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Contactors

Power Contactors

- | 1 Pole | 2 Pole | 3 Pole | 4 Pole |
|--------|---------|--------------------|--------|
| • MR | • MNX | • MO | • MCX |
| | • MU-2P | • MNX | |
| | | • MI | |
| | | • MX Power | |
| | | • ML | |
| | | • MDX (DC Control) | |
| | | • MVO (Vacuum) | |

Control Relays (Auxiliary Contactors)

- MX0 (Mini) AC/DC
- MO0 AC
- MN0 DC

Capacitor Duty Contactors

- MO C

Definite Purpose Contactors

- MK1
- MU

MI Contactors 6-150A, AC-3 Rating

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- 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

For more details please contact nearest branch.

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3 Pole Power Contactors [8536]

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	765	10
				1 NC	CS94107	765	10
	12	30	MNX 12	1 NO	CS94108	885	10
				1 NC	CS94109	885	10
	18	30	MNX 18	1 NO	CS94100	1025	10
				1 NC	CS94101	1025	10
	22	32	MNX 22	1 NO	CS94980	1200	10
				1 NC	CS94981	1200	10
Fr 2	25	45	MNX 25	#	CS94110	1235	10
	32	55	MNX 32	#	CS94111	2700	10
	40	55	MNX 40	#	CS94190	4155	10
Fr 3	50	85	MNX 50	#	CS97075	5475	1
	70	100	MNX 70	#	CS97076	7360	1
	80	100	MNX 80	#	CS97077	9360	1
Fr 4	95	160	MNX 95	2 NO + 2 NC	CS94136	12710	1
	110	160	MNX 110	2 NO + 2 NC	CS94137	15315	1
	140	160	MNX 140	2 NO + 2 NC	CS94138	20210	1
	185	250	MNX 185	2 NO + 2 NC	CS94139	24315	1
Fr 5	225	300	MNX 225	2 NO + 2 NC	CS94140	26770	1
	250	300	MNX 250	2 NO + 2 NC	CS94141	30195	1
	300	400	MNX 300	2 NO + 2 NC	CS90280	36405	1
Fr 6	400	425	MNX 400	2 NO + 2 NC	CS94144	44580	1
	550	650	MNX 550	2 NO + 2 NC	CS94145	66390	1
	650	800	MNX 650	2 NO + 2 NC	CS96327	99345	1

Notes:

- 1) # Add-on blocks can be ordered separately
- 2) For ordering MNX/MO/MVO add-on aux contact blocks, please refer page No. 8
- 3) For ordering MNX 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
- Built in surge suppressor
- 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 300

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 0	9	30	MO 9	1 NO + 1 NC	CS94833	1125	10
	12	32	MO 12	1 NO + 1 NC	CS94834	1275	10
	18	32	MO 18	1 NO + 1 NC	CS94835	1460	10
Fr 1	25	45	MO 25	#	CS94567	1550	10
	32	50	MO 32	#	CS94568	3315	10
	40	50	MO 40	#	CS94569	4930	10
	45	50	MO 45▲	#	CS94570	6325	10
	50	100	MO 50	#	CS94572	6500	1
Fr 2	60	100	MO 60	#	CS94573	7620	1
	70	100	MO 70	#	CS94574	8740	1
	80	125	MO 80	#	CS94576	11115	1
Fr 3	95	125	MO 95	#	CS94577	11855	1
	110	140	MO 110	#	CS94578	14370	1
Fr 4	140	250	MO 140	2 NO + 2 NC	CS95000	19560	1
	185	275	MO 185	2 NO + 2 NC	CS95001	23530	1
	225	275	MO 225	2 NO + 2 NC	CS95002	25900	1
Fr 4* (Electronic coil) AC/DC	140	250	MO 140	2 NO + 2 NC	CS95042	22490	1
	185	275	MO 185	2 NO + 2 NC	CS95047	27060	1
	225	275	MO 225	2 NO + 2 NC	CS95052	29785	1
Fr 5	250	400	MO 250	2 NO + 2 NC	CS94441	29215	1
	300	500	MO 300	2 NO + 2 NC	CS94440	35230	1
Fr 5* (Electronic coil) AC/DC	250	400	MO 250	2 NO + 2 NC	CS94456	33600	1
	300	500	MO 300	2 NO + 2 NC	CS94464	40515	1

Note: For ordering Electronic Coil Suffix : 110-240 V : BOOO
240-415 V : DOOO

Vacuum Contactors [8536]

3 Pole Vacuum Contactors - Type MVO

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 400 – 820A AC-3
- With contact erosion indicator
- Wide band potted coil with built-in surge suppressor
- Coil on top design
- RoHS compliant



MVO 820

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
400	630	MVO 400	2 NO + 2 NC	CS90097	138300	1
500	630	MVO 500	2 NO + 2 NC	CS90098	179500	1
630	820	MVO 630	2 NO + 2 NC	CS90099	228100	1
820	1000	MVO 820	2 NO + 2 NC	CS90077	345200	1

2 Pole Power Contactors [8536]

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	600	10
	12	30	MNX 12-2P	1 NO	CS90234	645	10
	18	30	MNX 18-2P	1 NO	CS90236	760	10
	22	32	MNX 22-2P	1 NO	CS90238	920	10
Fr 2	25	45	MNX 25-2P	#	CS90240	965	10
	32	55	MNX 32-2P	#	CS90241	2120	10
	40	55	MNX 40-2P	#	CS90242	3255	10
Fr 3	50	85	MNX 50-2P	#	CS94061	4410	1
	70	100	MNX 70-2P	#	CS94062	5980	1
	80	100	MNX 80-2P	#	CS94063	7370	1
Fr 4	95	160	MNX 95-2P	2 NO + 2 NC	CS94064	9970	1
	110	160	MNX 110-2P	2 NO + 2 NC	CS94065	10865	1
	140	160	MNX 140-2P	2 NO + 2 NC	CS94066	14535	1
Fr 5	185	250	MNX 185-2P	2 NO + 2 NC	CS94978	18740	1
	225	300	MNX 225-2P	2 NO + 2 NC	CS94979	19865	1
	250	300	MNX 250-2P	2 NO + 2 NC	CS90301	21980	1
Fr 6	300	400	MNX 300-2P	2 NO + 2 NC	CS90346	26725	1
	400	425	MNX 400-2P	2 NO + 2 NC	CS94069	33375	1
	550	650	MNX 550-2P	2 NO + 2 NC	CS90243	54490	1
	650	800	MNX 650-2P	2 NO + 2 NC	CS90578	76120	1

3 Pole Power Contactors [8536]

3 Pole Power Contactors - Type MDX (DC Control)

Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 9 - 110A AC-3
- Built in surge suppressor for MDX 9 - 38
- IP20 connection security for MDX 9 - 38



MDX 25



MDX 38



MDX 110

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MDX 9	1 NO	CS96564	1380	1
	12	28	MDX 12	1 NO	CS96565	1545	1
	18	32	MDX 18	1 NO	CS96566	1745	1
	25	32	MDX 25	1 NO	CS96567	2800	1
Fr 2	32	56	MDX 32	#	CS96552	5245	1
	38	56	MDX 38	#	CS96553	6070	1
Fr 3	50	90	MDX 50	#	CS96554	8505	1
	65	110	MDX 65	#	CS96555	9685	1
	80	125	MDX 80	#	CS96556	11775	1
	95	125	MDX 95	#	CS96557	14895	1
	110	125	MDX 110	#	CS96558	15590	1

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 MDX/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, 110V 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 [8536]

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	950	10
6A	20A	MX 06	1 NC	CS94013	950	10
9A	20A	MX 09	1 NO	CS94014	980	10
9A	20A	MX 09	1 NC	CS94015	980	10
12A	20A	MX 12	1 NO	CS94016	1050	10
12A	20A	MX 12	1 NC	CS94017	1050	10
For DC control (Std. Coil Voltage - 24, 110, 220V)						
6A	20A	MX 06	1 NO	CS94021	1330	10
6A	20A	MX 06	1 NC	CS94022	1330	10
9A	20A	MX 09	1 NO	CS94023	1340	10
9A	20A	MX 09	1 NC	CS94024	1340	10
12A	20A	MX 12	1 NO	CS94025	1420	10
12A	20A	MX 12	1 NC	CS94026	1420	10

3 Pole Power Contactors - Type ML

Features

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



ML 1.5



ML 3



ML 6



ML 12

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	2830	1
Fr 2	32	40	ML 2	2 NO + 2 NC	SS90701	5255	1
	40	45	ML 3	2 NO + 2 NC	SS90721	7755	1
Fr 3	70	100	ML 4	2 NO + 2 NC	SS90910	12685	1
	110	125	ML 6	2 NO + 2 NC	SS90921	20020	1
Fr 4	300	400	ML 12	2 NO + 2 NC	SS91010	45345	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 - Type MCX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 16A – 800A AC-1
- Wide operating band up to 130A AC-1



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	16	MCX 01	#	CS97009	965	10
	25	MCX 02	#	CS97010	1050	10
	32	MCX 03	#	CS97011	1105	10
	40	MCX 04	#	CS97012	1720	10
Fr 2	50	MCX 11	#	CS97013	2275	1
	63	MCX 12	#	CS97014	4340	1
	80	MCX 13	#	CS97015	5835	1
Fr 3	100	MCX 22	#	CS97017	7780	1
	130	MCX 23	#	CS97018	9010	1
Fr 4	160	MCX 32	2 NO + 2 NC	CS97020	15110	1
	200	MCX 33	2 NO + 2 NC	CS97021	18950	1
	255	MCX 34	2 NO + 2 NC	CS97022	20295	1
Fr 5	325	MCX 41	2 NO + 2 NC	CS97023	37720	1
	360	MCX 42	2 NO + 2 NC	CS97024	40915	1
	400	MCX 43	2 NO + 2 NC	CS97025	48355	1
	500	MCX 44	2 NO + 2 NC	CS97026	60680	1
	600	MCX 45	2 NO + 2 NC	CS97027	69510	1
	700	MCX 46	2 NO + 2 NC	CS97028	85660	1
	800	MCX 47	2 NO + 2 NC	CS94291	105165	1

Automatic Transfer Controllers (ATC)



AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 Controller	ATC20000000	20300	1

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

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



Notes:

- 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.

Control Relays (Auxiliary Contactors) [8536]

Type MX0



MX0 40E

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Available with AC or DC control in 45mm width
- 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	1010	10
	MX0 31E (3 NO + 1 NC)	CS94019	1010	10
	MX0 22E (2 NO + 2 NC)	CS94020	1010	10
	MX0 13E (1 NO + 3 NC)	CS94041	1010	10
	MX0 04E (4 NC)	CS94042	1010	10
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94027	1350	10
	MX0 31E (3 NO + 1 NC)	CS94028	1350	10
	MX0 22E (2 NO + 2 NC)	CS94029	1350	10
	MX0 13E (1 NO + 3 NC)	CS94043	1350	10
	MX0 04E (4 NC)	CS94044	1350	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. For Example, In MX0 DC control Contactors, 4NO + 4NC combination can be achieved with 2NO + 2NC aux contactor and 2NO + 2NC add on block and not with 4NO standalone contactor and 4NC add on block
- 4) For ordering add-on aux contact blocks, please refer page No. 8

AC Control Contactor - MO0



MO0 AC

Features

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

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	760	10
	MO0 31E (3NO + 1NC)	CS91624	760	10
	MO0 22E (2NO + 2NC)	CS91625	760	10

- Note:** 1) 6NC & above combination is not recommended for MO0
 2) For ordering add-on aux contact blocks, please refer page No. 8
 3) Other combinations available on request

DC Control Contactor - MN0



MN0 DC 22E

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	MN0 40E (4 NO)	SS94665	1500	10
	MN0 31E (3 NO + 1 NC)	SS94666	1500	10
	MN0 22E (2 NO + 2 NC)	SS94667	1500	10
	MN0 13E (1 NO + 3 NC)	SS94668	1500	10
	MN0 04E (4 NC)	SS94669	1500	10

For ordering add-on aux contact blocks, please refer page No. 8

Capacitor Duty Contactors [8536]

Capacitor Duty Contactors - Type MO C



MO C25



MO C50



MO C100

Size	kVA 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	1470	1
	5	MO C5	1NO	CS96127	1540	1
	8.5	MO C8.5	1NO	CS96320	1775	1
	10	MO C10	1NO	CS96156	1925	1
	12.5	MO C12.5	1NO	CS96321	1980	1
	15	MO C15	1NO	CS90019	2760	1
	20	MO C20	1NO	CS90021	3155	1
	25	MO C25▲	1NO	CS96322	3580	1
Fr 2	30	MO C30\$	1NO	CS96148	5470	1
	40	MO C40	1NO	CS96147	9010	1
	50	MO C50	1NO	CS96324	10235	1
Fr 3	60	MO C60\$	1NO	CS96149	11650	1
	75	MO C75	1NO	CS96150	14115	1
	85	MO C85	1NO	CS96157	14810	1
	100	MO C100\$	1NO	CS96158	15000	1

Features

- MO C Range available from 3 - 100 kVA, AC-6b
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Built in surge suppressor
- 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

**For Power Quality Solutions,
please refer page No. 64-69**

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

▲ 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]

Single Pole Contactors - Type MR

Features

- Wide and chatter free operating band
- High AC-1 rating for single phase applications



MR 11W
(Wide band coil)



MR 13



MR 11NW
SPN (Wide band coil)

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
25A	MR 11W	CS94176	720	10
25A	MR 11NW	CS94178	770	10
40A	MR 13	CS94992	790	40

Note: 1) Ordering Suffix BOOO - 240V, 50Hz

2) For ordering add-on aux. contact block, please refer page No. 9

Two Pole Contactors - Type MU-2P



MU 16-2P

Features

- Wide band potted coil
- Neutral isolation

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
16A	MU16-2P	CS90117	595	10
25A	MU25-2P	CS90118	775	10
40A	MU40-2P	CS90119	1015	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

Type MK1 & MK2



MK 1



MK 2

Type	AC3 Rating (A)	Motor Output 3 Phase 415V, 50Hz		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
		HP	KW			
MK 1	15A	7.5	5.5	SS95200	1110	10
MK 2	25A	7.5	5.5	CS90945	1195	10

For Overload Relays type MK1 & MK2, please refer page No. 14

For Ordering Suffix, please refer page No. 10

(For 360V wide band, Ordering Suffix - SOOO)

Type MU



MU 1



MU 1H



MU 2



MU 3

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
16A	MU 1	CS94007	1775	10
20A	MU1 H	CS90623	1935	10
25A	MU 2	CS94008	2410	10
32A	MU 3	CS90609	2905	10

Note: 1) For Overload Relays type MU refer page No.14

2) For Ordering Suffix please refer page No.10

3) For ordering add-on aux. contact block, please refer page No. 9

Accessories - Add-on Auxiliary Contact Blocks [8538]

	MNX 9-80	MNX 95-650	MO 9-110	MO 140-300	ML	MX	MDX 9-110	MCX 01-23	MCX 32-47	MX0	MN0	MO0	MO C	MR	MU
Front add-on possible	Yes	No	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No
Side add-on possible	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	Yes

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



MN0 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# 9-110	M.R.P. (₹) Per Unit	MX 0/6/9/12	M.R.P. (₹) Per Unit	MU-2P	M.R.P. (₹) Per Unit	MN0 DC	M.R.P. (₹) Per Unit
4 NO	CS94112^	450	CS94594^	450	-	-	CS94033^	390	-	-	SS94083^	410
3 NO + 1 NC	CS94113^	450	CS94595^	450	-	-	CS94034^	390	-	-	SS94084^	410
2 NO + 2 NC	CS94114^	450	CS94596^	450	CS96569~	525	CS94035^	390	-	-	SS94085^	410
1 NO + 3 NC	CS94115^	450	CS94597^	450	CS90906~	525	CS94036^	390	-	-	SS94086^	410
4 NC	CS94116^	450	CS94598^	450	-	-	CS94037^	390	-	-	SS94087^	410
2 NO	CS94117^	300	CS94591^^	300	-	-	CS94030^	250	CS90692^	290	SS94080^	280
1 NO + 1 NC	CS94118^	300	CS94592^^	300	CS96568~	305	CS94031^	250	CS90693^	290	SS94081^	280
2 NC	CS94119^	300	CS94593^^	300	-	-	CS94032^	250	CS90694^	290	SS94082^	280
1 NO	CS94120^	150	CS94585^^	150	CS96586~	170	-	-	CS90695^	150	SS94715^	140
1 NC	CS94121^	150	CS94586^^	150			-	-	CS90696^	150	SS94716^	140

For MDX Side add-on and top add-on can not be mounted together



MNX/MCX
Side Add-on aux. contact Block



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

Side Mounting

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
First left	1 NO + 1 NC	CS94220^	450	CS94201^	480	CS94201^	480	CS94580^
First Right	1 NO + 1 NC	CS94221^	450	CS94202^	480	CS94202^	480	CS94581^
Second Left	1 NO + 1 NC	-	-	-	-	CS94203^	480	CS94582^
Second right	1 NO + 1 NC	-	-	-	-	CS94204^	480	CS94583^

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.



MO
Left Add-on aux. contact Block



MDX
Side Add-on aux. contact Block

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	MVO 400-820	M.R.P. (₹) Per Unit	MDX# 9-110
First left	1 NO + 1 NC	CS94205^	550	CS95033^	550	CS91208^	550	ST94985^
First Right	1 NO + 1 NC	CS94206^	550	CS95034^	550	CS91209^	550	
Second Left	1 NO + 1 NC	CS94207^	550	CS95035^	550	CS95035^	550	-
Second right	1 NO + 1 NC	CS94208^	550	CS95036^	550	CS95036^	550	-

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

Accessories - Add-on Auxiliary Contact Blocks [8538]

Side Mounting Add-on aux. Contact Block - ML



ML Add-on aux. contact Block

Side Mounting	Aux Contact	Suitable for			
		ML 4/6	M.R.P. (₹) Per Unit	ML 12	M.R.P. (₹) Per Unit
Left	1 NO + 1 NC	SS91494 [^]	625	-	-
Right	1 NO + 1 NC	-	-	SS91474 [^]	660

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

Add-on aux. Contact Block - MR & MU



MR 1NO

Description	For Contactor	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit
Top add-on single pole	MR	1 NO	CS94179 [^]	190
Side mounted auxiliary contact block	MU 1 / MU 2	1 NO + 1 NC	SS94072 [~]	160
		1NC	SS94074 [~]	145

~ Standard Packing is 1 ^Standard Packing is 10 ^^Standard Packing is 20

Accessories - Surge Suppressors [8538]

For MX, MNX, MDX & MCX



MNX S1

MNX S3

MNX S4

MX - S1

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0 AC (S1)	CS94039 [*]	365	10
MNX 9 - 40 / MCX 01 - 04 (S1)	CS94166 [*]	370	10
MNX 50 - 80 / MCX 11 - 23 (S3)	CS94163 [*]	405	10
MNX 95 - 250 / MCX 32 - 34 (S4)	CS94164 [#]	1340	10
MNX 300 - 400 / MCX 41 - 44 (S6)	CS94165 [#]	1810	10
MDX 50 - 110	CS96571 ^{**}	345	10

Ordering Suffix * 110-240V: B000, 415V: D000 ** : OOOO
110V: A000, 220-240V: B000, 360-525V: D000

MO, MO C, MO0, MVO, MDX 9-38, MNX 550-650, MCX 45-47, MX DC & MX0 DC have built in surge suppressor

For MN0



MN - S1

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN0 DC	SS94781	405	10

Ordering Suffix: 24-48VDC : 5000
110-220VDC : 2000

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

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



MNX M1
(MNX 9-40)

MCX M3
(MCX 22)

MO MI Kit
(MO 9-110)

MX-M1
(MX0 / MX06-MX09)

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0	CS94038	355	10
MO 9 - 110 [*]	CS94584	470	10
MDX 9 - 38	CS96572	380	1
MDX 50 - 110	CS96573	1170	1
MNX 9 - 40	CS94126	380	10
MNX 50 - 80	CS94197	1725	1
MNX 95 - 140	CS94198	2685	1
MNX 185 - 250	CS94199	3060	1
MNX 300 - 650	CS94200	3470	1
MCX 01 - 04	CS94126	380	10
MCX 11 - 13	ST50540	720	10
MCX 22 - 23	CS93095	2605	1
MCX 32 - 34	SS94992	2695	1
MCX 41 - 47	CS94301	4445	1

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	350	10
MO 50 - 70 / MOC 40 - 60	CS94093	550	10
MO 80 - 110 / MOC 75 - 100	CS94094	800	1
MO 140 - 225	CS91057	1500	1
MO 250 - 300	CS90940	2200	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

3) In MO C 30, MO C 60 & MO C 100 spreader link is included in packing

4) Ordering Suffix: OOOO

Accessories - Connecting Links [8538]

DOL Starter - Link



DOL Starter



Contactor MPCB Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90396 #	285	10
MOG H1/S1 with MO 25-45	CS90391 #	285	10

Reversing DOL Starter - Link



RDOL Starter



Reversing Starter



Paralleling Link



Contactor MPCB Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90548 #	715	10
MOG H1/S1 with MO 25-45	CS90546 #	715	10

Star Delta Starter - Link



Star Delta Starter



Reversing / star delta Link



Paralleling Link



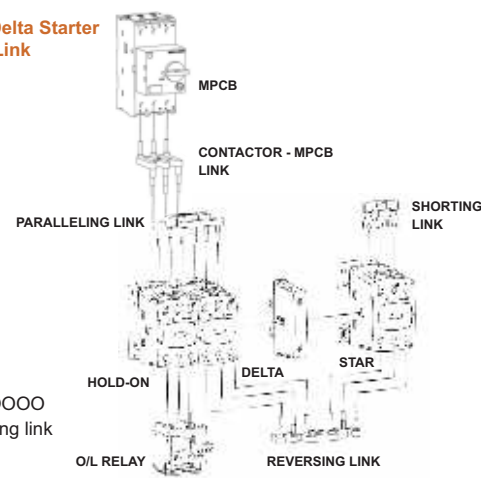
Contactor MPCB Link



Shorting Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90549 #	860	10
MOG H1/S1 with MO 25-45	CS90547 #	860	10

Example of Star Delta Starter Connection with Link



Ordering Suffix OOOO
For MPCB paralleling link refer page no.17

Accessories - Mechanical Latch [8538]

Mechanical Latch



Suitable For	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9-70A, MO 0 control	Mechanical Latch	CS90136	1905	10

Features

- Keeps contactor in closed condition even after removal of coil supply
- Ideal for logical operations
- Suitable for sites where voltage fluctuation is frequent
- Saves energy as coil supply can be removed once contactor is picked up

For Ordering Suffix refer below table

Standard Coil Voltage of Mechanical Latch is 24V AC, 110V AC & 240V AC

Ordering Suffix for Standard Coil Voltages

Ordering Suffix for Standard Coil Voltages			
AC Control		DC Control*	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	G000	24	4000
110	A000	48	5000
220	K000	110	1000
240	B000	220	2000
415	D000		
440	P000		

Note:

- 1) * For MX DC, MDX, MX0 DC & MN0 DC
- 2) For other coil voltages please contact nearest branch office
- 3) Ordering suffix for electronic coil : B000 for 110-240 V
D000 for 240-415 V

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
MU 1	CS94010~	625	CS94009 ^	475
MU 1H	CS90624~	825		
MU 2	CS94011~	1115		
MU 3	CS90612~	1415		
ML 1.5	SS95305^	1530	SS90873 ^	635
ML 2	SS95307^	2490	SS90545 ^	1060
ML 3	SS95309^	4190		
ML 4	SS95311^	6530	SS91258 ~	2025
ML 6	SS95313^	11500		
ML 10	SS95315~	23420	SS91011 ~	4560
ML 12	SS95317~	26880		
MR	-	-	CS94102 ^	400
MU16-2P	CS90217^	210	CS90793 ^	260
MU25-2P	CS90218^	275		
MU40-2P	CS90219^	405		
MO 0 AC	-	-	CS94841 ^	475
MN 0 AC	-	-	SS94191 ^	505
MN 0 DC	-	-	SS94651 ~	935

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^	475
MO C40 - 60	CS96318^	1500
MO C75 - 100	CS96319^	2550

Front housing and 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~	460
ML 2/ ML 3	ST23866~	630
ML 4/ ML 6	ST28735~	1145
Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	SS90650~	2165

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 + 1 NC)	CS94843^	530	CS94841^	475
	MO 12 (1 NO + 1 NC)	CS94844^	685		
	MO 18 (1 NO + 1 NC)	CS94845^	750		
	MO 9	CS96380^~	530	CS96317^	475
	MO 12	CS96381^~	685		
	MO 18	CS96382^~	750		
	MO 25	CS96383^~	860		
	MO 32	CS96384^~	1605		
	MO 40	CS96385^~	2555		
	MO 45	CS96386^~	2965		
	MO 50	CS96387^~	3030		
	MO 60	CS96388^~	3740	CS96318^	1500
	MO 70	CS96389^~	4360		
	MO 80	CS96390^~	5880	CS96319^	2550
	MO 95	CS96391^~	6685		
	MO 110	CS96392^~	8575		
	MO 140	CS90357~	12110	CS90356~	5335
	MO 185	CS90358~	13185		
	MO 225	CS90359~	14975	CS94442~	7970
	MO 250	CS94444~	18000		
	MO 300	CS94443~	21075	CS90855~	6135
	MO 140 (electronic coil)	CS90357~	12110		
	MO 185 (electronic coil)	CS90358~	13185		
	MO 225 (electronic coil)	CS90359~	14975		
	MO 250 (electronic coil)	CS94444~	18000	CS90738~	9165
	MO 300 (electronic coil)	CS94443~	21075		
	MVO	-	-	CS90174~	15845
MNX Contactors	MNX 9	CS94123^	530	CS94105^	475
	MNX 12	CS94124^	685		
	MNX 18	CS94125^	750		
	MNX 22	CS94269^	770		
	MNX 25	CS94127^	860		
	MNX 32	CS94128^	1605		
	MNX 40	CS94147^	2555	CS94192^	1500
	MNX 50	CS94150^	3030		
	MNX 70	CS94151^	4360		
	MNX 80	CS94152^	5880	CS94196~	2550
	MNX 95	CS94153~	6685		
	MNX 110	CS94154~	8575		
	MNX 140	CS94155~	12110	CS94194~	4590
	MNX 185	CS94156~	13185		
	MNX 225	CS94157~	14975		
	MNX 250	CS90310~	18000	CS94195~	5345
	MNX 300	CS90283~	21075		
	MNX 400	CS94161~	28995		
	MNX 550	CS94162~	38230	CS94193~	15845
	MNX 650	CS96336~	56355		
MCX Contactors	MCX 01-04	-	-	CS94105^	475
	MCX 11	CS94077^	1715	CS94009^	475
	MCX 12	CS94078^	2825		
	MCX 13	CS90307^	3945		
	MCX 22	CS94331~	4890	ST91291*~	1500
	MCX 23	CS90078~	5995		
	MCX 32	CS94082^	9025	CS94196~	2550
	MCX 33	CS94083^	11345		
	MCX 34	CS94084^	12420		
	MCX 41	CS94295~	21675	CS94195~	5345
	MCX 42	CS94296~	27505		
	MCX 43	CS94297~	30850		
	MCX 44	CS94298~	37790		
	MCX 45	CS94299~	40740		
	MCX 46	CS94300~	46875	CS94193~	15845
	MCX 47	CS90308~	60430		

* 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



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	SS941410OEO	1230	10
	0.3 - 0.5	SS941410OGO	1230	10
	0.45 - 0.75	SS941410OJO	1230	10
	0.6 - 1	SS941410OKO	1230	10
	0.9 - 1.5	SS941410OMO	1240	10
	1.4 - 2.3	SS941410OPO	1240	10
	2 - 3.3	SS941410OQO	1240	10
	3 - 5	SS941410OSO	1240	10
	4.5 - 7.5	SS941410OUO	1240	10
	6 - 10	SS941420OVO	1240	10
	9 - 15	SS941420OBO	1270	10
	14 - 23	SS941440ODO	1395	10
	20 - 33	SS941450OEO	2020	10
	24 - 40	SS941450OFO	2175	10
MN 5 (Directly Operated)	Direct Mounting on MNX 50 - 80			
	9 - 15	SS941350OBO	2510	10
	14 - 23	SS941350ODO	2510	10
	20 - 33	SS941360OEO	2530	10
	30 - 50	SS941360OGO	2805	10
	36 - 60	SS941360OTO	3260	10
	45 - 75	SS941370OJO	3500	10
	66 - 110	SS941370OKO	4030	10
MN 12 (CT Operated)	Separate Mounting			
	28 - 46.5	SB942110OGO	6210	1
	42 - 69	SS941380OHO	6210	1
	60 - 100	SS941380OKO	6210	1
	90 - 150	SS941380OMO	6210	1
	135 - 225	SS941380OPO	7620	1
	180 - 300	SS941390OQO	8095	1
	270 - 450	SS941390ORO	9520	1
MN 12L # (CT Operated)	Separate Mounting			
	42 - 69	SS941270OHO	11315	1
	60 - 100	SS941270OKO	11315	1
	90 - 150	SS941270OMO	11315	1
	135 - 225	SS941270OPO	11315	1
	180 - 300	SS941270OQO	11315	1
	340 - 570	SS941270OSO	11315	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



