4430 LED meter Cl 1	WL4430100000	22405
MFM 4430 LED meter Cl 1 with RS485	WL4430110000	23370
MFM 4430 LED meter Cl 0.5 with RS485	WL4430210000	24795
MFM 4430 LED meter Cl 0.5S with RS485	WL4430310000	26170
MFM 4430 LED meter Cl 0.2 with RS485	WL4430410000	28935
MFM 4430 LED meter Cl 0.2S with RS485	WL4430510000	33760
MFM 4430 LCD meter Cl 1	WC4430100000	23820
MFM 4430 LCD meter Cl 1 with RS485	WC4430110000	24740
MFM 4430 LCD meter Cl 0.5 with RS485	WC4430210000	26170
MFM 4430 LCD meter Cl 0.5S with RS485	WC4430310000	27555
MFM 4430 LCD meter Cl 0.2 with RS485	WC4430410000	30310
MFM 4430 LCD meter Cl 0.2S with RS485	WC4430510000	35140

4440 Series

Parameters

- All parameters of 4410 series
- Maximum Demand with Real Time Clock (RTC)
- Events (high-low) with time stamp

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4440 LED meter Cl 1 with RS485	WL4440110000	19025
MFM 4440 LED meter Cl 0.5 with RS485	WL4440210000	21385
MFM 4440 LED meter Cl 0.2 with RS485	WL4440410000	26145
MFM 4440 LCD meter Cl 1 with RS485	WC4440110000	20610
MFM 4440 LCD meter Cl 0.5 with RS485	WC4440210000	22975
MFM 4440 LCD meter Cl 0.2 with RS485	WC4440410000	27735

Advanced Multifunction Meters [9030]

5000 Series

Features

- Datalog (8 MB)
- Bi-directional (Import - Export)
- 128 samples/ cycle
- Analog I/O, digital I/O variants available
- Meter with Built-in Ethernet port available

True and Displacement PF available

Parameters

- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Interupts, Phase angle, THD, Neutral current, Max Demand (with RTC) K Factor
- Bi-directional (Import-Export)
- Events (high-low) with time stamp
- Individual Harmonics upto 31st.
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters

Constant Wh viewing in LCD MFM even in auto scroll mode. LCD offers better readability of parameters



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5000 LED meter Cl 1 with RS485	WL5000110000	48500
MFM 5000 LED meter Cl 1 with Ethernet	WL5000120000	55110
MFM 5000 LED meter Cl 0.5 with Ethernet	WL5000220000	57470
MFM 5000 LED meter Cl 0.5S with Ethernet	WL5000320000	59055
MFM 5000 LCD meter Cl 1 with RS485	WC5000110000	50095
MFM 5000 LCD meter Cl 1 with Ethernet	WC5000120000	56690
MFM 5000 LCD meter Cl 0.5 with RS485	WC5000210000	52435
MFM 5000 LCD meter Cl 0.5S with RS485	WC5000310000	54020
MFM 5000 LCD meter Cl 0.5 with Ethernet	WC5000220000	59055
MFM 5000 LCD meter Cl 0.5S with Ethernet	WC5000320000	60615
MFM 5000 LCD meter Cl 0.2 with RS485	WC5000410000	57160
MFM 5000 LCD meter Cl 0.2S with RS485	WC5000510000	62675
MFM 5000 LED meter Cl 1 RS485 2A/O	WL500011OBOO	Price on request
MFM 5000 LED meter Cl 0.5 RS485 2D/I	WL500021OOBO	
MFM 5000 LED meter Cl 0.5 RS485 4D/O	WL500021OOOD	
MFM 5000 LCD meter Cl 1 RS485 2A/O	WC500011OBOO	
MFM 5000 LCD meter Cl 0.5 RS485 2D/I	WC500021OOBO	
MFM 5000 LCD meter Cl 0.5 RS485 4D/O	WC500021OOOD	
MFM 5000 LCD meter Cl 1 + RS485, 1AO, 1DO	WC500011OAOA	

5000 series with Digital outputs are preconfigured for

I - THD% at 8% and True PF at 0.98.

Meter can be site selected for parameters and values - A THD, VTHD, VA, W, under PF, under/over (VLL, A, F) with programmable trip time (1 to 180 sec) to protect the equipments from electrical abnormalities.

Parameters	Data Log Interval			
	15 Min	30 Min	45 Min	60 Min
	No. of Days			
1	10230	20460	30690	40920
2	6820	13640	20460	27280
4	4092	8184	12276	16368
9	2046	4092	6138	8184
14	1364	2728	4092	5456
29	682	1364	2046	2728

Advanced Multifunction Meters [9030]

5010 Series

Features

- 128 samples / cycle
- Running demand, max demand, prediction demand in single page window

True and Displacement PF available

Parameters

- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Interrupts, Phase angle, THD, Neutral current, Max Demand (with RTC)
- Bi-directional (Import-Export)
- Events (high-low) with time stamp
- Individual Harmonics upto 31st.



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5010 LED meter Cl 1	WL5010100000	16975
MFM 5010 LED meter Cl 1 with RS485	WL5010110000	17705
MFM 5010 LED meter Cl 0.5S	WL5010300000	20880
MFM 5010 LED meter Cl 0.5S with RS485	WL5010310000	22035
MFM 5010 LED meter Cl 0.2 with RS485	WL5010410000	24355

Maximum Demand Controller [9030]

6000 Series

Features

- Accuracy Class 1.0, 0.5S
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- Datalog (8MB)
- 4 relay outputs for Max. demand controller
- Time of Day (TOD) 6 slots available
- Block/sliding window site selectable
- Running demand, max demand, prediction demand in single page window
- Individual harmonics upto 31st.

8MB Datalog - Configurable for 29 parameters including kWh, Demand and Harmonics for Minimum 1 mins interval

Parameters

- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Intr, Phase angle, THD, Events, Neutral current, Max Demand (with RTC)



True and Displacement PF available

Description	Cat. No.	M.R.P. (₹) Per Unit
MDC 6000 LED meter Cl 1 with RS485	WL6000110000	43030
MDC 6000 LED meter Cl 0.5S with RS485	WL6000310000	47175
MDC 6000 LCD meter Cl 1 with RS485	WC6000110000	44680
MDC 6000 LCD meter Cl 0.5S with RS485	WC6000310000	48825

Power Quality Meter Range [9030]

WC7000 – Power Quality Monitor New

Parameters

- 512 samples/cycle with Class 0.2s accuracy as per IEC 62053-22
- LCD display with 4-digit instantaneous & 8-digit integrated readings
- Dual Communication Port (RS485 + Ethernet) with Web Server
- PQ Parameters Recording & monitoring like THD, TDD, Harmonics (up to 63rd order), Sag, Swell & Interruption.
- USB Port for Downloading Data Log
- TOU with up to 8 slots
- Standard 2DI & 2 DO



Description	Cat. No.	M.R.P. (₹) Per Unit
PQM 7000 LCD Cl0.2s RS485+Eth DL, sag+swell	WC700053OOBB	Price on request

WC8000 – Power Quality Analyzer New

Parameters

- 1024 samples/cycle with Class 0.2s accuracy as per IEC 62053-22
- Class A metering as per IEC 61000-4-30
- 5.0" Color TFT with capacitive touch
- PQ Parameters Recording & monitoring like THD, TDD, Odd, Even & Inter Harmonics (up to 127st order), Sag, Swell, Transient, Flicker, RVC & Interruption.
- USB port for data log download as well as Event Data in CommTrade Format
- Dual Communication Port (RS485 + Ethernet) with Web Server
- MQTT, SMTP, SNTP protocols for secured cloud publishing
- Report Generation - IEC 61000 - 4 - 30, IEEE 519, EN 50160, ITIC/CBEMA Curve



Description	Cat. No.	M.R.P. (₹) Per Unit
PQA 8000 Class A TFT Cl0.2s RS485+Eth DL	WC800053OOOO	Price on request

New SmartComm Edge [8517] SMARTCOMM Edge

Gateways and converters form the backbone of interconnected networks, and are a crucial link between our devices and cloud-based or on-premises software. They facilitate seamless communication, protocol translation, and data aggregation from various type of devices, enabling efficient data transmission and integration.

TG1000

- Modbus RS485 to MODBUS TCP/IP Gateway
- Easy integration with SmartComm EMS/PMS On-prem or 3rd party Software/HMI



MQ1000 *

- MQTT Gateway with Ethernet port
- Only Compatible with SmartComm EMS Cloud
- Compact & Secure
- Data storage in case of network failure
- Web browser-based configuration



Description	Cat. No.	M.R.P. (₹) Per Unit
MODBUS RTU to TCP/IP Gateway	**TG10000000**	**26620**

MQ2000 *

- 4G IoT Gateway with Sim Card (Modbus RS485 and MQTT support)
- Only Compatible with SmartComm EMS Cloud, SmartComm Operate and SmartComm IMS
- Compact & Secure
- Data storage in SD Card in case of network failure
- 4G with 2G fall back cellular connectivity



XR SERIES *

- 4G IoT Gateway with Dual Sim (Modbus RS485, Modbus TCP/IP and MQTT support)
- Only Compatible with SmartComm Operate
- Advanced VPN Routing
- Wide range of Industrial protocols support: IEC60870-5-101 Master / Slave , IEC 60870-5-104 Master / Slave , IEEE 62056-21 DLMS , DNP3 Slave



Thermal Monitoring Module

TMZ *

- Monitor temperature remotely
- Wireless monitoring of 8 critical joints in a switchboard with a single module
- Quick Installation and seamless Monitoring



ZG1000 *

Only Compatible with TMZ

- IEEE 802.15.4 to Modbus TCP/IP Gateway
- Built-in webpages for ease of monitoring and multi-client support
- Integrates with SmartComm PMS/HMI/any 3rd party software on the Modbus TCP/IP side



***For more details, please contact the nearest branch office**

LTXX* Series

Industrial Managed Ethernet Switch

Cyber-hardened (IEC 62443-4-1 & IEC 62443-4-2)
IEC 61850-3 & IEEE 1613 Compliant

- Managed Ethernet Switches with 8, 16, 24 Ports
- Redundant Ring with recovery time less than 30ms
- Supports RSTP/ MSTP, MRP protocol
- IEC 61850-3/IEEE 1613 certified Ethernet switch with up to 10Gb/s connection

***For further details please contact nearest branch.**



Lauritz Knudsen
Electrical & Automation

Simplifying AUTOMATION

Tailoring for YOU

Explore automation solutions tailored for your business. Our industry expertise and solution-centric approach deliver measurable value across diverse industries and geographies.



Our Automation Portfolio : AC Drives, Soft Starters, PLCs, HMIs, & SCADA

Customer Interaction Center (CIC)
Phone no.: 022-6932 7800
Web: www.LK-EA.com | E-mail: CIC@LK-EA.com

Scan to enquire

xD1000
Range : 0.37kW HD to 30kW ND

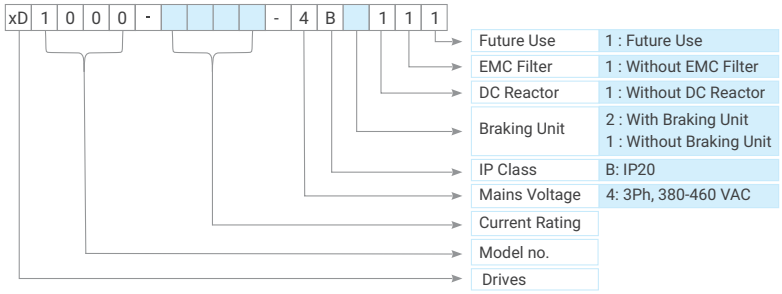


- Rated @ 55°C (HD), @ 50°C (ND)
- Transient overtorque 170%~200%
- 4 DIs, 2 DOs,1AI, 1AO
- Inbuilt PID with 4 Preset PID references, Sleep & Wakeup, Predictive speed
- Auxiliary Pump control
- Catch on the Fly
- Skip Frequency
- Automatic Restart
- Stall Prevention
- Current limiting function

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Three Phase 415 VAC	xD1000 415V Drive 0.37kW(HD)	**XD1000-01P5-4B1111**	S1	*
	xD1000 415V Drive 0.75kW(HD)	**XD1000-02P3-4B1111**	S1	*
	xD1000 415V Drive 1.50kW(HD)	**XD1000-04P1-4B2111**	S2	*
	xD1000 415V Drive 2.20kW(HD)	**XD1000-05P5-4B2111**	S2	*
	xD1000 415V Drive 3.00kW(HD)/4.00kW(ND)	**XD1000-08P9-4B2111**	S3	*
	xD1000 415V Drive 4.00kW(HD)/5.50kW(ND)	**XD1000-12P1-4B2111**	S3	*
	xD1000 415V Drive 5.50kW(HD)/7.50kW(ND)	**XD1000-16P0-4B2111**	S3	*
	xD1000 415V Drive 7.50kW(HD)/11.0kW(ND)	**XD1000-22P8-4B2111**	S4	*
	xD1000 415V Drive 11.0kW(HD)/15.0kW(ND)	**XD1000-30P0-4B2111**	S4	*
	xD1000 415V Drive 15.0kW(HD)/18.5kW(ND)	**XD1000-36P0-4B2111**	S5	*
	xD1000 415V Drive 18.5kW(HD)/22.0kW(ND)	**XD1000-43P0-4B2111**	S5	*
	xD1000 415V Drive 22.0kW(HD)/30.0kW(ND)	**XD1000-60P0-4B2111**	S6	*

Note: * For prices please contact nearest branch office

Ordering Information for **xD1000** AC Drive



xD2000
Range : 0.37kW HD to 160kW ND

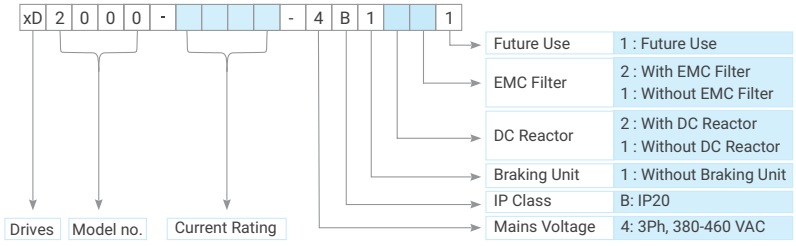


- Suitable for non-regenerative applications
- Rated for -15 to 45°C HD as well as ND ratings
- Inbuilt EMC filter with Category C3 EMC levels
- Inbuilt DC reactor from 4 kW to 160kW
- Inbuilt detachable LCD keypad
- 6 DIs, 3 ROs, 3 AIs, 2 AOs
- External 24 VDC connection to keep control circuit alive during power outage
- Pump and Compressor specific functions
- 2 functions to one DI
- Torque Boost (IR Compensation)
- Slip Compensation
- Auto Tuning
- Decel. Ramp Adaptation
- 16 Preset speeds
- Skip (Jump) Frequency
- Current Limitation
- DC Braking / Stop
- Freewheel Stop & Fast Stop

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Three Phase 415 VAC	XD2000 415V Drive 0.37kW(HD)/0.75kW(ND)	**XD2000-02P2-4B1121**	S1	*
	XD2000 415V Drive 0.75kW(HD)/1.50kW(ND)	**XD2000-04P0-4B1121**	S1	*
	XD2000 415V Drive 1.50kW(HD)/2.20kW(ND)	**XD2000-05P6-4B1121**	S1	*
	XD2000 415V Drive 2.20kW(HD)/3.00kW(ND)	**XD2000-07P2-4B1121**	S1	*
	XD2000 415V Drive 3.00kW(HD)/4.00kW(ND)	**XD2000-09P3-4B1221**	S1	*
	XD2000 415V Drive 4.00kW(HD)/5.50kW(ND)	**XD2000-12P7-4B1221**	S1	*
	XD2000 415V Drive 5.50kW(HD)/7.50kW(ND)	**XD2000-15P8-4B1221**	S1	*
	XD2000 415V Drive 7.50kW(HD)/11.0kW(ND)	**XD2000-23P5-4B1221**	S2	*
	XD2000 415V Drive 11.0kW(HD)/15.0kW(ND)	**XD2000-31P7-4B1221**	S2	*
	XD2000 415V Drive 15.0kW(HD)/18.5kW(ND)	**XD2000-39P2-4B1221**	S3	*
	XD2000 415V Drive 18.5kW(HD)/22.0kW(ND)	**XD2000-46P3-4B1221**	S3	*
	XD2000 415V Drive 22.0kW(HD)/30.0kW(ND)	**XD2000-61P5-4B1221**	S4	*
	XD2000 415V Drive 30.0kW(HD)/37.0kW(ND)	**XD2000-74P5-4B1221**	S4	*
	XD2000 415V Drive 37.0kW(HD)/45.0kW(ND)	**XD2000-88P0-4B1221**	S4	*
	XD2000 415V Drive 45.0kW(HD)/55.0kW(ND)	**XD2000-120P-4B1221**	S5	*
	XD2000 415V Drive 55.0kW(HD)/75.0kW(ND)	**XD2000-145P-4B1221**	S5	*
	XD2000 415V Drive 75.0kW(HD)/90.0kW(ND)	**XD2000-173P-4B1221**	S5	*
	XD2000 415V Drive 90.0kW(HD)/110kW(ND)	**XD2000-211P-4B1221**	S6	*
	XD2000 415V Drive 110kW(HD)/132kW(ND)	**XD2000-250P-4B1221**	S6	*
	XD2000 415V Drive 132kW(HD)/160kW(ND)	**XD2000-302P-4B1221**	S6	*

Note:
* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

Ordering Information for **xD2000** AC Drive



xD3000
Range: 0.18kW HD to 15kW HD



- Suitable for machine applications
- Rated for -10 to 50°C ambient temperature
- Inbuilt EMC filter for EMC category C2
- Inbuilt braking transistor
- 6 DIs, 3 DOs, 3 AIs, 1 AOs, 1 STO input
- External 24 VDC to keep control circuit on during power outages
- Delinearization for Analog Inputs
- Reference Addition, Subtraction & Multiplication
- Hoisting - External Brake Control, Load (External Weight) Measurement, High-speed Hoisting, Rope Slack
- Motor / Generator Torque Limit
- Line Contactor Control & Output Contactor Control
- Positioning by Limit Switches or Sensors
- Traverse control for textile machines
- 8 nos. trip history

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Single Phase 230 VAC	XD3000 230V 1Ph Drive 0.18kW(HD)	**XD3000-01P5-1B2121**	S1	*
	XD3000 230V 1Ph Drive 0.37kW(HD)	**XD3000-03P3-1B2121**	S1	*
	XD3000 230V 1Ph Drive 0.55kW(HD)	**XD3000-03P7-1B2121**	S1	*
	XD3000 230V 1Ph Drive 0.75kW(HD)	**XD3000-04P8-1B2121**	S1	*
	XD3000 230V 1Ph Drive 1.10kW(HD)	**XD3000-06P9-1B2121**	S2	*
	XD3000 230V 1Ph Drive 1.50kW(HD)	**XD3000-08P0-1B2121**	S2	*
	XD3000 230V 1Ph Drive 2.20kW(HD)	**XD3000-11P0-1B2121**	S2	*
Three Phase 230 VAC	XD3000 230V 3Ph Drive 0.18kW(HD)	**XD3000-01P5-2B2111**	S1	*
	XD3000 230V 3Ph Drive 0.37kW(HD)	**XD3000-03P3-2B2111**	S1	*
	XD3000 230V 3Ph Drive 0.55kW(HD)	**XD3000-03P7-2B2111**	S1	*
	XD3000 230V 3Ph Drive 0.75kW(HD)	**XD3000-04P8-2B2111**	S1	*
	XD3000 230V 3Ph Drive 1.10kW(HD)	**XD3000-06P9-2B2111**	S2	*
	XD3000 230V 3Ph Drive 1.50kW(HD)	**XD3000-08P0-2B2111**	S2	*
	XD3000 230V 3Ph Drive 2.20kW(HD)	**XD3000-11P0-2B2111**	S2	*
	XD3000 230V 3Ph Drive 3.00kW(HD)	**XD3000-13P7-2B2111**	S3	*
	XD3000 230V 3Ph Drive 4.00kW(HD)	**XD3000-17P5-2B2111**	S3	*
	XD3000 230V 3Ph Drive 5.50kW(HD)	**XD3000-27P5-2B2111**	S4	*
	XD3000 230V 3Ph Drive 7.50kW(HD)	**XD3000-33P0-2B2111**	S4	*
	XD3000 230V 3Ph Drive 11.0kW(HD)	**XD3000-54P0-2B2111**	S5	*
	XD3000 230V 3Ph Drive 15.0kW(HD)	**XD3000-66P0-2B2111**	S5	*
Three Phase 415 VAC	XD3000 415V 3Ph Drive 0.37kW(HD)	**XD3000-01P5-4B2121**	S2	*
	XD3000 415V 3Ph Drive 0.55kW(HD)	**XD3000-01P9-4B2121**	S2	*
	XD3000 415V 3Ph Drive 0.75kW(HD)	**XD3000-02P3-4B2121**	S2	*
	XD3000 415V 3Ph Drive 1.10kW(HD)	**XD3000-03P0-4B2121**	S2	*
	XD3000 415V 3Ph Drive 1.50kW(HD)	**XD3000-04P1-4B2121**	S2	*
	XD3000 415V 3Ph Drive 2.20kW(HD)	**XD3000-05P5-4B2121**	S3	*
	XD3000 415V 3Ph Drive 3.00kW(HD)	**XD3000-07P1-4B2121**	S3	*
	XD3000 415V 3Ph Drive 4.00kW(HD)	**XD3000-09P5-4B2121**	S3	*
	XD3000 415V 3Ph Drive 5.50kW(HD)	**XD3000-14P3-4B2121**	S4	*
	XD3000 415V 3Ph Drive 7.50kW(HD)	**XD3000-17P0-4B2121**	S4	*
	XD3000 415V 3Ph Drive 11.0kW(HD)	**XD3000-27P7-4B2121**	S5	*
	XD3000 415V 3Ph Drive 15.0kW(HD)	**XD3000-33P0-4B2121**	S5	*

Note:

* For prices please contact nearest branch office

Ordering Information for **xD3000** AC Drive

xD	3	0	0	0	-					-		B				1

Future Use	1 : Future Use
EMC Filter	2 : With EMC Filter 1 : Without EMC Filter
DC Reactor	1 : Without DC Reactor
Braking Unit	2 : With Braking Unit
IP Class	B: IP20
Mains Voltage	1: 1Ph, 200~240VAC 2 : 3Ph, 200~240VAC 4: 3Ph, 380-460 VAC
Current Rating	
Model no.	
Drives	

Lauritz Knudsen
Electrical & Automation

xD4000 IP55 DRIVE

COMPLYING TO IEC 60529
RANGE: 0.75kW ND TO 11kW ND

BUILDING

FOOD & BEVERAGES

TEXTILE

MINING, METAL, & MINERALS



PHARMA

WASTE WATER TREATMENT

Robust Protection
Designed for dusty, humid, and indoor industrial environments

Eliminates External Enclosure
Integrated DC choke, EMC filter & DBU. Reduced wiring, installation time & footprint

Cost & Time Saving
Eliminating the external VFD panel reducing both installation time and system cost

Digital-Architecture Ready
Modbus RTU, Modbus TCP/Ethernet IP, Profibus DP & Profinet S2 redundancy

xD4000
Range : 0.37kW HD to 315kW ND



- Detachable 8 line Graphical LCD keypad with battery for RTC & Help Menu
- Rated for -10 to 50°C ambient temperature
- Inbuilt DC Reactor over entire range
- Inbuilt EMC filter entire range for EMC levels C2 / C3
- Inbuilt Dual port Ethernet IP / Modbus TCP & Modbus RS485 ports
- Inbuilt Braking transistor upto 160kW HD.
- 8 DIs, 4 DOs, 3 AIs, 2 AOs, 2 STO inputs
- Crane specific functions
- Pump specific functions
- Line & Output Contactor control
- Load Sharing, Speed – Torque master slave
- Multi-motor configuration Mode
- Automatic Restart
- Catch on the fly (Flying Start)
- Fault Inhibition / Error detect disabling (Fire Mode)
- 15 nos. trip histories with date and time Stamp

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Three Phase 415 VAC	XD4000 415V Drive 0.37kW(HD)/0.75kW(ND)	**XD4000-02P2-4C2221**	S1	*
	XD4000 415V Drive 0.75kW(HD)/1.50kW(ND)	**XD4000-04P0-4C2221**	S1	*
	XD4000 415V Drive 1.50kW(HD)/2.20kW(ND)	**XD4000-05P6-4C2221**	S1	*
	XD4000 415V Drive 2.20kW(HD)/3.00kW(ND)	**XD4000-07P2-4C2221**	S1	*
	XD4000 415V Drive 3.00kW(HD)/4.00kW(ND)	**XD4000-09P3-4C2221**	S1	*
	XD4000 415V Drive 4.00kW(HD)/5.50kW(ND)	**XD4000-12P7-4C2221**	S1	*
	XD4000 415V Drive 5.50kW(HD)/7.50kW(ND)	**XD4000-16P5-4C2221**	S2	*
	XD4000 415V Drive 7.50kW(HD)/11.0kW(ND)	**XD4000-23P5-4C2221**	S2	*
	XD4000 415V Drive 11.0kW(HD)/15.0kW(ND)	**XD4000-31P7-4C2221**	S3	*
	XD4000 415V Drive 15.0kW(HD)/18.5kW(ND)	**XD4000-39P2-4C2221**	S3	*
	XD4000 415V Drive 18.5kW(HD)/22.0kW(ND)	**XD4000-46P3-4C2221**	S3	*
	XD4000 415V Drive 22.0kW(HD)/30.0kW(ND)	**XD4000-61P5-4C2221**	S4	*
	XD4000 415V Drive 30.0kW(HD)/37.0kW(ND)	**XD4000-74P5-4C2221**	S4	*
	XD4000 415V Drive 37.0kW(HD)/45.0kW(ND)	**XD4000-88P0-4C2221**	S4	*
	XD4000 415V Drive 45.0kW(HD)/55.0kW(ND)	**XD4000-106P-4C2221**	S5	*
	XD4000 415V Drive 55.0kW(HD)/75.0kW(ND)	**XD4000-145P-4C2221**	S5	*
	XD4000 415V Drive 75.0kW(HD)/90.0kW(ND)	**XD4000-173P-4C2221**	S5	*
	XD4000 415V Drive 90.0kW(HD)/110kW(ND)	**XD4000-211P-4B2221**	S6	*
	XD4000 415V Drive 110kW(HD)/132kW(ND)	**XD4000-250P-4B2221**	S6	*
	XD4000 415V Drive 132kW(HD)/160kW(ND)	**XD4000-302P-4B2221**	S6	*
	XD4000 415V Drive 160kW(HD)/220kW(ND)	**XD4000-427P-4A2221**	S7A	*
	XD4000 415V Drive 200kW(HD)/250kW(ND)	**XD4000-481P-4A1221**	S7B	*
	XD4000 415V Drive 250kW(HD)/315kW(ND)	**XD4000-616P-4A1221**	S7B	*
	XD4000 IP55 415V Drive 0.75kW(ND)	**XD4000-02P2-4S2221**	S1	*
	XD4000 IP55 415V Drive 1.50kW(ND)	**XD4000-04P0-4S2221**	S1	*
	XD4000 IP55 415V Drive 2.20kW(ND)	**XD4000-05P6-4S2221**	S1	*
	XD4000 IP55 415V Drive 3.00kW(ND)	**XD4000-07P2-4S2221**	S1	*
	XD4000 IP55 415V Drive 4.00kW(ND)	**XD4000-09P3-4S2221**	S1	*
	XD4000 IP55 415V Drive 5.50kW(ND)	**XD4000-12P7-4S2221**	S1	*
	XD4000 IP55 415V Drive 7.50kW(ND)	**XD4000-16P5-4S2221**	S2	*
	XD4000 IP55 415V Drive 11.0kW(ND)	**XD4000-23P5-4S2221**	S2	*

Note: * For prices please contact nearest branch office

xD4000 - IP55 with Inbuilt Power Disconnector
Range : 0.75kW ND to 11kW ND

- IP55 Complying to IEC 60529
- Built-In IP65 Graphical LCD Display with RTC
- Supports Asynchronous, PM synchronous & reluctance motors
- Built-in DC reactor & C2/C3 EMC filter for Harmonics & Noise reduction.
- Built-in dynamic braking unit.
- Starting Torque of 150% at 3Hz for V/f
- Built-in Brake Control & Macros
- Inbuilt PID with sleep & wake up feature
- Conformal coating complying to IEC 60721-3-3 class 3C3, 3S2 & 3M3
- Built-in RS 485 Modbus RTU & Modbus TCP/Ethernet IP communication and optional – Profinet S2 redundancy & Profibus



Ordering Information for **xD4000** AC Drive

xD	4	0	0	0	-					-	4	B				1

Future Use	1 : Future Use
EMC Filter	2 : With EMC Filter 1 : Without EMC Filter
DC Reactor	2 : With DC Reactor
Braking Unit	2 : With Braking Unit 1 : Without Braking Unit
IP Class	A = IP00 B = IP20 C = IP21 S = IP55
Mains Voltage	4 = 3Ph, 380-480 VAC
Current Rating	
Model no.	
Drives	

Accessories for AC Drives [8504]