RTO 1



RTO 2



RTO 3



RTO 4

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	CS963550OFO	1500	10
	0.31 - 0.55	CS963550OGO	1500	10
	0.55 - 0.85	CS963550OJO	1500	10
	0.78 - 1.2	CS963550OLO	1500	10
	1.2 - 2.0	CS963550ONO	1500	10
	1.9 - 2.8	CS963550OPO	1510	10
	2.4 - 3.6	CS963550OQO	1510	10
	3.5 - 5.2	CS963550OSO	1510	10
	4.6 - 6.7	CS963550OTO	1510	10
	6.7 - 9.7	CS963550OVO	1510	10
	8.5 - 12.5	CS963550OAO	1550	10
	12.5 - 18.5	CS963560OCO	1550	10
	17 - 25.5	CS963560ODO	1745	10
	25 - 37	CS963560OEO	2635	10
	35 - 45	CS963560OGO	2715	10
RTO - 2 (Directly Operated)	Direct Mounting on MO 50 - 70			
	5 - 7.5	CS963660OUO	3070	1
	7 - 11	CS963660OVO	3070	1
	10.5 - 16	CS963660OBO	3070	1
	15 - 21	CS963660OCO	3070	1
	20 - 31	CS963660OEO	3110	1
	30 - 43	CS963660OFO	3350	1
	40 - 57	CS963660OSO	4130	1
	50 - 75	CS963670OJO	4430	1
RTO - 3 (Directly Operated)	Direct Mounting on MO 80 - 110			
	23 - 30	CS908730OEO	4995	1
	29 - 38	CS963030OQO	4995	1
	37 - 49	CS963040OGO	5350	1
	47 - 62	CS963120OTO	5350	1
	60 - 78	CS963130OJO	6185	1
	75 - 110	CS963140OKO	7155	1
RTO - 4 (CT Operated)	Separate Mounting			
	23.4 - 36	CS970960OGO	7845	1
	36 - 60	CS970960OJO	7845	1
	57 - 84	CS970960OKO	7845	1
	72 - 108	CS970960OLO	7845	1
	105 - 156	CS970960OMO	7845	1
	138 - 201	CS970960ONO	9630	1
	201 - 291	CS970960OQO	9930	1
	255 - 375	CS970960ORO	12035	1

Electronic Motor Protection Relay [8536]

New

Type REO - Direct Mounting on MO Contactor



Features

- Protections:
 - Overload
 - Single Phasing, Phase unbalance
 - Locked Rotor
 - Earth Fault in REO 1.1G
- Trip indication
- Selectable Trip class - 10A, 10, 20, 30 as per IEC 947-4-1

Type of Mounting	Relay Range (A)	REO 1.1		REO 1.1G (With in built earth fault protection)		Std. Pkg. (Nos.)
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
Direct Mounting on MO 9-45	0.15 - 0.75	CS904180OJO	3600	CS904230OJO	7300	10
	0.6 - 3	CS904180OQO	3600	CS904230OQO	7300	10
	2.4 - 12	CS904180OLO	3600	CS904230OLO	7300	10
	9 - 45	CS904180OGO	4050	CS904230OGO	7550	10

MPR200nX - Motor Protection Relay



Features

- Protections:
 - Overload
 - Locked Rotor
 - Single Phasing, Current Unbalance, Phase Sequence Reversal
 - Under Current
- Inbuilt CT's (1 A to 88 A)
- Trip indication
- Test facility
- Selectable trip class - 10A, 10, 20 and 30 as per IEC 947-4-1

Model	O/L Range (A)	Device Code	Aux. Supply: 240 V AC		Aux. Supply: 110 V AC	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MPR200nX	1 - 2.75	49, 51LR, 37, 46,	MPR200BE010	2800	MPR200BB010	2800
	2 - 5.5		MPR201BE020	2800	MPR201BB020	2800
	4 - 11		MPR202BE040	3300	MPR202BB040	3300
	8 - 22		MPR203BE080	3300	MPR203BB080	3300
	16 - 44		MPR204BE160	3800	MPR204BB160	3800
	32 - 88		MPR205BE320	3800	MPR205BB320	3800

Note : MPR200nX/ MPR300 must sense Line current in case of Star-Delta Starter. Please refer page 71 for wiring dia. of Star-Delta and Reversible starters.

MPR300 - Motor Protection Relay

With in-built earth fault protection

Features

- Protections:
 - Overload
 - Earth Fault
 - Locked Rotor
 - Single Phasing, Current Unbalance, Phase Sequence Reversal
 - Under Current
- Inbuilt CT's (1 A to 88 A)
- Trip indication
- Test facility
- Selectable trip class - 10A, 10, 20 and 30 as per IEC 947-4-1



Model	O/L Range	Aux. Supply: 240 V AC		Aux. Supply: 110 V AC	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MPR300	1-2.75	MPR300BE010	6000	MPR300BB010	6000
	2-5.5	MPR301BE020	6000	MPR301BB020	6000
	4-11	MPR302BE040	6500	MPR302BB040	6500
	8-22	MPR303BE080	6500	MPR303BB080	6500
	16-44	MPR304BE160	7000	MPR304BB160	7000
	32-88	MPR305BE320	7000	MPR305BB320	7000

Note : For comprehensive Relays portfolio kindly refer page No. 70

Thermal Overload Relays [8536]

Type RX



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)	0.23-0.41	CS963570OFO	840	10
	0.45-0.78	CS963570OJO	840	10
	0.78-1.2	CS963570OLO	840	10
	1.2-1.9	CS963570ONO	840	10
	1.8-2.8	CS963570OPO	840	10
	2.6-3.6	CS963570OQO	840	10
	3.6-5.2	CS963570OSO	840	10
	4.8-7	CS963570OTO	840	10
	6.4-9.7	CS963570OVO	840	10
	8.2-12.1	CS963570OAO	840	10

Type ML



ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
ML 1 (Directly Operated)	Direct Mounting on ML 1.5 Contactors			
	0.15 - 0.25	SS918580ODO	1990	10
	0.25 - 0.4	SS918580OFO	1990	10
	0.4 - 0.65	SS918580OHO	1990	10
	0.6 - 1	SS918580OKO	1990	10
	1 - 1.6	SS918580OMO	1990	10
	1.5 - 2.5	SS918580OPO	1990	10
	2.5 - 4	SS918580ORO	1990	10
	4 - 6.5	SS918580OTO	1990	10
	6 - 10	SS918580OVO	1990	10
	10 - 16	SS918580OBO	1990	10
ML 2 / ML 3 (Directly Operated)	Direct Mounting on ML 2/3 Contactors			
	9 - 14	SS918590OAO	2940	10
	13 - 21	SS918590OCO	2940	10
	20 - 32	SS918590OEO	2940	10
	28 - 42	SS918590OFO	2940	10

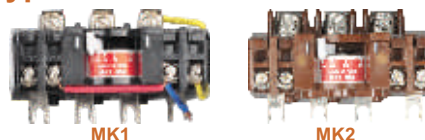
Thermal Overload Relays [8536]

Type MU (3 Pole) & MU-2P (2 Pole)



Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated)	MU1 (3 Pole)			
	4 - 6.5	SS96557OOTO	980	1
	6 - 10	SS96557OOVO	980	1
	MU2 (3 Pole)			
	9 - 14	SS95979OOAO	1070	1
	13 - 21	SS95979OOCO	1135	1
	15 - 25	SS95979OODO	1240	1
	20 - 32	SS95979OOEO	1385	1
	24 - 38	SS95979OOGO	1520	1
	28 - 42	SS95979OOFO	1645	1
Direct Mounting on MU Contactor	MU 2P (2 Pole)			
	1 - 1.6A	CS90207OOMO	470	1
	1.5 - 2.5A	CS90207OOPO	470	1
	2.5 - 4A	CS90207OORO	470	1
	4 - 6.5A	CS90207OOTO	470	1
	6 - 10A	CS90207OOVO	470	1
	9 - 14A	CS90207OOAO	470	1
	11 - 18A	CS90207OOCO	540	1
	13 - 22A	CS90207OODO	540	1
	16 - 26A	CS90207OOBO	540	1
	20 - 32A	CS90207OOEO	680	1
	26 - 40A	CS90207OOFO	680	1

Type MK1 & MK2



Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated)	MK1 Relay			
	0.6 - 1	SS90035OOKO	720	10
	1 - 1.6	SS90035OOMO	720	10
	1.5 - 2.5	SS90035OOPO	720	10
	2.5 - 4	SS90035OORO	720	10
	4 - 6.5	SS90035OOTO	720	10
	6 - 10	SS90035OOVO	720	10
	9 - 14	SS90035OOAO	720	10
	11 - 18	SS90036OOCO	750	10
	13 - 22	SS91888OODO	820	10
Direct Mounting on MK Contactors	MK2 Relay			
	13 - 22	CS90946OODO	880	10
	20 - 32	CS90946OOEO	880	10

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	SS94968O000	45	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS94701O000	155	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS94700O000	155	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS94638O000	240	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS94151O000	165	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS94152O000	220	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS91887O000	120	50

Relay Reset Cord for MN Relay



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN Relay reset cord - 400mm	SB94207O000	540	1
MN Relay reset cord - 650mm	SB94208O000	565	1
MN Relay reset cord - 900mm	SB94209O000	620	1
MN Relay reset cord - 1200mm	SB94210O000	695	1

Separate Mounting Kit for RTO & REO Relay



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO/RTO-1 Relay Separate Mounting Kit	CS96335O000	210	1
RTO-2 Relay Separate Mounting Kit	CS96306O000	475	1
RTO-3 Relay Separate Mounting Kit	CS96307O000	715	1

Relay Reset Cord for RTO & REO Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO Relay reset cord - 400mm	CS90941O000	540	1
RTO Relay reset cord - 650mm	CS90942O000	565	1
RTO Relay reset cord - 900mm	CS90943O000	620	1
RTO Relay reset cord - 1200mm	CS90944O000	695	1
REO Relay Reset Cord - 400mm	CS90425O000	540	1



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Motor Protection Circuit Breakers [8536]

Rocker Type

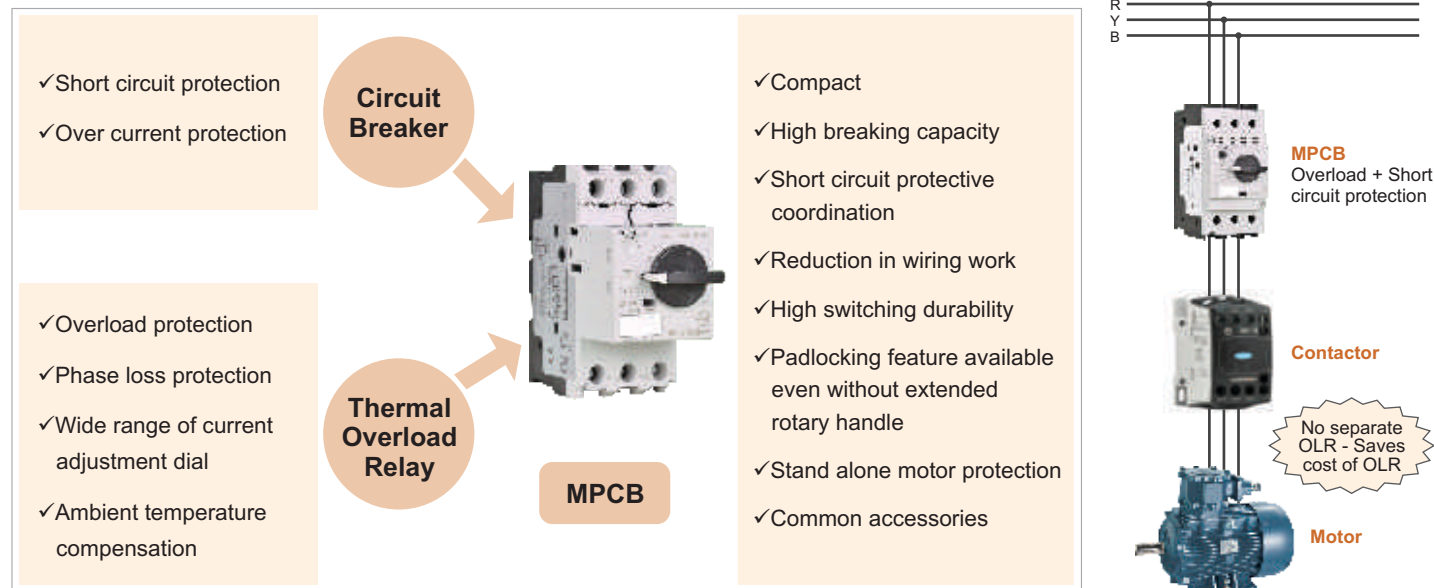
- MOG-S1: upto 32A
- Short circuit + Overload protection
- Icu=100kA upto 10A, Icu=50kA for 13A & Icu=25kA for 16-32A

Rotary Type

- MOG-H1M: upto 32A
- MOG-H2M: 32A-63A
- Short circuit protection
- Icu=100kA upto 13A & Icu=50kA from 16A-63A

Rotary Type

- MOG-H1: upto 32A
- MOG-H2: 32A-63A
- Short circuit + Overload protection
- Icu=100kA upto 13A & Icu=50kA from 16A-63A



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	1995	1
0.25	0.06	0.16 - 0.25	3.3	ST418900000	1995	1
0.40	0.09	0.25 - 0.40	5.2	ST418910000	1995	1
0.63	0.12	0.40 - 0.63	8.2	ST418920000	2210	1
1.00	0.25	0.63 - 1.00	13	ST418930000	2210	1
1.60	0.55	1.00 - 1.60	20.8	ST418940000	2220	1
2.50	0.75	1.60 - 2.50	32.5	ST418950000	2220	1
4.00	1.50	2.50 - 4.00	52	ST418960000	2290	1
6.30	2.20	4.00 - 6.30	81.9	ST418970000	2290	1
10.00	4.00	6.30 - 10.00	130	ST418980000	2360	1
13.00	5.40	9.00 - 13.00	169	ST418990000	2705	1
16.00	7.50	11.00 - 16.00	208	ST419000000	2905	1
20.00	9.00	14.00 - 20.00	260	ST419010000	3110	1
25.00	12.50	19.00 - 25.00	325	ST419020000	3275	1
32.00	15.00	24.00 - 32.00	416	ST419030000	5710	1

Breaking capacity: Icu = 100kA upto 10A, Icu = 50kA for 13A & Icu = 25kA for 16-32A

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	2555	1
0.25	0.06	0.16 - 0.25	3.3	ST419050000	2555	1
0.40	0.09	0.25 - 0.40	5.2	ST419060000	2555	1
0.63	0.12	0.40 - 0.63	8.2	ST419070000	2975	1
1.00	0.25	0.63 - 1.00	13	ST419080000	2975	1
1.60	0.55	1.00 - 1.60	20.8	ST419090000	2975	1
2.50	0.75	1.60 - 2.50	32.5	ST419100000	2975	1
4.00	1.50	2.50 - 4.00	52	ST419110000	3035	1
6.30	2.20	4.00 - 6.30	81.9	ST419120000	3035	1
10.00	4.00	6.30 - 10.00	130	ST419130000	3200	1
13.00	5.40	9.00 - 13.00	169	ST419140000	3515	1
16.00	7.50	11.00 - 16.00	208	ST419150000	3955	1
20.00	9.00	14.00 - 20.00	260	ST419160000	4280	1
25.00	12.50	19.00 - 25.00	325	ST419170000	4280	1
32.00	15.00	24.00 - 32.00	416	ST419180000	7300	1

Breaking capacity: Icu = 100kA upto 13A & Icu = 50kA from 16A - 32A

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

Motor Protection Circuit Breakers [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	ST4192300000	2175	1
0.25	0.06	3.3	ST4192400000	2175	1
0.40	0.09	5.2	ST4192500000	2175	1
0.63	0.12	8.2	ST4192600000	2905	1
1.00	0.25	13	ST4192700000	2905	1
1.60	0.55	20.8	ST4192800000	2905	1
2.50	0.75	32.5	ST4192900000	2905	1
4.00	1.50	52	ST4193000000	2905	1
6.30	2.20	81.9	ST4193100000	2905	1
10.00	4.00	130	ST4193200000	2910	1
13.00	5.40	169	ST4193300000	2910	1
16.00	7.50	208	ST4193400000	2915	1
20.00	9.00	260	ST4193500000	3090	1
25.00	12.50	325	ST4193600000	3735	1
32.00	15.00	416	ST4193700000	5635	1

Breaking capacity: Icu = 100kA upto 13A & Icu = 50kA from 16A - 32A

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	ST4191900000	8475	1
40.00	20.00	28.00 - 40.00	520	ST4192000000	9010	1
50.00	25.00	35.00 - 50.00	650	ST4192100000	11030	1
63.00	34.00	45.00 - 63.00	819	ST4192200000	11545	1

Breaking capacity: Icu = 50kA from 32A - 63A

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	ST4193800000	7710	1
40.00	20.00	520	ST4193900000	7710	1
50.00	25.00	650	ST4194000000	8035	1
63.00	34.00	819	ST4194100000	8035	1

Breaking capacity: Icu = 50kA from 32A - 63A

Accessories for MOG [8538]



Short Circuit Alarm



Auxiliary + Alarm



Extended Rotary Handle



Shunt Trip



MPCBs with bus bar connection



Connecting Busbar link



3 Phase Feed in terminal

Mounting Position *	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
F1/F2	Auxiliary Contact Front mtg. 1NO	ST4194200000	410	10
F1/F2	Auxiliary Contact Front mtg. 1NC	ST4194300000	410	10
L	Auxiliary Contact Left side mtg. 2NO	ST4194400000	505	1
L	Auxiliary Contact Left side mtg. 1NO + 1NC	ST4194500000	505	1
L	Auxiliary Contact Left side mtg. 2NC	ST4194600000	505	1
F2	Trip Alarm Contact Front mtg. 1NO	ST4194700000	650	10
F2	Trip Alarm Contact Front mtg. 1NC	ST4194800000	650	10
L	Auxiliary + Alarm Left side mtg. 2NO	ST4194900000	695	1
L	Short circuit alarm Left side mtg. 1NO + 1NC	ST4195000000	695	1
R	Shunt trip 24V DC	ST4195100000	1305	1
R	Shunt trip 110V, 50Hz	ST4195200000	1375	1
R	Shunt trip 230V, 50Hz	ST4295200000	1375	1
R	Under Voltage release, 110V, 50Hz	ST4195300000	1375	1
R	Under Voltage release, 415V, 50Hz	ST4195400000	1375	1
-	External operating handle, (Black) Frame 1	ST4195500000	895	1
-	External operating handle, (Black) Frame 2	ST4195600000	895	1

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Connecting Busbar link			
2 MPCB 45 mm width w/o acc	ST4195700000	505	5
3 MPCB 45 mm width w/o acc	ST4195800000	555	5
4 MPCB 45 mm width w/o acc	ST4195900000	600	5
5 MPCB 45 mm width w/o acc	ST4196000000	650	5
2 MPCB 45 mm width with one acc 9 mm	ST4196100000	590	5
3 MPCB 45 mm width with one acc 9 mm	ST4196200000	640	5
4 MPCB 45 mm width with one acc 9 mm	ST4196300000	685	5
5 MPCB 45 mm width with one acc 9 mm	ST4196400000	735	5
2 MPCB 55 mm width w/o acc	ST4196600000	920	1
3 MPCB 55 mm width w/o acc	ST4196700000	1050	1
4 MPCB 55 mm width w/o acc	ST4196800000	1260	1
2 MPCB 55 mm width with one acc 9 mm	ST4196900000	1005	1
3 MPCB 55 mm width with one acc 9 mm	ST4197000000	1135	1
4 MPCB 55 mm width with one acc 9 mm	ST4197100000	1345	1
2 MPCB 55 mm width with two acc 18 mm	ST4197200000	1175	1
4 MPCB 55 mm width with two acc 18 mm	ST4197300000	1305	1
Feed in terminal for 45 mm width Busbar	ST4196500000	590	1
Feed in terminal for 55 mm width Busbar	ST4197400000	1020	1
Bus bar safety cover 45 mm width Busbar	ST4197500000	255	10
Bus bar safety cover 55 mm width Busbar	ST4197600000	275	10

acc: Accessories

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

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Direct-on-Line Starters

in Sheet-Steel Enclosure Type MF, MK, MU & MB
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)



MK1



MK2



MU 1H



MU 3

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
7.5	5.5	9 - 15	MF1	SS97210	1190	1
7.5	5.5	9 - 14	MK1 DOL	SS96210	1950	1
7.5	5.5	11 - 18	MK1 DOL	SS96211	2000	1
7.5	5.5	13 - 22	MK1 DOL	SS96228	2050	1
New 7.5	5.5	20 - 32	MK2 DOL	CS90947	2220	1
10.0	7.5	15 - 25	MU1 DOL #	SS95647	3350	1
10.0	7.5	14 - 23	MB1 DOL #	SS95649	3510	1
12.5	9.3	20 - 32	MU1H DOL #	CS90622	3660	1
15.0	11.0	24 - 38	MU2 DOL #	SS95648	4450	1
15.0	11.0	20 - 33	MB2 DOL #	SS95650	4715	1
17.5	13	28 - 42	MU3 DOL #	CS90613	4850	1

For lower relay ranges, please refer Rural Electrical Products' price list.

Single Phase Starters



MF1 1-Ph



MU-2P DOL

Max. Motor Output at 230V, 1-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
2.0	1.5	10.5 - 17.5	MF1	SS97227O0BO	890	1
3.0	2.2	12 - 20	MF1	SS97227OOCO	890	1
2	1.5	9 - 14	MU-2P	CS90319K0AO	1430	1
2	1.5	11 - 18	MU-2P	CS90319KOCO	1470	1
3	2.2	13 - 22	MU-2P	CS90319KODO	1515	1

Semi-Automatic Star-Delta Starters

in Sheet-Steel Enclosure Type MK, MU & MB
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)



MK 1S



MU 1S



MB 2S

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
12.5	9.3	9 - 14	MK1 SASD	SS96255	6295	1
15.0	11.0	11 - 18	MK1 SASD	SS96258	6345	1
15.0	11.0	13 - 22	MK1 SASD	SS96260	6425	1
15.0	11.0	13 - 21	MU1 SASD #	SS95891	8310	1
15.0	11.0	14 - 23	MB1 SASD #	SS95895	9780	1
30.0	22.5	20 - 32	MU2 SASD #	SS95893	10400	1
30.0	22.5	20 - 33	MB2 SASD #	SS95897	11530	1

For lower relay ranges, please refer Rural Electrical Products' price list.

Direct-on-Line Starters

in Sheet-Steel Enclosure Type MN with Single Phase Protection feature (Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)



MN 16



MN 45

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	3150	1
15.0	11.0	14 - 23	MN 25 DOL	SS94352	4820	1
20.0	15.0	20 - 33	MN 32 DOL	SS94353	7775	1
30.0	22.5	30 - 50	MN 45 DOL	SS94017	13300	1
45.0	33.5	45 - 75	MN 65 DOL	SS94018	18210	1

Direct-on-Line Starters

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



ML 1.5



ML 2



ML 3

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
15.0	11.0	20 - 32	ML 1.5 DOL	SS91854	5710	1
20.0	15.0	20 - 32	ML 2 DOL	SS90702	9515	1
30.0	22.5	28 - 42	ML 3 DOL	SS90722	16345	1

Semi-Automatic Star-Delta Starters

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



ML 1.5S



ML 2S

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
25.0	18.5	13 - 21	ML1.5 SASD	SS91856	13145	1
35.0	26.0	20 - 32	ML2 SASD	SS90707	22980	1

Note:

- 1) # Type MU range consists of type MU Relay + MU contactors
Type MB range consists of type MN Relay + MU contactors
- 2) For Ordering Suffix please refer page No. 21

Fully Automatic Star-Delta Starters [8536]



MN 16F

in Sheet-Steel Enclosure Type MN
with Single Phase Protection feature
(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	10615	1
30.0	22.5	14 - 23	MN 25 FASD	SS94364	11870	1
40.0	30.0	20 - 33	MN 32 FASD	SS94366	19530	1
50.0	37.5	30 - 50	MN 45 FASD	SS94021	31360	1
75.0	55.0	45 - 75	MN 65 FASD	SS94022	51970	1
90.0	67.5	45 - 75	MN 80 FASD	SS94705	56810	1
150.0	110.0	66 - 110	MN 110 FASD	SS94706	74355	1
180.0	132.0	90 - 150	MN 140 FASD	SS94707	77835	1

Fully-Automatic Star-Delta Starters [8536]

in Sheet-Steel Enclosure
Type MK, ML, MU & MB
(Motor Rating AC-3 Duty, 415V, 50Hz, 3Ph)



MK 1F



MB 1F



MU 2F

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
12.5	9.3	9 - 14	MK1 FASD	SS96254	7020	1
15.0	11.0	11 - 18	MK1 FASD	SS96257	7070	1
15.0	11.0	13 - 22	MK1 FASD	SS96259	7115	1
15.0	11.0	13 - 21	MU1 FASD #	SS95890	9665	1
15.0	11.0	14 - 23	MB1 FASD #	SS95894	10330	1
30.0	22.5	20 - 32	MU2 FASD #	SS95892	11420	1
30.0	22.5	20 - 33	MB2 FASD #	SS95896	12635	1

For lower relay ranges, please refer Rural Electrical Products' price list.



ML 2F



ML 1.5F

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
25.0	18.5	13 - 21	ML1.5 FASD*	SS91855	14920	1
35.0	26.0	20 - 32	ML2 FASD	SS90705	23695	1
50.0	37.5	28 - 42	ML3 FASD	SS90730	39400	1
75.0	55.0	45 - 75	ML4 FASD	SS90913	67520	1
125.0	90.0	66 - 110	ML6 FASD	SS90923	110705	1

Note: 1) # Type MU range consists of type MU Relay + MU contactors
Type MB range consists of type MN Relay + MU contactors
2) For Ordering Suffix please refer page No. 21

Spares for MK1 & MK2 Starters [8538]



Aux contact block



Spare coil



Combination coil



Push button unit

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Single Moving Contact for MK1	SS91009	40	10
Single Moving Contact for MK2	CS90951	50	10
Std. Operating Coils for MK1 & MK2			
400 / 440V, 50Hz	SS90047	155	10
360V, 50Hz	SS90165	155	10
230V, 50Hz	SS90045	155	10
220V, 50Hz	SS90044	155	10
110V, 50Hz	SS90043	155	10
Auxiliary contact block: 1 NO + 1 NC	SS90120	205	50
Spare kit with hardware for MK1	CS90983	395	50
Spare kit with hardware for MK2	CS90956	525	50
Thermal timer without combination coil	SS90224	570	1
Combination Coils for MK1			
Combination coils for 400 / 440V, 50Hz	SS90443	375	10
Combination coils for 230V, 50Hz	SS90444	375	10
Combination coils for 380V, 50Hz	SS90445	375	10
Combination coils for 360V, 50Hz	SS90446	375	10
Push Button Unit for MK1 & MK2	SS90004	90	1
Arc Shield for MK1	SS50004	95	1
Arc Shield for MK2	CS91013	100	1
Contact bridge without Contacts for MK1	SS50005	90	1
Contact bridge without Contacts for MK2	CS91014	95	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	100	20
MN DOL/FASD Push Button	SS939410000	165	10

Electronic Timers Type ST 100 [9107]



ST 100

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
240 / 360 / 415V, 50Hz for			
3 - 30 secs.	ST803280000	1375	1
12 - 120 secs.	ST803290000	1375	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.

Submersible Pump Controllers

Submersible Pump Controller [8536]

In Sheet Enclosure Type MU - G

(Motor Rating AC-3 Duty, 415V, 50Hz, 3 phase)



MU - G6



MU - G10

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
6	4.5	9 - 14	MU - G6 DOL Starter\$	SS97756	5800	1
10	7.5	13 - 21	MU - G10 DOL Starter\$	SS95983	6825	1
10	7.5	28 - 42	MU - G10H DOL Starter\$	SS95974	7915	1

\$ For lower relay ranges, please refer Rural Electrical Products' price list.