Drive Model	Description	Cat. No.	M.R.P. (₹) Per Unit
xD1000	IP54 LED Remote Keypad	**XDOP-DOP-100**	*
xD2000	IP21 LCD Std. Graphical Keypad	**XDOP-DOP-300**	*
	Remote Mounting Kit for IP21 LCD Keypad	**XDKT-DOP-300**	*
	IP65 LCD Graphical Keypad	**XDOP-DOP-500**	*
	Mounting kit for IP65 LCD Keypad	**XDKT-DOP-500**	*
	IO Expansion Card-1 - 6DI,2DO,2AI	**XDIO-EX1-V01**	*
	IO Expansion Card-2 - 3RO	**XDIO-EX2-V01**	*
	Profibus-DP Comm. Card	**XDCI-PDP-V01**	*
xD3000	IP54 LED Remote Keypad	**XDOP-DOP-100**	*
	IP65 LCD Graphical Keypad	**XDOP-DOP-500**	*
	Mounting kit for IP65 LCD Keypad	**XDKT-DOP-500**	*
	Communication Option Module Adapter	**XDKT-ADP-V01**	*
	Speed Monitoring Card	**XDEN-SPD-V01**	*
	Modbus TCP/EtherNet IP Comm. Card	**XDCI-ETH-V01**	*
	EtherCAT Comm. Card	**XDCI-ECT-V01**	*
	Profibus-DP Comm. Card	**XDCI-PDP-V01**	*
	DeviceNet Comm. Card	**XDCI-DEN-V01**	*
	POWERLINK Comm. Card	**XDCI-PLN-V01**	*
	ProfiNet Comm. Card	**XDCI-PFN-V01**	*
	CANopen DaisyChain Comm. Card	**XDCI-CND-V01**	*
	CANopen SUB-D Comm. Card	**XDCI-CNS-V01**	*
	CANopen Terminals Comm. Card	**XDCI-CNT-V01**	*
	Additional Safety Integrity Module	**XDSI-SIM-V01**	*
xD4000	IP65 LCD Graphical Keypad	**XDOP-DOP-500**	*
	Mounting kit for IP65 LCD Keypad	**XDKT-DOP-500**	*
	IO Expansion Card-1 - 6DI,2DO,2AI	**XDIO-EX1-V01**	*
	IO Expansion Card-2 - 3RO	**XDIO-EX2-V01**	*
	Digital Encoder Interface Card	**XDEN-DEI-V01**	*
	Analog Encoder Interface Module	**XDEN-AEI-V01**	*
	Resolver Interface Module	**XDEN-REI-V01**	*
	HTL Encoder Interface Module	**XDEN-HEI-V01**	*
	Profibus-DP Comm. Card	**XDCI-PDP-V01**	*
	DeviceNet Comm. Card	**XDCI-DEN-V01**	*
	POWERLINK Comm. Card	**XDCI-PLN-V01**	*
	ProfiNet Comm. Card - Redundant	**XDCI-PFN-V02**	*
	CANopen DaisyChain Comm. Card	**XDCI-CND-V01**	*
	CANopen SUB-D Comm. Card	**XDCI-CNS-V01**	*
	CANopen Terminals Comm. Card	**XDCI-CNT-V01**	*

Note:
* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

xS1000 Soft Starters

Range: 18A to 200A



xS1000 Soft Starters:For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact in size
- Truly plug & play
- Communication options available

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS1000,18A,M:200-440VAC,C:110/230-440VAC	**XS1000-0018-B44111**	*	Built - In
xS1000,34A,M:200-440VAC,C:110/230-440VAC	**XS1000-0034-B44111**	*	
xS1000,42A,M:200-440VAC,C:110/230-440VAC	**XS1000-0042-B44111**	*	
xS1000,48A,M:200-440VAC,C:110/230-440VAC	**XS1000-0048-B44111**	*	
xS1000,60A,M:200-440VAC,C:110/230-440VAC	**XS1000-0060-B44111**	*	
xS1000,75A,M:200-440VAC,C:110/230-440VAC	**XS1000-0075-B44111**	*	
xS1000,85A,M:200-440VAC,C:110/230-440VAC	**XS1000-0085-B44111**	*	
xS1000,100A,M:200-440VAC,C110/230-440VAC	**XS1000-0100-B44111**	*	
xS1000,140A,M:200-440VAC,C110/230-440VAC	**XS1000-0140-B44111**	*	
xS1000,170A,M:200-440VAC,C110/230-440VAC	**XS1000-0170-B44111**	*	
xS1000,200A,M:200-440VAC,C110/230-440VAC	**XS1000-0200-B44111**	*	

xS2000 Soft Starters

Range: 18A to 200A



xS2000 Soft Starters:For standard applications

- Inbuilt Bypass Contactor
- Soft start / Soft stop / Adjustable current limit
- Essential motor protections against
  - Overload
  - Single phasing
  - Instantaneous overcurrent
  - Phase sequence reversal
  - Abnormality in supply
  - Unbalanced current
- Thermistor protection through PTC
- Excess start time setting
- Communication options available
- PC Interface as optional

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS2000,18A,M:200-440VAC,C:110/230-440VAC	**XS2000-0018-B44111**	*	Built - In
xS2000,34A,M:200-440VAC,C:110/230-440VAC	**XS2000-0034-B44111**	*	
xS2000,42A,M:200-440VAC,C:110/230-440VAC	**XS2000-0042-B44111**	*	
xS2000,48A,M:200-440VAC,C:110/230-440VAC	**XS2000-0048-B44111**	*	
xS2000,60A,M:200-440VAC,C:110/230-440VAC	**XS2000-0060-B44111**	*	
xS2000,75A,M:200-440VAC,C:110/230-440VAC	**XS2000-0075-B44111**	*	
xS2000,85A,M:200-440VAC,C:110/230-440VAC	**XS2000-0085-B44111**	*	
xS2000,100A,M:200-440VAC,C110/230-440VAC	**XS2000-0100-B44111**	*	
xS2000,140A,M:200-440VAC,C110/230-440VAC	**XS2000-0140-B44111**	*	
xS2000,170A,M:200-440VAC,C110/230-440VAC	**XS2000-0170-B44111**	*	
xS2000,200A,M:200-440VAC,C110/230-440VAC	**XS2000-0200-B44111**	*	

Note:

* For prices please contact nearest branch office

The above xS1000 & xS2000 ratings are based on 400% starting current, 10 starts per hour up to 60A & 6 starts per hour for 75A & above, 6 seconds starting time and ambient temperature of 40°C.

For proper sizing of soft starter based on the application parameters please use Winstart Software.

Ordering Information for **xS1000 & xS2000** Series Soft Starter

xS	nnnn	-	1234	-	B	V	C	D	F	F

xS	**Soft starters**
nnnn	**Soft starter Name**
	1000 xS1000
	2000 xS2000
1234	**Current Rating**
	1234 Nominal Current Rating
B	**Bypass Type**
	B Internal Bypass
V	**Mains Voltage**
	4 3Ph, 200-440VAC
	5 3Ph, 200-575VAC
C	**Control Voltage**
	1 24V AC/DC
	4 110/230-440V AC
D	**Graphical Display**
	1 No Graphical Display
F	**Future Use**
	1 Future Use
F	**Future Use**
	1 Future Use

We recommend the use of :

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.
3. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I^2T.

Note:

* For prices please contact nearest branch office
Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.

xS3000 Soft Starters

Range: 24A to 580A



- Built in bypass contactor
- Compact & Flexible Design
- Screw-less design for easy and fast servicing
- USB port for easy and fast commissioning and data extraction
- Full graphical display with multi-languages support
- Built-in Simulation Mode
- 384 event logs
- Communication options available
- Fire Mode Function
- Starts per hour count

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS3000,24A,M:200-525VAC,C:110/220VAC	**XS3000-0024-B52211**	*	Built - In
xS3000,42A,M:200-525VAC,C:110/220VAC	**XS3000-0042-B52211**	*	
xS3000,52A,M:200-525VAC,C:110/220VAC	**XS3000-0052-B52211**	*	
xS3000,64A,M:200-525VAC,C:110/220VAC	**XS3000-0064-B52211**	*	
xS3000,69A,M:200-525VAC,C:110/220VAC	**XS3000-0069-B52211**	*	
xS3000,105A,M:200-525VAC,C:110/220VAC	**XS3000-0105-B52211**	*	
xS3000,115A,M:200-525VAC,C:110/220VAC	**XS3000-0115-B52211**	*	
xS3000,135A,M:200-525VAC,C:110/220VAC	**XS3000-0135-B52211**	*	
xS3000,184A,M:200-525VAC,C:110/220VAC	**XS3000-0184-B52211**	*	
xS3000,200A,M:200-525VAC,C:110/220VAC	**XS3000-0200-B52211**	*	
xS3000,229A,M:200-525VAC,C:110/220VAC	**XS3000-0229-B52211**	*	
xS3000,250A,M:200-525VAC,C:110/220VAC	**XS3000-0250-B52211**	*	
xS3000,352A,M:200-525VAC,C:110/220VAC	**XS3000-0352-B52211**	*	
xS3000,397A,M:200-525VAC,C:110/220VAC	**XS3000-0397-B52211**	*	
xS3000,410A,M:200-525VAC,C:110/220VAC	**XS3000-0410-B52211**	*	
xS3000,550A,M:200-525VAC,C:110/220VAC	**XS3000-0550-B52211**	*	
xS3000,580A,M:200-525VAC,C:110/220VAC	**XS3000-0580-B52211**	*	

xS4000 Soft Starters

Range: 24A to 1250A



- Built in bypass contactor
- Compact & Flexible Design
- Screw-less design for easy and fast servicing
- USB port for easy and fast commissioning and data extraction
- Full graphical display with multi-languages support
- Real time graphs of motor operating performance
- 384 event logs with time stamping
- Advanced protection system
- Communication options available
- Smart card for level controlled pump activation and pump protection
- Under Voltage / Over Voltage protection available
- Fire Mode Function
- Starts per hour count
- Power through function available
- Scheduling based on RTC

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS4000,24A,M:200-525VAC,C:110/220VAC	**XS4000-0024-B52211**	*	Built - In
xS4000,42A,M:200-525VAC,C:110/220VAC	**XS4000-0042-B52211**	*	
xS4000,52A,M:200-525VAC,C:110/220VAC	**XS4000-0052-B52211**	*	
xS4000,64A,M:200-525VAC,C:110/220VAC	**XS4000-0064-B52211**	*	
xS4000,69A,M:200-525VAC,C:110/220VAC	**XS4000-0069-B52211**	*	
xS4000,105A,M:200-525VAC,C:110/220VAC	**XS4000-0105-B52211**	*	
xS4000,115A,M:200-525VAC,C:110/220VAC	**XS4000-0115-B52211**	*	
xS4000,135A,M:200-525VAC,C:110/220VAC	**XS4000-0135-B52211**	*	
xS4000,184A,M:200-525VAC,C:110/220VAC	**XS4000-0184-B52211**	*	
xS4000,200A,M:200-525VAC,C:110/220VAC	**XS4000-0200-B52211**	*	
xS4000,229A,M:200-525VAC,C:110/220VAC	**XS4000-0229-B52211**	*	
xS4000,250A,M:200-525VAC,C:110/220VAC	**XS4000-0250-B52211**	*	
xS4000,352A,M:200-525VAC,C:110/220VAC	**XS4000-0352-B52211**	*	
xS4000,397A,M:200-525VAC,C:110/220VAC	**XS4000-0397-B52211**	*	
xS4000,410A,M:200-525VAC,C:110/220VAC	**XS4000-0410-B52211**	*	
xS4000,550A,M:200-525VAC,C:110/220VAC	**XS4000-0550-B52211**	*	
xS4000,580A,M:200-525VAC,C:110/220VAC	**XS4000-0580-B52211**	*	
xS4000,835A,M:200-525VAC,C:110/220VAC	**XS4000-0835-B52211**	*	
xS4000,940A,M:200-525VAC,C:110/220VAC	**XS4000-0940-B52211**	*	
xS4000,1070A,M:200-525VAC,C:110/220VAC	**XS4000-1070-B52211**	*	
xS4000,1230A,M:200-525VAC,C:110/220VAC	**XS4000-1230-B52211**	*	
xS4000,1250A,M:200-525VAC,C:110/220VAC	**XS4000-1250-B52211**	*	
xS4000,735A,M:200-525VAC,C:110/220VAC	**XS4000-0735-C52211**	*	External bypass contactor (AC1 rating) All protections remain active during bypass operation
xS4000,830A,M:200-525VAC,C:110/220VAC	**XS4000-0830-C52211**	*	
xS4000,1025A,M:200-525VAC,C:110/220VAC	**XS4000-1025-C52211**	*	
xS4000,1170A,M:200-525VAC,C:110/220VAC	**XS4000-1170-C52211**	*	
xS4000,1220A,M:200-525VAC,C:110/220VAC	**XS4000-1220-C52211**	*	

xS	nnnn	-	1234	-	B	V	C	D	F	F

xS	**Soft starters**	
nnnn	**Soft starter Name**	
	3000	xS3000
	4000	xS4000
1234	**Current Rating**	
	1234	Nominal Current Rating
B	**Bypass Type**	
	B	Internal Bypass
	C	Continuous / External Bypass
V	**Mains Voltage**	
	5	3Ph, 200-525VAC
	6	3Ph, 380-600VAC
	7	3Ph, 380-690VAC

C	**Control Voltage**	
	1	24V AC/DC
	2	110-120/220-240V AC
D	**Graphical Display**	
	2	Fixed Graphical Display
F	**Future Use**	
	1	Future Use
F	**Future Use**	
	1	Future Use

Note:

* For prices please contact nearest branch office
Prices for 1000V and External Bypass soft starter below 735A available on request Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.

We recommend the use of :

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I^2T.
3. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.

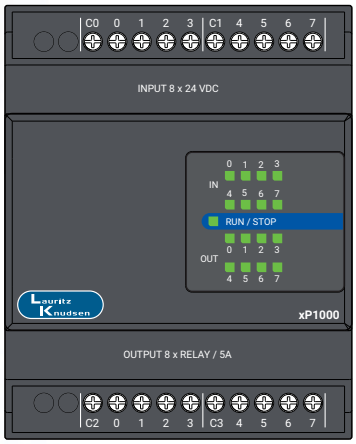
Optional Modules/Cards for xS Series



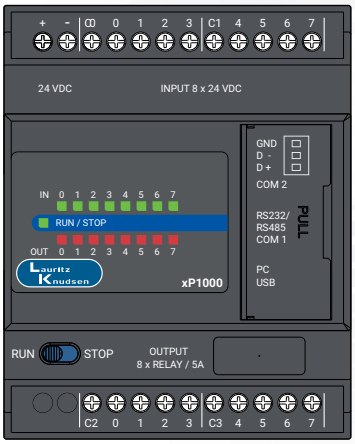
Description	Cat. No.	M.R.P. (₹) Per Unit
xS1000 & xS2000 Modbus RTU Card	**XSCI-RTU-121**	*
xS1000 & xS2000 Modbus TCP Card	**XSCI-TCP-123**	*
xS1000 & xS2000 Profibus Card	**XSCI-PDP-121**	*
xS1000 & xS2000 Profinet Card	**XSCI-PFN-122**	*
xS1000 & xS2000 Ethernet Card	**XSCI-ETH-122**	*
xS1000 & xS2000 DeviceNet Card	**XSCI-DEN-121**	*
xS1000 & xS2000 USB Interface Card	**XSCI-USB-121**	*
xS1000 & xS2000 Operator interface Card	**XSOP-DOC-100**	*
xS1000 & xS2000 Digital Operator Kit	**XSOP-DOK-100**	*
xS3000 and xS4000 Modbus RTU Card	**XSCI-RTU-341**	*
xS3000 and xS4000 Modbus RTU + GF Card	**XSCI-RTU-342**	*
xS3000 and xS4000 Modbus TCP + GF Card	**XSCI-TCP-343**	*
xS3000 and xS4000 Profibus Card	**XSCI-PDP-341**	*
xS3000 and xS4000 Profinet + GF Card	**XSCI-PFN-343**	*
xS3000 and xS4000 Ethernet + GF Card	**XSCI-ETH-343**	*
xS3000 and xS4000 DeviceNet Card	**XSCI-DEN-341**	*
xS3000 and xS4000 Operator & Cable	**XSOP-DOP-200**	*
xS3000 and xS4000 Operator Interface Card	**XSOP-DOC-200**	*
xS3000 and xS4000 Digital Operator Kit	**XSOP-DOK-200**	*
xS3000 and xS4000 Pumping Smart Card	**XSSC-PSC-341**	*

Note:
* For prices please contact nearest branch office
Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.









xP1000 PLC Features:

Main CPU

- 8 Digital Inputs
- 24 V DC Power Supply
- 8 Digital Outputs (Relay Output) 5 A (Res.) @ 230 VAC / 30 VDC
- 2 Serial Communication Ports
  (COM1 - RS232/RS485, COM2 - RS485)
- 256KB User Program Memory, 8KB User Data Memory.
- Operating Temperature : 0°C to 55°C,
  Storage Temperature: - 40°C to 70°C

Expansion Modules:

Digital I/Os

- Extension with 8 Digital Inputs and 8 Relay Outputs,
  Relay Load 5 A (Res.) @ 230 VAC / 30 VDC
- 24 V DC Power Supply

Analog Inputs

- Extension with 4 Analog Inputs (0-10V / 4-20mA)
- 24 V DC Power Supply

Analog Outputs

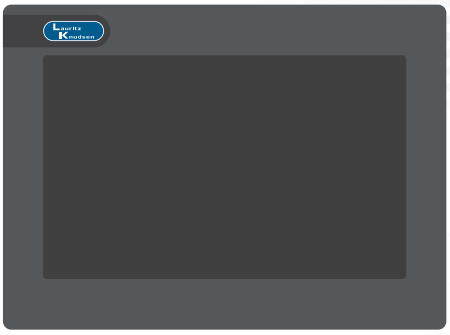
- Extension with 2 Analog Outputs (0-10V / 4-20mA)
- 24 V DC Power Supply



4.3 inch



7 inch



10.1 inch

xT1000 HMI Features:

- **HMI Size**
  4.3”, 7” & 10.1” with colour TFT display options with & without Ethernet model
- **Touch Screen**
  Higher brightness level up to 440 cd/m2 & long backlight life up to 50000 hours for display
- **Protection**
  Shock & Vibration protection as per IEC Standard
- **CPU**
  Equipped with powerful CPU Cortex-M7 (600MHz)
- **Data Logging**
  Equipped with powerful CPU Cortex-M7 (600MHz)
- **Operating Temperature**
  Operation temperature range: 0 to 50 °C
- **Memory**
  RAM - 32 MB for all Models
- **Password Management**
  User access levels & application password management
- **Safety Standards**
  CE, RoHS Compliant, IP 65 protection for front panel with Class 2 Pollution Degree.
- **Memory**
  ROM - 32 MB for Serial models & 64 MB for with Ethernet model, ROM Expandable up to 4 GB via USB Stick/SD card
- **Picture Library**
  Inbuilt picture library with high resolution images

xP5000 Series



- AC / DC power supply
- Supports Upto 196 IOs, Relay and transistor outputs
- Flexible I/Os, 2 cartridges, and up to 4 expansions
- Ethernet and Serial line ports
- Micro-SD card slot and USB port
- 2 High speed counters, 2@100KHz
- 2 Pulse Outputs at 100kHz*2



xP5000 Expansion Modules

- Digital Input Modules: 16 / 32 channel options
- Digital Output Modules: 8/16 / 32 channel options
- Analog Input Modules: 8 channels
  - Voltage: 0–10 V
  - Current: 4–20 mA
- Analog Output Modules: 4/8 channels
  - Voltage: 0–10 V
  - Current: 4–20 mA
- Mixed I/O Modules: Combined analog input and output channels (e.g., 4 AI + 2 AO).

Note: * For prices please contact nearest branch office

	Category	Description	Cat. No.	M.R.P. (₹) Per Unit
CPU	xP1000	xP1000 CPU, 8 DI,8 RO, 2 Serial Port.	**xP1000-MM1DR16AA11**	*
	xP1000 Expansions	Expansion 8 DI/ 8 RO	**xPEXPN-ME4DR16AA11**	*
		Expansion 4 AI	**xPEXPN-ME2AX04AA11**	*
		Extension with 2 Analog Outputs	**xPEXPN-ME3AY02AA11**	*
	xP3000	xP3000, CPU, AC220, 09DI, 07DO RY	**xP3000-M1DR16AA111**	*
		xP3000, CPU, AC220, 14DI, 10DO RY	**xP3000-M1DR24AA111**	*
		xP3000 CPU AC220 20DI 12DO RY	**xP3000-M1DR32AA111**	*
		xP3000, CPU, AC220, 24DI, 16DO RY	**xP3000-M1DR40AA111**	*
	xP5000	xP5000 CPU DC24 09DI 07DO TP	**xP5000-M1DT16AA111**	*
		xP5000 CPU DC24 09DI 07DO TN	**xP5000-M1DU16AA111**	*
		xP5000 CPU AC220 09DI 07DO RY	**xP5000-M1DR16AA111**	*
		xP5000 CPU DC24 14DI 10DO TN	**xP5000-M1DU24AA111**	*
		xP5000 CPU DC24 14DI 10DO TP	**xP5000-M1DT24AA111**	*
		xP5000 CPU AC220 14DI 10DO RY	**xP5000-M1DR24AA111**	*
		xP5000 CPU DC24 14DI 10DO TP Eth.	**xP5000-M1DT24EA111**	*
		xP5000, CPU, DC24, 14DI, 10DO TN Eth.	**xP5000-M1DU24EA111**	*
		xP5000 CPU AC220 14DI 10DO RY Eth	**xP5000-M1DR24EA111**	*
		xP5000, CPU, DC24, 20DI, 12DO TN	**xP5000-M1DU32AA111**	*
		xP5000 CPU DC24 20DI12DO TP	**xP5000-M1DT32AA111**	*
		xP5000 CPU AC220 18DI 14DO RY	**xP5000-M1DR32AA111**	*
		xP5000 CPU AC220 18DI 14DO RY Eth.	**xP5000-M1DR32EA111**	*
		xP5000,CPU, DC24, 24DI, 16DO TN	**xP5000-M1DU40AA111**	*
		xP5000 CPU DC24 24DI 16DO TP	**xP5000-M1DT40AA111**	*
		xP5000, CPU, AC220, 24DI, 16DO RY,	**xP5000-M1DR40AA111**	*
		xP5000 CPU DC24 24DI 16DO TP Eth.	**xP5000-M1DT40EA111**	*
		xP5000, CPU, DC24, 24DI, 16DO TN, Eth.	**xP5000-M1DU40EA111**	*
		xP5000 CPU AC220 24DI 16DO RY Eth	**xP5000-M1DR40EA111**	*
		xP5000 CPU AC220 36DI 24DO RY	**xP5000-M1DR60AA111**	*
		xP5000, CPU, AC220, 36DI, 24DO RY, 1 Eth	**xP5000-M1DR60EA111**	*
	xP5000 Expansion Modules	xPEXPN, 8 OUT RY	**xPEXPN-XLE3DR08AA1**	*
		xPEXPN, 8DC inputs ,8 relay outputs	**xPEXPN-XLE4DR16AA1**	*
		xPEXPN, 16 INPUTS	**xPEXPN-XLE2DX16AA1**	*
		xPEXPN, 16 OUT TR.NPN	**xPEXPN-XLE3DU16AA1**	*
		xPEXPN, 16 OUT RY	**xPEXPN-XLE3DR16AA1**	*
		xPEXPN, 16 OUT TR.PNP	**xPEXPN-XLE3DT16AA1**	*
		xPEXPN, 16DC inputs ,16 relay outputs	**xPEXPN-XLE4DR32AA1**	*
		xPEXPN, 32 INPUTS	**xPEXPN-XLE2DX32AA1**	*
		xPEXPN, 32 OUT TR.PNP	**xPEXPN-XLE3DT32AA1**	*
		xPEXPN, 32 OUT TR.NPN	**xPEXPN-XLE3DU32AA1**	*
		xPEXPN, 8 ANALOG INPUTS	**xPEXPN-XLE2AI08AA1**	*
		xPEXPN, 4 ANALOG OUTPUTS	**xPEXPN-XLE3XQ04AA1**	*
		xPEXPN, 4 AI 2 AO	**xPEXPN-XLE4AQ06AA1**	*
		xPCTRG, 1 isolated serial line RS485	**xPCTRG-XLO5CS01AB1**	*
		xPCTRG, 2 analog input ,1 analog output	**xPCTRG-XLO4AH03AA1**	*

xP6000 Series



xP6000 PLC with display | xP6000 without display | xP6100 PLC | Expansion Module

- HVAC & Refrigeration Dedicated PLC
- Ethernet & Serial Communication
- BACnet, Modbus & CANopen Support
- Scalable I/O Architecture
- Advanced PID Control
- BMS & SCADA Connectivity
- Remote Monitoring & Diagnostics
- High Reliability & Energy Efficiency
- Compact, Modular & OEM-Friendly Design

	Category	Description	Cat. No.	M.R.P. (₹) Per Unit
CPU	xP6000	xP6000 Perf. Blind 18 I/Os, Eth, 2 RS485	**xP6000M1DR18BA2E1**	*
		xP6000 Perf. Display 18 I/Os, Eth, 2 RS485	**xP6000M1DR18DA2E1**	*
		xP6000 Perf. Blind 28 I/Os, Eth, 2 MB	**xP6000M1DR28BA0E1**	*
		xP6000 Perf Blind 28 I/O Eth 2 RS485 Isol	**xP6000M1DR28BA2E1**	*
	xP6100	xP6000 Perf Display 28 I/O Eth 2RS485 Isol	**xP6000M1DR28DA2E1**	*
		xP6000 Perf Display 42 I/O Eth 2RS485 Isol	**xP6000M1DR42DA2E1**	*
		xP6000 Perf Blind 42 I/O Eth, 2 RS485 Isol	**xP6000M1DR42BA2E1**	*
		xP6100 Opt. Blind 22 I/Os, 2 RS485	**xP6100M1DR22BA2E0**	*
		xP6100 Opt. Display 22 I/Os, 2 RS485	**xP6100M1DR22DA2E0**	*
	Expansion	xP6000 Expansion Module 14I/O	**xPEXPNXLE7DR42AA1**	*
		xP6000 Expansion Module 28I/O	**xPEXPNXLE7DR102A1**	*
	Gateway	xP6000 Gateway Secure Interface	**xGWS00GW**	*
		xP6000 PlugIn Secure Interface	**xGWS00PI**	*

xT Series

- Wide Range upto 15” in size
- Application Memory: FLASH EPROM / Screen area: 64MB/User font area 8 MB / Logic program area: 132KB
- Backup Memory: Screen Area: SRAM 320KB,Variable Area: SRAM 64KB
- Various Communication Interface: Ethernet /RS-232C / RS-422/485
- USB host and device
- SD memory card interface
- Certificates: CE, RoHS

Category		Description	Cat. No.	M.R.P. (₹) Per Unit
HMI	xT1000	xT1000 series, 4" TFT, Serial,2 Port	**xT1000-E104SDAAA1**	*
		xT1000 series, 4" TFT, Serial,2 Port, 1 Eth Port	**xT1000-E104EDAAA1**	*
		xT1000 series, 7" TFT, Serial,2 Port	**xT1000-E107SDAAA1**	*
		xT1000 series, 7" TFT, Serial,2 Port, 1 Eth Port	**xT1000-E107EDAAA1**	*
		xT1000 series, 10" TFT, Serial,2 Port	**xT1000-E110SDAAA1**	*
		xT1000 series, 10" TFT, Serial,2 Port, 1 Eth Port	**xT1000-E110EDAAA1**	*
	xTE6000	xTE6000 Series 7 " HMI, DC 24V, Eth.	**xTE6000-07EDAA1**	*
		xTE6000 Series 10 " HMI, DC 24V, Eth.	**xTE6000-10EDAA1**	*
		xTE6000 Series 12 " HMI, DC 24V, Eth.	**xTE6000-12EDAA1**	*
		xTE6000 Series 15 " HMI, DC 24V, Eth.	**xTE6000-15EDAA1**	*
	xTS6000	xTS6000 Series 04” Advance HMI, DC 24V, Eth.	**xTS6000-04EDAA1**	*
		xTS6000 Series 07” Advance HMI, DC 24V, Eth.	**xTS6000-07EDAA1**	*
		xTS6000 Series 10” Advance HMI, DC 24V, Eth.	**xTS6000-10EDAA1**	*
		xTS6000 Series 12” Advance HMI, DC 24V, Eth.	**xTS6000-12EDAA1**	*
		xTS6000 Series 15” Advance HMI, DC 24V, Eth.	**xTS6000-15EDAA1**	*

Note: * For prices please contact nearest branch office



xTE6000_10inch



xTE6000_15inch



xTS6000_15inch

xTE6000

- Wide TFT Color Display (16 Million Colors)
- Resistive Touch Panel
- 24V DC Power Supply
- Compatible with GP-Pro EX Software
- Panel Mount Design
- Industrial Grade Construction

xTS6000

- Wide TFT Color LCD Display (16 Million Colors)
- Projected Capacitive Multi-Touch Panel
- High-Performance CPU for Faster Screen Processing
- Dual Ethernet Ports (on selected models)
- 24V DC Power Supply
- Compatible with GP-Pro EX Software
- Panel Mount Design
- Industrial Grade Construction (IP65 Front Protection)

Experience the robust performance of our ACCL

Single Phase ACCL



Mains rating : 30A

Genset rating : 1A to 30A

Three Phase ACCL
With MCX contactors inside

Range : 32A to 125A

CE



Settable overload current limit at DG side



Separate power consumption monitoring for Mains & Genset



Settable TPN / SPN mode for three phase and single phase DG supply



To Experience Scan or Click

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Miniature Circuit Breaker (MCB) [8536]

Range Highlights

- True contact indication for individual pole
- Label holder facility for all configurations
- Conforms to IS/IEC 60898 - 10kA
- Conforms to IS/IEC 60947 - 2
  - » 15kA C-curve till 40 A
  - » 10kA C-curve for 50A, 63A
- Available in B, C & D curves
- Low watt loss - almost 50% of the values prescribed by IS/IEC 60898
- Trip free mechanism
- Design based on advanced current limiting hammer trip mechanism
- No Line-Load bias
- Bi connect feature on both sides
- Suitable for accessory fitment