Submersible Pump Controller [8536]

In Sheet Enclosure Type MU-G

(Motor Rating AC-3 Duty, 415V, 50 Hz, 3 phase)



MU-G15



MU-G20



MU-G50



MU-G75

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
15	11	13 - 22	MU-G15 Fully Automatic Star - Delta Starter\$	CS94091	11095	1
20	15	13 - 21	MU-G20 Fully Automatic Star - Delta Starter\$	SS95984	12985	1
20	15	28 - 42	MU-G20H Fully Automatic Star - Delta Starter\$	SS95975	15890	1
30	22.5	30 - 50	MU-G30 Fully Automatic Star - Delta Starter\$	CS96008	26480	1
40	30	36 - 60	MU-G40 Fully Automatic Star - Delta Starter\$	CS90908	30845	1
50	37.5	45 - 75	MU-G50 Fully Automatic Star - Delta Starter\$	CS96009	42305	1
75	56	66 - 110	MU-G75 Fully Automatic Star - Delta Starter\$	CS96451	57865	1

\$ For lower relay ranges, please refer Rural Electrical Products' price list.

Submersible Pump Controller [8536]

In Sheet Steel Enclosure Type MR-G, MF-G

With MU-2P Contactor & MU-2P Relay



MR-G2



MR-G3



MF-G1

Max. Motor Output at 230V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
0.5	0.37	6 - 10	Type MR-G2\$ For Single Phase Motors (Only Ammeter Version)	SS96988	3255	1
1.0	0.75	9 - 14		SS96560	3550	1
1.5	1.1	11 - 18		SS96989	3870	1
2.0	1.5	13 - 22		SS96990	4045	1
3.0	2.2	16 - 26	Type MR-G3\$	CS96461	4435	1
5.0	3.7	20 - 32		CS96167	6260	1
0.5	0.37	6.5 - 11	Type MF-G1\$ For Single Phase Motors (Only Ammeter Version)	SS97734	2180	1
1.0	0.75	12 - 20		SS97736	2280	1
1.5	1.1	12 - 20		SS97737	2360	1
2.0	1.5	12 - 20		SS97738	2400	1

\$ For lower relay ranges & dual meter version, please refer Rural Electrical Products' price list.

M-POWER + Module for Mobile Starter [8538]



Description	IVRS Languages	Suitable Region	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
New M-POWER + Module for Mobile Starter - 1P/3P 3 Wire	English, Hindi, Marathi, Punjabi, Gujarati	North & West	GSM0301OONO	6150	1
	English, Hindi, Kannada, Telugu, Tamil	South	GSM0301OOSO	6150	1
	English, Hindi, Bengali, Odiya, Assamese	East	GSM0301OOEO	6150	1

Salient Features and Benefits of Submersible Pump Controller

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Protections Offered - Overload, Single Phasing, Phase reversal, Phase imbalance
- Auto Restart Feature
- Vibration proof enclosure with IP54 protection class
- Indications Offered - ON/OFF, Voltage and Ampere
- Compatible with M-POWER+

Ordering Suffix for MK1/MU/MB/ML & MN Starters

Coil Voltages	Relay Range (A)				
	MK1	MU	MB	ML	MN
B - 240 V	A : 9 - 14	A : 9 - 14	B : 9 - 15	A : 9 - 14	B : 9 - 15
C - 360 V	C : 11 - 18	C : 13 - 21	D : 14 - 23	B : 10 - 16	D : 14 - 23
D - 415 V	D : 13 - 22	D : 15 - 25	E : 20 - 33	C : 13 - 21	E : 20 - 33
P - 440 V	M : 1 - 1.6	E : 20 - 32		E : 20 - 32	G : 30 - 50
	P : 1.5 - 2.5	G : 24 - 38		F : 28 - 42	J : 45 - 75
	R : 2.5 - 4	F : 28 - 42		G : 30 - 50	K : 66 - 110
	T : 4 - 6.5			J : 45 - 75	Q : 2 - 3.3
	V : 6 - 10			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	

MCBs exclusively for Agricultural Pumps

- Range available from 6A to 125A - 3 Pole and 6A to 50A - 2 Pole
- Specially designed MCBs with K-Curve
 - Short circuit tripping band suitable for submersible pumps
 - Offers effective short circuit protection
- Rated Voltage: 240V / 415V AC
- Breaking Capacity :
 - 10kA as per IEC 60947-2 up to 63A
 - 15kA as per IEC 60947-2 for 100A-125A

Description	Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)*
2 Pole	6A	2	LK20060K	445	6
	10A	2	LK20100K	445	6
	16A	2	LK20160K	445	6
	20A	2	LK20200K	445	6
	25A	2	LK20250K	445	6
	32A	2	LK20320K	445	6
	50A	2	LK20500K	720	6

* Includes DIN channel & hardware for individual MCB up to 63A.



2 Pole 3 Pole

Description	Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)*
3 Pole	6A	3	LK30060K	725	4
	10A	3	LK30100K	725	4
	16A	3	LK30160K	725	4
	20A	3	LK30200K	725	4
	25A	3	LK30250K	725	4
	32A	3	LK30320K	725	4
	40A	3	LK30400K	1120	4
	50A	3	LK30500K	1120	4
	63A	3	LK30630K	1120	4
	100A	4.5	LK31000K	4640	1
	125A	4.5	LK31250K	5145	1

i-PROTECTOR [8536]

SPPR range with Dry Run Protection



i-AD i-ADS i-ADSM i-VDS i-VDSM

- Micro-controller based protection design
- Digital Ammeter and Voltmeter in select variants
- Auto/Manual/Bypass Mode available
- Suitable for all starters - upto 40A
- Protections available - Voltage Single Phasing, Current Single Phasing, Voltage unbalance fault from supply side, Current unbalance fault from motor side, Phase reversal fault, Under voltage fault, Over voltage fault
- Dry-run fault (Adjustable current setting and adjustable reset time)

Description	Rating	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
i-AD	Dry run protection relay (current based)	CS90861#	830	1
i-AD	Dry run protection relay (current based)	CS90861*	850	1
i-ADS	Single phasing preventer & dry run protection relay (current based)	CS90862*	1650	1
i-ADSM	Single phasing preventer & dry run protection relay + VI meter (current based)	CS90863*	2095	1
i-VDS	Single phasing preventer & dry run protection relay (voltage based)	CS90866*	1480	1
i-VDSM	Single phasing preventer & dry run protection relay + VI meter (voltage based)	CS90875*	2095	1

BOOO : 240V

* COOO : 360V, LOOO : 380V, DOOO : 415V

Water Level Controller (WLC) [9032]



WLC Probes

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Water Level Controller (240V) (Double Tank Draining & Filling Application)	XM81052O000	1140	1
Water Level Controller (415V) (Double Tank Draining & Filling Application)	XM81053O000	1140	1
Water Level Controller (110V) (Double Tank Draining & Filling Application)	XM81054O000	1140	1
Water Level Controller (240V) (Single Tank Filling Application)	XM81055O000	1085	1
Water Level Controller (415V) (Single Tank Filling Application)	XM81056O000	1085	1
Water Level Controller (110V) (Single Tank Filling Application)	XM81057O000	1085	1
WLC probes (set of 3 nos.)	XM81051O000	370	1
WLC probes (set of 6 nos.)	XM81076O000	745	1

Single Phase Preventer Relay [9032]



Sz5 SDz5

With Settable time
ON Delay
30sec - 5min

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
SPPR type Sz5 (7 Wire), 380V	ST92166O000	625	1
SPPR type Sz5 (6 Wire), 360V (For MU-G10/10H)	CS94824COOO	625	1
SPPR type Sz5 (6 Wire), 380V (For MU-G6)	CS94824LOOO	625	1
SPPR type Sz5 (6 Wire), 415V (For MU-G10/10H)	CS94824DOOO	625	1
SPPR type SDz5, 360V (For MU-G20/20H)	XM81808O000	1225	1
SPPR type SDz5, 380V (For MU-G30/40/50/75)	XM81807O000	1225	1
SPPR type SDz5, 415V (For MU-G15/20/20H)	XM81809O000	1225	1

Enclosed Automatic Transfer Switch

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



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



Flexibility

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



Safety

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

New

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Enclosed ATS, Frame 2, 125A	125A	CK90161BSOO	58000	1
Enclosed ATS, Frame 2, 160A	160A	CK90162BSOO	62810	1
Enclosed ATS, Frame 2, 200A	200A	CK90163BSOO	63750	1
Enclosed ATS, Frame 3, 250A	250A	CK90164BSOO	79880	1
Enclosed ATS, Frame 3, 315A	315A	CK90165BSOO	81550	1
Enclosed ATS, Frame 4, 400A	400A	CK90166BSOO	95400	1
Enclosed ATS, Frame 4, 630A	630A	CK90167BSOO	102930	1

Chapter ID [8537]

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



Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

On Load Changeover Switch - Disconnectors [8536]

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

Features offered by Manual Changeover

- Range 63A to 2000A, 415V, AC 23A, 4P
- Site convertible fuse version for open execution
- Site convertible dual shaft position
- SS enclosure version does not require separate cable gland box
- Staggered terminals



Open execution



SS enclosure



Motorised Changeover

Features offered by Motorised Changeover

- Range 125 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

Inbuilt 2 C/O Auxiliary Contact across the range

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	63	CO1-63	CO106300000	4500	CO106300S00	6400	-	-	1
	63	CO1-63	CO10630000D ▲	4210			-	-	1
	100	CO1-100	CO110000000	5930			-	-	1
	100	CO1-100	CO11000000D ▲	5480			-	-	1
	125	CO1-125	CO112500000	7400			-	-	1
Fr 2	125	CO2-125	CO212500000	8930	CO212500S00	12140	CK90161B000	28560	1
	160	CO2-160	CO216000000	9750	CO216000S00	13280	CK90162B000	32650	1
	200	CO2-200	CO22000000A	11610	CO220000S00	15360	CK90163B000	33970	1
Fr 3	250	CO3-250	CO325000000	17040	CO325000S00	21350	CK90164B000	42040	1
	315	CO3-315	CO331500000	17950	CO331500S00	22380	CK90165B000	42790	1
Fr 4	400	CO4-400	CO440000000	26200	CO440000S00	32620	CK90166B000	53890	1
	630	CO4-630	CO463000000	30860	CO463000S00	37810	CK90167B000	59040	1
Fr 5	630	CO5-630 ^α	CO563000000 ^α	32060	-	-	CK90168B000	62460	1
	800	CO5-800	CO580000000	45880	CO580000S00	55840	CK90169B000	88130	1
	1000	CO5-1000	CO510000000	78470	CO510000S00	99060	CK90170B000	114550	1
Fr 6	1250	CO6-1250	CO612500000	102730	-	-	CK90081B000	141520	1
	1600	CO6-1600	CO616000000	120250	-	-	CK90082B000	166170	1
	2000	CO6-2000	CO620000000	145030	-	-	CK90083B000	191490	1

▲ Direct handle version # Sheet Steel Enclosure version is with CO with extended handle

^α Fuse mounting kit CX563000ODO is suitable for mounting on CO5-630 Changeover Switch

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)	CX100020000	280	1
	CO2-(125-200A)	CX200020000	565	1
	CO3-(250-315A)	CX300020000	820	1
	CO4-(400-630A)	CX400020000	870	1
	CO5-(630-1000A)	CX500020000	990	1
	CO6-(1250-2000A)	CX600020000	1055	1
Operating Handle	CO1-(63-125A)	CX100010000	500	1
Operating Handle Kit (handle + shaft + center bush + bush clip)	CO2-(125-200A)	CX300010000	865	1
	CO3-(250-315A)	CK903920000	1145	1
	CO4-(400-630A)	CX400010000	1145	1
	CO5-(630-1000A)	CX500010000	1250	1
Operating Handle	CO6-(1250-2000A)	CX600010000	1360	1
Castell Type Lock ^{\$}	CO-(125-1000A)	CX400040000	1600	1
	CO6-(1250-2000A)	CX600040000	1600	1
Output shorting link	CO1-(63-125A) Top Side	CX10005000T	515	1
	CO1-(63-125A) Bottom Side	CX10005000B	515	1
Operating Handle for Motorised Changeover	C/O Frame 2 & 3 (125-315A)	CK903740000	845	1
	C/O Frame 4 & 5 (400-1000A)	CK903780000	1115	1
	C/O Frame 6 (1250-2000A)	CK906450000	1325	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	CK901920000	14155	1
	AuXC- 2000 Controller with wire harness	AuXC- 2000 ^β ATC200000000	20300	1
		CK900990000	2595	1
Control Accessories	Illuminated Push Button assembly with Wire harness	CK901950000	2325	1

^β Chapter ID [9032]

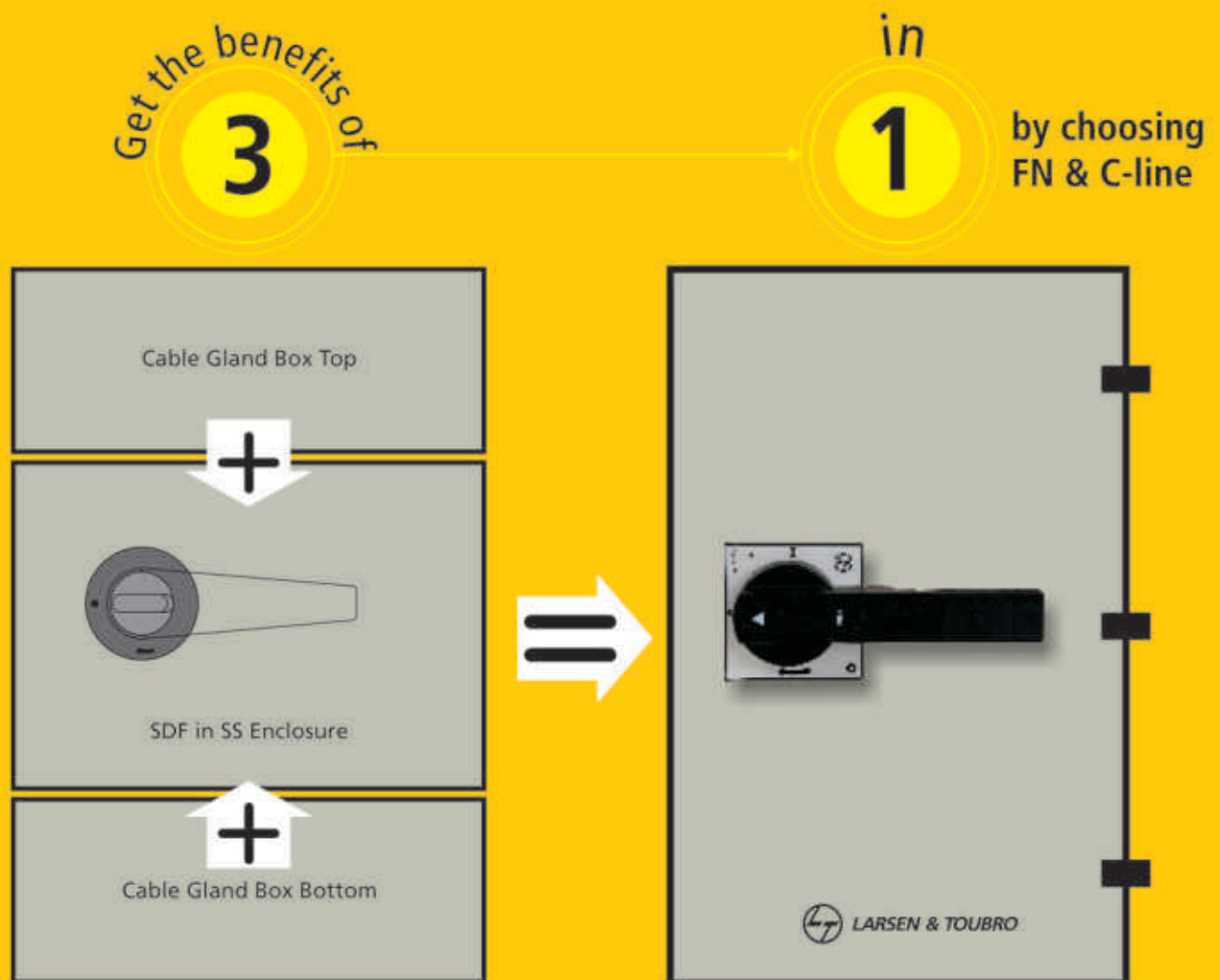
Fuse Mountable Kit [8538]



Description	Suitable fuse-link	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse Mountable Kit	HF 14x51	CO1-63	CX106300OCO	1225	1
	HN Size 000	CO2-125	CX212500ODO	2985	1
	HN Size 00	CO2-160	CX216000ODO	3960	1
	HN Size 1	CO3-250	CX325000ODO	5425	1
	HN Size 1	CO3-315	CX331500ODO	5675	1
	HN Size 2	CO4-400	CX440000ODO	8280	1
	HN Size 3	CO5-630	CX563000ODO	17885	1
	HN Size 3	CO5-800	CX580000ODO	19980	1

FN TPN SDF and C-line Manual Changeover in Sheet Steel Enclosure

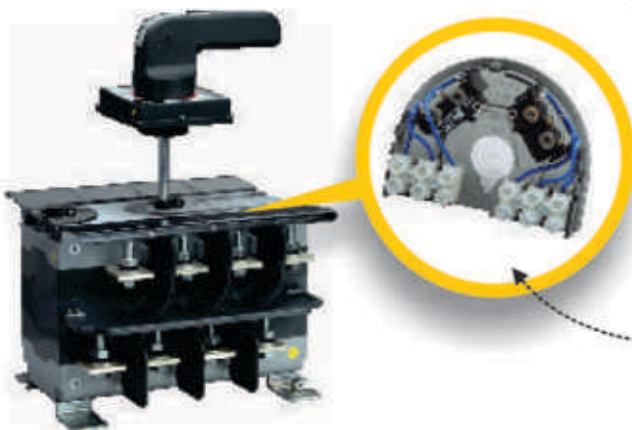
Separate cable gland boxes are not required for SDF and Changeover in spacious enclosures...



See. Assure. Act Inbuilt Aux. Contacts for CO Switch Status

Safeguard the continuity of power supply in your premises by knowing the actual position of the Changeover Switch

Open Execution Manual Changeover Switches have inbuilt 2 sets of auxiliary changeover contacts (One for each position) throughout the range, 63A to 2000A.





FN gets a Facelift!

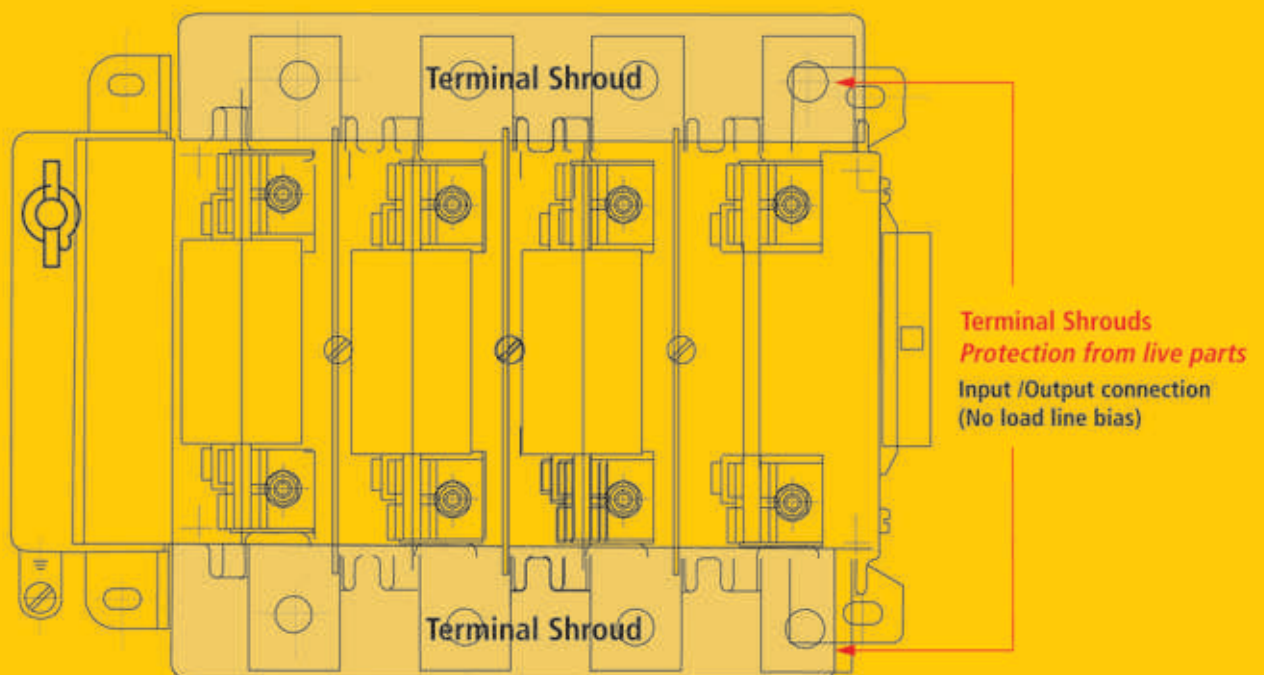
Telescopic Shafts :
Flexibility for fine
adjustment in depth

Slide

Adjustable telescopic shaft

Terminal Shroud

Why compromise with your safety, when it comes at no extra cost...



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

Features offered by FN S-D-F

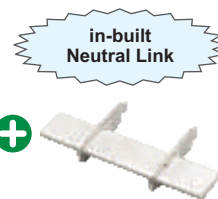
- Range 32A to 800A, 415V, AC 23A
- Suitable for Cylindrical / DIN fuse-link
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility
- **FN 4-Pole with in-built Neutral Link**
- **Terminal shrouds on both sides**



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



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



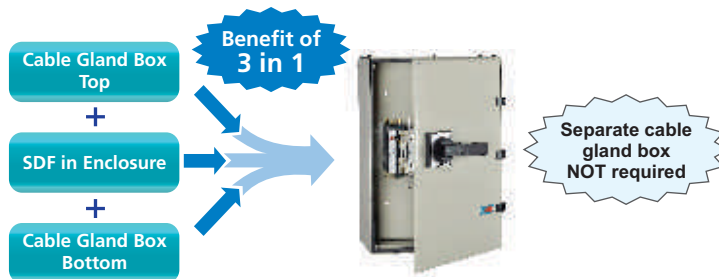
Size	Rated Current (A)	Suitable HRC fuse-link		Open Execution Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)	Open Execution Type FN S-D-F suitable for DIN fuse-link (4P)			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF	2 to 32	FN 32 TPN / FP	SK95518	1865	1	FN 32 TPN/FP	SK95518	1865	1
	32	HF	2 to 32	FN 32 TPN / FP CE*	SK95703*	1680	1	FN 32 TPN/FP CE*	SK95703	1680	1
	63	HF	2 to 63	FN 63 TPN / FP	SK95421	2580	1	FN 63 TPN/FP	SK95421	2580	1
	63	HF	2 to 63	FN 63 TPN / FP CE*	SK95704*	2330	1	FN 63 TPN/FP CE*	SK95704	2330	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	SK95568	5320	1	FN 100 FP	SK90496	6390	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	SK95001	6995	1	FN 125 FP	SK90497	8270	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	SK95713	7585	1	FN 160 FP	SK90498	9140	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	SK95418	9925	1	FN 200 FP	SK90471	10995	1
	250	HN Size 1	125 to 250	FN 250 TPN	SK95642	11780	1	FN 250 FP	SK90472	12730	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	SK95461	14565	1	FN 315 FP	SK90473	15570	1
	400	HN Size 2	200 to 400	FN 400 TPN	SK95481	17545	1	FN 400 FP	SK90480	18460	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	SK95521	28225	1	FN 630 FP	SK90481	29570	1
	800	HN Size 3	315 to 800	FN 800 TPN	SK95679	30630	1	FN 800 FP	SK90482	31995	1

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

FN- TPN S-D-F in SS Enclosure

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

- Range 32A to 800A, 415V, AC 23A
- Spacious Sheet Steel Enclosure
- **Separate cable gland box not required**
- Suitable for Cylindrical/DIN fuse-link
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Door Interlock and 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	2 to 32	FN 32 TPN / FP CE*	SK90483*	4335	1
	63	HF	2 to 63	FN 63 TPN / FP CE*	SK90484*	5075	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	SK90485	8660	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	SK90486	10260	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	SK90487	10985	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	SK90488	14595	1
	250	HN Size 1	125 to 250	FN 250 TPN	SK90489	16820	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	SK90490	19945	1
	400	HN Size 2	200 to 400	FN 400 TPN	SK90491	23270	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	SK90492	37300	1
	800	HN Size 3	315 to 800	FN 800 TPN	SK90493	40025	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. SK904890000 & SK956810000), order Cat. No. ST978950000
- 6) Please refer Pg. 31 for Switch-Disconnectors

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
- Suitable for Cylindrical / DIN fuse-link
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility
- **Terminal shrouds on both sides**

Also for 220Vdc & 240Vac application



FN 2P S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (2P) S-D-F suitable for DIN fuse-link			Std. Pkg (Nos.)
			Open Execution			
			Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF 14x51	FN 32 2P	SK95594	1515	1
	63	HF 14x51	FN 63 2P	SK95595	2090	1
Fr 2	100	HN Size 000/00	FN 100 2P	ST35086	4245	1
	125	HN Size 000/00	FN 125 2P	ST35087	5410	1
	160	HN Size 000/00	FN 160 2P	ST35088	5790	1
Fr 3	200	HN Size 0	FN 200 2P	ST35089	7250	1
	250	HN Size 1	FN 250 2P	ST31674	8715	1
Fr 4	315	HN Size 1	FN 315 2P	ST38930	11385	1
	400	HN Size 2	FN 400 2P	ST31676	13590	1
Fr 5	630	HN Size 3	FN 630 2P	ST35090	21930	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
- Suitable for Bolted fuse-link
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility
- **Terminal shrouds on both sides**



FN - TPN S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (TPN) S-D-F suitable for BOLTED fuse-link			Std. Pkg (Nos.)
			Open Execution			
			Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	A1L	FN 32 TPN	SK95653	1740	1
	63	A1L	FN 63 TPN	SK95651	2480	1
Fr 2	100	A4	FN 100 TPN	SK95570	4950	1
	125	A4	FN 125 TPN	SK95009	6500	1
	160	A4	FN 160 TPN	SK95714	7070	1
Fr 3	200	B1 / B2	FN 200 TPN	SK95588	8890	1
	250	B2 / B3	FN 250 TPN	SK95682	11160	1
Fr 4	315	B3	FN 315 TPN	SK95590	13810	1
	400	B4	FN 400 TPN	SK95591	16230	1
Fr 5	630	C2	FN 630 TPN	SK95592	26680	1

Type FNX S-D-F suitable for DIN fuse-link in open execution

Features offered by FNX S-D-F

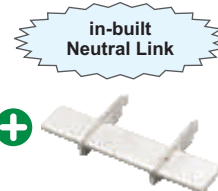
- Range 32A to 800A, 415V, AC 23A
- TPN and 4P version
- Suitable for Cylindrical / DIN fuse-link
- Telescopic shaft for depth adjustment
- DIN rail mounting up to 100A
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Door interlock & padlock facility
- **FNX 4-Pole with in-built Neutral Link**



FNX TPN S-D-F



FNX 4P S-D-F



Size	Rated Current (A)	Suitable fuse-link type	Range (A)	Open Execution Type FNX (TPN) S-D-F suitable for DIN fuse-link				Open Execution Type FNX (4P) S-D-F suitable for DIN fuse-link				Std. Pkg. (Nos.)
				Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	
Fr 1	32	HF	2 to 32	FNX 32 TPN / FP	SK96903	*	1	FNX 32 TPN / FP	SK96903	*	1	1
	63	HF	2 to 63	FNX 63 TPN / FP	SK96904	*	1	FNX 63 TPN / FP	SK96904	*	1	1
Fr 2	100	HN Size 000	63 to 100	FNX 100 TPN / FP	SK96906	*	1	FNX 100 TPN / FP	SK96906	*	1	1
Fr 3	125	HN Size 000/00	63 to 125	FNX 125 TPN	SK95806	*	1	FNX 125 FP	SK95814	*	1	1
	160	HN Size 000/00	63 to 160	FNX 160 TPN	SK95807	*	1	FNX 160 FP	SK95815	*	1	1
Fr 4	200	HN Size 0	80 to 200	FNX 200 TPN	SK95808	*	1	FNX 200 FP	SK95816	*	1	1
	250	HN Size 1	125 to 250	FNX 250 TPN	SK95809	*	1	FNX 250 FP	SK95817	*	1	1
Fr 5	315	HN Size 1	125 to 315	FNX 315 TPN	SK95810	*	1	FNX 315 FP	SK95818	*	1	1
	400	HN Size 2	200 to 400	FNX 400 TPN	SK95811	*	1	FNX 400 FP	SK95819	*	1	1
Fr 6	630	HN Size 3	315 to 630	FNX 630 TPN	SK95812	*	1	FNX 630 FP	SK95820	*	1	1
	800	HN Size 3	315 to 800	FNX 800 TPN	SK95813	*	1	FNX 800 FP	SK95821	*	1	1