Rating	Modules 1 Mod = 17.5 mm	B-Curve Cat. No.	M.R.P. (₹) Per Unit	C-Curve Cat. No.	M.R.P. (₹) Per Unit	D-Curve Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)							
0.5A	1	-	-	BB10E50C	640	BB10E50D	665
1A	1	-	-	BB10010C	640	BB10010D	665
2A	1	-	-	BB10020C	640	BB10020D	665
3A	1	-	-	BB10030C	640	BB10030D	665
4A	1	-	-	BB10040C	640	BB10040D	665
6A	1	BB10060B	377	BB10060C	377	BB10060D	545
10A	1	BB10100B	377	BB10100C	377	BB10100D	545
16A	1	BB10160B	377	BB10160C	377	BB10160D	545
20A	1	BB10200B	377	BB10200C	377	BB10200D	545
25A	1	BB10250B	377	BB10250C	377	BB10250D	545
32A	1	BB10320B	377	BB10320C	377	BB10320D	545
40A	1	BB10400B	940	BB10400C	940	BB10400D	960
50A	1	BB10500B	940	BB10500C	940	BB10500D*	960
63A	1	BB10630B	940	BB10630C	940	BB10630D*	960
Double Pole (DP)							
0.5A	2	-	-	BB20E50C	1870	BB20E50D	1905
1A	2	-	-	BB20010C	1870	BB20010D	1905
2A	2	-	-	BB20020C	1870	BB20020D	1905
3A	2	-	-	BB20030C	1870	BB20030D	1905
4A	2	-	-	BB20040C	1870	BB20040D	1905
6A	2	BB20060B	1305	BB20060C	1305	BB20060D	1385
10A	2	BB20100B	1305	BB20100C	1305	BB20100D	1385
16A	2	BB20160B	1305	BB20160C	1305	BB20160D	1385
20A	2	BB20200B	1305	BB20200C	1305	BB20200D	1385
25A	2	BB20250B	1305	BB20250C	1305	BB20250D	1385
32A	2	BB20320B	1305	BB20320C	1305	BB20320D	1385
40A	2	BB20400B	2125	BB20400C	2125	BB20400D	2260
50A	2	BB20500B	2125	BB20500C	2125	BB20500D*	2260
63A	2	BB20630B	2125	BB20630C	2125	BB20630D*	2260
Three Pole (TP)							
0.5A	3	-	-	BB30E50C	2725	BB30E50D	2765
1A	3	-	-	BB30010C	2725	BB30010D	2765
2A	3	-	-	BB30020C	2725	BB30020D	2765
3A	3	-	-	BB30030C	2725	BB30030D	2765
4A	3	-	-	BB30040C	2725	BB30040D	2765
6A	3	BB30060B	2055	BB30060C	2055	BB30060D	2205
10A	3	BB30100B	2055	BB30100C	2055	BB30100D	2205
16A	3	BB30160B	2055	BB30160C	2055	BB30160D	2205
20A	3	BB30200B	2055	BB30200C	2055	BB30200D	2205
25A	3	BB30250B	2055	BB30250C	2055	BB30250D	2205
32A	3	BB30320B	2055	BB30320C	2055	BB30320D	2205
40A	3	BB30400B	3200	BB30400C	3200	BB30400D	3415
50A	3	BB30500B	3200	BB30500C	3200	BB30500D*	3415
63A	3	BB30630B	3200	BB30630C	3200	BB30630D*	3415

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

*For details, please contact nearest branch office

Miniature Circuit Breaker (MCB) [8536]



Rating	Modules 1 Mod = 17.5 mm	B-Curve Cat. No.	M.R.P. (₹) Per Unit	C-Curve Cat. No.	M.R.P. (₹) Per Unit	D-Curve Cat. No.	M.R.P. (₹) Per Unit
Four Pole (FP)							
0.5A	4	-	-	**BB40E50C**	**3460**	**BB40E50D**	**3465**
1A	4	-	-	**BB40010C**	**3460**	**BB40010D**	**3465**
2A	4	-	-	**BB40020C**	**3460**	**BB40020D**	**3465**
3A	4	-	-	**BB40030C**	**3460**	**BB40030D**	**3465**
4A	4	-	-	**BB40040C**	**3460**	**BB40040D**	**3465**
6A	4	**BB40060B**	**2875**	**BB40060C**	**2875**	**BB40060D**	**3000**
10A	4	**BB40100B**	**2875**	**BB40100C**	**2875**	**BB40100D**	**3000**
16A	4	**BB40160B**	**2875**	**BB40160C**	**2875**	**BB40160D**	**3000**
20A	4	**BB40200B**	**2875**	**BB40200C**	**2875**	**BB40200D**	**3000**
25A	4	**BB40250B**	**2875**	**BB40250C**	**2875**	**BB40250D**	**3000**
32A	4	**BB40320B**	**2875**	**BB40320C**	**2875**	**BB40320D**	**3000**
40A	4	**BB40400B**	**4030**	**BB40400C**	**4030**	**BB40400D**	**4435**
50A	4	**BB40500B**	**4030**	**BB40500C**	**4030**	**BB40500D***	**4435**
63A	4	**BB40630B**	**4030**	**BB40630C**	**4030**	**BB40630D***	**4435**

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.
*For details, please contact nearest branch office

MCBs (Miniature Circuit Breakers) : 80A-125A [8536]

Range Highlights

- Short circuit Breaking Capacity - 15kA (IS/IEC 60947-2, EN 60947-2)
- C & D Characteristics
- Available in SP, DP, TP and FP
- Suitable for Isolation
- Protection Degree - IP 20
- Availability of wide Range of Site Mountable Accessories









Rating	Modules 1 Mod = 17.5 mm	C Curve Cat. No.	M.R.P. (₹) Per Unit	D Curve Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)					
80A	1.5	**AU15S10803C**	**3980**	**AU15S10803D**	**4530**
100A	1.5	**AU15S11003C**	**4460**	**AU15S11003D**	**5065**
125A	1.5	**AU15S11253C**	**4800**	**AU15S11253D**	**5475**
Double Pole (DP)					
80A	3	**AU15S20803C**	**8815**	**AU15S20803D**	**10035**
100A	3	**AU15S21003C**	**9400**	**AU15S21003D**	**10690**
125A	3	**AU15S21253C**	**10345**	**AU15S21253D**	**11760**
Three Pole (TP)					
80A	4.5	**AU15S30803C**	**13905**	**AU15S30803D**	**15835**
100A	4.5	**AU15S31003C**	**14835**	**AU15S31003D**	**16860**
125A	4.5	**AU15S31253C**	**16460**	**AU15S31253D**	**18705**
Four Pole (FP)					
80A	6	**AU15S40803C**	**18165**	**AU15S40803D**	**20630**
100A	6	**AU15S41003C**	**18895**	**AU15S41003D**	**21495**
125A	6	**AU15S41253C**	**21400**	**AU15S41253D**	**24320**



Solar Combo MCBs [8536]

(AC MCB + DC MCB)



AC MCB^ with C-Curve

Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
1 AC 16A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	**SC221616**	**2015**
New 1 AC 20A DP MCB^ + 1 DC 20A DP 500V MCB	2+2	**SC222020**	**2015**
New 1 AC 20A DP MCB^ + 1 DC 25A DP 500V MCB	2+2	**SC222025**	**2015**
New 1 AC 20A DP MCB^ + 1 DC 32A DP 500V MCB	2+2	**SC222032**	**2015**
1 AC 25A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	**SC222516**	**2015**
New 1 AC 25A DP MCB^ + 1 DC 25A DP 500V MCB	2+2	**SC222525**	**2015**
1 AC 32A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	**SC223216**	**2015**
New 1 AC 32A DP MCB^ + 1 DC 25A DP 500V MCB	2+2	**SC223225**	**2015**
1 AC 32A DP MCB^ + 1 DC 32A DP 500V MCB	2+2	**SC223232**	**2015**



DC MCBs as per IEC 60947-2 [8536]

Rated Voltage:
Breaking capacity of 6 kA - BB Series DC MCBs

Rated Voltage:
Breaking capacity of BJ Series DC MCBs

» 10kA till 40 A
» 6kA for 50A, 63A



130V DC SP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BB10E5DC	910
1A	1	BB1001DC	910
2A	1	BB1002DC	910
3A	1	BB1003DC	910
4A	1	BB1004DC	910
6A	1	BB1006DC	790
10A	1	BB1010DC	790
16A	1	BB1016DC	790
20A	1	BB1020DC	790
25A	1	BB1025DC	790
32A	1	BB1032DC	790
40A	1	BB1040DC	1040
50A	1	BB1050DC	1040
63A	1	BB1063DC	1040

250V DC SP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BJ10E5DC	1070
1A	1	BJ1001DC	1070
2A	1	BJ1002DC	1070
3A	1	BJ1003DC	1070
4A	1	BJ1004DC	1070
6A	1	BJ1006DC	875
10A	1	BJ1010DC	875
16A	1	BJ1016DC	875
20A	1	BJ1020DC	875
25A	1	BJ1025DC	875
32A	1	BJ1032DC	875
40A	1	BJ1040DC	1210
New 50A	1	BJ1050DC	1210
63A	1	BJ1063DC	1210



250V DC DP MCB

0.5A	2	BB20E5DC	1950
1A	2	BB2001DC	1950
2A	2	BB2002DC	1950
3A	2	BB2003DC	1950
4A	2	BB2004DC	1950
6A	2	BB2006DC	1715
10A	2	BB2010DC	1715
16A	2	BB2016DC	1715
20A	2	BB2020DC	1715
25A	2	BB2025DC	1715
32A	2	BB2032DC	1715
40A	2	BB2040DC	2320
50A	2	BB2050DC	2320
63A	2	BB2063DC	2320

500V DC DP MCB

0.5A	2	BJ20E5DC	2230
1A	2	BJ2001DC	2230
2A	2	BJ2002DC	2230
3A	2	BJ2003DC	2230
4A	2	BJ2004DC	2230
6A	2	BJ2006DC	1885
10A	2	BJ2010DC	1885
16A	2	BJ2016DC	1885
20A	2	BJ2020DC	1885
25A	2	BJ2025DC	1885
32A	2	BJ2032DC	1885
40A	2	BJ2040DC	2400
New 50A	2	BJ2050DC	2400
63A	2	BJ2063DC	2400

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos.

1000V DC MCBs [8536]

Rated Voltage:1000V DC
with breaking capacity of 6 kA - BK Series DC MCBs

New



Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
DP 6A 1000V DC 6kA MCB	4	BK2006DC	2875
DP 10A 1000V DC 6kA MCB	4	BK2010DC	2875
DP 16A 1000V DC 6kA MCB	4	BK2016DC	2875
DP 20A 1000V DC 6kA MCB	4	BK2020DC	2875
DP 25A 1000V DC 6kA MCB	4	BK2025DC	2875
DP 32A 1000V DC 6kA MCB	4	BK2032DC	2875
DP 40A 1000V DC 6kA MCB	4	BK2040DC	3495
DP 50A 1000V DC 6kA MCB	4	BK2050DC	3495
DP 63A 1000V DC 6kA MCB	4	BK2063DC	3495

Isolators [8536]





Range Highlights
- Conforms to IEC 60947-3
- Utilization category AC-22A
- Available in DP, TP and FP versions in 40A, 63A, 80A & 100A ratings

Rating	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
	Double Pole (DP)				Three Pole (TP)		Four Pole (FP)		
40A	2	**BF204000**	**915**	3	**BF304000**	**1585**	4	**BF404000**	**2030**
63A	2	**BF206300**	**1160**	3	**BF306300**	**1825**	4	**BF406300**	**2125**
80A	2	**BF208000**	**1480**	3	**BF308000**	**2000**	4	**BF408000**	**2375**
100A	2	**BF210000**	**1550**	3	**BF310000**	**2135**	4	**BF410000**	**2570**

Note: Standard Pack Quantity for Isolator : DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

RCCB (Residual Current Circuit Breaker) [8536]



Range Highlights
- Conforms to IS 12640 (Part 1) / IEC 61008-1
- RCCBs are available in DP and FP versions from 25 to 100A ratings with 30 mA, 100 mA and 300mA sensitivity



- Truly current operated - operation even at nominal Voltage
- Operates on Core Balance Current Transformer (CBCT) principle
- Advanced neutral mechanism

Rating	Sensitivity	Modules 1 Mod =17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
	Double Pole (DP)			
25A	30 mA	2	**BG202503**	**4180**
	100 mA	2	**BG202510**	**4685**
	300 mA	2	**BG202530**	**4685**
New 32A	30 mA	2	**BG203203**	**4780**
	100 mA	2	**BG203210**	**5355**
	300 mA	2	**BG203230**	**5355**
40A	30 mA	2	**BG204003**	**4780**
	100 mA	2	**BG204010**	**5355**
	300 mA	2	**BG204030**	**5355**
63A	30 mA	2	**BG206303**	**5960**
	100 mA	2	**BG206310**	**6455**
	300 mA	2	**BG206330**	**6455**
100A	30 mA	2	**BG210003**	**10705**
	100 mA	2	**BG210010**	**11245**
	300 mA	2	**BG210030**	**11245**

Rating	Sensitivity	Modules 1 Mod =17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
	Four Pole (FP)			
25A	30 mA	4	**BG402503**	**5860**
	100 mA	4	**BG402510**	**6135**
	300 mA	4	**BG402530**	**6135**
New 32A	30 mA	4	**BG403203**	**5920**
	100 mA	4	**BG403210**	**6240**
	300 mA	4	**BG403230**	**6240**
40A	30 mA	4	**BG404003**	**5920**
	100 mA	4	**BG404010**	**6240**
	300 mA	4	**BG404030**	**6240**
63A	30 mA	4	**BG406303**	**6690**
	100 mA	4	**BG406310**	**7155**
	300 mA	4	**BG406330**	**7155**
100A	30 mA	4	**BG410003**	**11665**
	100 mA	4	**BG410010**	**12095**
	300 mA	4	**BG410030**	**12095**

RCCBs (Residual Current Circuit Breakers) : Type-Adi (with Added immunity) [8536]




Range Highlights
- Wide Range of Current Ratings - 25A to 100A
- Precise Sensitivities for variety of applications - from 30mA to 300mA
- 2P & 4P versions
- Suitable for Isolation
- Protection Degree - IP 20
- Availability of wide Range of Site Mountable Accessories
- Type Adi: Suitable for AC + Pulsating DC (Type A) + Harmonics

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
	2P Adi			
25A	30mA	2	**AURAD202503**	**7945**
	100mA	2	**AURAD202510**	**8310**
	300mA	2	**AURAD202530**	**8310**
40A	30mA	2	**AURAD204003**	**8430**
	100mA	2	**AURAD204010**	**8565**
	300mA	2	**AURAD204030**	**8565**
63A	30mA	2	**AURAD206303**	**9860**
	100mA	2	**AURAD206310**	**10050**
	300mA	2	**AURAD206330**	**10050**
100A	30mA	2	**AURAD210003**	**14570**