* Available on request

Notes : 1) For 690V AC application, please contact nearest branch office.
2) The prices for S-D-F range are without HRC fuses

Features offered by HRC fuse link

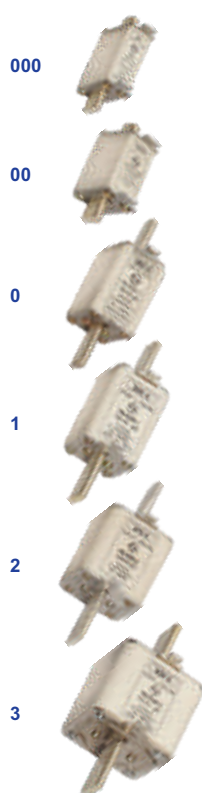
- Conforms to IEC 60269-2, IS 13703 part 2
- Range: 2A to 800A, 415V, AC 50Hz
- Type: Cylindrical (2A to 63A), DIN (63A to 800A) & Bolted (2A to 630A)
- High breaking capacity: 100kA for type HN and 80kA for type HF/HG/HQ

Cylindrical fuse links Type HF



Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
14 X 51	2	Suitable for Type FN 32 / 63 / FNX 32 / 63 S-D-F & for HCO 32 Fuse base	SF90144	100	30
	4		SF90145	100	30
	6		SF90146	100	30
	8		SF90147	100	30
	10		SF90148	100	30
	16		SF90150	100	30
	20		SF90151	100	30
	25		SF90152	100	30
	32		SF90142	100	30
	40		SF90143	110	30
	50	Suitable for Type FN 63 / FNX 63 S-D-F & for HC 63 Fuse base	SF90158	236	30
	63		SF90159	296	30

DIN Type Fuse Links Type HN



Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
000	63	Suitable for Type FN 100/125/160 / FNX 100/125/160 S-D-F & for HB 160 Fuse base	SF94940	310	3
	80		SF94941	330	3
	100		SF94942	330	3
	125		SF94946	390	3
00	63	Suitable for Type FN 100/125/160 / FNX 125/160 S-D-F & for HB 160 Fuse base	SF94027	420	3
	80		SF94028	420	3
	100		SF94029	420	3
	125		SF94030	435	3
	160		SF94939	435	3
0	80	Suitable for Type FN 200 / FNX 200 S-D-F & for HB 250 Fuse base	SF94128	560	3
	100		SF94129	560	3
	125		SF94130	560	3
	160		SF94131	570	3
	200		SF94132	570	3
1	125	Suitable for Type FN 250/315 / FNX 250/315 S-D-F & for HB 250 Fuse base	SF94230	590	3
	160		SF94231	620	3
	200		SF94232	625	3
	250		SF94233	685	3
	315		SF94234	810	3
2	200	Suitable for Type FN 400 / FNX 400 S-D-F & for HB 800 Fuse base	SF94332	850	3
	250		SF94333	885	3
	315		SF94334	890	3
	400		SF94335	895	3
	315	Suitable for Type FN 630/800 / FNX 630/800 S-D-F & for HB 800 Fuse base	SF94434	1260	1
3	400		SF94435	1260	1
	500		SF94436	1420	1
	630		SF94437	1445	1
	800		SF94938	1760	1

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



Rated Current (A)	Type	Description	Suitable fuse-link		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
			Type	Range (A)			
32	HCO 32	Fuse holder	HF	2-32	SK91314	190	10
63	HC 63	Fuse holder	HF	2-63	SK91043	210	10
160	HB 160	Fuse base	HN-Size 000 & 00	63-160	SK90405	330	12
250	HB 250	Fuse base	HN-Size 0 & 1	80-250	SK90406	695	3
800	HB 800	Fuse base	HN-Size 2 & 3	200-800	SK91051	1325	3

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	46	24
			4		ST30726	46	24
			6		ST30727	46	24
			10		ST30728	46	24
			16		ST30729	46	24
			20		ST30730	54	24
			25		ST30731	54	24
			32		ST30732	54	24
HQ	Offset	A1L	20	Suitable for type FN 32/63 S-D-F	ST34527	86	15
			25		ST34528	86	15
			32		ST34529	88	15
			50		ST35827	92	15
			63		ST35828	92	15
		A2	4	Suitable for type HK 32H/32B fuse base	ST30747	74	12
			6		ST30748	74	12
			10		ST30749	76	12
			16		ST30750	76	12
			20		ST30751	76	12
			25		ST30752	76	12
			32		ST30753	76	12
		A3	35	Suitable for type HK 63B/63H Fuse base	ST30759	110	12
			50		ST30760	110	12
			63		ST30761	110	12
		A4	80	Suitable for type FN 100/125/160 S-D-F & for HK 125H/125B Fuse base	ST30767	205	12
			100		ST30768	210	12
			125		ST30769	250	12
			160		ST35829	270	12
			200		ST30774	235	12
	Centre Tag, 2 holes	B1	80	Suitable for type FN 200 S-D-F	ST30774	235	12
			100		ST30775	235	12
			125		ST30776	295	12
		B2	125		ST30777	325	3
			160		ST30778	340	3
			200		ST30779	345	3
		B3	250	Suitable for type FN 250/315 S-D-F	ST30781	490	3
			315		ST30782	505	3
		B4	355	Suitable for type FN 400 S-D-F	ST30783	765	3
			400		ST30784	795	3
	Centre Tag, 4 holes	C2	400	Suitable for type FN 630 S-D-F	ST30785	1445	1
			500		ST30786	1525	1
			630		ST30787	1705	1

Fuse holders suitable for Bolted fuse-links



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	120	12
	HD 20P	Both side busbar (Back)	F1	2-20	ST30773	165	12
	HD 20B	Top busbar & bottom cable	F1	2-20	ST30766	140	12
32	HD 32H	Both side cable (Front)	F1	2-32	ST30733	130	12
	HD 32P	Both side busbar (Back)	F1	2-32	ST30734	180	12
	HD 32B	Top busbar & bottom cable	F1	2-32	ST30735	160	12
	HK 32H	Both side cable (Front)	A2	4-32	ST30754	225	12
	HK 32B	Top busbar & bottom cable	A2	4-32	ST30755	260	12
	HK 63H	Both side cable (Front)	A3	35-63	ST30762	295	6
63	HK 63B	Top busbar & bottom cable	A3	35-63	ST30763	365	6
	HK 125H	Both side cable (Front)	A4	80-125	ST30770	875	3
125	HK 125B	Top busbar & bottom cable	A4	80-125	ST30771	1045	3

Switch-Disconnecter Units [8536]

Type FN & C-Line Switch Disconnecter (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
- Terminal shrouds on both sides

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	SK904180000	1360	1	FN 32 TPN / 4P	SK955410000	1925	1
	63	FN 63 2P	SK904190000	1850	1	FN 63 TPN / 4P	SK955400000	2695	1
Fr 2	100	FN 100 2P	SK904200000	3775	1	FN 100 TPN	SK955710000	4805	1
	125	FN 125 2P	SK904210000	4815	1	FN 125 TPN	SK954050000	5980	1
Fr 3	200	FN 200 2P	SK904500000	6460	1	FN 200 TPN	SK956070000	8165	1
	250	FN 250 2P	SK904540000	7760	1	FN 250 TPN	SK956830000	10390	1
Fr 4	315	FN 315 2P	SK904650000	9860	1	FN 315 TPN	SK956090000	11545	1
	400	FN 400 2P	SK904660000	11775	1	FN 400 TPN	SK956100000	15320	1
Fr 5	630	FN 630 2P	SK904670000	18990	1	FN 630 TPN	SK956110000	22350	1
	800	FN 800 2P	SK904680000	19915	1	FN 800 TPN	SK955510000	25020	1
	1000	FN 1000 2P	SK904690000	25585	1	FN 1000 TPN	SK957100000	32960	1
Fr 6	1000	-	-	-	-	C-Line SD 1000 4P	COS10000040	38260	1
	1250	-	-	-	-	C-Line SD 1250 4P	COS12500040	42910	1
	1600	-	-	-	-	C-Line SD 1600 4P	COS16000040	59590	1
	2000	-	-	-	-	C-Line SD 2000 4P	COS20000040	74010	1

Spares & Accessories for type FNX [8538]



Castell Type Lock



DIN Rail Assembly



Auxiliary Contact Kit



Handle Assembly

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1NO + 1 NC)	FNX 32 / 63	SK91537	*	1
	FNX 100	SK91538	*	1
	FNX 125 / 160	SK91539	*	1
	FNX 200 / 250	SK91540	*	1
	FNX 315 / 400 / 630 / 800	SK91541	*	1
Handle Assembly	FNX 32 / 63 / 100	SK91524	*	1
	FNX 125 / 160 / 200 / 250	SK91525	*	1
	FNX 315 / 400 / 630 / 800	SK91526	*	1
Castell Type Lock\$	FNX 32 / 63 / 100	SK91530	*	1
	FNX 125 / 160 / 200 / 250	SK91531	*	1
	FNX 315 / 400 / 630 / 800	SK91531	*	1
DIN Rail Assembly	FNX 32 / 63 / 100	SK91617	*	1

* Available on request

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	125	1
Insulated fuse pulling handle for Type HN fuse-link from 63A-800A	SF90126	465	1

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

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1 sets of C/O contact)	CXS6002	600	1
Operating Handle	CXS6001	1360	1
Castell Type Lock\$	CX60004	1600	1

\$ Chapter ID [8301]

Also suitable for Switch-Disconnecter FN 1000

Spares & Accessories for type FN [8538]



Terminal Shroud Kit



Handle Assembly



Earthing Link



Auxiliary Contact Kit



Castell Type Lock

	Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
New New	Auxiliary Contact Kit (1NO + 1 NC)	FN 32 / 63	SK91302	415	1
		FN 100 / 125 / 160	SK91328	480	1
		FN 200 / 250	SK91329	580	1
		FN 315 / 400 / 630 / 800	SK91330 [#]	640	1
	2 nd Aux. Contact (1NO + 1NC)	FN 32 / 63	SK90670	415	1
		FN 100 to FN 1000	SK90696	480	1
	Earthing Link	FN 32 to FN 1000 [@]	CK90396	250	1
	Terminal Shroud Kit	FN 32 / 63	SK91190	110	1
		FN 100 / 125 / 160	SK91137	145	1
		FN 200 / 250	SK91335	255	1
FN 315 / 400		SK91346	265	1	
FN 630 / 800		SK91347 [#]	280	1	
Handle Assembly - A	FN 32 / 63	SK91257	290	1	
	FN 100 / 125 / 160	SK91258	630	1	
	FN 200 / 250	SK91258	630	1	
	FN 315 / 400 / 630 / 800	SK91259 [#]	700	1	
Handle Assembly - B	FN 32 / 63	SK91277	290	1	
	FN 100 / 125 / 160	SK91278	630	1	
	FN 200 / 250	SK91278	630	1	
	FN 315 / 400 / 630 / 800	SK91279 [#]	700	1	
Handle Assembly - CE	FN 32 / 63	SK91337	170	1	
Interphase Barrier Kit	FN 200	SK91343	210	1	
	FN 315 / 400	SK91344	220	1	
	FN 630 / 800	SK91345 [#]	230	1	
Castell Type Lock ^{\$}	FN 100 / 125 / 160 / 200 / 250	A	SK00333	1705	1
		B	SK00334	1705	1
		C	SK00335	1705	1
		D	SK00336	1705	1
	FN 315 / 400 / 630 / 800	A	SK00345 [#]	1705	1
		B	SK00346 [#]	1705	1
		C	SK00347 [#]	1705	1
		D	SK00348 [#]	1705	1

@ Earthing link is suitable for terminating earth busbar upto 25mm width.

Order qty 1 for 10 earthing links.

Switched Neutral Kit for FN TPN SDFs available only till stocks last

Communication
Total Selectivity
Advanced Protections
Energy Metering

Choose the superhero. Choose **d sine** MCCB

d sine MCCBs



Features

Range: 20A to 1250A
Breaking capacity: 25/36/50/70/100kA
Variants: 3P/4P

Our new advanced MTX3.0 release fosters Energy Management along with most advanced protections. It also enables communication of various parameters for this automation era.

d sine range can now make Total Selectivity possible for uninterrupted healthy power network.

d sine -DZ MCCBs



Features

Range: 16A to 160A
Breaking capacity: 36/50kA
Variants: 3P/4P

Our new **d sine** -DZ range offers wide range of adjustable overload and short circuit settings with wide range of internal and external accessories.

Why wait? Contact us today.

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

DU/DY MCCB Range [8536]

DU/DY With Thermal - Magnetic Release :

Rating (A)	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400
Icu (kA)															
10	DY125U										New				
18	DU100D								DU125D						
25											DU250C				
30	DU100H								DU125H						
36											DU250				
50											DU400N				



DY125U FTFM 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 : 5kA @ 250V DC (2P in series)	EM90982O0BO	1220	AC : 10kA @ 415V AC, 50 Hz/60 Hz DC : 5kA @ 250V DC (3P in series)	EM90983O0BO	1680	EM90984O0BO	2150	1
	20		EM90982O0CO	1220		EM90983O0CO	1680	EM90984O0CO	2150	1
	25		EM90982O0DO	1220		EM90983O0DO	1680	EM90984O0DO	2150	1
	32		EM90982O0EO	1220		EM90983O0EO	1680	EM90984O0EO	2150	1
	40		EM90982O0FO	1220		EM90983O0FO	1680	EM90984O0FO	2150	1
	50		EM90982O0GO	1220		EM90983O0GO	1680	EM90984O0GO	2150	1
	63		EM90982O0HO	1220		EM90983O0HO	1680	EM90984O0HO	2150	1
	80		EM90982O0JO ▲	1330		EM90983O0JO ▲	1840	EM90984O0JO ▲	2470	1
			EM90812O0JO	1220		EM90813O0JO	1680	EM90814O0JO	2150	1
	100		EM90982O0KO ▲	1330		EM90983O0KO ▲	1840	EM90984O0KO ▲	2470	1
			EM90812O0KO	1220		EM90813O0KO	1680	EM90814O0KO	2150	1
	125		EM90982O0LO ▲	1890		EM90983O0LO ▲	2680	EM90984O0LO ▲	3420	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	EM90966O000	510	1
Shunt Release			
Short Rated 110/240/415V AC	EM90520O000	585	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole (upto 100A)	CM97785O002	170	Set of 4
3 Pole (upto 100A)	CM97785O000	240	Set of 6
4 Pole (upto 100A)	CM97921O000	405	Set of 8
Rotary Handle			
Direct ROM	EM90969O000	765	1
Extended ROM	EM90970O000	1445	1
SS Enclosure			
Size I Enclosure for 3P & 4P	CM90996O000	1500	1

DU MCCB Range [8536]

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

Kindly refer page no. 45 for cost effective MCCB for motor starter application

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	3860	CM90518OOCO	4930	1
	20-25		CM90517OODO	3860	CM90518OODO	4930	1
	25-32		CM90517OOEO	3860	CM90518OOEO	4930	1
	32-40		CM90517OOF0	3860	CM90518OOF0	4930	1
	40-50		CM90517OOGO	3860	CM90518OOGO	4930	1
	50-63		CM90517OOHO	3860	CM90518OOHO	4930	1
	63-80		CM90517OOJO	3860	CM90518OOJO	4930	1
	80-100		CM90517OOKO	3860	CM90518OOKO	4930	1
DU125D	100-125		CM90676OOLO	4240	CM90677OOLO	5510	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

For DC application please refer catalogue

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	CM97898OOC2	3110	30	CM97894OOC2	4440	CM97933OOC2	5880	1
	20-25		CM97898OOD2	3110		CM97894OOD2	4440	CM97933OOD2	5880	1
	25-32		CM97898OOE2	3110		CM97894OOE2	4440	CM97933OOE2	5880	1
	32-40		CM97898OOF2	3110		CM97894OOF2	4440	CM97933OOF2	5880	1
	40-50	DC : 15kA @ 250V DC, (2P in Series) L/R < 15 msec.	CM97898OOG2	3110		CM97894OOG2	4440	CM97933OOG2	5880	1
	50-63		CM97898OOH2	3110		CM97894OOH2	4440	CM97933OOH2	5880	1
	63-80		CM97898OOJ2	3110		CM97894OOJ2	4440	CM97933OOJ2	5880	1
	80-100		CM97898OOK2	3110		CM97894OOK2	4440	CM97933OOK2	5880	1
DU125H	100-125		CM91198OOLO	4010		CM90678OOLO	4850	CM90679OOLO	6470	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

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM97886OOOO	710	1
2 C/O - Right	CM97887OOOO	1335	1
Trip Alarm Contact			
1 C/O - Right	CM97888OOOO	710	1
2 C/O - Right	CM97889OOOO	1335	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890OOOO	1250	1
Shunt Release			
24V DC - Left	CM91402O4OO	1240	1
110V AC - Left	CM97883OAOO	1240	1
240/415V AC - Left	CM97883OMOO	1240	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	1665	1



Spreader Terminals



Direct ROM



Extended ROM

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
DU100H - 2 Pole	CM97785OOO2	170	Set of 4
DU125H - 2 Pole	CM91199OOLO	220	Set of 4
DU100D/DU100H - 3 Pole	CM97785OOOO	240	Set of 6
DU125D/DU125H - 3 Pole	CM90687OOLO	340	Set of 6
DU100D/DU100H - 4 Pole	CM97921OOOO	405	Set of 8
DU125D/DU125H - 4 Pole	CM90688OOLO	475	Set of 8
Rotary Handle			
DU100D/DU125D/ Direct ROM	CM97895OOOO	895	1
DU100H/DU125H Extended ROM	CM97896OOOO	1290	1
DIN rail kit			
DU100D/DU125D/DU100H/DU125H	CM90944OOOO	70	1
SS Enclosure			
Size I Enclosure	CM90996OOOO	1500	1

Note: Phase Barriers are supplied along with all MCCBs

DU MCCB Range [8536]

2 Pole / 3 Pole / 4 Pole MCCBs

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

Kindly refer page no. 45 for cost effective MCCB for motor starter application

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	
DU250C	125-160	-	-	-	25	CM90631OOMO	6310	CM90634OOMO	8370	1
	160-200					CM90631OONO	7420	CM90634OONO	9440	1
	200-250					CM90631OPO	8440	CM90634OPO	11110	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	4730	36	CM98062O000	8110	CM98065OOMO	9860	1
	160-200		CM90905OONO	5460		CM98061O000	10500	CM98065OONO	13550	1
	200-250		CM90905OPO	6120		CM98060O000	12070	CM98065OPO	15530	1
DU400N	250-320		CM90886O0QO	10670	50	CM98402O0QO	15930	CM98404O0QO	19700	1
	320-400		CM90886OORO	10900		CM98402OORO	16020	CM98404OORO	20030	1

Note: 2 Pole in 3 Pole frame size * For DU250/DU250C

Accessories for DU250/DU250C MCCBs [8538]



Auxiliary Contact ATAC Shunt Release UV Release

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM97886O000	710	1
2 C/O - Right	CM97887O000	1335	1
Trip Alarm Contact			
1 C/O - Right	CM97888O000	710	1
2 C/O - Right	CM97889O000	1335	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890O000	1250	1
Shunt Release			
24V DC - Left	CM91402O400	1240	1
110V AC - Left	CM97883OAOO	1240	1
240/415V AC - Left	CM97883OMOO	1240	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	1665	1



Spreader Terminals Direct ROM Extended ROM

Description		External		
		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals				
DU250 - 2 Pole		CM90960O000	895	Set of 4
DU250C/DU250 - 3 Pole		ST98053O000	1190	Set of 6
DU250C/DU250 - 4 Pole		CM92007O000	1505	Set of 8
Rotary Handle				
DU250C/DU250	Direct ROM	CM98040O000	945	1
	Extended ROM	CM98041O000	1500	1
SS Enclosure				
Size II Enclosure		CM91003O000	3450	1

Note: Phase Barriers are supplied along with all MCCBs

Accessories for DU400N MCCBs [8538]



Auxiliary Contact TAC Shunt Release UV Release

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O	CM99801O000	820	1
2 C/O	CM99802O000	1545	1
Trip Alarm Contact			
1 C/O - Right	CM99803O000	835	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM99804O000	1550	1
Shunt Release			
110/240/415V AC, 110/220V DC	CM99805O000	2015@	1
24V DC	CM98976O400	2015@	1
Under Voltage Release			
240V AC - Left	CM99986BOOO	2535	1



Spreader Terminals Direct ROM Extended ROM

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole	CM90964O000	1405	Set of 4
3 Pole	ST98065O000	2155	Set of 6
4 Pole	ST98066O000	3090	Set of 8
Rotary Handle			
Direct ROM	CM99860O000	1500	1
Extended ROM	CM99861O000	2500	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

DTH With Thermal - Magnetic Release :

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Suitable for distribution & induction furnace application
- Rugged construction
- Adjustable thermal setting : 600 - 800A
- Adjustable magnetic setting : 2600 - 6400A



3 Pole (for Distribution Application)					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DTH800	600-800	50	SL944720000	43180	1

\$ Available till stocks last

3 Pole (for Induction Furnace Application)						
Type	Current Rating (A)	Instantaneous Setting (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DTH800 - Instantaneous	250	360	50	SB950520000	43180	1
	400	550	50	SB950530000	43180	1
	630	850	50	SB950540000	43180	1
	800	1050	50	SB950550000	43180	1

Accessories for DTH 800 MCCBs^{\$\$} [8538]



UV Release



Shunt Release



Auxiliary Contact

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
2 C/O	SL942170000	1630	1
Shunt Release			
415V AC, 220V DC - Right	SL985260000	2040	1
240V AC, 110V DC - Right	SL985340000	2040	1
Under Voltage Release			
415V AC - Left	SL985480000	2040	1
240V AC - Left	SL985450000	2040	1
110V AC - Left	SL985430000	2040	1

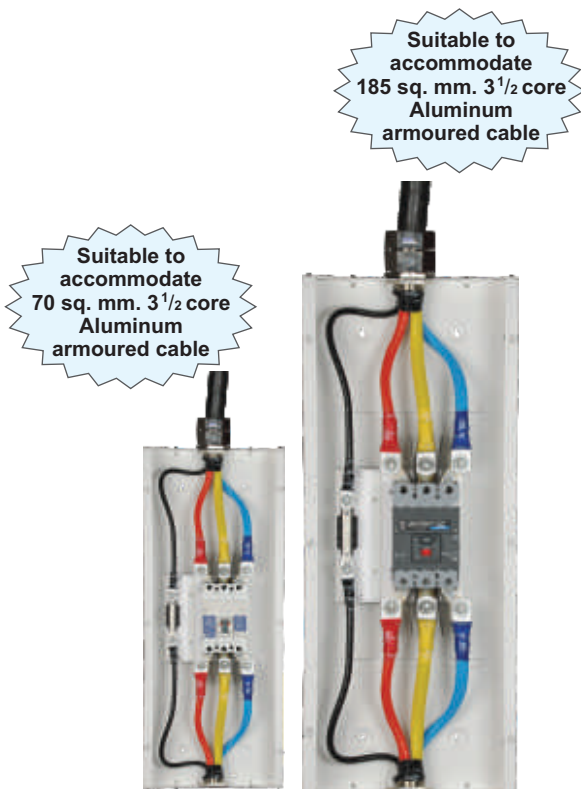
\$ Available till stocks last



Extended ROM

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Extension Link			
3 Pole	ST306580000	2930	Set of 6
Rotary Handle			
Extended ROM	CM998980000	2500	1

SS Enclosure for MCCBs [8538]



Size I & Size II Enclosures

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

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	1500	1
Size II Enclosure for DU250C/DU250/DN1	CM910030000	3450	1



Easy wall Mounting

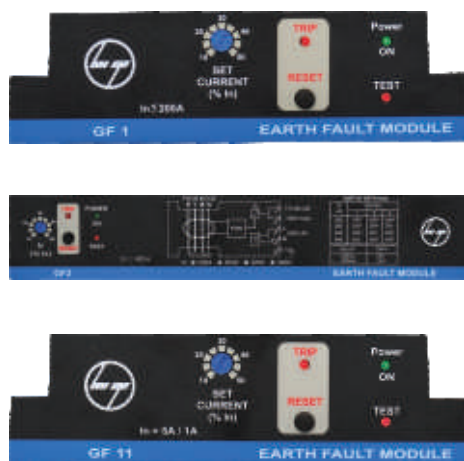


In-built Neutral Link



Better Heat Dissipation

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	6170	Built in CBCT	1
GF2	200 - 400A	ST277460000	8985	Built in CBCT	1
GF11	up to 800A	ST285940000	5670 #	External CT required	1

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

Rating (A)	16	20	25	32	40	50	63	100	125	160
Icu (kA)										
36	DZ1-160D New									
50	DZ1-160N New									

d sine **DZ1 with Thermal - Magnetic Release** **New**



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 16A to 160A, 3P & 4P
- Suitable for isolation
- Ics=100% of Icu
- Adjustable overload setting: 0.67 - 1.0 x In
- Adjustable short circuit setting: 6 - 12 x In*
- Wide range of internal and external accessories
- Transparent release cover

DZ1 Thermal Release

Type	Rated current (A) Max	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
DZ1-160D	16	36	DZ1T0016DXC1A	7730	DZ1F0016DXC1A	9620
	20		DZ1T0020DXC1A	7730	DZ1F0020DXC1A	9620
	25		DZ1T0025DXC1A	7730	DZ1F0025DXC1A	9620
	32		DZ1T0032DXC1A	7730	DZ1F0032DXC1A	9620
	40		DZ1T0040DXC1A	7730	DZ1F0040DXC1A	9620
	50		DZ1T0050DXC1A	7730	DZ1F0050DXC1A	9620
	63		DZ1T0063DXD1A	7730	DZ1F0063DXD1A	9620
	80		DZ1T0080DXD1A	7730	DZ1F0080DXD1A	9620
	100		DZ1T0100DXD1A	7730	DZ1F0100DXD1A	9620
	125		DZ1T0125DXD1A	8880	DZ1F0125DXD1A	10920
	160		DZ1T0160DXD1A	11810	DZ1F0160DXD1A	14030
DZ1-160N	16	50	DZ1T0016NXC1A	9920	DZ1F0016NXC1A	12310
	20		DZ1T0020NXC1A	9920	DZ1F0020NXC1A	12310
	25		DZ1T0025NXC1A	9920	DZ1F0025NXC1A	12310
	32		DZ1T0032NXC1A	9920	DZ1F0032NXC1A	12310
	40		DZ1T0040NXC1A	9920	DZ1F0040NXC1A	12310
	50		DZ1T0050NXC1A	9920	DZ1F0050NXC1A	12310
	63		DZ1T0063NXD1A	9920	DZ1F0063NXD1A	12310
	80		DZ1T0080NXD1A	9920	DZ1F0080NXD1A	12310
	100		DZ1T0100NXD1A	9920	DZ1F0100NXD1A	12310
	125		DZ1T0125NXD1A	12510	DZ1F0125NXD1A	15020
	160		DZ1T0160NXD1A	14510	DZ1F0160NXD1A	16850

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

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

d sine DZ1 with iTRP1 Release **New**



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 16A to 160A, 3P & 4P
- Ics=100% of Icu
- Wide range of adjustable overload setting from 0.25 - 1.0 x In
- Adjustable short circuit setting from 1.5 - 12 x Ir
OR Instantaneous setting from 1.5 - 12 x In
- Neutral Overload protection
- Compact size
- Suitable for isolation
- Provision of thermal memory ON/OFF
- Variable trip class
- Wide range of internal and external accessories
- Transparent release cover

DZ1 iTRP1 Release

Type	Rated current (A) Max	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
DZ1-160D	40	36	DZ1T0040DXF1A	13240	DZ1F0040DXF1A	16960
	63		DZ1T0063DXF1A	13240	DZ1F0063DXF1A	16960
	100		DZ1T0100DXF1A	13240	DZ1F0100DXF1A	16960
	160		DZ1T0160DXF1A	16910	DZ1F0160DXF1A	23500
DZ1-160N	40	50	DZ1T0040NXF1A	15780	DZ1F0040NXF1A	21670
	63		DZ1T0063NXF1A	15780	DZ1F0063NXF1A	21670
	100		DZ1T0100NXF1A	15780	DZ1F0100NXF1A	21670
	160		DZ1T0160NXF1A	20070	DZ1F0160NXF1A	26030

* For 25A with iTRP1 Release, please contact nearest branch office

Accessories for d sine DZ1 MCCBs [8538]



Aux/TAC



Shunt Release



Under Voltage (UV)



Spreader Terminals



Direct ROM



Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary/Trip Alarm Contact			
1C/O	EM90110O000	730	1
Shunt release			
240V AC\$	EM90032OBOO	1800	1
Under voltage release			
240V AC\$	EM90031BOOO	2100	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
3 Pole	EM90609O000	1190	Set of 6
4 Pole	EM90610O000	1340	Set of 8
Rotary Handles			
Direct ROM	EM90207O000	1010	1
Extended ROM	EM90209O000	1505	1