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
	4P Adi			
25A	30mA	4	**AURAD402503**	**9605**
	100mA	4	**AURAD402510**	**9785**
	300mA	4	**AURAD402530**	**9785**
40A	30mA	4	**AURAD404003**	**9975**
	100mA	4	**AURAD404010**	**10130**
	300mA	4	**AURAD404030**	**10130**
63A	30mA	4	**AURAD406303**	**10860**
	100mA	4	**AURAD406310**	**11085**
	300mA	4	**AURAD406330**	**11085**
100A	30mA	4	**AURAD410003**	**17300**
	300mA	4	**AURAD410030**	**17300**

All-Rounder RCDs
(RCCB & RCBO)

Specially designed Adi RCDs ensure Safe and Reliable protection
for All Applications in AC networks with Pulsating DC along with Harmonics



Added Immunity

RCBOs (Residual Current Breaker with Overcurrent Protection) [8536]

Range Highlights*

- Conforms to IEC 61009-1, IS 12640-2, EN 61009-1
- Short circuit Breaking Capacity - 10kA
- Precise Sensitivities for a variety of applications
  - » from 10mA to 300mA
- Suitable for Isolation



- Availability of wide Range of Site Mountable Accessories
- Available in
  - » Type AC: For standard AC installations
  - » Type Adi: Suitable for AC + Pulsating DC (Type A) + Harmonics

Type-AC

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
2P AC#				
6A	10mA	2	**AUF3C200601**	**7115**
	30mA	2	**AUF3C200603**	**7115**
	100mA	2	**AUF3C200610**	**7260**
	300mA	2	**AUF3C200630**	**7345**
10A	10mA	2	**AUF3C201001**	**7115**
	30mA	2	**AUF3C201003**	**7115**
	100mA	2	**AUF3C201010**	**7260**
	300mA	2	**AUF3C201030**	**7345**
16A	10mA	2	**AUF3C201601**	**7115**
	30mA	2	**AUF3C201603**	**7115**
	100mA	2	**AUF3C201610**	**7260**
	300mA	2	**AUF3C201630**	**7345**
20A	30mA	2	**AUF3C202003**	**7115**
	100mA	2	**AUF3C202010**	**7260**
	300mA	2	**AUF3C202030**	**7345**
25A	30mA	2	**AUF3C202503**	**7115**
	100mA	2	**AUF3C202510**	**7260**
	300mA	2	**AUF3C202530**	**7345**
32A	30mA	2	**AUF3C203203**	**7115**
	100mA	2	**AUF3C203210**	**7260**
	300mA	2	**AUF3C203230**	**7345**
40A	30mA	2	**AUF3C204003**	**7115**
	100mA	2	**AUF3C204010**	**7260**
	300mA	2	**AUF3C204030**	**7345**
63A	30mA	4	**AUF3C206303**	**8610**
	100mA	4	**AUF3C206310**	**9130**
	300mA	4	**AUF3C206330**	**9200**
4P AC				
16A	30mA	7.5	**AUF3C401603**	**7780**
	100mA	7.5	**AUF3C401610**	**8660**
	300mA	7.5	**AUF3C401630**	**8835**
20A	30mA	7.5	**AUF3C402003**	**7780**
	100mA	7.5	**AUF3C402010**	**8660**
	300mA	7.5	**AUF3C402030**	**8835**
25A	30mA	7.5	**AUF3C402503**	**7780**
	100mA	7.5	**AUF3C402510**	**8660**
	300mA	7.5	**AUF3C402530**	**8835**
32A	30mA	7.5	**AUF3C403203**	**8035**
	100mA	7.5	**AUF3C403210**	**8665**
	300mA	7.5	**AUF3C403230**	**8860**
40A	30mA	7.5	**AUF3C404003**	**8160**
	100mA	7.5	**AUF3C404010**	**8665**
	300mA	7.5	**AUF3C404030**	**8890**
63A	30mA	7.5	**AUF3C406303**	**9780**
	100mA	7.5	**AUF3C406310**	**9965**
	300mA	7.5	**AUF3C406330**	**9965**
80A	30mA	12	**AUF3C408003**	**37895**
	100mA	12	**AUF3C408010**	**38745**
	300mA	12	**AUF3C408030**	**38745**
100A	30mA	12	**AUF3C410003**	**40515**
	100mA	12	**AUF3C410010**	**41485**
	300mA	12	**AUF3C410030**	**41485**

#For 2P AC/Adi D Curve RCBO, please contact nearest branch office

Type-Adi

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
2P Adi				
6A	30mA	2	**AUF3D200603**	**9600**
	100mA	2	**AUF3D200610**	**10575**
	300mA	2	**AUF3D200630**	**10970**
10A	30mA	2	**AUF3D201003**	**9600**
	100mA	2	**AUF3D201010**	**10575**
	300mA	2	**AUF3D201030**	**10970**
16A	30mA	2	**AUF3D201603**	**9600**
	100mA	2	**AUF3D201610**	**10575**
	300mA	2	**AUF3D201630**	**10970**
20A	30mA	2	**AUF3D202003**	**9600**
	100mA	2	**AUF3D202010**	**10575**
	300mA	2	**AUF3D202030**	**10970**
25A	30mA	2	**AUF3D202503**	**9600**
	100mA	2	**AUF3D202510**	**10575**
	300mA	2	**AUF3D202530**	**10970**
32A	30mA	2	**AUF3D203203**	**9600**
	100mA	2	**AUF3D203210**	**10575**
	300mA	2	**AUF3D203230**	**10970**
40A	30mA	2	**AUF3D204003**	**9600**
	100mA	2	**AUF3D204010**	**10575**
	300mA	2	**AUF3D204030**	**10970**
63A	30mA	4	**AUF3D206303**	**11315**
	100mA	4	**AUF3D206310**	**11965**
	300mA	4	**AUF3D206330**	**12075**
4P Adi				
16A	30mA	7.5	**AUF3D401603**	**10220**
	100mA	7.5	**AUF3D401610**	**11365**
	300mA	7.5	**AUF3D401630**	**11600**
20A	30mA	7.5	**AUF3D402003**	**10220**
	100mA	7.5	**AUF3D402010**	**11365**
	300mA	7.5	**AUF3D402030**	**11600**
25A	30mA	7.5	**AUF3D402503**	**10220**
	100mA	7.5	**AUF3D402510**	**11365**
	300mA	7.5	**AUF3D402530**	**11600**
32A	30mA	7.5	**AUF3D403203**	**10545**
	100mA	7.5	**AUF3D403210**	**11380**
	300mA	7.5	**AUF3D403230**	**11615**
40A	30mA	7.5	**AUF3D404003**	**10710**
	100mA	7.5	**AUF3D404010**	**11380**
	300mA	7.5	**AUF3D404030**	**11665**
63A	30mA	7.5	**AUF3D406303**	**12830**
	100mA	7.5	**AUF3D406310**	**13090**
	300mA	7.5	**AUF3D406330**	**13090**
80A	30mA	12	**AUF3D408003**	**37895**
	100mA	12	**AUF3D408010**	**38745**
	300mA	12	**AUF3D408030**	**38745**
100A	30mA	12	**AUF3D410003**	**40515**
	100mA	12	**AUF3D410010**	**41485**
	300mA	12	**AUF3D410030**	**41485**

*For technical details, please contact nearest branch office

SPDs (Surge Protection Devices) [8536]



Range Highlights

- Conforms to IEC 61643-11
- Available in Type 2 and Type 1+2
- Type 2 : Protection against indirect lightning and switching surges
  - » Maximum Discharge Current - Imax up to 70kA
- Type 1+2 : Protection against direct and indirect lightning surges
  - » Maximum Discharge Current - Imax up to 100kA

New

800V Solar Application

Description	Configuration	Modules 1 Mod = 17.5 mm	Voltage (Uc)	Cat. No.	M.R.P. (₹) Per Unit
Type 2, I_{max} 40kA	3P	4	1500	**AUSP023P40-1500**	**17250**
Type 1+2, I_{imp} 12.5kA	3P	5	1360	**AUSP123P50-1360**	**51750**
Type 1+2, I_{imp} 12.5kA	3P	4	880	**AUSP123P50-880**	**35500**

440V Application (Common + Differential Mode)

Description	I_{max}	Configuration	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Type 1+2, I_{imp} 12.5kA	50kA	1P+N	2	**AUSP121PN50D**	**13750**
		3P+N	4	**AUSP123PN50D**	**26335**
Type 2	40kA	1P+N	1	**AUSP021PN40D**	**8595**
		3P+N	2	**AUSP023PN40D**	**17175**
Type 2	15kA	1P+N	1	**AUSP021PN15D**	**6875**
		3P+N	2	**AUSP023PN15D**	**13525**
Type 1+2, I_{imp} 8kA	100kA	1P+N	2	**AUSP121PN100D**	**12360**
		3P+N	4	**AUSP123PN100D**	**24290**
Type 2	70kA	1P+N	2	**AUSP021PN70D**	**13500**
		3P+N	4	**AUSP023PN70D**	**22485**

SPD Cartridges

Description	Cat. No.	M.R.P. (₹) Per Unit
Cartridge for AUSP021PN15D	**AUSC021PN15D**	**3550**
Cartridge for AUSP021PN40D	**AUSC021PN40D**	**4420**
Cartridge for AUSP021PN70D / AUSP023PN70D	**AUSC021PN70D**	**4725**
Cartridge for AUSP023PN15D#	**AUSC023PN15D**	**4640**
Cartridge for AUSP023PN40D#	**AUSC023PN40D**	**5900**
Cartridge for AUSP121PN100D / AUSP123PN100D	**AUSC121PN100D**	**7080**
Cartridge for AUSP121PN50D / AUSP123PN50D	**AUSC121PN50D**	**7645**
Cartridge for AUSP023PN15D#	**AUSC023PN15DG**	**5390**
Cartridge for AUSP023PN40D#	**AUSC023PN40DG**	**5625**

#For technical details, please contact nearest branch office

ACCL (Automatic Changeover with Current Limiter) [8536]

Single Phase ACCL



Range Highlights

- Conforms to IEC 60947-6, IEC 60947-3
- Wide Range of Current Ratings
  - » (Generator side) - 1A to 30A
  - » (Electricity Board side) - 30A
- RoHS compliant

Description EB/DG	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
30A/1A	4	**AUCL01030001**	**3200**
30A/1.5A	4	**AUCL010301E5**	**3200**
30A/2A	4	**AUCL01030002**	**3200**
30A/2.5A	4	**AUCL010302E5**	**3200**
30A/3A	4	**AUCL01030003**	**3200**
30A/4A	4	**AUCL01030004**	**3200**
30A/5A	4	**AUCL01030005**	**3200**
30A/6A	4	**AUCL01030006**	**3200**
30A/8A	4	**AUCL01030008**	**3200**
30A/10A	4	**AUCL01030010**	**3200**
30A/12A	4	**AUCL01030012**	**3200**
30A/15A	4	**AUCL01030015**	**3200**
30A/20A	4	**AUCL01030020**	**3200**
30A/30A	4	**AUCL01030030***	**3200**

*Non-current limiting variant

Three Phase ACCL



Range Highlights

- Settable overload current limit at DG side
- Separate power consumption monitoring for Mains & Genset
- Settable overvoltage & undervoltage protection
- Settable TPN or SPN mode at DG side
- Protection against single phasing

Description (AC-1) EB/DG	Cat. No.	M.R.P. (₹) Per Unit
32A / 32A	**AUCL03032032**	**22095**
40A / 32A	**AUCL03040032**	**22771**
40A / 40A	**AUCL03040040**	**24645**
50A / 50A	**AUCL03050050**	**35128**
63A / 50A	**AUCL03063050**	**38761**
63A / 63A	**AUCL03063063**	**43907**
80A / 80A	**AUCL03080080**	**66916**
125A / 125A	**AUCL03125125**	**112643**

For 3 Phase ACCL programming video please scan the QR code or click here

Changeover Switches [8536]



Range Highlights

- Conforms to IEC 60947-3 and IS/IEC 60947-3
- Available in 3 positions (I-O-II) with centre off position
- Utilization category AC-22A

Rating	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Double Pole			
25A	2	**AUC00202500**	**2610**
40A	2	**AUC00204000**	**3995**
63A	3	**AUC00206300**	**4645**
Four Pole			
40A	4	**AUC00404000**	**6885**
63A	6	**AUC00406300**	**7805**

Accessories

Accessories [8538]



All Half Module and One Module Accessories are common for AU MCBs, RCCBs and RCBOs

Description	Configuration	Modules 1 Mod = 17.5 mm	Voltage	CAT Nos.	M.R.P. (₹) Per Unit
Auxiliary Contact	1NO+1NC	0.5	240V AC, 24V DC	**AUAXAC240**	**1380**
AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	**AUATAC240**	**1615**
HR AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	**AUATAC240HR**	**1615**
Undervoltage Release	-	1	240V AC	**AUUVAC240**	**3260**
	-	1	24V DC	**AUUVDC024**	**3260**
Overvoltage Release	-	1	240V AC	**AUOVAC240**	**4030**
Shunt Release	-	1	240V AC	**AUSRAC240**	**3740**
	-	1	24V DC	**AUSRDC024**	**3740**
Padlock-Suitable for Lock Hasp 3.5 - 5 mm dia. max	Suitable for 1Pole=1Mod devices: RCCBs, RCBOs, Changeover Switches up to 40A			**AUPD01**	**735**
	Suitable for 1Pole-1.5Mod devices: MCBs 80A-125A, Changeover Switch 63A			**AUPD02**	**830**

Note: Standard Pack Quantity for Padlock - 2 Nos.
*For 80A-125A MCBs please contact nearest branch office

Control & Monitoring Devices

Modular Contactors [8536]



Range Highlights

- Wide Range of Current Ratings:
  - » 25A, 40A and 63A
- Conforms to :
  - » IEC 61095, EN 61095
  - » IEC 60947-4-1, EN 60947-4-1
  - » IEC 60947-5-1
- Protection Degree IP 20

Description (AC-1)	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
25A-1NO	1	**AUMC1002501**	**2800**
25A-2NO	1	**AUMC2002501**	**3515**
40A-2NO	3	**AUMC2004003**	**6010**
40A-3NO	3	**AUMC3004003**	**8615**
40A-4NO	3	**AUMC4004003**	**10105**
63A-2NO+2NC	3	**AUMC2206303**	**10680**
63A-3NO	3	**AUMC3006303**	**10945**
63A-4NO	3	**AUMC4006303**	**12050**
Accessory [8538]			
Auxiliary Contact, 2NO	0.5	**AUMCAUX240**	**2620**

Energy Meters [9030]



Range Highlights

- DIN mounting whole current operated meter
- Accuracy Class 1.0
- Inbuilt RS485 option
- **Parameters :** Voltage, Current, kW, kWh, kVA, kVAh, RPM, Load hours, Interruptions

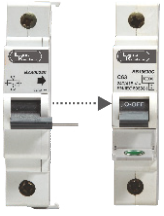
Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	**WD401010OOOO**	**3940**
Three Phase - 80A	5	**WD402010OOOO**	**8530**
Single Phase - 60A (RS485)	2	**WD401011OOOO**	**5825**
Three Phase - 80A (RS485)	5	**WD402011OOOO**	**12870**

Indicating Lights [8531]



Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
RED	1	**AUIL01RED00**	**1610**
YELLOW	1	**AUIL01YEL00**	**1610**
BLUE	1	**AUIL01BLU00**	**1610**
GREEN	1	**AUIL01GRE00**	**1610**
RED-YELLOW-BLUE	1	**AUIL01RYB00**	**1960**

Auxiliary & Accessories for Exora MCBs [8538]



Description	Cat. No.	M.R.P. (₹) Per Unit
Auxiliary Contact - 6A , 240V AC, (1NO+1NC), 0.5 Mod	**BZA11006**	**1325**
Shunt Release - 240V AC, 1 Mod	**BZS00240**	**3625**
Trip Alarm Contact - 6A, 240V AC, (1NO+1NC), 0.5 Mod	**BZT11006**	**1545**

Plugs



Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Plug - IP44		
16A, 2P+E	**PSKPM30164**	**700**
32A, 2P+E	**PSKPM30324**	**1105**
16A, 3P+E	**PSKPM40164**	**895**
32A, 3P+E	**PSKPM40324**	**1305**
16A, 3P+N+E	**PSKPM50164**	**945**
32A, 3P+N+E	**PSKPM50324**	**1260**
Plug - IP67		
16A, 2P + E	**PSKPM30167**	**1560**
32A, 2P + E	**PSKPM30327**	**2200**
63A, 2P + E	**PSKPM30637**	**6250**
16A, 3P + E	**PSKPM40167**	**1760**
32A, 3P + E	**PSKPM40327**	**2785**
63A, 3P + E	**PSKPM40637**	**5950**
16A, 3P + N + F	**PSKPM50167**	**1885**
32A, 3P + N + E	**PSKPM50327**	**2400**
63A, 3P + N + E	**PSKPM50637**	**5965**
125A, 3P + N + E	**PSKPM51257**	**18215**

Socket



Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-211
- Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Socket - IP44		
16A, 2P+E	**PSKSM30164**	**970**
32A, 2P+E	**PSKSM30324**	**1355**
16A, 3P+E	**PSKSM40164**	**1140**
16A, 3P + N + E	**PSKSM50164**	**1240**
32A, 3P + N + E	**PSKSM50324**	**1660**
Socket - IP67		
16A, 2P+E	**PSKSM30167**	**1830**
32A, 2P+E	**PSKSM30327**	**2515**
63A, 2P+E	**PSKSM30637**	**6800**
16A, 3P+E	**PSKSM40167**	**2295**
63A, 3P+E	**PSKSM40637**	**6865**
16A, 3P + N + E	**PSKSM50167**	**2400**
32A, 3P + N + E	**PSKSM50327**	**2805**
63A, 3P + N + E	**PSKSM50637**	**6975**
125A, 3P + N + E	**PSKSM51257**	**21895**

Socket Angled



Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Socket Angled - IP44		
16A, 2P+E	**PSKSA30164**	**755**
32A, 2P+E	**PSKSA30324**	**1335**
16A, 3P+E	**PSKSA40164**	**1140**
32A, 3P+E	**PSKSA40324**	**1575**
16A, 3P+N+E	**PSKSA50164**	**1215**
32A, 3P+N+E	**PSKSA50324**	**1540**
Socket Angled - IP67		
16A, 2P+E	**PSKSA30167**	**1440**
32A, 2P+E	**PSKSA30327**	**1875**
63A, 2P+E	**PSKSA30637**	**6140**
32A, 3P+E	**PSKSA40327**	**2785**
63A, 3P+E	**PSKSA40637**	**6150**
32A, 3P+N+E	**PSKSA50327**	**2220**
63A, 3P+N+E	**PSKSA50637**	**6275**
125A, 3P+N+E	**PSKSA51257**	**20820**

Socket Straight



Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation Of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Socket Straight- IP44		
16A, 2P+E	**PSKSS30164**	**860**
32A, 2P+E	**PSKSS30324**	**1370**
32A, 3P+N+E	**PSKSS50324**	**1715**
Socket Straight- IP67		
16A, 2P+E	**PSKSS30167**	**1450**
63A, 2P+E	**PSKSS30637**	**7435**
63A, 3P+E	**PSKSS40637**	**6210**
63A, 3P+N+E	**PSKSS50637**	**6210**
125A, 3P+N+E	**PSKSS51257**	**20820**

Lauritz Knudsen
Electrical & Automation

Distribution Board suitable for **Aluminum shuttering (Mivan) Construction**



DBs suitable for Aluminum Shuttering Construction [8537]

SPN DBs

Highlights

- Available in CRCA sheet steel, RAL9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bar | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- With provision for DP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

Description	No. of Modules Incomer + Outgoing		Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door				
4 way	2	2	**LTSD04M**	*
6 way	2	4	**LTSD06M**	*
8 way	2	6	**LTSD08M**	*
12 way	2	10	**LTSD12M**	*
16 way	2	14	**LTSD16M**	*

TPN DBs

Highlights

- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars |neutral bar/s with shroud/s | earth bar/s | sticking saddles | cementspill protector | color-coded interconnecting wire set | cable ties |blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

Description	No. of Modules Incomer + Outgoing		Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door				
4 way	8	4+4+4	**LTTD04M**	*
6 way	8	6+6+6	**LTTD06M**	*
8 way	8	8+8+8	**LTTD08M**	*

*For details, please contact nearest branch office

EXORA.N
Distribution Boards

Lauritz Knudsen
Electrical & Automation

DESIGN OR SAFETY?

OBVIOUSLY BOTH. OBVIOUSLY EXORA.N DB.

#ExoraHaiTohSafeHai



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SPN DB [8537] New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 08-for single door DBs, IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bar | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- With provision for DP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

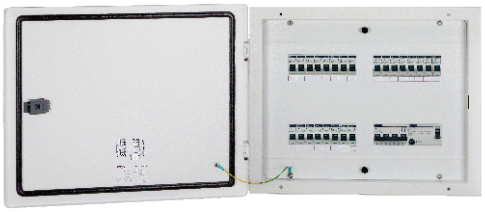


Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer + Outgoing			
IP 30 - Single Door				
4 way	2	2	**DESPN004SDS**	**2175**
6 way	2	4	**DESPN006SDS**	**2275**
8 way	2	6	**DESPN008SDS**	**2620**
12 way	2	10	**DESPN012SDS**	**3110**
16 way	2	14	**DESPN016SDS**	**3810**
18 way	2	16	**DESPN018SDS**	**4430**
IP 43 - Metal Door				
4 way	2	2	**DESPN004DDS**	**2815**
6 way	2	4	**DESPN006DDS**	**3245**
8 way	2	6	**DESPN008DDS**	**3435**
12 way	2	10	**DESPN012DDS**	**4125**
16 way	2	14	**DESPN016DDS**	**5265**
18 way	2	16	**DESPN018DDS**	**5515**
IP 43 - Glazed Door				
4 way	2	2	**DESPN004GDS**	**3770**
6 way	2	4	**DESPN006GDS**	**4010**
8 way	2	6	**DESPN008GDS**	**4360**
12 way	2	10	**DESPN012GDS**	**5310**
16 way	2	14	**DESPN016GDS**	**6595**
18 way	2	16	**DESPN018GDS**	**6975**
IP 54 - Metal Door				
4 way	2	2	**DESPN00454S**	**9915**
6 way	2	4	**DESPN00654S**	**11055**
8 way	2	6	**DESPN00854S**	**11755**
12 way	2	10	**DESPN01254S**	**13500**
16 way	2	14	**DESPN01654S**	**15030**
18 way	2	16	**DESPN01854S**	**15365**

TPN DB [8537] New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 08-for single door DBs, IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars |neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SPMCBs as outgoings



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	4	4+4+4	**DETPE004SDS**	**5630**
6 way	4	6+6+6	**DETPE006SDS**	**6910**
4 way	8	4+4+4	**DETPN004SDS**	**5925**
6 way	8	6+6+6	**DETPN006SDS**	**7340**
8 way	8	8+8+8	**DETPN008SDS**	**8655**
12 way	8	12+12+12	**DETPN012SDS**	**12475**
16 way	8	16+16+16	**DETPN016SDS**	**15210**
IP 43 - Metal Door				
4 way	4	4+4+4	**DETPE004DDS**	**6615**
6 way	4	6+6+6	**DETPE006DDS**	**8220**
4 way	8	4+4+4	**DETPN004DDS**	**6855**
6 way	8	6+6+6	**DETPN006DDS**	**8540**
8 way	8	8+8+8	**DETPN008DDS**	**10300**
12 way	8	12+12+12	**DETPN012DDS**	**15430**
16 way	8	16+16+16	**DETPN016DDS**	**19150**
IP 43 - Glazed Door				
4 way	4	4+4+4	**DETPE004GDS**	**8985**
6 way	4	6+6+6	**DETPE006GDS**	**10800**
4 way	8	4+4+4	**DETPN004GDS**	**9350**
6 way	8	6+6+6	**DETPN006GDS**	**11380**
8 way	8	8+8+8	**DETPN008GDS**	**13495**
12 way	8	12+12+12	**DETPN012GDS**	**20700**
16 way	8	16+16+16	**DETPN016GDS**	**24880**
IP 54 - Metal Door				
4 way	4	4+4+4	**DETPE00454S**	**22445**
6 way	4	6+6+6	**DETPE00654S**	**26230**
4 way	8	4+4+4	**DETPN00454S**	**23720**
6 way	8	6+6+6	**DETPN00654S**	**28565**
8 way	8	8+8+8	**DETPN00854S**	**31225**
12 way	8	12+12+12	**DETPN01254S**	**44015**
16 way	8	16+16+16	**DETPN01654S**	**52820**

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

PPI DB [8537] New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door DBs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB / Isolator / RCCB / RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings



IP 43 - Metal Door

Horizontal PPI DBs

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	8	2+2+2	4+4+4	**DEHPI004DD**	**12305**
6 way	8	2+2+2	6+6+6	**DEHPI006DD**	**14570**
8 way	8	2+2+2	8+8+8	**DEHPI008DD**	**17470**
12 way	8	2+2+2	12+12+12	**DEHPI012DD**	**24075**
16 way	8	2+2+2	16+16+16	**DEHPI016DD**	**28885**



Tier PPI DBs

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
6 way	8	2+2+2	6+6+6	**DETPI006DD**	**15080**
8 way	8	2+2+2	8+8+8	**DETPI008DD**	**18905**
10 way	8	2+2+2	10+10+10	**DETPI010DD**	**19815**
12 way	8	2+2+2	12+12+12	**DETPI012DD**	**20995**
16 way	8	2+2+2	16+16+16	**DETPI016DD**	**23935**
12 way	MCCB*	2+2+2	12+12+12	**DETPL012DD**	**22455**

*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

TPN Phase Segregated DB [8537] New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door DBs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for
  - » Modular Incomer - FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings
  - » MCCB Incomer - MCCB* as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings



With Modular Incomer

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	8	4+4+4	4+4+4	**DEPSG004DD**	**18070**
6 way	8	4+4+4	6+6+6	**DEPSG006DD**	**20375**
8 way	8	4+4+4	8+8+8	**DEPSG008DD**	**22735**
12 way	8	4+4+4	12+12+12	**DEPSG012DD**	**28205**



With MCCB Incomer

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	MCCB	4+4+4	4+4+4	**DEPGL004DD**	**24860**
6 way	MCCB	4+4+4	6+6+6	**DEPGL006DD**	**28425**
8 way	MCCB	4+4+4	8+8+8	**DEPGL008DD**	**32875**
12 way	MCCB	4+4+4	12+12+12	**DEPGL012DD**	**37075**

*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

Vertical TPN DB with MCCB Incomer [8537]

New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with insulated vertical phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for 3 pole and 4 Pole MCCB* as incomer and SP/TP MCBs as outgoings



Up to 125A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 43 - Metal Door				
4 way	MCCB	4+4+4	**DEVTL004DD**	**20550**
6 way	MCCB	6+6+6	**DEVTL006DD**	**23355**
8 way	MCCB	8+8+8	**DEVTL008DD**	**25710**
12 way	MCCB	12+12+12	**DEVTL012DD**	**34980**
16 way	MCCB	16+16+16	**DEVTL016DD**	**42115**
IP 54 - Metal Door				
4 way	MCCB	4+4+4	**DEVTL00454**	**42960**
6 way	MCCB	6+6+6	**DEVTL00654**	**48990**
8 way	MCCB	8+8+8	**DEVTL00854**	**53035**

*Suitable for 3 Pole & 4 Pole DZ0 MCCB as incomer.
In case of any other MCCB frame requirement please contact nearest branch.