\$ For other voltages, please contact nearest branch office

* For Type-2 Chart with DZ1 MCCBs, please contact nearest branch office

* For Additional Accessories of DZ1 MCCBs, please contact nearest branch office

d sine With Thermal - Magnetic Release :

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



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 20A to 630A, 3P & 4P
- Choice of 25kA / 36kA / 50kA / 70kA breaking capacities
- Ics = 100% Icu*
- Suitable for Isolation
- Adjustable Over Load setting: 0.8 - 1.0 x In
- Adjustable Short Circuit setting: 6 - 10 x In**
- Manual, Rotary or Motorised versions available @
- Wide Range of snap fit Internal and External Accessories

Kindly refer page no. 45
for cost effective MCCB for
motor starter application

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	5800	CM97919OOC2OG	8050	1
	20-25		CM97893OOD2OG	5800	CM97919OOD2OG	8050	1
	25-32		CM97893OOE2OG	5800	CM97919OOE2OG	8050	1
	32-40		CM97893OOF2OG	5800	CM97919OOF2OG	8050	1
	40-50		CM97893OOG2OG	5800	CM97919OOG2OG	8050	1
	50-63		CM97893OOH2OG	5800	CM97919OOH2OG	8050	1
	63-80		CM97893OOJ2OG	5800	CM97919OOJ2OG	8050	1
	80-100		CM97893OOK2OG	5800	CM97919OOK2OG	8050	1
DN0-125D*	100-125		CM90680OOL0OG	6570	CM90681OOL0OG	8750	1
DN0-100C	16-20	25	CM91612OOCOOG	5990	CM91712OOCOOG	8290	1
	20-25		CM91612OODOOG	5990	CM91712OODOOG	8290	1
	25-32		CM91612OOEOOG	5990	CM91712OOEOOG	8290	1
	32-40		CM91612OOF0OG	5990	CM91712OOF0OG	8290	1
	40-50		CM91612OOGOOG	5990	CM91712OOGOOG	8290	1
	50-63		CM91612OOHOOG	5990	CM91712OOHOOG	8290	1
	63-80		CM91612OOJOOG	5990	CM91712OOJOOG	8290	1
	80-100		CM91612OOKOOG	5990	CM91712OOKOOG	8290	1
DN1-250C	100-125		CM90638OOLO	8660	CM90642OOLO	10490	1
	125-160		CM90638OOMO	11240	CM90642OOMO	13330	1
	160-200		CM90638OONO	14550	CM90642OONO	18490	1
	200-250		CM90638OPO	16930	CM90642OPO	21030	1

Note:

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

@ Motorised version available for DN2 and DN3 frames (please refer page No. 46)

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

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

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

dsine With Thermal - Magnetic Release :



For DC application
please refer catalogue

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	9770	CM92108OOL1OG	12010	1
	125-160		CM92008OOM1OG	12990	CM92108OOM1OG	15430	1
	160-200		CM92009OON1OG	17160	CM92109OON1OG	21320	1
	200-250		CM92009OOP1OG	18800	CM92109OOP1OG	22970	1
DN3B-400D	250-320		CM98401OOQOOG	21910	CM98403OOQOOG	26710	1
	320-400		CM98401OOROOG	21930	CM98403OOROOG	27150	1
DN3-400D	250-320		CM94005OOQ1OG	*	CM94105OOQ1OG	*	1
	320-400		CM94005OOR1OG	*	CM94105OOR1OG	*	1
DN3-630D	400-500		CM94006OOS1OG	26660	CM94106OOS1OG	33300	1
	500-630		CM94006OOT1OG	29310	CM94106OOT1OG	36180	1
DN2-250N	100-125	50	CM92005OOL1OG	13760	CM92105OOL1OG	16520	1
	125-160		CM92005OOM1OG	15960	CM92105OOM1OG	18540	1
	160-200		CM92006OON1OG	19200	CM92106OON1OG	24000	1
	200-250		CM92006OOP1OG	20770	CM92106OOP1OG	25490	1
DN3-400N	250-320		CM94003OOQ1OG	24550	CM94103OOQ1OG	30340	1
	320-400		CM94003OOR1OG	24630	CM94103OOR1OG	30760	1
DN3-630N	400-500		CM94004OOS1OG	28970	CM94104OOS1OG	36580	1
	500-630		CM94004OOT1OG	30610	CM94104OOT1OG	39000	1
DN2-250S	100-125	70	CM92002OOL1OG	20160	CM92102OOL1OG	22310	1
	125-160		CM92002OOM1OG	22480	CM92102OOM1OG	25430	1
	160-200		CM92003OON1OG	24570	CM92103OON1OG	30250	1
	200-250		CM92003OOP1OG	26260	CM92103OOP1OG	31910	1
DN3-400S	250-320		CM94001OOQ1OG	28910	CM94101OOQ1OG	33550	1
	320-400		CM94001OOR1OG	29190	CM94101OOR1OG	33660	1
DN3-630S	400-500		CM94002OOS1OG	37050	CM94102OOS1OG	45170	1
	500-630		CM94002OOT1OG	37690	CM94102OOT1OG	47040	1

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

* Price on request

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/DU MCCBs with TM release can be used for DC application (2P/3P/4P)
- dsine/DU MCCBs can be used for Capacitor back-up protection
- For Motor back-up protection, use 'M' series of MCCBs such as DN0-M, DN1-M, DN2-M, DN3-M
- For isolator applications, use SD version (without protection release)

Kindly refer page no. 45
for cost effective MCCB for
motor starter application

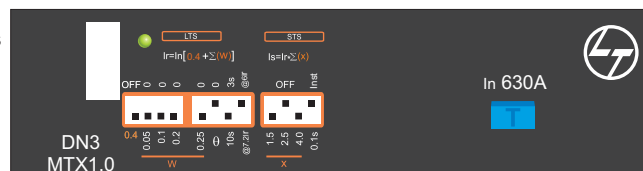
d sine With Microprocessor Release :

Rating (A) Icu (kA)	40	50	63	80	100	125	160	200	250	320	400	500	630	800	1000	1250	
36/50/70/100	DN2									DN3							
50/70/100														DN4			

d sine With Microprocessor Release MTX1.0 :



- 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
- Inbuilt Instantaneous Protection
- Provision of Thermal Memory : ON/OFF
- Variable trip class at 7.2 Ir & 6 Ir
- Front LED indication of Over Load (Ready, Over load pre-alarm & Overload)
- Manual, Rotary or Motorised versions available @
- 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	CM920630000X1	14560	CM921550000X1	18660	1
	25 - 63		CM920710000X1	14560	CM921540000X1	18660	1
	40 - 100		CM920510000X1	14560	CM921530000X1	18660	1
	63 - 160		CM920740000X1	18600	CM921520000X1	25850	1
	100 - 250		CM920540000X1	23330	CM921510000X1	30430	1
DN3-400D	160 - 400	50	CM930010000X1	27530	CM930030000X1	33990	1
DN3-630D	250 - 630		CM930050000X1	29630	CM930070000X1	40070	1
DN2-250N	16 - 40		CM920640000X1	17360	CM921600000X1	23840	1
	25 - 63		CM920720000X1	17360	CM921590000X1	23840	1
	40 - 100		CM920520000X1	17360	CM921580000X1	23840	1
	63 - 160		CM920750000X1	22080	CM921570000X1	28630	1
	100 - 250		CM920550000X1	26190	CM921560000X1	33850	1
DN3-400N	160 - 400	70	CM930020000X1	30250	CM930040000X1	38640	1
DN3-630N	250 - 630		CM930060000X1	32880	CM930080000X1	42920	1
DN4-1250N	320 - 800		CM960210000X1	48090	CM961110000X1	58040	1
	400 - 1000		CM960220000X1	74160	CM961120000X1	105230	1
	500 - 1250		CM960230000X1	90740	CM961130000X1	132910	1
DN2-250S	16 - 40	70	CM920650000X1	18860	CM921650000X1	24010	1
	25 - 63		CM920730000X1	18860	CM921640000X1	24010	1
	40 - 100		CM920590000X1	18860	CM921630000X1	24010	1
	63 - 160		CM920760000X1	25420	CM921620000X1	32450	1
	100 - 250		CM920560000X1	30520	CM921610000X1	36790	1
DN3-400S	160 - 400	70	CM940530000X1	36520	CM941530000X1	46130	1
DN3-630S	250 - 630		CM940790000X1	40660	CM941790000X1	53040	1
DN4-1250S	320 - 800		CM960250000X1	65660	CM961150000X1	81620	1
	400 - 1000		CM960260000X1	93360	CM961160000X1	133410	1
	500 - 1250		CM960270000X1	113130	CM961170000X1	156980	1

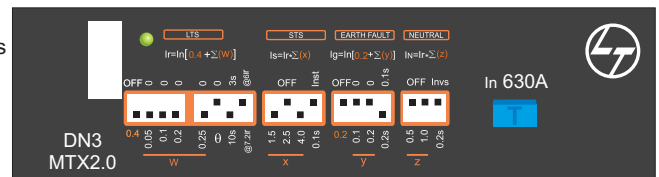
Note: dsine-V Version (Icu=Ics=100kA) MCCBs are available on request.

@ Motorised version available for DN2 and DN3 frames (please refer page No. 46)

d sine With Microprocessor Release MTX2.0 :



- 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
- Inbuilt Instantaneous Protection
- Inbuilt ground fault protection from 20% - 50% of In
- Adjustable neutral overload protection available : 50% to 150% of Ir
- Provision of Thermal Memory : ON/OFF
- Variable trip class at 7.2 Ir & 6 Ir
- Front LED indication of Over Load, short circuit & earth fault
- Panel mounted display available for Current metering & trip record
- Manual, Rotary or Motorised 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	CM920630000AG	23020	CM921550000AG	26730	1
	25 - 63		CM920710000AG	23020	CM921540000AG	26730	1
	40 - 100		CM920510000AG	23020	CM921530000AG	26730	1
	63 - 160		CM920740000AG	26360	CM921520000AG	32680	1
	100 - 250		CM920540000AG	31160	CM921510000AG	38350	1
DN3-400D	160 - 400	50	CM930010000AG	37420	CM930030000AG	43750	1
DN3-630D	250 - 630		CM930050000AG	40320	CM930070000AG	49890	1
DN2-250N	16 - 40		CM920640000AG	25240	CM921600000AG	30110	1
	25 - 63		CM920720000AG	25240	CM921590000AG	30110	1
	40 - 100		CM920520000AG	25240	CM921580000AG	30110	1
	63 - 160		CM920750000AG	29850	CM921570000AG	35570	1
	100 - 250		CM920550000AG	32960	CM921560000AG	39730	1
DN3-400N	160 - 400	70	CM930020000AG	38880	CM930040000AG	46380	1
DN3-630N	250 - 630		CM930060000AG	43010	CM930080000AG	55600	1
DN4-1250N	320 - 800		CM960210000AG	74160	CM961110000AG	85910	1
	400 - 1000		CM960220000AG	91660	CM961120000AG	122650	1
	500 - 1250		CM960230000AG	107350	CM961130000AG	153620	1
DN2-250S	16 - 40	70	CM920650000AG	29870	CM921650000AG	34580	1
	25 - 63		CM920730000AG	29870	CM921640000AG	34580	1
	40 - 100		CM920590000AG	29870	CM921630000AG	34580	1
	63 - 160		CM920760000AG	37500	CM921620000AG	45530	1
	100 - 250		CM920560000AG	40460	CM921610000AG	50510	1
DN3-400S	160 - 400	70	CM940530000AG	48570	CM941530000AG	59600	1
DN3-630S	250 - 630		CM940790000AG	55060	CM941790000AG	75650	1
DN4-1250S	320 - 800		CM960250000AG	84060	CM961150000AG	99650	1
	400 - 1000		CM960260000AG	113290	CM961160000AG	153100	1
	500 - 1250		CM960270000AG	131900	CM961170000AG	179930	1

Note: dsine-V Version (Icu=Ics=100kA) MCCBs are available on request.

@ Motorised version available for DN2 and DN3 frames (please refer page No. 46)

Accessories for MTX2.0 [8538]

Modules for MTX2.0 release	Cat. No.	M.R.P. (₹) Per Unit
Current Metering Module (Display & Metering Module)	CM956980000	9020
Cable (2m length)	CM011960000	1050
Power Supply Module	CL907220000	*
UNCO Module for Status Indication & Control through communication	CL908520000	8570

* Price on request

Current Metering & latest trip record



Display Module



Metering Module

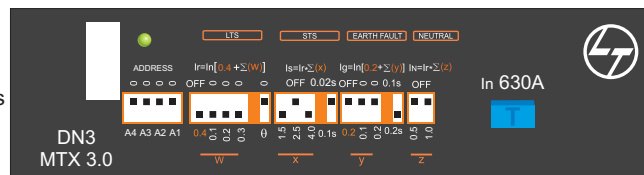


MTX2.0 with current metering module

d sine With Microprocessor Release 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 or Motorised 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	50	CM930010000BG	*	CM930030000BG	*	1
DN3-630D	250 - 630		CM930050000BG		CM930070000BG		1
DN2-250N	16 - 40		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	70	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	70	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

Note: dsine-V Version (Icu=Ics=100kA) MCCBs are available on request.
 @ Motorised version available for DN2 and DN3 frame.

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	8570

* Price on request

MCCB with MTX3.0 release



MTX3.0 with all modules

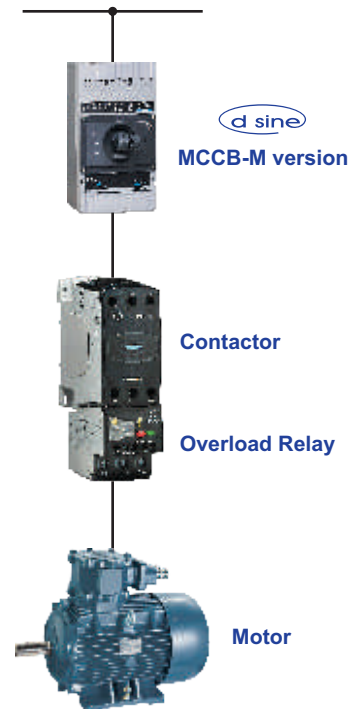
d sine MCCBs for Motor back-up Protection:



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

**Cost effective solution
for motor starter protection**

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	4270	1
	40		CM98944OOFO	4270	1
	50		CM98944OOGO	4270	1
	63		CM98944OOHO	4270	1
	80		CM98944OOJO	4270	1
	100		CM98944OOKO	4270	1
DN1-160M	100		CM90345OOKO	7180	1
	125		CM90345OOLLO	7300	1
	160		CM90345OOMO	8670	1
DN2-250M	200		CM92171OONOG	11800	1
	250		CM92171OOPOG	15030	1
DN3-400M	320		CM94516OOQOG	17980	1
	400		CM94516OOROG	18870	1
DN3-630M	500		CM94515OOSOG	21810	1
	630		CM94515OOTOG	22180	1

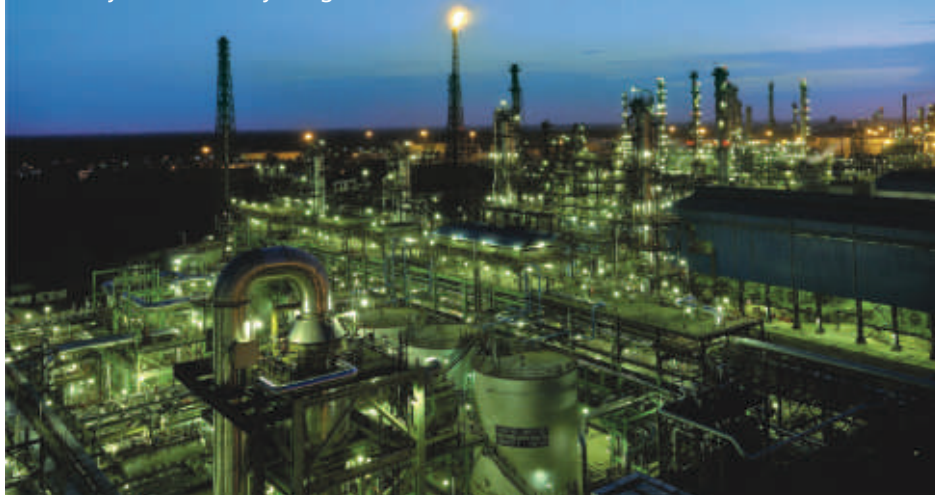


Representative Application Image

Note: Please contact nearest branch office for fuseless type 2 co-ordination selection chart
For lower HP motors, Please select MPCB. Details are given on page no. 16

Give your motor the right protection

dsine-M is compact and it comes with a wide range of snap-fit accessories.
Why settle for anything else?



Cost Effective

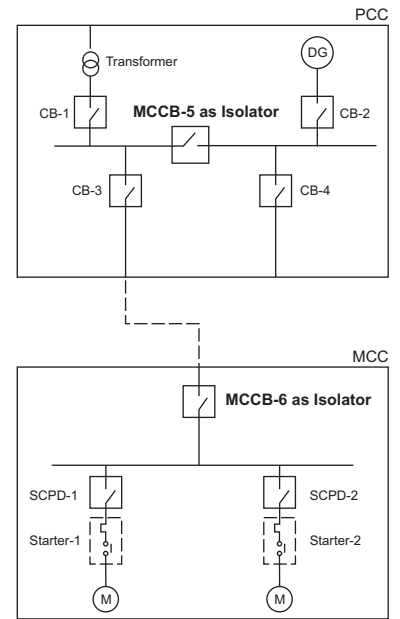
d sine
dsine-M range

d sine Switch Disconnecter - 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

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	4460	CM90717OOEO	5800	1
	63	CM90716OOHO	4460	CM90717OOHO	5800	1
	100	CM90716OOKO	5230	CM90717OOKO	6680	1
	125	CM90716OOL0	6010	CM90717OOL0	7650	1
	160	CM90716OOMO	6250	CM90717OOMO	7910	1
DN2-250SD	200	CM96814OON0OG	12860	CM96815OON0OG	16230	1
	250	CM96802OOP0OG	13070	CM96803OOP0OG	17530	1
DN3B-400SD	320	CM98410OOQ0OG	16460	CM98412OOQ0OG	21810	1
	400	CM98410OOR0OG	18700	CM98412OOR0OG	23810	1
DN3-630SD	500	CM96806OOS0OG	21170	CM96807OOS0OG	28460	1
	630	CM96806OOT0OG	21390	CM96807OOT0OG	29540	1
DN4-1250SD	800	CM93041OOU0	45720	CM93042OOU0	57620	1
	1000	CM93041OOV0	61770	CM93042OOV0	80090	1
	1250	CM93041OOA0	80980	CM93042OOA0	106990	1



Representative Application Image

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	ATC20000000	20300	1

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

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

For AuXC 2000 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	69015	Add MRPs of Similar 2 MCCBs of DN2 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3	+ 1 No. : AuXC2000	80655	Add MRPs of Similar 2 MCCBs of DN3 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.

Note: Picture shown is for representation purpose only, MCCB + EOM + ATAC combination, MIL kit & AuXC-2000 to be purchased separately & assembled at site.

Accessories for MCCBs [8538]



Auxiliary Contact



TAC



Shunt Release



UV Release

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978860000	710	1
DN0, DN1 - 2 C/O - Right	CM978870000	1335	1
DN2, DN3B, DN3, DN4 - 1 C/O	CM998010000	820	1
DN2, DN3B, DN3, DN4 - 2 C/O	CM998020000	1545	1
Trip Alarm Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978880000	710	1
DN0, DN1 - 2 C/O - Right	CM978890000	1335	1
DN2, DN3B, DN3, DN4 - 1 C/O - Right	CM998030000	835	1
Auxiliary 1 C/O + TAC 1 C/O [8538]			
DN0, DN1 - Right	CM978900000	1250	1
DN2, DN3B, DN3, DN4 - Right	CM998040000	1550	1
Shunt Release [8538]			
DN0, DN1 - 24V DC - Left	CM914020400	1240	1
DN0, DN1 - 110V AC - Left	CM978830A00	1240	1
DN0, DN1 - 240/415V AC - Left	CM978830M00	1240	1
DN2, DN3B, DN3, DN4 - 110/240/415V AC, 110/220V DC	CM998050000	2015@	1
DN2, DN3B, DN3 - 24V DC	CM989760400	2015@	1
Under Voltage Release [8538]			
DN0, DN1 - 240V AC - Left	CM97892B000	1665	1
DN2, DN3B, DN3 - 240V AC - Left	CM99986B000	2535**	1
DN4 - 240V AC - Left	CM999060000	2755**	1

@ - 'NO' of control contactor to be connected in series for DC control supply

** - Use these UV Cat. Nos. with Grey look MCCBs only



Neutral CT



Adaptor kit for NCT

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
DN2 - 40A	CM999460000	1260	1
DN2 - 63A	CM999470000	1260	1
DN2 - 100A	CM999480000	1260	1
DN2 - 160A	CM999490000	1810	1
DN2 - 250A	CM999500000	1810	1
DN3 - 400A	CM999540000	3380	1
DN3 - 630A	CM999550000	3380	1
DN4 - 800A	CM998890000	5185	1
DN4 - 1000A	CM998900000	5185	1
DN4 - 1250A	CM998910000	5505	1
Adaptor kit for External Neutral CT [8538]			
DN2 - 250	CM999940000	455	Set of 2
DN3 - 400	CM999950000	955	Set of 2
DN3 - 630	CM999970000	965	Set of 2
DN4 - 800	CM999960000	1590	Set of 2
DN4 - 1000	CM909660000	3510	Set of 4
DN4 - 1250	CM999980000	5990	Set of 2
Stored Energy Electrical Operating Mechanism			
DN2 - 240V AC	*		
DN3 - 240V AC			

* Available on request



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	895	1
DN1 Direct ROM	CM980400000	945	1
DN2 Direct ROM	CM998290000	1000	1
DN3B, DN3 Direct ROM	CM998600000	1500	1
DN0 Extended ROM	CM978960000	1290	1
DN1 Extended ROM	CM980410000	1500	1
DN2 Extended ROM	CM998300000	1575	1
DN3B, DN3 Extended ROM	CM998610000	2500	1
DN4 Extended ROM	CM998840000	3260	1
Panel door mounted Key lock for Extended ROM # [8301]			
Type 1	CM99958T0000	1505	1
Type 2	CM99958T000A	1505	1
Type 3	CM99958T000B	1505	1
Type 12	CM99958T000C	1505	1
Type 23	CM99958T000D	1505	1

- Can be used with dsine, DU, DH/DL, DTH 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	240	Set of 6
DN0-125D - 3 Pole	CM906870OLO	340	Set of 6
DN1, DN2 - 250 - 3 Pole	ST980530000	1190	Set of 6
DN3B/DN3-400 - 3 Pole	ST980650000	2155	Set of 6
DN3-630 - 3 Pole	ST980540000	2425	Set of 6
DN4-800 - 3 Pole	CM911610OUO	5060	Set of 6
DN4-1000 - 3 Pole	CM911610OVO	10120	Set of 12
DN4-1250 - 3 Pole	CM911610OAO	18290	Set of 6
DN0-100 - 4 Pole	CM979210000	405	Set of 8
DN0-125D - 4 Pole	CM906880OLO	475	Set of 8
DN1, DN2 - 250 - 4 Pole	CM920070000	1505	Set of 8
DN3B/DN3-400 - 4 Pole	ST980660000	3090	Set of 8
DN3-630 - 4 Pole	CM920040000	3460	Set of 8
DN4-800 - 4 Pole	ST903620000	6450	Set of 8
DN4-1000 - 4 Pole	CM900640OVO	12900	Set of 16
DN4-1250 - 4 Pole	ST980580000	23005	Set of 8
Mechanical Interlock Kit - Base Plate [8538]			
DN2-250	CM997310000	3895	1
DN3-400	CM997320000	5975	1
DN3-630	CM998540000	5975	1
DIN rail kit [8538]			
DN0	CM909440000	70	1

Note: Phase Barriers are supplied along with MCCBs

DU MCCB Range\$ [8536]

DU With Thermal - Magnetic Release :

Rating (A)	16	20	25	32	40	50	63	80	100	125
Icu (kA)	DU100									DU125U
10										

2 Pole MCCBs\$

DU100/DU125U MCCBs\$



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 16A to 125A, 2P

3 Pole MCCBs\$

DU100/DU125U MCCBs\$



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 16A to 125A, 3P

Type	Current Rating (A)	Breaking Capacity Icu (kA)	2 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	
DU100	16	AC : 25kA @ 240V AC, 50Hz DC : 10kA @ 125V DC, (2P in Series) L/R < 15 msec.	CM977950000	1220	1
	20		CM977960000	1220	1
	25		CM977970000	1220	1
	32		CM977980000	1220	1
	40		CM977990000	1220	1
	50		CM978000000	1220	1
	63		CM978010000	1220	1
	80		CM978020000	1330 ▲	1
	100		CM978030000	1330 ▲	1
DU125U	125		CM9096500LY	1890 ▲	1

Type	Current Rating (A)	Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	
DU100	16	10	CM977510000	1680	1
	20		CM977520000	1680	1
	25		CM977530000	1680	1
	32		CM977540000	1680	5
	40		CM977550000	1680	1
	50		CM977560000	1680	1
	63		CM977570000	1680	5
	80		CM989210000	1840 ▲	1
	100		CM989220000	1840 ▲	5
DU125U	125		CM9032200LY	2680 ▲	1

▲- Spreader Terminals are included

Note:

2P in 3P frame size

DIN rail kit available as an accessory. Please refer DU100/DU125U accessories table

\$ Available till stocks last

Accessories for DU MCCBs\$ [8538]

Accessories for DU100/DU125U MCCBs\$



Auxiliary Contact



Shunt Release

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM977810000	455	1
1 C/O - Left	CM977820000	455	1
Trip Alarm Contact			
1 C/O - Right	SL970370000	670	1
Shunt Release			
240/415V AC, 110 DC - Left	CM977830000	585	1

Note: All internal accessories & ROMs are common for 2P MCCBs

\$ Available till stocks last



Spreader Terminals



Direct ROM



Extended ROM



DU SS Enclosure

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole	CM977850002	170	Set of 4
3 Pole	CM977850000	240	Set of 6
Rotary Handle			
Direct ROM	SL970440000	765	1
Extended ROM	CM999180000	1445	1
DIN rail kit	CM909440000	70	1
SS Enclosure	ST980500000	800	1

Note: Phase Barriers are supplied along with all MCCBs

DH MCCB Range\$ [8536]

DH/DL With Thermal - Magnetic Release\$:

Rating (A) Icu (kA)	16	20	25	32	40	50	63	80	100	125
35	DH125									
50	DL100									



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 16A to 125A, 3P & 4P

Available till stocks last,
for alternate solution
refer page no. 38

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	
DH125	12-16	35	SL986440000	6280	SL986110000	7430	1
	16-20		SL986450000	6280	SL986120000	7430	1
	20-25		SL986460000	6280	SL986130000	7430	1
	25-32		SL986470000	6280	SL986140000	7430	1
	32-40		SL986480000	6280	SL986150000	7430	1
	40-50		SL986490000	6280	SL986160000	7430	1
	50-63		SL986500000	6280	SL986170000	7430	1
	63-80		SL986510000	6280	SL986180000	7430	1
	80-100		SL986520000	7010▲	SL986190000	8310▲	1
	100-125		SL986530000	7140▲	SL986070000	8540▲	1

▲ Spreader Terminals are included

\$ Available till stocks last

DL MCCB Range\$ [8536]



- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 16A to 100A, 3P & 4P

Available till stocks last,
for alternate solution
refer page no. 38

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	
DL100	12-16	50	SL978010000	8540	SL986200000	10380	1
	16-20		SL978020000	8540	SL986210000	10380	1
	20-25		SL978030000	8540	SL986220000	10380	1
	25-32		SL978040000	8540	SL986230000	10380	1
	32-40		SL978050000	8540	SL986240000	10380	1
	40-50		SL978060000	8540	SL986250000	10380	1
	50-63		SL978070000	8540	SL986260000	10380	1
	63-80		SL978080000	8540	SL986270000	10380	1
	80-100		SL978090000	9450▲	SL986280000	11460▲	1

▲ Spreader Terminals are included

\$ Available till stocks last

Accessories for DH125 & DL100 MCCBs\$ [8538]



Auxiliary Contact



TAC



Shunt Release



UV Release



Spreader Terminal



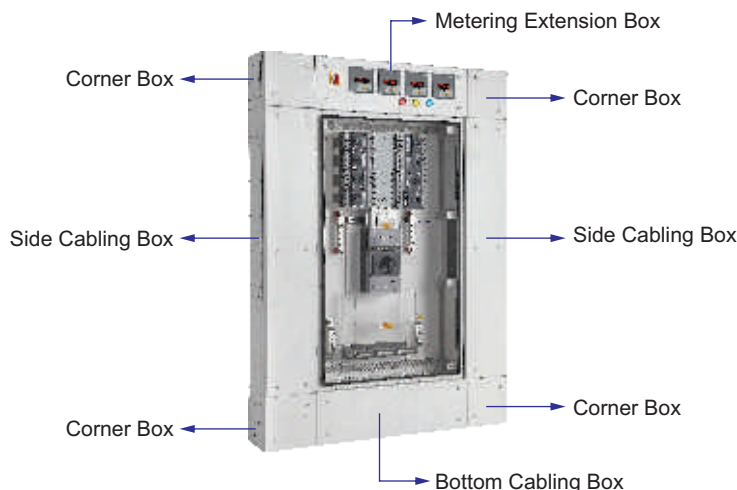
Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	SL972960000	705	1
1 C/O - Left	SL972970000	705	1
Trip Alarm Contact			
1 C/O - Right	SL972980000	705	1
Shunt Release			
110/240/415V AC - Left	SL972990M00	1060	1
24V DC - Left	SL972990400	1060	1
Under Voltage Release			
240V AC - Left	SL976110000	1400	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
3 Pole	ST980470000	385	Set of 6
4 Pole	ST980600000	480	Set of 8
Rotary Handle			
Extended ROM	CM991030000	1425	1

Note: Phase Barriers are supplied along with MCCBs

\$ Available till stocks last.



Range Highlights

- Compliance with latest standard - 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	39140	637	670	208.5
SMDB - TN250D, O/G 100A 8 ways	DA20D1084CZZ0	-	8	47610	787	670	208.5
SMDB - TN250D, O/G 100A 12 ways	DA20D1124CZZ0	-	12	59890	937	670	208.5
SMDB - TN250D, O/G 100A 16 ways	DA20D1164CZZ0	-	16	70380	1087	670	208.5
SMDB - TN400D, O/G 100A 4 ways	DA40D1044CZZ0	-	4	43860	937	670	208.5
SMDB - TN400D, O/G 100A 8 ways	DA40D1084CZZ0	-	8	49980	1087	670	208.5
SMDB - TN400D, O/G 100A 12 ways	DA40D1124CZZ0	-	12	64260	1237	670	208.5
SMDB - TN400D, O/G 100A 16 ways	DA40D1164CZZ0	-	16	75750	1387	670	208.5
SMDB - TN630D, O/G 100A 8 ways	DA60D1084CZZ0	-	8	78540	1287	870	208.5
SMDB - TN630D, O/G 100A 12 ways	DA60D1124CZZ0	-	12	106080	1507	870	208.5
SMDB - TN630D, O/G 100A 16 ways	DA60D1164CZZ0	-	16	116280	1507	870	208.5
SMDB - TN630D, O/G 250A 4 ways	DA62D1044CZZ0	4	-	76500	1067	870	208.5
SMDB - TN630D, O/G 250A 8 ways	DA62D1084CZZ0	8	-	85680	1287	870	208.5
SMDB - TN630D, O/G 250A 12 ways	DA62D1124CZZ0	12	-	110160	1507	870	208.5
SMDB - TN630D, O/G 250A 16 ways	DA62D1164CZZ0	16	-	123420	1727	870	208.5
SMDB - TN630D, O/G COMBI 4 ways	DA6AD1044CZZ0	2	2	74970	1067	870	208.5
SMDB - TN630D, O/G COMBI 8 ways	DA6AD1084CZZ0	2	6	81600	1287	870	208.5
SMDB - TN630D, O/G COMBI 12 ways	DA6AD1124CZZ0	2	10	108120	1507	870	208.5
SMDB - TN630D, O/G COMBI 16 ways	DA6AD1164CZZ0	2	14	119340	1507	870	208.5

Incoming Device [8536]			
SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D*	DN1-250N 3 Pole MCCB - 160A	CM98608OOMO	13510
	DN1-250N 3 Pole MCCB - 200A	CM98608OONO	16320
	DN1-250N 3 Pole MCCB - 250A	CM98608OPO	19420
TN400D	DN3-400D 3 Pole MCCB - 320A	CM94005OOQ1OG	24120
	DN3-400D 3 Pole MCCB - 400A	CM94005OOR1OG	24330
TN630D	DN3-630D 3 Pole MCCB - 500A	CM94006OOS1OG	26660
	DN3-630D 3 Pole MCCB - 630A	CM94006OOT1OG	29310

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, DU250 & DU250C MCCB as incomer.

Outgoing Device [8536]			
SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D, TN400D & TN630D	DN0-100D 3 Pole MCCB - 20 A	CM97893OOC2OG	5800
	DN0-100D 3 Pole MCCB - 25 A	CM97893OOD2OG	5800
	DN0-100D 3 Pole MCCB - 32 A	CM97893OOE2OG	5800
	DN0-100D 3 Pole MCCB - 40 A	CM97893OOF2OG	5800
	DN0-100D 3 Pole MCCB - 50 A	CM97893OOG2OG	5800
	DN0-100D 3 Pole MCCB - 63 A	CM97893OOH2OG	5800
	DN0-100D 3 Pole MCCB - 80 A	CM97893OOJ2OG	5800
	DN0-100D 3 Pole MCCB - 100 A	CM97893OOK2OG	5800
TN630D	DN1-250N 3 Pole MCCB - 160 A	CM98608OOMO	13510
	DN1-250N 3 Pole MCCB - 200 A	CM98608OONO	16320
	DN1-250N 3 Pole MCCB - 250 A	CM98608OPO	19420

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

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	CM9043900PO	6400
	Bottom Cabling Box	CM904370000	6000
TN630D	Metering Extension Box	CM9106400TO	6800
	Bottom Cabling Box	CM910620000	6400
TN250D, TN400D & TN630D	Corner Box	CM910890000	2000
	Mounting base	CM702600000	3000



Note:

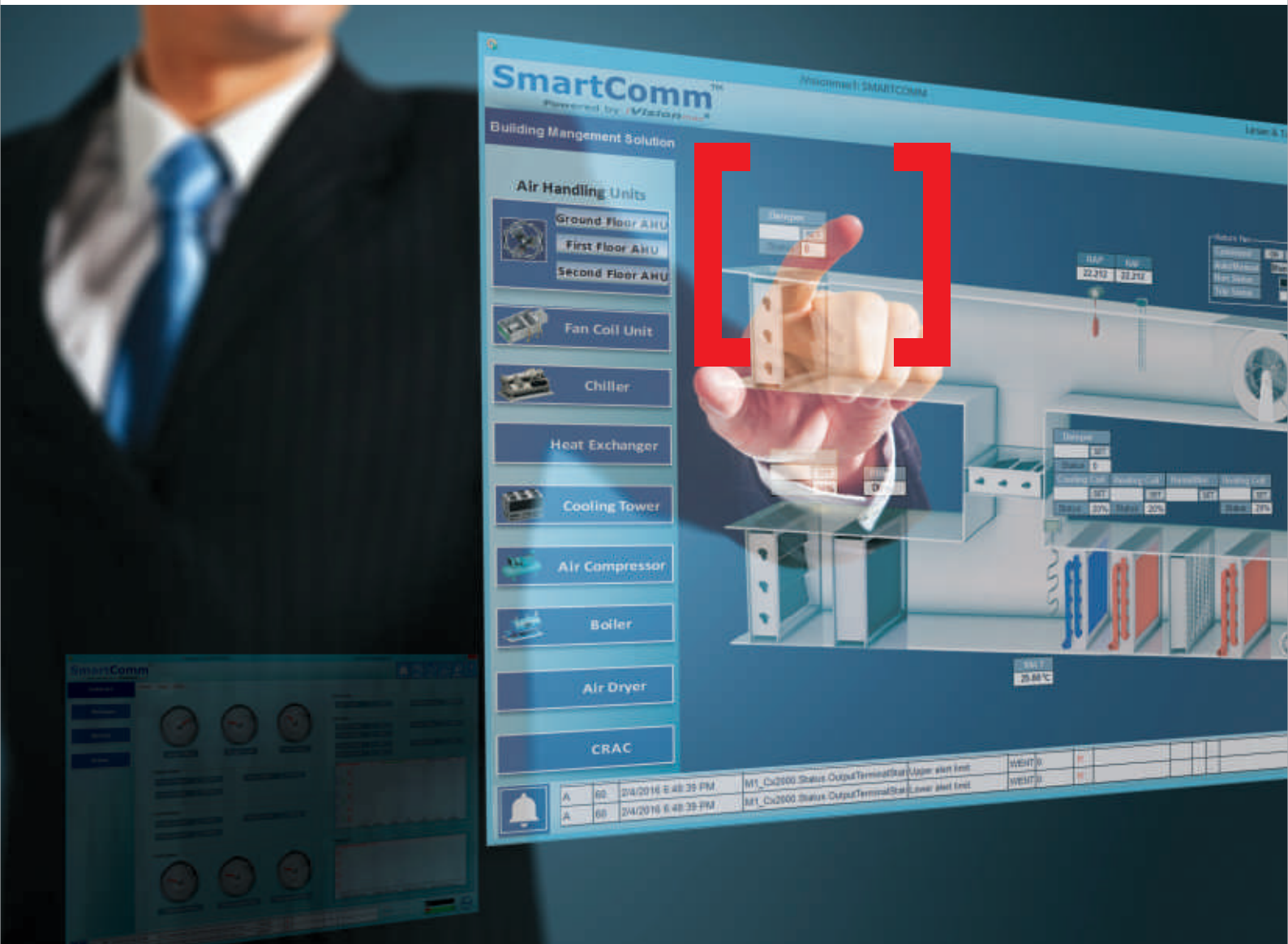
- Ammeter, voltmeter, selector switch and indicating lights have to be ordered separately.
- Mounting base to be used without bottom cabling box.

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	CM910850DOO	5800	CM910860DOO	5800
	-	8	CM910850FOO	7500	CM910860FOO	7500
	-	12	CM910850HOO	9000	CM910860HOO	9000
	-	16	CM910850KOO	10500	CM910860KOO	10500
TN400D	-	4	CM910870DOO	9000	CM910880DOO	9000
	-	8	CM910870FOO	10500	CM910880FOO	10500
	-	12	CM910870HOO	11500	CM910880HOO	11500
	-	16	CM910870KOO	13000	CM910880KOO	13000
TN630D	-	8	CM911200OFO	11500	CM911210OFO	11500
	-	12	CM911200OHO	13400	CM911210OHO	13400
	-	16				
	4	-	CM911200ODO	10300	CM911210ODO	10300
	8	-	CM911200OFO	11500	CM911210OFO	11500
	12	-	CM911200OHO	13400	CM911210OHO	13400
	16	-	CM911200OKO	14600	CM911210OKO	14600
	2	2	CM911200ODO	10300	CM911210ODO	10300
	2	6	CM911200OFO	11500	CM911210OFO	11500
	2	10	CM911200OHO	13400	CM911210OHO	13400
	2	14				



Smart is in the Communication



Presenting SmartComm – Integration | Monitoring | Protection | Control | Reporting

SmartComm is an unified software platform for device communication, integration, data acquisition, data management, monitoring & control.

This single platform integrates complete E&A's communicable product offerings ranging from Digital Panel Meters through Circuit Breakers, Protection Relays, AC Drives, Soft Starters, Final Distribution Products and Building Automation devices.

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SmartComm



U-POWER

OMEGA Range of Air Circuit Breakers

Air Circuit Breakers

- Complete range conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 400A to 6300A in 3 frame sizes
- 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, $I_{cu} = I_{cs} = I_{cw}$ 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 & MTX4.5
- Unique O-LED display for metering
- Touch screen technology in UW-MTX4.5
- 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, Profibus & wireless Zigbee protocols
- Power & Harmonics measurement
- Temperature rise monitoring & protection
- Easy to integrate with HMI & PLC
- Add-on modules for advance protection
- Protection Releases conform to EMI/EMC standard



UW-MTX1.0



UW-MTX1G



UW-MTX1Gi



UW-MTX1.5G



UW-MTX1.5Gi



UW-MTX3.5/3.5EC/3.5H



UW-MTX4.5

Breaking Capacities Offered:

I _{cu} = I _{cs} = I _{cw} 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 & 630AACBs are also available on request.

UW 1 08 N X D 1 2 9 0 0 ⁽⁵⁾	OMEGA 800A Fr-1 50kA 3P EDO UW-MTX1.5G
--	--

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-2 2500A)	N
65kA (Fr-I & Fr-II)	S
80kA (Fr-I, Fr-II & Fr-III)	H
100kA (Fr-III)	V

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
<i>UW - MTX1.5G</i>	9
UW - MTX1.5Gi	C
UW-MTX3.5	3
UW-MTX3.5EC ⁽⁶⁾	4
UW-MTX4.5	5
UW-MTX3.5H	6

Type	
Manually Operated	1
<i>Electrically Operated</i>	2

Selection for control voltage ⁽²⁾	
For Manually Operated	0
240V AC ECD & CR & 240V AC SR	1
240V AC ECD & CR & 24V DC SR	2

Version	
Draw-out	D
Fixed	F

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 low values please refer product catalogue

⁽²⁾ Other options of control voltage are available as accessory

⁽³⁾ Temperature protection is available in UW-MTX3.5/3.5EC/3

⁽⁴⁾ For Fr-1, 2500A selection, please contact the nearest branch office

⁽⁵⁾ Refer point 'C' of Omega ACBs standard features

⁽⁶⁾ For system requiring 690V metering, kindly order separate Power Metering module with MTX 3.5 (refer page 58)

Draw-out Version : Omega ACBs with UW-MTX release will have inbuilt-

Current Metering (MTX 1.5G/1.5Gi/3.5/3.5EC/3.5H/4.5), 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 ratings 4000A (Fr2 & Fr3) and 5000A (Fr3) replace 13th digit of ACB cat no. with (recommended for Buscoupler only)
X : For Top Horizontal (Long) & Bottom Vertical for Fr2 & Fr3
Y : For Top & Bottom Horizontal (Long) for Fr3. H-H termination not recommended for 4000A Fr2.
D) 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 (1.5G/1.5Gi/3.5/3.5EC/3.5H/4.5), 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.

Electrically operated ACB includes ECD (240V AC), CR (240V AC) & SR (240V AC OR 24V DC).

3 Pole ACBs with UW-MTX1G (LSING - BCD Switches)



Current Rating	Version	3 Pole Manual Draw-out ACB with UW-MTX1G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		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	UW108NXD01800	*	UW108SXD01800	*	UW108HXD01800	*	UW308VXD01800	*
1000A		UW110NXD01800		UW110SXD01800		UW110HXD01800		UW310VXD01800	
1250A		UW112NXD01800		UW112SXD01800		UW112HXD01800		UW312VXD01800	
1600A		UW116NXD01800		UW116SXD01800		UW116HXD01800		UW316VXD01800	
2000A		UW120NXD01800		UW120SXD01800		UW120HXD01800		UW320VXD01800	
2500A		UW225NXD01800		UW225SXD01800		UW225HXD01800		UW325VXD01800	
3200A		UW232NXD01800		UW232SXD01800		UW232HXD01800		UW332VXD01800	
4000A		-		UW240SXD01800		UW240HXD01800		UW340VXD01800	
4000A		-		-		UW340HXD01800		UW340VXD01800	
5000A		-		-		UW350HXD01800		UW350VXD01800	
6300A		-		-		UW363HXD01800		UW363VXD01800	

Current Rating	Version	3 Pole Manual Fixed ACB with UW-MTX1G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		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	UW108NXF01800	*	UW108SXF01800	*	UW108HXF01800	*	UW308VXF01800	*
1000A		UW110NXF01800		UW110SXF01800		UW110HXF01800		UW310VXF01800	
1250A		UW112NXF01800		UW112SXF01800		UW112HXF01800		UW312VXF01800	
1600A		UW116NXF01800		UW116SXF01800		UW116HXF01800		UW316VXF01800	
2000A		UW120NXF01800		UW120SXF01800		UW120HXF01800		UW320VXF01800	
2500A		UW225NXF01800		UW225SXF01800		UW225HXF01800		UW325VXF01800	
3200A		UW232NXF01800		UW232SXF01800		UW232HXF01800		UW332VXF01800	
4000A		-		UW240SXF01800		UW240HXF01800		UW340VXF01800	
4000A		-		-		UW340HXF01800		UW340VXF01800	
5000A		-		-		UW350HXF01800		UW350VXF01800	
6300A		-		-		UW363HXF01800		UW363VXF01800	

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
MDO to EDO or MF to EF conversion (Includes ECD 240V AC, CR 240V AC & SR 240V AC or 24V DC)	*
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 + UW-PS Module)	
UW-PS (Auxiliary power supply module for display in No-load or OFF condition) [§]	
COM Module (MODBUS) for communication [§]	
PM Module for power metering [§]	

* Available on request

§ Chapter ID [8538]

4 Pole ACBs with UW-MTX1G (LSING - BCD Switches)



Current Rating	Version	4 Pole Manual Draw-out ACB with UW-MTX1G							
		N (50kA)		S (65kA)		H (80kA)		V (100kA)	
		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	UW108NFD01800	*	UW108SFD01800	*	UW108HFD01800	*	UW308VFD01800	*
1000A		UW110NFD01800		UW110SFD01800		UW110HFD01800		UW310VFD01800	
1250A		UW112NFD01800		UW112SFD01800		UW112HFD01800		UW312VFD01800	
1600A		UW116NFD01800		UW116SFD01800		UW116HFD01800		UW316VFD01800	
2000A		UW120NFD01800		UW120SFD01800		UW120HFD01800		UW320VFD01800	
2500A		UW225NFD01800		UW225SFD01800		UW225HFD01800		UW325VFD01800	
3200A		UW232NFD01800		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	UW108NFF01800	*	UW108SFF01800	*	UW108HFF01800	*	UW308VFF01800	*
1000A		UW110NFF01800		UW110SFF01800		UW110HFF01800		UW310VFF01800	
1250A		UW112NFF01800		UW112SFF01800		UW112HFF01800		UW312VFF01800	
1600A		UW116NFF01800		UW116SFF01800		UW116HFF01800		UW316VFF01800	
2000A		UW120NFF01800		UW120SFF01800		UW120HFF01800		UW320VFF01800	
2500A		UW225NFF01800		UW225SFF01800		UW225HFF01800		UW325VFF01800	
3200A		UW232NFF01800		UW232SFF01800		UW232HFF01800		UW332VFF01800	
4000A		-		UW240SFF01800		UW240HFF01800		UW340VFF01800	
4000A		-		-		UW340HFF01800		UW340VFF01800	
5000A		-		-		UW350HFF01800		UW350VFF01800	
6300A		-		-		UW363HFF01800		UW363VFF01800	

* Available on request

Accessories of OMEGA Air Circuit Breakers [8538]

Air Circuit Breakers



Draw-out ACBs Terminal Adaptors



Fix ACBs Terminal Adaptors

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Draw-out Omega ACBs		
Frame-1 400-2000A 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 S/H (Vertical)	CL609650000	
Frame-2 4000A 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-2 400-4000A H, 3200A N, 3200-4000A S (Vertical/Horizontal)	CL609770000	
Frame-3 400-4000A H/V (Vertical / Horizontal) #	CL906680000	
Frame-3 5000A H/V (Vertical / Horizontal) #	CL609820000	
Frame-3 6300A H/V (Vertical) #	CL906690000	

: Please consider 4 terminal adaptors per phase.

Accessories of **OMEGA** Air Circuit Breakers

U-POWER



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	

[^] Cradle SIC block CL9582500000 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	CL0065900000	*
R - Lock Type - 2	CL0066000000	
R - Lock Type - 3	CL0066100000	
R - Lock Type - 12	CL0066200000	
R - Lock Type - 23	CL0066300000	
Locking arrangement for OFF button with R - Lock (on breaker)	CL9081500000	
Locking arrangement for ISO position with R - Lock (on Cradle)	CL9086500000	
Locking arrangement for ANY position with R - Lock (on Cradle)	CL9092700000	
C - Lock Type - S	CL0066400000	
C - Lock Type - T	CL0066500000	
C - Lock Type - ST	CL0066600000	
C - Lock Type - SS	CL0066700000	
C - Lock Type - TT	CL0066800000	
Locking arrangement for OFF button with C - Lock (on breaker)	CL9081400000	
Locking arrangement for ISO position for C - Lock (on Cradle)	CL9098200000	
Locking arrangement for ANY position with C - Lock (on Cradle)	CL9098100000	

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 & DC	CL90817A000	
125/127V DC	CL908171000	
220 - 240V AC / 220 - 250V DC	CL90817B000	
415V AC	CL90817D000	
Shunt Release (SR) [8538]		
24-30V DC	CL908160400	*
48/60V DC	CL908160500	
110V AC / 110V DC	CL908160A00	
125/127V DC	CL908160100	
220 - 240V AC / 220 - 250V DC	CL908160B00	
415V AC	CL908160D00	
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	



NCT

Description	Cat. No.	M.R.P. (₹) Per Unit
External Neutral CT for UW-MTX Releases [8504]		
Frame-1, 2 & 3 400-800A	CL0071700000	*
Frame-1, 2 & 3 1000-1600A	CL0071800000	
Frame-1 2000-2500A	CL0071900000	
Frame-2 & 3 2000-4000A	CL0072000000	
Frame-3 5000-6300A	CL0072100000	

Automatic Transfer Controllers (ATC) [9032]



AuXC-2000 Controller

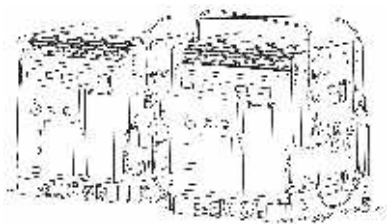
Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller	ATC20000000	20300	1

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



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

Accessories of **OMEGA** Air Circuit Breakers



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	CL901130000	
UW-MTX3.5EC	CL907000000	
UW-MTX3.5H	CL919750000	
UW-MTX4.5	CL906110000	
Power supply module	CL907220000	
Relay Module	CL907160000	
MODBUS Module	CL907090000	
Profibus Module	CL907320000	
Matrix Smart Card Module	CL907050000	
Power Metering Module (415V)	CL907040000	
Power Metering Module (690V)	CL900500000	
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

Upgrade to the new-age OMEGA ACB with Minimal Modifications



Pre-Engineered Retrofit Solution
Upgrade L&T CNCS ACB to OMEGA ACB



Presenting the pre-engineered L&T CNCS to OMEGA Retrofit kit

The L&T CNCS to OMEGA Retrofit kit is a pre-engineered solution which allows you to upgrade from the old CNCS ACB to the advanced L&T OMEGA ACB - with minimal modification. All installations are done by trained Engineers from the nearest L&T Authorised 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

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

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

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 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- High short time withstand capacity, $I_{cu} = I_{cs} = I_{cw}$ 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 control through MODBUS protocol



C-POWER S1 ACB

C-POWER Range of Air Circuit Breakers

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 800A to 6300A
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- High short time fault withstanding capacity, $I_{cu} = I_{cs} = I_{cw}$ 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 & SR71)
- 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 control through MODBUS protocol



C-POWER ACB

C-POWER ACBs for DG Application

- G Range Air Circuit Breakers for DG protection
- 400A to 2000A in 3P Manual Fix version
- Choice of Thermo-Magnetic release-DN1 / Micro processor based release SR18G (LSING)
- $I_{cu}=I_{cs}=I_{cw}=50kA$ for 1 second across the entire range
- Compact and rugged design with inbuilt Under-voltage protection



C-POWER G Range

C-POWER HE ACBs for Harsh Environment

- Please contact the nearest branch office for Details & product Selection

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
630A	50kA	MDO
		EDO
800A	50kA	MDO
		EDO
1000A	50kA	MDO
		EDO
1250A	50kA	MDO
		EDO
1600A	50kA	MDO
		EDO
2000A	50kA	MDO
		EDO
2500A	60kA	MDO
		EDO

Microprocessor Based SR18G			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL96041	134350	SL96061	168790
SL96051	165950	SL96071	200390
SL96042	134350	SL96062	168790
SL96052	165950	SL96072	200390
SL96043	140470	SL96063	176650
SL96053	172070	SL96073	208250
SL96044	156320	SL96064	195610
SL96054	187920	SL96074	227210
SL96045	178120	SL96065	217260
SL96055	209720	SL96075	248860
SL96046	216120	SL96066	265900
SL96056	247720	SL96076	297500
SL96047	260640	SL96067	323700
SL96057	292240	SL96077	355300

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95331	124850	SL95351	159290
SL95341	156450	SL95361	190890
SL95332	124850	SL95352	159290
SL95342	156450	SL95362	190890
SL95333	130970	SL95353	167150
SL95343	162570	SL95363	198750
SL95334	146820	SL95354	186110
SL95344	178420	SL95364	217710
SL95335	168620	SL95355	207760
SL95345	200220	SL95365	239360
SL95336	206620	SL95356	256400
SL95346	238220	SL95366	288000
SL95337	251140	SL95357	314200
SL95347	282740	SL95367	345800

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
630A	50kA	MF
		EF
800A	50kA	MF
		EF
1000A	50kA	MF
		EF
1250A	50kA	MF
		EF
1600A	50kA	MF
		EF

Microprocessor Based SR18G			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95561	92660	SL95581	115840
SL95571	124260	SL95591	147440
SL95562	92660	SL95582	115840
SL95572	124260	SL95592	147440
SL95563	96600	SL95583	120740
SL95573	128200	SL95593	152340
SL95564	116520	SL95584	145660
SL95574	148120	SL95594	177260
SL95565	128040	SL95585	160070
SL95575	159640	SL95595	191670

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95481	83160	SL95501	106340
SL95491	114760	SL95511	137940
SL95482	83160	SL95502	106340
SL95492	114760	SL95512	137940
SL95483	87100	SL95503	111240
SL95493	118700	SL95513	142840
SL95484	107020	SL95504	136160
SL95494	138620	SL95514	167760
SL95485	118540	SL95505	150570
SL95495	150140	SL95515	182170

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	20000
Microprocessor based SR18G+D (LSING + Current Metering)	Add	6000
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	6500

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.

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
400A	50kA	3P MF
630A	50kA	3P MF
800A	50kA	3P MF
1000A	50kA	3P MF
1250A	50kA	3P MF
1600A	50kA	3P MF
2000A	50kA	3P MF

Thermal-Magnetic Release Type DN1	
Cat. No.	M.R.P. (₹) Per Unit
SL95721OOOO	61440
SL95722OOOO	61980
SL95723OOOO	63800
SL95724OOOO	66050
SL95725OOOO	85720
SL95726OOOO	95470
SL93297OOOO	108510

G Range 3 Pole Manual Fixed for DG Application

(with in-built UV Protection & 2NO + 2NC Aux Contact Block)

Thermal-Magnetic Release Type DN1	
Cat. No.	M.R.P. (₹) Per Unit
SL91263OOOO	69110
SL91264OOOO	69240
SL91265OOOO	69650
SL91266OOOO	72450
SL91267OOOO	90310
SL91268OOOO	99960
SL91269OOOO	117560

Microprocessor Based SR18G	
Cat. No.	M.R.P. (₹) Per Unit
SL91320OOOO	78610
SL91321OOOO	78740
SL91322OOOO	79150
SL91323OOOO	81950
SL91324OOOO	99810
SL91325OOOO	109460
SL91326OOOO	127060

C-POWER Air Circuit Breakers [8536]



C-POWER 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (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	199120	#	248210	#	189620	#	238710
		EDO	H	SL95321	230720	#	279810	#	221220	#	270310
1000A	65kA	MDO	H	SL95312	215190	#	263530	#	205690	#	254030
		EDO	H	SL95322	246790	#	295130	#	237290	#	285630
1250A	65kA	MDO	H	SL95313	237500	#	288630	#	228000	#	279130
		EDO	H	SL95323	269100	#	320230	#	259600	#	310730
1600A	65kA	MDO	H	SL95314	258290	#	323280	#	248790	#	313780
		EDO	H	SL95324	289890	#	354880	#	280390	#	345380
2000A	75kA	MDO	H	SL95315	304000	#	381990	#	294500	#	372490
		EDO	H	SL95325	335600	#	413590	#	326100	#	404090
2500A	75kA	MDO	H	SL95316	321790	#	395020	#	312290	#	385520
		EDO	H	SL95326	353390	#	426620	#	343890	#	417120
3200A	75kA	MDO	H2	SL94822	326220	SL94826	400000	SL94814	316720	SL94818	390500
		EDO	H2	SL94824	357820	SL94828	431600	SL94816	348320	SL94820	422100
4000A	75kA	MDO	H2	SL94823	396220	SL94827	513940	SL94815	386720	SL94819	504440
		EDO	H2	SL94825	427820	SL94829	545540	SL94817	418320	SL94821	536040
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 I _{cu} =I _{cs} =I _{cw} (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										
2500A	60kA			SL97635	161920	#	210040	SL93005	152420	#	200540
				SL97636	178420	#	240530	SL93006	168920	#	231030

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	20000
Microprocessor based SR18G+D (LSING + Current Metering)	Add	6000
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	6500
Microprocessor based SR71 (LSING + Current metering + Advance protection + PS Module)	Add	*
Communication Module (MODBUS) for SR71 release (SR71 - COM)\$	SL94698OOOO	
Power Metering Module for SR71 release (SR71 - PM)\$	SL94699OOOO	

\$ Chapter ID [8538]

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 of C-POWER Air Circuit Breakers

Accessories (Common for C-POWER Family)



AN1 Module



LTPB



LIP



Shunt Release



UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
Lockable Trip Push Button (LTPB) [8301]		
Type AA	SL93148000A	2400
Type BB	SL93148000B	2400
Type CC	SL93148000C	2400
Type DD	SL93148000D	2400
Lockable Trip Push Button kit (3 I/C & 2 B/C)	SL919360000	12000
Locking of ACB in Isolated position (LIP) [8301]		
Type A	SL93146000A	2400
Type B	SL93146000B	2400
Type C	SL93146000C	2400
Type D	SL93146000D	2400
Locking of ACB in Any position (LAP) [8301]		
Type A	SL93147000A	2400
Type B	SL93147000B	2400
Type C	SL93147000C	2400
Type D	SL93147000D	2400
Racking Interlock [8301]		
Type AA	SL93149000A	4310
Type BB	SL93149000B	4310
Type CC	SL93149000C	4310
Type DD	SL93149000D	4310
Padlock [8301]		
Racking Padlock Assembly	CL900250000	1420
Other Accessories [8538]		
Door Interlock	SL931500000	2290
Mechanical Operation Counter*	XM808370000	2370
Mounting Kit for Front Mounted Counter	SL958820000	570

* For mounting the Operation counter, mounting kit "SL958820000" needs to be ordered separately.