Vertical TPN DB with Modular Incomer [8537]

New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with insulated vertical phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP/ TP MCBs as outgoings



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 43 - Metal Door				
4 way	8	4+4+4	**DEVTM004DD**	**17375**
6 way	8	6+6+6	**DEVTM006DD**	**19355**
8 way	8	8+8+8	**DEVTM008DD**	**22470**
12 way	8	12+12+12	**DEVTM012DD**	**30590**
16 way	8	16+16+16	**DEVTM016DD**	**36500**
IP 54 - Metal Door				
4 way	8	4+4+4	**DEVTM00454**	**37075**
6 way	8	6+6+6	**DEVTM00654**	**40445**
8 way	8	8+8+8	**DEVTM00854**	**44665**

Vertical TPN DB with MCCB Incomer [8537]

New



Up to 250A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 43 - Metal Door				
4 way	MCCB	4+4+4	**DEVTH004DD**	**26825**
6 way	MCCB	6+6+6	**DEVTH006DD**	**30040**
8 way	MCCB	8+8+8	**DEVTH008DD**	**33040**
12 way	MCCB	12+12+12	**DEVTH012DD**	**39985**
16 way	MCCB	16+16+16	**DEVTH016DD**	**53735**
IP 54 - Metal Door				
4 way	MCCB	4+4+4	**DEVTH00454**	**49080**
6 way	MCCB	6+6+6	**DEVTH00654**	**53585**
8 way	MCCB	8+8+8	**DEVTH00854**	**55420**

*Suitable for 3 pole and 4 pole DU250, DU250C & DN1 MCCB as incomer

Flexi/Row DB [8537]

New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | cable ties | circuit identification labels
- With provision to mount modular devices as per requirement



Description	No. of Modules Per Row	Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door			
2 Row 28 Module	14	**DEROW228DD**	**8810**
3 Row 42 Module	14	**DEROW342DD**	**10560**
4 Row 56 Module	14	**DEROW456DD**	**11480**
4 Row 64 Module	16	**DEROW464DD**	**13355**

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

TPN Phase Selector DB [8537] New

Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 3 nos. of 63A E&A rotary switches | 3 nos. of rocker switches for phase identification | 100A insulated phase bus-bars | neutral bar/s with shroud/s | set | earth bar/s | sticking saddles | color-coded interconnecting wire cable ties | blanking plates and circuit identification labels
- With provision for - FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 43 - Metal Door				
4 way	8	4+4+4	**DEPSR004DD**	**21560**
6 way	8	6+6+6	**DEPSR006DD**	**21905**
8 way	8	8+8+8	**DEPSR008DD**	**23465**
10 way	8	10+10+10	**DEPSR010DD**	**25315**
12 way	8	12+12+12	**DEPSR012DD**	**26690**

EV charging DB 8537] New



Highlights

- Engineered specifically Charging application - 3.3 kW
- Robust earth leakage, short circuit and overload protection with RCBO-
- Factory fitted RCBO, switch and socket

Description	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
2 way EVDB	**2**	**DEEVC002LD**	*
4 way EVDB	**4**	**DEEVC004LD**	*

*For details, please contact nearest branch office

Enclosure [8537] New



Highlights

- Conforms to IEC 61439-1 & 3
- Suitable for Surface and Flush mounting
- Available in CRCA sheet steel, RAL9003, powder coated
- With provision to mount MCB/Isolator/RCCB/RCBO and other modular devices

IP 30 - Metal Door

Description	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
IP 30 - Metal Door			
2 way	2	**DEENC002SD**	**1095**
3 way	3	**DEENC003SD**	**1095**
4 way	4	**DEENC004SD**	**1095**
6 way	6	**DEENC006SD**	**1700**

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

Plug & Socket DB [8537] New

Highlights

- Conforms to IEC 61439-1 & 3
- Suitable for Surface and Flush mounting
- Available in CRCA sheet steel, RAL9003, powder coated
- Loose Metal Plugs & Sockets conforms to IS 8804; available in Single Phase & Three Phase



Metal Plug & Socket



Plastic Plug & Socket

Description	No. of Pins	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
Metal Plug & Sockets				
10 A, 2 Pin + SC^	P + N	1	**DEMPS110SD**	**2725**
20 A, 2 Pin + SC^	P + N	1	**DEMPS120SD**	**2930**
20 A, 2 Pin + SC^	P + N	2	**DEMPS220SD**	**3175**
20 A, 3 Pin + SC^	3P	3	**DEMPS320SD**	**5380**
32 A, 3 Pin + SC^	3P	3	**DEMPS332SD**	**6370**
32 A, 3 Pin + SC^	3P	4	**DEMPS432SD**	**6775**
63 A, 5 Pin + SC^	3P+N+E	4	**DEMPS463SD**	**22955**
Plastic Plug & Sockets				
16 A, 3 Pin	P+N+E	2	**DEPPS316SD**	**4455**
32 A, 3 Pin	P+N+E	4	**DEPPS332SD**	**4805**
32 A, 5 Pin	3P+N+E	8	**DEPPS532SD**	**8025**
63 A, 5 Pin	3P+N+E	8	**DEPPS563SD**	**20120**

Metal Plug [8536]



Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	**MPS210P**	**335**
20 A, 2 Pin + SC^	P + N	**MPS220P**	**355**
20 A, 3 Pin + SC^	3P	**MPS320P**	**475**
32 A, 3 Pin + SC^	3P	**MPS332P**	**900**

Note: Standard pack quantity - 20 nos.

Metal Socket [8536]



Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	**MPS210S**	**350**
20 A, 2 Pin + SC^	P + N	**MPS220S**	**390**
20 A, 3 Pin + SC^	3P	**MPS320S**	**530**
32 A, 3 Pin + SC^	3P	**MPS332S**	**900**

^ SC-Scraping Earth
Note: Standard pack quantity - 20 nos.

DBs with provision for TV / Telephone splitters [8537]

New

Highlights

- Distribution Boards equipped with provisions to mount TV / Telephone splitters
- Available in SPN & TPN Dbs
- Communication DB equipped with provisions to mount 2 ONT, Spike guard, Data switch, TV / Telephone splitters



TV / Telephone



Communication DB

DB Type	Description	No. of Modules Incomer	No. of Modules Outgoing	Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door					
SPN	6 way	2	4	**DESPN006DDTV**	**6125**
	8 way	2	6	**DESPN008DDTV**	**6590**
	12 way	2	10	**DESPN012DDTV**	**8105**
	16 way	2	14	**DESPN016DDTV**	**9410**
	18 way	2	16	**DESPN018DDTV**	**11125**
TPN	4 way	8	4+4+4	**DETPN004DDTV**	**12045**
	6 way	8	6+6+6	**DETPN006DDTV**	**13920**
	8 way	8	8+8+8	**DETPN008DDTV**	**16590**
Communication DB				**DECOM01DD**	*

*For details, please contact nearest branch office

Cable End Boxes [8537]

Highlights

- Available in CRCA sheet steel, RAL9003, powder coated
- Can be either at the top or bottom of the distribution board

Description	Cat. Nos.	M.R.P. (₹) Per Unit
CEB for SPN DBs		
CEB-SPN Double Door, 4 way	**DESPN004CBS**	**1200**
CEB-SPN Double Door, 6 way	**DESPN006CBS**	**1295**
CEB-SPN Double Door, 8 way	**DESPN008CBS**	**1450**
CEB-SPN Double Door, 12 way	**DESPN012CBS**	**1610**
CEB-SPN Double Door, 16 way	**DESPN016CBS**	**2270**
CEB-SPN Double Door, 18 way	**DESPN018CBS**	**2340**
CEB for TPN DBs		
CEB-TPE Double Door, 4 way	**DETPE004CBS**	**1555**
CEB-TPE Double Door, 6 way	**DETPE006CBS**	**2215**
CEB-TPN Double Door, 4 way	**DETPN004CBS**	**1630**
CEB-TPN Double Door, 6 way	**DETPN006CBS**	**2285**
CEB-TPN Double Door, 8 way	**DETPN008CBS**	**2870**
CEB-TPN Double Door, 12 way	**DETPN012CBS**	**4780**
CEB-TPN Double Door, 16 way	**DETPN016CBS**	**4825**
CEB for Horizontal PPI DBs		
CEB-Horz. PPI Double Door, 4 way	**DEHPI004CB**	**2410**
CEB-Horz. PPI Double Door, 6 way	**DEHPI006CB**	**3010**
CEB-Horz. PPI Double Door, 8 way	**DEHPI008CB**	**3775**
CEB-Horz. PPI Double Door, 12 way	**DEHPI012CB**	**4735**
CEB-Horz. PPI Double Door, 16 way	**DEHPI016CB**	**5150**
CEB for VTPN DBs		
CEB-VTPN Double Door, Modular Incomer	**DEVTMXXXCB**	**1610**
CEB-VTPN Double Door, MCCB Incomer	**DEVTXXXXCB**	**5690**
CEB for Phase Segregated DBs		
CEB-PSG Double Door, 4 way	**DEPSG004CB**	**4225**
CEB-PSG Double Door, 6 way	**DEPSG006CB**	**5035**
CEB-PSG Double Door, 8 way	**DEPSG008CB**	**5560**
CEB-PSG Double Door, 12 way	**DEPSG012CB**	**6190**

DB Accessories

Busbar - Fork Type [8538]



Highlights

- Available in Single Pole, Double Pole, Three Pole and Four Pole versions
- Material : Copper

Description	Cat. Nos..	M.R.P. (₹) Per Unit	Std. Pack Qty.
SP 13 Mod	**BSP13**	**535**	5
SP 56 Mod	**BSP56**	**2200**	5
DP 12 Mod	**BDP12**	**955**	5
TP 12 Mod	**BTP12**	**1035**	5
FP 12 Mod	**BFP12**	**2040**	5
End Caps for SP	**ECP01**	**35**	10
End Caps for DP/TP	**ECP03**	**75**	10
End Caps for FP	**ECP04**	**120**	10



Blanking Plates [8538]

Highlights

- Available in One module and Half module

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std.Pack Qty.
One Module	**BKP10**	**35**	10
Half Module	**BKP05**	**35**	10



PDK02

Padlock [8301]

Highlights

- Version with standard lock and a common key

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std. Pack Qty.
Lock and Key Kit	**PDK02**	**935**	5

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

Discontinued Products/Suggested Alternate Products

Product Group	Discontinued Products	Suggested Alternate Products
ACB	C-Power ACB with SR71 Release	1. OMEGA ACB with MTX 3.5 Release 2. C-Power Bus-Coupler ACB + numrAL FDR22 + Protection class CT + Shunt Release
MCCB	DZ6-400Z 3P & 4P MCCBs 50/40kA (Icu/Ics)	DZ6-400Z 3P & 4P MCCBs 50/50kA (Icu/Ics)
MCCB	DZ0 100A 3P Spreaders - EM992820OOO DZ0 100A 4P Spreaders - EM992830OOO	DN0 100A 3P Spreaders - CM977850OOO DN0 100A 4P Spreaders - CM979210OOO
Contactors	MN0 control contactor, its spares and accessories	MO0 control contactor, its spares and accessories
Contactors	MR Contactors	MNX 2P/ MU-2P
FDP	Common Mode SPD	Common+ Differential Mode SPD
FDP	AU-CON convertor module	TG1000 Gateway
Soft Starters	CSX	xS1000
Soft Starters	CSXi	xS2000
Soft Starters	EMX4e	xS3000
Soft Starters	EMX4i	xS4000
AC Drives	x2000 Series	xD Series
Protection Relay	MRP11	RPR11
Fusegear	Fuse Mounting Kit	
Fusegear	FNX Series	FN Series

General Terms

All prices are on Maximum retail price basis inclusive of all duties, GST & any other tax as applicable.

Warranty Policy

All products listed in the price list are covered by a warranty against manufacturing defects for a period of 18* months from the date of purchase. For Lauritz Knudsen MCBs & Isolators mounted inside Lauritz Knudsen Distribution Boards, an extended warranty of 5 years is provided.

In the event of a defect due to faulty workmanship or other associated reasons, we will, at our discretion, remedy the defect or replace the faulty parts or the entire product as soon as possible, free of cost.

However, the warranty is subject to proper usage, efficient maintenance, and does not cover defects arising from fire, accidents, inefficient maintenance, faulty operation, or deliberate or accidental damage. It also does not cover damage to power electronic components such as thyristors & IGBTs, which primarily fail due to overtemperature & over-voltage. Users need to take adequate precautions to eliminate these conditions. Manufacturer shall not be responsible & liable for any special, incidental, social or consequential (including lost profits) loss, consequential damages, injury or damages (punitive) of any kind solely attributable to defect or failure of its products. Manufacturer shall not be liable in any manner for the issue of or failure in the performance of other equipment the product is attached to.

Comprehensive Service Support

Lauritz Knudsen Electrical & Automation has over seven decades of experience in providing after sales service for low voltage distribution system in every type of industry & commercial complex in India

Lauritz Knudsen Electrical & Automation offers the following services, partnering you in your maintenance of low voltage distribution products:

- Regular Maintenance
- Preventive Maintenance Programme
- On Call
- Annual Maintenance Contract
- Product Support for Managing Obsolescence-

Please visit www.LK-EA.com for latest update on our products & prices.

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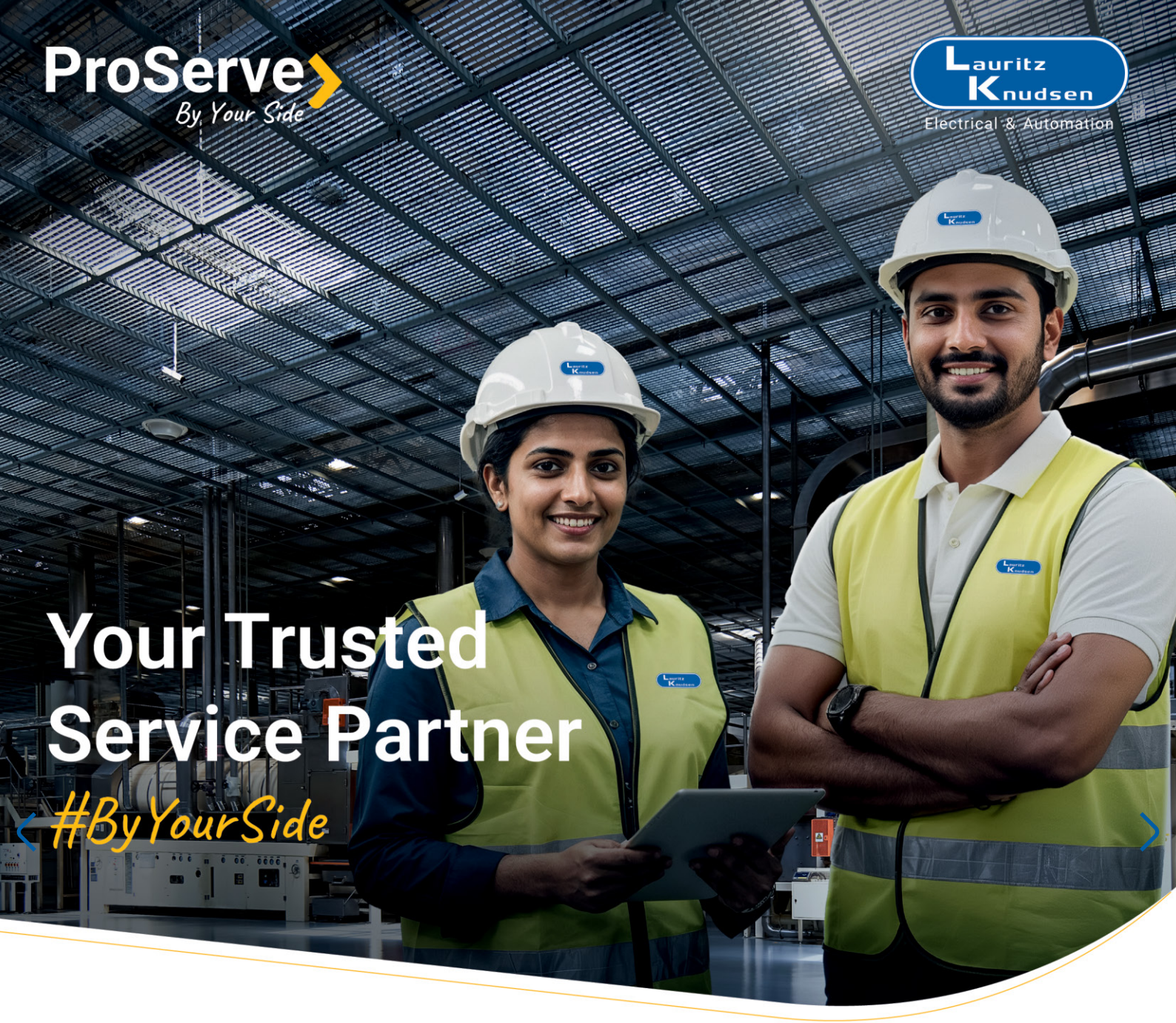
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