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	3070	1
1600-2000 S1/1250-1600 C/800-1600 H	SL932820000	3590	1
2000 C	SL932840000	4920	1
2000 H/2500 C/H	SL932850000	5330	1
2500 S1	SL932890000	5330	1
3200 S1	SL932860000	5900	1
3200H2/H1, 4000H2/H	SL932880000	14320	1

Description	Cat. No.	M.R.P. (₹) Per Unit
Shunt Release (SR) [8538]		
Type EA : 24/48V DC	SL927180400	2440
Type EA : 110V DC	SL927180100	2440
Type EA : 220V DC	SL927180200	2440
Type EA1 : 110V AC	SL927180A00	2440
Type EA1 : 240V AC	SL927180B00	2440
Type EA1 : 415V AC	SL927180D00	2440
Under Voltage Release (UVR) [8538]		
Type MV : 24V DC	ST368770000	3530
Type MV : 240V AC	SL92720B000	3530
Type MV : 415V AC	SL92720D000	3530
Earth Fault Release (for DN1) [8538]		
Type EF1 (10%, 20% In)	SL913400000	2290
Type EF2 (30%, 40%, 50% In)	SL913410000	2290
Remote Fault Indication [8538]		
AN1 Remote Annunciation Module for SR18G/SR18G+D/SR18Gi+D : 240V AC	SL946540000	7140
Microswitches for Indication [8536]		
Microswitch for Voltmetric Releases (2) each	SL927030000	1850
Microswitch for Common Indication of O/L & S/C (3) each	SL927040000	1850
Microswitch for Separate Indication of O/L & S/C (3) each (for DN1 release)	SL927050000	3090
Service Position Microswitch - Right (2)	SL931420000	1250
Service Position Microswitch - Left (2)	SL931430000	1250
Test or Isolated Position Microswitch - Right (2)	SL931440000	1250
Test or Isolated Position Microswitch - Left (2)	SL931450000	1250

Note :

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



UN-CO module [8538]

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	8570	1

Spares of C-POWER Air Circuit Breakers

Protection Releases



SR71



SR18G+D/SR18Gi+D



SR18G



DN1



Universal Test Kit



CT

Description	Cat. No.	M.R.P. (₹) Per Unit
Protection Releases [8538]		
Microprocessor based type SR71	On Request	
Microprocessor based type SR18Gi+D	SL948130000	34410
Microprocessor based type SR18G+D	SL948120000	33910
Microprocessor based type SR18G	SL960300000	27910
Thermal-Magnetic Release type DN1	SL931520000	18410
Universal Test Kit	CL904620000	61800

Universal Test Kit

Compatible with following L&T 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

Upgrade to high end communicable Release SR71

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	4170	1
630 S1 Fix & Draw-out	ST374950000	4170	1
800 C/H/S1 Fix & Draw-out	SL018570000	4170	1
1000 C/H/S1 Fix & Draw-out	SL018580000	4170	1
1250 C/H/S1 Fix & Draw-out	SL905710000	5080	1
1600 C/H/S1 Fix & Draw-out	SL905720000	5080	1
2000 C/H Fix & Draw-out	SL905650000	5440	1
2000 S1 Draw-out	SL932100000	5440	1
2500 C/H Fix & Draw-out	SL905660000	5440	1
2500 S1 Draw-out			
3200 H2/H1 Draw-out	SL017400000	6580	1
4000 H2/H Draw-out	SL017390000	7440	1

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

Protect your equipment in Sulphur-rich environments



L&T's HE range of Air Circuit Breakers (ACBs) and Switch-Disconnect-Fuse (S-D-F) are designed to ensure that they operate at peak efficiency for their entire lifespan in harsh, Sulphur-rich environments.

For more details please scan the QR code or click here



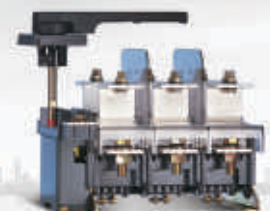
C-POWER HE Air Circuit Breaker

- 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-Disconnect-Fuse

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



Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

Upgrade to the Standard Duty **PRIME** Capacitor.

At L&T, we've taken our Standard Duty capacitor to the next level with the Standard Duty Prime Capacitor. It offers SMEs on the growth path upgraded specifications that let you manage your growing electrical loads more efficiently. So you can focus on your business, instead of your energy bills.



Upgraded specifications include:

- Longer, more productive life, thanks to:
 - Overcurrent withstand: $1.6 \times I_n$
 - Peak inrush current withstand: $200 \times I_n$
- Performs 6000 switching operations per year
- Operating life - 115000 hours

Let the Standard Duty Prime capacitor take the load off your shoulders.
To upgrade to the PRIME class, contact your nearest L&T Sales branch today.

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@lntebg.com Web: www.lntebg.com

Power Factor Correction Capacitors [8532]

Parameters	Standard Duty		New Standard Duty Prime	Heavy Duty		New Super Heavy Duty	APP	LTXL Ultra Heavy Duty	
	Box	Cylindrical	Cylindrical	Box	Cylindrical	Cylindrical	Box	Box	Cylindrical
Over current withstand capability	1.5 x In	1.5 x In	1.6 x In	1.8 x In	1.8 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	0.45 W/kVAr	0.35 W/kVAr	0.35 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.35 W/kVAr	0.45 W/kVAr
Peak Inrush current withstand capability	200 x In	200 x In	200 x In	300 x In	250 x In	350 x In	200 x In	500 x In	500 x In
Number of switching operations per year	5000	5000	6000	8000	8000	15000	10000	20000	20000
Max. Ambient temp.	55°C	55°C	55°C	55°C	55°C	65°C	55°C	70°C	65°C
Operating life	100000 hrs.	100000 hrs.	115000 hrs.	150000 hrs.	150000 hrs.	150000 hrs.	200000 hrs.	300000 hrs.	300000 hrs.

Standard Duty Capacitors



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical 1 to 6 kVAr - Series : LTCCF 7.5 to 25 kVAr - Series : LTCCD	1 to 25	440 V	180
Box 1 to 6 kVAr - Series : LTBCF 7.5 to 30 kVAr - Series : LTBCD	1 to 30	440 V	246

Heavy Duty Capacitors



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCCH	1 & 2	440 V	350
Cylindrical Series: LTCCN (Gas Filled)	3 & 4	440 V	350
	5 to 15		312
	20 & 25		303
	5 to 15	480 V	328
	20 to 30		318
	7.5 to 15	525 V	334
	20 to 30		324
Box Series: LTBCCH	1 to 4	440 V	454
	5 to 15		385
	20 to 50		376
	5.5 to 15	480 V	404
	20 to 27.7		395
	6.6 to 15	525 V	412
	20 to 33.1		402

Standard Duty Prime Capacitors



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCCV	5 to 25	440 V	240

The 3-in-1 solution!



Introducing

The brand new Standard duty Box capacitor with inbuilt MCB and LED indication

- **Correction** of power factor by Standard duty capacitor
- **Indication** of capacitor health status by LED
- **Protection** and isolation by inbuilt MCB

kVAr Rating	Voltage	Cat. No.	M.R.P. (₹) Per Unit
7.5	440 V	LTBCM307B2	3560
8.33		LTBCM308B2	3770
10		LTBCM310B2	4190
12.5		LTBCM312B2	4820
15		LTBCM315B2	5450
20		LTBCM320B2	7325
25		LTBCM325B2	8585

Super Heavy Duty Capacitors



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCR	3 to 5	440 V	362
	7.5 to 15		332
	20 & 25		324
	5.5 to 15	480 V	349
	20 to 27.7		340
	6.6 to 15	525 V	355
	20 to 33.1		347

New

APP Capacitors



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Box Series: LTBCP	5 to 15	440 V	590
	20 to 50		570
	5.5 to 13.8	480 V	620
	16.6 to 27.7		599
	6.6 to 13.2	525 V	631
	16.6 to 33.1		610

LTXL - Ultra Heavy Duty Capacitors



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCU	5 to 15	440V	614
	20 & 25		604
	7.5 to 15	480V	645
	20		634
	7.5 to 15	525V	657
	20		646
Box Series: LTBCU	5 to 15	440V	771
	20 to 50		756
	7.5 to 15	480V	810
	20 to 30		794
	7.5 to 15	525V	825
	20 to 33.1		809

Ordering Information for Capacitors

C - Cylindrical, B - Box	
Duty: D/F - Standard** V - Standard Prime M - Standard duty Box with MCB and LED Indication H - Heavy Box N - Heavy Cylindrical 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
Catalogue Number	

Capacitor Series	kVAr ratings		
	440 V	480 V	525 V
LTCCF/LTBCF	1, 2, 3, 4, 5, 6		
LTCCD/LTBCD	7.5, 8.33, 10, 12.5, 15, 20, 25, 30**		
LTBCM	7.5, 8.33, 10, 12.5, 15, 20, 25		
LTCCV	5, 6, 7.5, 8.33, 10, 12.5, 15, 20, 25		
LTCCN	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 12.5, 15, 20, 25, 30	7.5, 8.33, 12.5, 15, 20, 25, 30
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
LTCCR	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	5.5, 11.1, 15, 20, 25, 27.7	6.6, 13.2, 15, 20, 25, 30, 33.1
LTBCP	5, 7.5, 10, 12.5, 15, 20, 25, 50	5.5, 11.1, 13.8, 16.6, 22.1, 27.7	6.6, 13.2, 16.6, 20, 26.5, 33.1
LTCCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 8.33, 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 30kVAr

Detuned Reactors, 440 V, 50 Hz [8504]

- Copper & Aluminium wound reactors
- 180% linearity*
- Lower operating losses
- Thermal cut off



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
5	LTFR0705B2	7420	LTAL0705B2	6350	LTFR1405B2	14410	LTAL1405B2	10625
10	LTFR0710B2	11665	LTAL0710B2	9015	LTFR1410B2	22645	LTAL1410B2	14875
12.5	LTFR0712B2	12930	LTAL0712B2	9890	LTFR1412B2	25085	LTAL1412B2	16320
15	LTFR0715B2	14320	LTAL0715B2	10580	LTFR1415B2	27795	LTAL1415B2	17455
20	LTFR0720B2	16960	LTAL0720B2	12605	LTFR1420B2	32940	LTAL1420B2	20795
25	LTFR0725B2	18030	LTAL0725B2	13340	LTFR1425B2	35000	LTAL1425B2	22010
50	LTFR0750B2	28625	LTAL0750B2	21160	LTFR1450B2	55585	LTAL1450B2	34915
75	LTFR0775B2	42410	LTAL0775B2	31465	LTFR1475B2	82350	LTAL1475B2	51915
100	LTFR0700B2	58310	LTAL0700B2	43240	LTFR1400B2	113225	LTAL1400B2	71345

* Prices of 200% linearity reactors are available on request. • For high V-THD applications, please contact your nearest sales office for customised solutions.

Selection of capacitors for detuned harmonic filter application

Step size and reactor rating (440 V)	With 7% detuned reactor			With 14% detuned reactor	
	Capacitor series	Capacitor (480 V)	Capacitor (525 V)	Capacitor series	Capacitor (525 V)
5 kVAr	LTCCR, LTBCB, LTBCP	5.5 kVAr	6.6 kVAr	LTCCR, LTBCB, LTBCP	6.6 kVAr
	LTCCN, LTCCU, LTBCU	7.5 kVAr	7.5 kVAr	LTCCN, LTCCU, LTBCU	7.5 kVAr
10 kVAr	LTCCR, LTBCB, LTBCP	11.1 kVAr	13.2 kVAr	LTCCR, LTBCB, LTBCP	12.5 kVAr
	LTCCN, LTCCU, LTBCU	12.5 kVAr	12.5 kVAr	LTCCN, LTCCU, LTBCU	12.5 kVAr
12.5 kVAr	LTCCN, LTCCR, LTBCB, LTCCU, LTBCU	15 kVAr	15 kVAr	LTCCN, LTCCR, LTBCB	15 kVAr
	LTBCP	13.8 kVAr	16.6 kVAr	LTCCU, LTBCU, LTBCP	15 kVAr
15 kVAr	LTCCN, LTCCR, LTBCB, LTCCU, LTBCU	20 kVAr	20 kVAr	LTCCN, LTCCR, LTBCB, LTCCU, LTBCU, LTBCP	20 kVAr
	LTBCP	16.6 kVAr			
20 kVAr	LTCCN, LTCCR, LTBCB, LTBCU	25 kVAr	25 kVAr	LTCCN, LTCCR, LTBCB, LTBCU, LTBCP	25 kVAr
	LTBCP	22.1 kVAr	26.5 kVAr		
	LTCCU	2 X 12.5 kVAr	2 X 12.5 kVAr	LTCCU	2 X 12.5 kVAr
25 kVAr	LTCCR, LTBCB, LTBCP	27.7 kVAr	33.1 kVAr	LTCCN, LTCCR, LTBCB, LTBCU, LTBCP	30 kVAr
	LTCCN, LTBCU	30 kVAr	25 + 8.33 kVAr	LTCCU	2 X 15 kVAr
	LTCCU	12.5 + 15 kVAr	15 + 20 kVAr		
50 kVAr	LTCCR, LTBCB, LTBCP	2 x 27.7 kVAr	2 x 33.1 kVAr	LTCCN, LTCCR, LTBCB, LTBCU, LTBCP	2 x 30 kVAr
	LTCCN, LTBCU	2 x 30 kVAr	2 x (25 + 8.33) kVAr	LTCCU	4 X 15 kVAr
	LTCCU	2 x (12.5 + 15) kVAr	2 x (15 + 20) kVAr		
100 kVAr	LTCCR, LTBCB, LTBCP	4 x 27.7 kVAr	4 x 33.1 kVAr	LTCCN, LTCCR, LTBCB, LTBCU, LTBCP	4 x 30 kVAr
	LTCCN, LTBCU	4 x 30 kVAr	4 x (25 + 8.33) kVAr	LTCCU	8 X 15 kVAr
	LTCCU	4 x (12.5 + 15) kVAr	4 x (15 + 20) kVAr		

* kVAr selection is based on minimum size required and higher standard rating available

Capacitor Duty Contactors - Type MO C [8536]



MO C25



MO C50



MO C100

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	1470	1
	5	MO C5	1NO	CS96127	1540	1
	8.5	MO C8.5	1NO	CS96320	1775	1
	10	MO C10	1NO	CS96156	1925	1
	12.5	MO C12.5	1NO	CS96321	1980	1
	15	MO C15	1NO	CS90019	2760	1
	20	MO C20	1NO	CS90021	3155	1
	25	MO C25▲	1NO	CS96322	3580	1
Fr 2	30	MO C30\$	1NO	CS96148	5470	1
	40	MO C40	1NO	CS96147	9010	1
	50	MO C50	1NO	CS96324	10235	1
Fr 3	60	MO C60\$	1NO	CS96149	11650	1
	75	MO C75	1NO	CS96150	14115	1
	85	MO C85	1NO	CS96157	14810	1
	100	MO C100\$	1NO	CS96158	15000	1

Thyristor Switching Module, 440V 50Hz [8538]

- High Peak Inverse Voltage (PIV) - 2.2 kV
- Lower operating losses
- Auto thermal cut off



kVAr Rating	Cat. No.	M.R.P. (₹) Per Unit
10	LTTSM10B2	17865
25	LTTSM25B2	25485
50	LTTSM50B2	29740

Note: Above prices include Quick Discharge Resistors (QDR)

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

▲ 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

Please refer page No. 7 for further details.

APFC Controller [8536]

etaCON M - APFC Controller



Features:

- Modular and expandable steps
- CT secondary - 1 A / 5 A Site selectable
- Measurement of individual Current and Voltage harmonic (THD) up to 15th Order

- Available in combination of 3 to 14 steps for contactor controlled APFC panels
- Capacitor failure indication
- In-built temperature sensor
- Suitable for LV as well as HT side sensing
- Communicable on Modbus through RS485 Plug-in Module

etaCON M Selection Guidelines

Steps	Steps Description	Size (W x H in mm)	Combination	Cat. No. Combination	M.R.P. (₹) Per Set
3	2 + 1*	96 x 96	3 Step APFC Controller	ETACONM003R	9500
5	4 + 1*	96 x 96	5 Step APFC Controller	ETACONM005R	11000
6	5 + 1*	96 x 96	3 Step APFC Controller + 3 Step Plug-in module	ETACONM003R + ETACONEXP3R	11500
7	6 + 1*	96 x 96	5 Step APFC Controller + 2 Step Plug-in module	ETACONM005R + ETACONEXP2R	12400
8	7 + 1*	96 x 96	5 Step APFC Controller + 3 Step Plug-in module	ETACONM005R + ETACONEXP3R	13000
8	7 + 1*	144 x 144	8 Step APFC Controller	ETACONM008R	14000
10	9 + 1*	144 x 144	8 Step Controller + 2 Step Plug-in module	ETACONM008R + ETACONEXP2R	15400
11	10 + 1*	144 x 144	8 Step Controller + 3 Step Plug-in module	ETACONM008R + ETACONEXP3R	16000
12	11 + 1*	144 x 144	8 Step APFC Controller + 2 Step Plug-in module + 2 Step Plug-in module	ETACONM008R + ETACONEXP2R + ETACONEXP2R	16800
13	12 + 1*	144 x 144	8 Step APFC Controller + 2 Step Plug-in module + 3 Step Plug-in module	ETACONM008R + ETACONEXP2R + ETACONEXP3R	17400
14	13 + 1*	144 x 144	8 Step APFC Controller + 3 Step Plug-in module + 3 Step Plug-in module	ETACONM008R + ETACONEXP3R + ETACONEXP3R	18000

* Last Contact can be programmed for capacitor switching / Alarm function / Fan Control

etaCON M APFC Controller

Model	Single CT input	Voltage input	Cat. No.	M.R.P. (₹) Per Unit
3 Step APFC Controller (96 x 96)	1 A / 5 A	415V / 110 V	ETACONM003R	9500
5 Step APFC Controller (96 x 96)			ETACONM005R	11000
8 Step APFC Controller (144 x 144)			ETACONM008R	14000

etaCON M Optional Plug-in Modules

Description	Model	Cat. No.	M.R.P. (₹) Per Unit
2 Steps Plug-in Module	2 Relays NO	ETACONEXP2R	1400
3 Steps Plug-in Module	3 Relays NO	ETACONEXP3R	2000
RS485 Plug-in Module	RS485 Plug-in Module	ETACONRS485	7500

New

etaSMART - APFC Controller

Features:

- Simple and Smart Controller
- Available in 4 to 16 steps for contactor controlled APFC Panels
- Auto programming function available
- CT secondary - 1 / 5 Amp site selectable



Steps	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
4	96 x 96	CS908840000	1/5 Amp	415 V	8000
6	96 x 96	CS908850000			9000
8	96 x 96	CS909020000			10000
12	144 x 144	CS909030000			12500
14	144 x 144	CS909040000			13500
16	144 x 144	CS909050000			14500

Active Harmonic Filter (AHF) [8543]

- Reduces THD within IEEE limits
- Dynamic correction of THD
- Improves both distortion & displacement Power Factor
- Load balancing & Neutral current reduction (triplen harmonics) with 4 wire filter



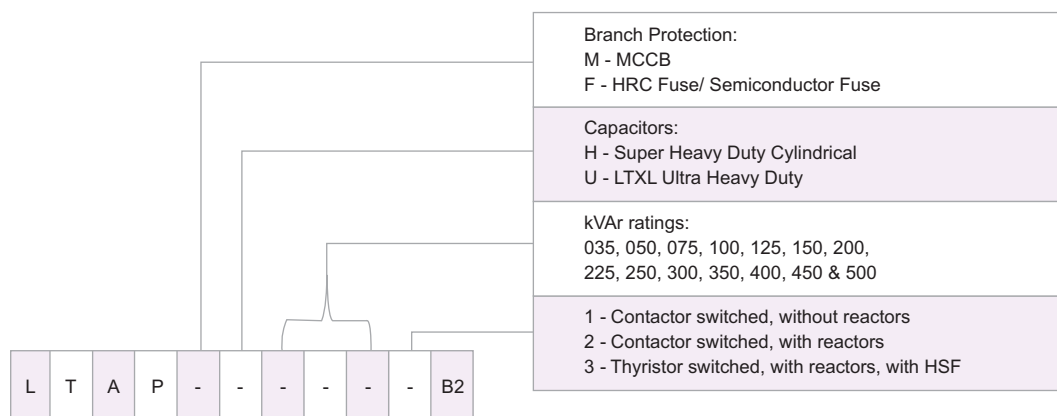
Filter Rating (A)	3 Phase 3 wire AHF		3 Phase 4 wire AHF	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
30	AHF030331D2	On Request	AHF030341D2	On Request
60	AHF060331D2		AHF060341D2	
75	AHF075331D2		AHF075341D2	
100	AHF100331D2		AHF100341D2	
150	AHF150331D2		AHF150341D2	
200	AHF200331D2		AHF200341D2	
300	AHF300331D2		AHF300341D2	
400	AHF400331D2		-	
600	AHF600331D2		-	
800	AHF800331D2		-	

Features

- Wide range of ratings (35 to 500 kVAr) covers the typical requirement of APFC panel ratings
- All the panels are with optimal number of steps and step sizes
 - Offers sufficient step resolution which would be suitable for all types of industries
 - Panel operation without hunting of capacitors
- Pre-selected switchgear with accurate ratings offers reliable operation, protection and isolation
- Accurate combination of capacitor and reactor offers better protection against harmonics
- IP 42 panels
- Auto and manual switching options



Ordering Information for APFC Panels



Product	Description	kVAr ratings	Capacitors	Main Incomer	Branch Protection	Switching	Harmonic filter
etaSYS – MH1	Contactor switched standard APFC Panels	35 to 500 kVAr	Super Heavy Duty cylindrical capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	MCCB	MO C Capacitor duty contactor	-
etaSYS – MH2	Contactor switched standard APFC Panels with harmonic filters	100 to 500 kVAr	Super Heavy Duty cylindrical capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	MCCB	MO C Capacitor duty contactor	7% copper reactor
etaSYS - FH1	Contactor switched standard APFC Panels	35 to 500 kVAr	Super Heavy Duty cylindrical capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	HRC Fuse	MO C Capacitor duty contactor	-
etaSYS - FH2	Contactor switched standard APFC Panels with harmonic filters	100 to 500 kVAr	Super Heavy Duty cylindrical capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	HRC Fuse	MO C Capacitor duty contactor	7% copper reactor
etaSYS - FH3 (RTPFC)	Thyristor switched standard APFC Panels with harmonic filters	100 to 500 kVAr	Super Heavy Duty cylindrical capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	Semiconductor fuse	Thyristor switching modules	7% copper reactor
etaSYS - MU1	Contactor switched standard APFC Panels	100 to 500 kVAr	LTXL - Ultra Heavy Duty capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	MCCB	MO C Capacitor duty contactor	-
etaSYS – MU2	Contactor switched standard APFC Panels with harmonic filters	100 to 500 kVAr	LTXL - Ultra Heavy Duty capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	MCCB	MO C Capacitor duty contactor	7% copper reactor
etaSYS - FU1	Contactor switched standard APFC Panels	35 to 500 kVAr	LTXL - Ultra Heavy Duty capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	HRC Fuse	MO C Capacitor duty contactor	-
etaSYS - FU2	Contactor switched standard APFC Panels with harmonic filters	100 to 500 kVAr	LTXL - Ultra Heavy Duty capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	HRC Fuse	MO C Capacitor duty contactor	7% copper reactor
etaSYS - FU3 (RTPFC)	Thyristor switched standard APFC Panels with harmonic filters	100 to 500 kVAr	LTXL - Ultra Heavy Duty capacitors	MCCB - up to 350 kVAr; ACB - 400 to 500 kVAr	Semiconductor fuse	Thyristor switching modules	7% copper reactor

Note: Other ratings with customization are available on request

3 Phase Over Current + Earth Fault Relay

C.T. Rating 1A or 5A, Field Selectable



- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC31AnX	24 - 240V AC/ DC	2 NO + 2 NC	51, 51N	MC31ANX2200	14500
		4 NO		MC31ANX4000	

3 Phase Over Current + Earth Fault Relay with High Set

C.T. Rating 1A or 5A, Field Selectable



- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC61AnX	24 - 240V AC/ DC	2 NO + 2 NC	51, 51N,	MC61ANX2200	16000
		4 NO	50, 50N	MC61ANX4000	

3 Phase Over Current + Earth Fault Relay with High Set & RS - 485 Port

C.T. Rating 1A or 5A, Field Selectable



- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC61CNX	24 - 240V AC/ DC	4 NO	51, 51N, 50, 50N	MC61CNX4000	21000

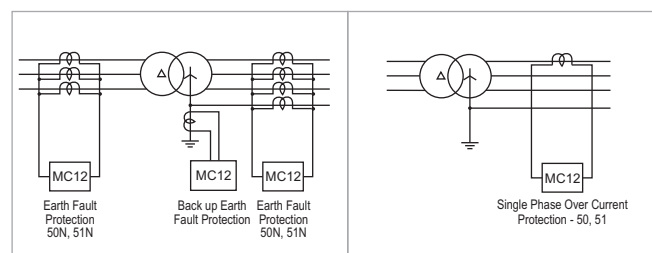
Single Pole Over Current or Earth Fault Relay

C.T. Rating 1A or 5A, Not Field Selectable



- IDMT and Definite time characteristics

Model	Aux. Supply (V)	C.T. Secondary (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC12	20 - 110V AC/DC	1A	50, 51 or 50N, 51N	MC12AA10X00	10000
		5A		MC12AA50X00	
	88 - 264V AC/DC	1A		MC12AB10X00	
		5A		MC12AB50X00	



Reverse Power Relay

C.T. Rating 1A or 5A, Not Field Selectable



- System Voltage is site selectable - 110V / 415V AC

Model	Aux Supply (V)	C.T. Secondary (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MRP11	20 - 110V AC/DC	1A	32	MRP11A10X00	20000
		5A		MRP11A50X00	
	88 - 264V AC/DC	1A		MRP11B10X00	
		5A		MRP11B50X00	

Trip Circuit Supervision Relay



- Static Relay.
- Monitors Trip Coil in Breaker ON & OFF condition
- Site selectable Trip Coil Voltage

Model	Aux. Supply (V)	Cat. No.	M.R.P. (₹) Per Unit
TCS01nX	20 - 110 V AC/ DC	TCS01NXA000	7000
	88 - 264 V AC/ DC	TCS01NXB000	

MPR200nX Electronic Motor Protection Relay



- Protections:
 - Overload
 - Locked Rotor
 - Single Phasing, Current Unbalance, Phase Sequence Reversal
 - Under Current
- Inbuilt CT's (1 A to 88 A)
- Trip indication
- Test facility
- Selectable trip class - 10A, 10, 20 and 30 as per IEC 947-4-1

Model	Aux. supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MPR200nX	240V AC	1 - 2.75	49, 51LR, 37, 46,	MPR200BE010	2800
		2 - 5.5		MPR201BE020	2800
		4 - 11		MPR202BE040	3300
		8 - 22		MPR203BE080	3300
		16 - 44		MPR204BE160	3800
		32 - 88		MPR205BE320	3800
	110V AC	1 - 2.75		MPR200BB010	2800
		2 - 5.5		MPR201BB020	2800
		4 - 11		MPR202BB040	3300
		8 - 22		MPR203BB080	3300
		16 - 44		MPR204BB160	3800
		32 - 88		MPR205BB320	3800

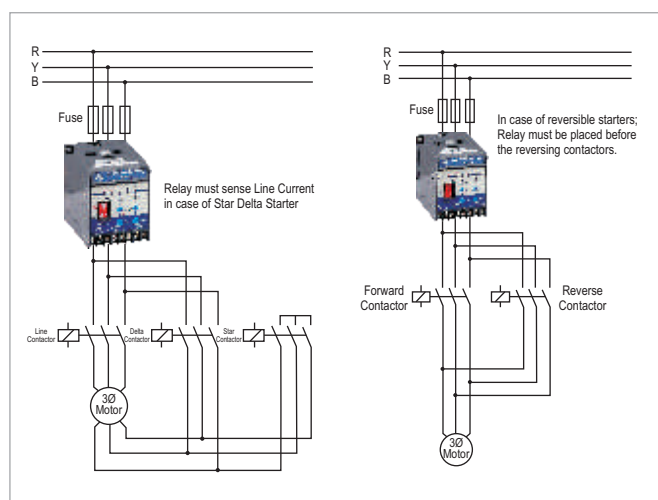
MPR300 Electronic Motor Protection Relay With in-built Earth Fault Protection



- Protections:
 - Overload
 - Earth Fault
 - Locked Rotor
 - Single Phasing, Current Unbalance, Phase Sequence Reversal
 - Under Current
- Inbuilt CT's (1 A to 88 A)
- Trip indication
- Test facility
- Selectable trip class - 10A, 10, 20 and 30 as per IEC 947-4-1

Model	Aux. supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MPR300	240V AC	1 - 2.75	49, 51LR, 64, 37, 46,	MPR300BE010	6000
		2 - 5.5		MPR301BE020	6000
		4 - 11		MPR302BE040	6500
		8 - 22		MPR303BE080	6500
		16 - 44		MPR304BE160	7000
		32 - 88		MPR305BE320	7000
	110V AC	1 - 2.75		MPR300BB010	6000
		2 - 5.5		MPR301BB020	6000
		4 - 11		MPR302BB040	6500
		8 - 22		MPR303BB080	6500
		16 - 44		MPR304BB160	7000
		32 - 88		MPR305BB320	7000

MPR200nX / MPR300 Application Diagram



MPR200nX / MPR300 Trip Time Characteristics

Trip class	Trip time delay		
	I = 120% of Im	I = 150% of Im	I = 720% of Im
10A	< 2 hours	< 2 min	2 - 10 secs
10	< 2 hours	< 4 min	4 - 10 secs
20	< 2 hours	< 6 min	6 - 20 secs
30	< 2 hours	< 12 min	9 - 30 secs

Im - Motor Full Load Current

I - Actual current drawn by the Motor

Motor Protection Relays [8536]

Compact Motor Protection Relay - MM10

- 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	17000

Comprehensive Motor Protection Relay

MM30-743 with current based protections

MM30-W74 * with current and voltage based protections



Model	Aux. Supply	Device code	Cat. No.	M.R.P. (₹) Per Unit
MM30 - 743	20 - 110V AC/ DC	37,46,47,48, 49,50/51,51LR,	EMM30AXX00E	95000
	88 - 240V AC/ DC	64, 66,68,74	EMM30BXX00E	
MM30 - W74	20 - 110V AC/DC	12/14,27/59,37, 46,47,48,49,	EMM30WAX002	110000
	88 - 240V AC/DC	50/51, 51LR,55, 64,66,68,74,81.	EMM30WBX002	

MCOMP - Intelligent Motor Control, Monitoring and Protection Relay

- Current & Voltage based metering and protection in a single compact unit
- In-built voltage module: enables power measurement
- 6 DI & 4 DO in base unit
- Universal auxiliary supply
- Communication capability: Modbus RTU, Modbus TCP / IP, Profibus
- Inbuilt Analog output & RTD / PTC inputs
- OLED Display: 170° viewing angle, brighter pixilation
- Conformal coating

Complete solution for Smart MCC



CT Unit



Main unit



Display unit

Description	Cat. No.	M.R.P. (₹) Per Unit
MCOMP Main Unit	*	*
MCOMP CT1 UNIT 0.5M CABLE; 0.675A to 2.025A	*	*
MCOMP CT2 UNIT 0.5M CABLE; 1.8A to 5.4A	*	*
MCOMP CT3 UNIT 0.5M CABLE; 4.5A to 13.5A	*	*
MCOMP CT4 UNIT 0.5M CABLE; 12.6A to 37.8A	*	*
MCOMP CT5 UNIT 0.5M CABLE; 36A to 81A	*	*
MCOMP USB DISPLAY UNIT- 2.0 M CABLE; 80-240 V AC/DC	*	*

Note: For ordering information Contact nearest Branch office

* Available on request only

Voltage & Frequency Relays [8536]

Single Phase Under Voltage or Over Voltage Relay



- System Voltage is site selectable - 110 / 240 / 415V AC

Model	Aux. Supply (V)	Device code	Cat. No.	M.R.P. (₹) Per Unit
MV12A	20 - 110V AC/DC	27 or 59	MV12AA00X00	10000
	88 - 264V AC/DC		MV12AB00X00	



UFD34 - Three phase Voltage and Frequency relay with df/dt and dv/dt protection

UM30 - Voltage Frequency and Zero Sequence Voltage Relay with Vector shift detection

Model	Aux. supply	Device code	Cat. No.	M.R.P. (₹) Per Unit
UFD34	20 - 110V AC/ DC	27, 59, 81, df/dt, dv/dt	EFD34A000000	150000
	88 - 240V AC/DC		EFD34B000000	
UM30	20 - 110V AC/ DC	24, 27d/59d, 47, 59, 59Uo, 78, 81	EUM30A00000 *	150000
	88 - 240V AC/DC		EUM30B00000 *	

* available on request only

etaCON M Series - 3 to 14 Relay Outputs for Contactor switching



Features:

- Modular and expandable steps
- CT secondary - 1 A / 5 A Site selectable
- Measurement of individual Current and Voltage harmonic (THD) up to 15th Order
- Available in combination of 3 to 14 steps for contactor controlled APFC panels
- Capacitor failure indication
- In-built temperature sensor
- Suitable for LV as well as HT side sensing
- Communicable on Modbus through RS485 Plug-in Module

etaCON M Selection Guidelines

Steps	Steps Description	Size (W x H in mm)	Combination	Cat. No. Combination	M.R.P. (₹) Per Set
3	2 + 1*	96 x 96	3 Step APFC Controller	ETACONM003R	9500
5	4 + 1*	96 x 96	5 Step APFC Controller	ETACONM005R	11000
6	5 + 1*	96 x 96	3 Step APFC Controller + 3 Step Plug-in module	ETACONM003R + ETACONEXP3R	11500
7	6 + 1*	96 x 96	5 Step APFC Controller + 2 Step Plug-in module	ETACONM005R + ETACONEXP2R	12400
8	7 + 1*	96 x 96	5 Step APFC Controller + 3 Step Plug-in module	ETACONM005R + ETACONEXP3R	13000
8	7 + 1*	144 x 144	8 Step APFC Controller	ETACONM008R	14000
10	9 + 1*	144 x 144	8 Step Controller + 2 Step Plug-in module	ETACONM008R + ETACONEXP2R	15400
11	10 + 1*	144 x 144	8 Step Controller + 3 Step Plug-in module	ETACONM008R + ETACONEXP3R	16000
12	11 + 1*	144 x 144	8 Step APFC Controller + 2 Step Plug-in module + 2 Step Plug-in module	ETACONM008R + ETACONEXP2R + ETACONEXP2R	16800
13	12 + 1*	144 x 144	8 Step APFC Controller + 2 Step Plug-in module + 3 Step Plug-in module	ETACONM008R + ETACONEXP2R + ETACONEXP3R	17400
14	13 + 1*	144 x 144	8 Step APFC Controller + 3 Step Plug-in module + 3 Step Plug-in module	ETACONM008R + ETACONEXP3R + ETACONEXP3R	18000

* Last Contact can be programmed for capacitor switching / Alarm function / Fan Control

etaCON M Controller

Model	Single CT input	Voltage input	Cat. No.	M.R.P. (₹) Per Unit
3 Step APFC Controller (96 x 96)	1 A / 5 A	415V / 110 V	ETACONM003R	9500
5 Step APFC Controller (96 x 96)			ETACONM005R	11000
8 Step APFC Controller (144 x 144)			ETACONM008R	14000

etaCON M Optional Plug-in Modules

Description	Model	Cat. No.	M.R.P. (₹) Per Unit
2 Steps Plug-in Module	2 Relays NO	ETACONEXP2R	1400
3 Steps Plug-in Module	3 Relays NO	ETACONEXP3R	2000
RS485 Plug-in Module	RS485 Plug-in Module	ETACONRS485	7500



etaSMART - APFC Controller [8536]

4 to 16 Relay Outputs for Contactor switching



Features:

- Simple and Smart Controller
- Available in 4 to 16 steps for contactor controlled APFC Panels
- Auto programming function available
- CT secondary - 1 / 5 Amp site selectable

Steps	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
4	96 x 96	CS908840000	1/ 5 Amp	415 V	8000
6	96 x 96	CS908850000			9000
8	96 x 96	CS909020000			10000
12	144 x 144	CS909030000			12500
14	144 x 144	CS909040000			13500
16	144 x 144	CS909050000			14500

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	1252
1P LCD Meter 5-30A with BOX	WM101BC5DL0BOX	1676
1P LCD Meter 5-30A with OPTICAL PORT	WM101BC5DDH	1720
1P LCD Meter 5-30A with Optical port + BOX	WM101BC5DDHBOX	2143
1P LCD Meter 10-60A	WM101BC7DL0	1481
1P LCD Meter 10-60A with BOX	WM101BC7DL0BOX	1868
1P LCD Meter 10-60A with Optical Port	WM101BC7DDH	1894
1P LCD Meter 10-60A with Optical Port + BOX	WM101BC7DDHBOX	2178

3 Phase 4 Wire kWh meter Counter type

Model EM301B Class 1 Base mounting



Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph 4 W kWh CT op base mtg 240V 5 -10 A	WM301BC3C00	3616
3Ph 4 W kWh Dir base mtg 240V 5 -20 A Sleek	WM301BC4D20	3030
3Ph 4 W kWh Dir base mtg 240V 10 -40 A Sleek	WM301BC6D20	3119
3Ph 4 W kWh Dir base mtg 240V 10 - 60 A big body	WM301BC7D10	3950
3Ph 4 W kWh Dir base mtg 240V 50 -100 A big body	WM301BC8D10	5727

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	5917
3Ph, 4W TVM 240 V 10 - 60A BM RS 485*	WR300BC73RS485	8440
3Ph, 4W TVM 240 V 10 - 60A BM with Hinge type Box	WR300BC73BOXH	7330

* - available on request only

Trivector Meter Class 0.5s

Model ER300P Class 0.5s (Base Mounting)



Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.5s BM	WR300BB1200	19009
3Ph, 4W TVM 110V (L-L) 5 A Class 0.5s BM	WR300BB5200	19009
3Ph, 4W TVM 240V (L-N) 1 A Class 0.5s BM *	WR300BC1200	17518
3Ph, 4W TVM 240V (L-N) 5 A Class 0.5s BM	WR300BC5200	17518
3Ph, 4W TVM 110V (L-L) 1 A Class 0.5s BM RS485	WR300BB12RS	22811
3Ph, 4W TVM 110V (L-L) 5 A Class 0.5s BM RS485 *	WR300BB52RS	22811
3Ph, 4W TVM 240V (L-N) 1 A CI 0.5s BM RS485 *	WR300BC12RS	21022
3Ph, 4W TVM 240V (L-N) 5 A CI 0.5s BM RS485	WR300BC52RS	21022

* - available on request only

Trivector Meter Class 0.2s

Model ER300P Class 0.2s (Base Mounting)



Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.2s BM	WR300BB1100	46120
3Ph, 4W TVM 110V (L-L) 5 A Class 0.2s BM	WR300BB5100	46120
3Ph, 4W TVM 110V (L-L) 1 A Class 0.2s BM RS485	WR300BB11RS	49200
3Ph, 4W TVM 110V (L-L) 5 A Class 0.2s BM RS485	WR300BB51RS	49200

Meter Reading Instrument [8471]



Description	Cat. No.	M.R.P. (₹) Per Unit
Meter Reading Instrument - (6.5 MB)	990MRIXX00S	85618
Meter Reading Instrument - (16.5 MB)	990MRIXX000	98276
Meter Optical port to USB cable	990PCXXUSB	1000

The Energy Management System that fosters energy efficiency



Your trusted partner for the continued growth of your business – Larsen & Toubro – presents SmartComm Energy Management System. It enables you to measure and monitor your electrical system, consequently helping you save energy. At the heart of this monitoring system are our digital panel meters, with host of benefits.

SmartComm Energy Management System software

- Simple and powerful energy monitoring software with multiple benefits that empowers the user to save money
- Glimpse of all entire energy consumption in the plant through dashboard
- Provision to generate multiple report types

Digital Panel Meters

- Meters with Class 1, Class 0.5, 0.5S, Class 0.2, 0.2S accuracy
- Meters with THD and individual harmonics up to 31st
- Direct access to Basic, Power and Energy parameters through front keys
- RS485 or Ethernet communication available
- Analog, Digital inputs and outputs, Data logging options

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@lntebg.com Web: www.lntebg.com

For L&T DPM programming videos and more details on Energy Management Solutions please scan the QR code or click here



L&T's metering solutions include:

Single function meters

VAF + PF meters

Energy meters

Dual Source meters

Basic Multifunction meters

Advanced Multifunction meters

MD Controller

Single Function Meters [9030]

1xxx Series

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC
- 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 CI 1	WL1110100000	870
1Ph LED Voltmeter CI 1	WL1120100000	870
3Ph LED Ammeter CI 1	WL1310100000	1260
3Ph LED Voltmeter CI 1	WL1320100000	1260
LED Freq meter CI 0.2	WL1130400000	870
1Ph LED Ammeter CI 0.5	WL1110200000	1175
1Ph LED Voltmeter CI 0.5	WL1120200000	1175
3Ph LED Ammeter CI 0.5	WL1310200000	1525
3Ph LED Voltmeter CI 0.5	WL1320200000	1525

VAF + PF Meters [9030]

4110 Series

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
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- Parameters: VLL, VLN, A, F, PF, On Hrs, RPM, Apeak



Description	Cat. No.	M.R.P. (₹) Per Unit
VAF + PF meter, CI 1	WL4110100000	2180
VAF + PF meter with RS485, CI 1	WL4110110000	2700
VAF + PF meter, CI 0.5	WL4110200000	2480
VAF + PF meter with RS485, CI 0.5	WL4110210000	3000

Energy Meters [9030]

4000 Series

Features

- kWh/kVAh site selectable
- 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



Description	Cat. No.	M.R.P. (₹) Per Unit
kWh LED meter CI 1	WL4000100000	2450
kWh LED meter CI 1 with RS485	WL4000110000	2890
kWh LED meter CI 0.5	WL4000200000	3110
kWh LED meter CI 0.5 with RS485	WL4000210000	3545
kWh LCD meter CI 1	WC4000100000	2715
kWh LCD meter CI 1 with RS485	WC4000110000	3150
kWh LCD meter CI 0.5	WC4000200000	3370
kWh LCD meter CI 0.5 with RS485	WC4000210000	3810

4000 Series

Features

- DIN mounting whole current operated meter
- Accuracy Class 1.0
- Inbuilt analytics with energy consumption of today and yesterday total, this week and last week total, this month and last month total on the screen without any additional software
- Push to push mode for variable kWh consumption monitoring
- Parameters: 1 Phase - Voltage, Current, kW, kWh
3 Phase - Voltage, Current, kW, kWh + PF, kVA, kVAh, MD



Description	Cat. No.	M.R.P. (₹) Per Unit
Energy meter 1P 5-40A CI 1 DIN	WD4000101000	2035
Energy meter 3P 10-60A CI 1 DIN	WD4000103000	4620
Energy meter RS485 module	WD400010RS00	2035
Energy meter Wi-Fi module	WD400010WFO0	9500

4030 Series

Features

- Accuracy Class 1.0
- Flush mounting 96 x 96 mm
- Counter type energy meter
- Available with sealing arrangement
- Parameter : kWh



Description	Cat. No.	M.R.P. (₹) Per Unit
kWh Counter type meter CI 1 (3Ph 4W 240V 5A)	WL4030100000	2970

Dual Source Meters [9030]

4040 Series

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
- Parameters: V, A, F, PF, kW, kVA, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh
- Meter with 1 Pulse output available*



Description	Cat. No.	M.R.P. (₹) Per Unit
Dualsource LED meter CI1	WL4040100000	3500
Dualsource LED meter CI1 with RS485	WL4040110000	4030
Dualsource LED meter CI0.5	WL4040200000	4160
Dualsource LED meter CI0.5 with RS485	WL4040210000	4680
Dualsource LCD meter CI1	WC4040100000	3765
Dualsource LCD meter CI1 with RS485	WC4040110000	4290
Dualsource LCD meter CI0.5	WC4040200000	4420
Dualsource LCD meter CI0.5 with RS485	WC4040210000	4945

* PI contact nearest branch office.

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
- V, A, F, PF, kW, kVA, Old energy, Load hours, site selectable kWh/ kVAh



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4400 LED meter CI 1	WL4400100000	3680
MFM 4400 LED meter CI 1 with RS485	WL4400110000	4550
MFM 4400 LED meter CI 0.5 with RS485	WL4400210000	5380
MFM 4400 LED meter CI 0.5S with RS485	WL4400310000	5430
MFM 4400 LCD meter CI 1	WC4400100000	3940
MFM 4400 LCD meter CI 1 with RS485	WC4400110000	4815

Basic Multifunction Meters [9030]

4405 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
- V, A, F, PF, kW, kVA, Old energy, On and Run hours, site selectable kWh/ kVAh



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4405 LED meter CI 1	WL4405100000	4680
MFM 4405 LED meter CI 1 with RS485	WL4405110000	5550
MFM 4405 LED meter CI 0.5 with RS485	WL4405210000	6380
MFM 4405 LED meter CI 0.5S with RS485	WL4405310000	6430

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
- Constant Wh viewing in LCD Multifunction meters in auto scroll mode
- 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



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

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4410 LED meter CI 1	WL4410100000	6480
MFM 4410 LED meter CI 1 with RS485	WL4410110000	7410
MFM 4410 LED meter CI 0.5 with RS485	WL4410210000	8800
MFM 4410 LED meter CI 0.5S with RS485	WL4410310000	9725
MFM 4410 LED meter CI 0.2 with RS485	WL4410410000	11580
MFM 4410 LED meter CI 0.2S with RS485	WL4410510000	14820
MFM 4410 LCD meter CI 1	WC4410100000	7410
MFM 4410 LCD meter CI 1 with RS485	WC4410110000	8335
MFM 4410 LCD meter CI 0.5 with RS485	WC4410210000	9725
MFM 4410 LCD meter CI 0.5S with RS485	WC4410310000	10650
MFM 4410 LCD meter CI 0.2 with RS485	WC4410410000	12500
MFM 4410 LCD meter CI 0.2S with RS485	WC4410510000	15740

4420 Series

Parameters:

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

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4420 LED meter CI 1	WL4420100000	9725
MFM 4420 LED meter CI 1 with RS485	WL4420110000	10650
MFM 4420 LED meter CI 0.5 with RS485	WL4420210000	12040
MFM 4420 LED meter CI 0.5S with RS485	WL4420310000	12965
MFM 4420 LED meter CI 0.2 with RS485	WL4420410000	14820
MFM 4420 LED meter CI 0.2S with RS485	WL4420510000	18060
MFM 4420 LCD meter CI 1	WC4420100000	10650
MFM 4420 LCD meter CI 1 with RS485	WC4420110000	11580
MFM 4420 LCD meter CI 0.5 with RS485	WC4420210000	12965
MFM 4420 LCD meter CI 0.5S with RS485	WC4420310000	13890
MFM 4420 LCD meter CI 0.2 with RS485	WC4420410000	15740
MFM 4420 LCD meter CI 0.2S with RS485	WC4420510000	18985

4430 Series

Parameters:

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

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4430 LED meter CI 1	WL4430100000	14355
MFM 4430 LED meter CI 1 with RS485	WL4430110000	15280
MFM 4430 LED meter CI 0.5 with RS485	WL4430210000	16670
MFM 4430 LED meter CI 0.5S with RS485	WL4430310000	17595
MFM 4430 LED meter CI 0.2 with RS485	WL4430410000	19450
MFM 4430 LED meter CI 0.2S with RS485	WL4430510000	22690
MFM 4430 LCD meter CI 1	WC4430100000	15280
MFM 4430 LCD meter CI 1 with RS485	WC4430110000	16205
MFM 4430 LCD meter CI 0.5 with RS485	WC4430210000	17595
MFM 4430 LCD meter CI 0.5S with RS485	WC4430310000	18520
MFM 4430 LCD meter CI 0.2 with RS485	WC4430410000	20370
MFM 4430 LCD meter CI 0.2S with RS485	WC4430510000	23615

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 CI 1 with RS485	WL4440110000	11115
MFM 4440 LED meter CI 0.5 with RS485	WL4440210000	12500
MFM 4440 LED meter CI 0.2 with RS485	WL4440410000	15280
MFM 4440 LCD meter CI 1 with RS485	WC4440110000	12040
MFM 4440 LCD meter CI 0.5 with RS485	WC4440210000	13430
MFM 4440 LCD meter CI 0.2 with RS485	WC4440410000	16210

5000 Series

Features

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

Parameters:

- V, A, F, kW, KVA, kVAh, kWh, kVAh, 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.
- Constant Wh viewing in LCD Multifunction meters in auto scroll mode
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5000 LED meter CI 1 with RS485	WL5000110000	28340
MFM 5000 LED meter CI 1 with Ethernet	WL5000120000	32200
MFM 5000 LED meter CI 0.5 with Ethernet	WL5000220000	33580
MFM 5000 LED meter CI 0.5S with Ethernet	WL5000320000	34500
MFM 5000 LCD meter CI 1 with RS485	WC5000110000	29260
MFM 5000 LCD meter CI 1 with Ethernet	WC5000120000	33120
MFM 5000 LCD meter CI 0.5 with RS485	WC5000210000	30640
MFM 5000 LCD meter CI 0.5S with RS485	WC5000310000	31560
MFM 5000 LCD meter CI 0.5 with Ethernet	WC5000220000	34500
MFM 5000 LCD meter CI 0.5S with Ethernet	WC5000320000	35420
MFM 5000 LCD meter CI 0.2 with RS485	WC5000410000	33400
MFM 5000 LCD meter CI 0.2S with RS485	WC5000510000	36620

* For Input/Output options please contact nearest branch office.

5010 Series

Features

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

Parameters:

- V, A, F, kW, KVA, kVAh, kWh, kVAh, 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.

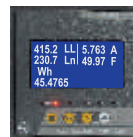
Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5010 LED meter CI 1	WL5010100000	10120
MFM 5010 LED meter CI 1 with RS485	WL5010110000	11040
MFM 5010 LED meter CI 0.5S	WL5010300000	12420
MFM 5010 LED meter CI 0.5S with RS485	WL5010310000	13340
MFM 5010 LED meter CI 0.2 with RS485	WL5010410000	15180

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 output for control
- Time of Day (TOD) 6 slots available
- Block/sliding window site selectable
- Running demand, max demand, prediction demand in single page window



Parameters:

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

Description	Cat. No.	M.R.P. (₹) Per Unit
MDC 6000 LED meter CI 1 with RS485	WL6000110000	24910
MDC 6000 LED meter CI 0.5S with RS485	WL6000310000	27305
MDC 6000 LCD meter CI 1 with RS485	WC6000110000	25870
MDC 6000 LCD meter CI 0.5S with RS485	WC6000310000	28265

SmartComm EMS [8523]



SmartComm EMS

Simple and powerful energy monitoring software with multiple benefits that empowers the user to save money.

Features:

- Glimpse of all entire energy consumption in the plant through dashboard
- Quick understanding of energy consumption of today compared to yesterday, this month consumption compared to last month as well as yoy energy comparison through dashboard.
- Easy navigation through the modules
- Excel reports with charts
- All parameters in the device can be monitored from the software
- Multiple combination of devices and parameters for analysis
- Provision to generate multiple report types
- Specific Energy Consumption (SEC) report
- Access to features defined by user levels
- L&T meters preconfigured in the software
- New** • Monitor ON, OFF, Trip, Ready to close status of circuit breaker through L&T's UNCO module.
- New** • Control Circuit breaker ON & OFF, provision for breaker On & Trip counter, last 20 trips date & time stamp
- SmartComm EMS license ordering is based on number of nodes i.e meters / UNCO module to be connected in the system.



Please contact nearest branch office for optimal Energy Monitoring Solution and network architecture with SmartComm EMS software.

Your automation needs keep growing.

So does our range.



AC Drive : 0.1 kW to 450 kW
 Soft Starter : 23 A to 1600 A
 PLC : 10 I/Os to 5728 I/Os
 HMI : Screen size from 4.3" to 15"

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- Plastics
- Machine Tool
- Crane & Elevator
- Textile
- Pharmaceuticals

L&T's expanding range of automation products and systems meets the precise needs of machinery manufacturers and end users. The range encompasses AC Drive, PLC and HMI.

L&T quality, L&T dependability and L&T customer support - you can count on it for virtually every application in machines or processes.

L&T's team of integration experts will offer system architecture and successful proof of concept. Put it all together and you have everything you need for quality automation solutions.

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AC Drive Range:

- 1) **Cx2000**: Compact Drive - Range : 0.1 to 11kW (ND)
- 2) **Sx2000**: Smart Drive - Range : 0.75 to 90kW (ND)
- 3) **Fx2000**: Flexi Drive - Range : 0.75 to 375kW (HD)

Application Specific Drives:

- 1) **Hx2000**: HVAC Drive - Range : 0.75 to 90kW (ND)
- 2) **Sx2000**: IP66 Drive - Range : 0.75 to 22kW (HD)

Model type & Selection:

LTVF	X	X	XXXX	X	X	A
L&T Variable Frequency Drive	Series	Input Voltage	Drive Current Rating (ND)*	Enclosure	Keypad	Reserved
	C Cx2000	1 Single-Phase 200-240[V]		A IP00	A With	
	S Sx2000	2 Three-Phase 200-240[V]		B IP20	**B Without	
	F Fx2000			C IP21		
	H Hx2000	4 Three-Phase 380-480[V]		X IP66		

*For Cx2000 230Vac Single-Phase & Sx2000 IP66 mentioned current is for HD rating.
 **Valid for Cx2000 series only.

Compact Series Cx2000



- Range: 0.1kW to 11kW
- Starting Torque 150% at 3 Hz
- Built-in Potentiometer
- Built-in PID
- Built-in Brake Control
- Conformal Coating complying to IEC 60721-3-3 class 3C2 (3C3 Avg.)
- Built-in RS485 Modbus RTU
- Built-in Braking Chopper upto 11kW
- Interface : 5DI, 1DO(R), 1AI (V/I), 1AO

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230Vac	Cx2000 VVVF 230V 1Ph Drive 0.10 kW (HD)	LTVF-C10001BAA	*
	Cx2000 VVVF 230V 1Ph Drive 0.20 kW (HD)	LTVF-C10002BAA	*
	Cx2000 VVVF 230V 1Ph Drive 0.40 kW (HD)	LTVF-C10003BAA	*
	Cx2000 VVVF 230V 1Ph Drive 0.75 kW (HD)	LTVF-C10005BAA	*
	Cx2000 VVVF 230V 1Ph Drive 1.50 kW (HD)	LTVF-C10008BAA	*
	Cx2000 VVVF 230V 1Ph Drive 2.20 kW (HD)	LTVF-C10011BAA	*
Three Phase 230Vac	Cx2000 VVVF 230V 3Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-C20003BAA	*
	Cx2000 VVVF 230V 3Ph Drive 0.75 kW (HD) / 1.1 kW (ND)	LTVF-C20006BAA	*
	Cx2000 VVVF 230V 3Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-C20010BAA	*
	Cx2000 VVVF 230V 3Ph Drive 2.2 kW (HD) / 3.0 kW (ND)	LTVF-C20012BAA	*
	Cx2000 VVVF 230V 3Ph Drive 3.7 kW (HD) / 4.0 kW (ND)	LTVF-C20018BAA	*
Three Phase 415Vac	Cx2000 VVVF 415V Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-C40002BAA	*
	Cx2000 VVVF 415V Drive 0.75 kW (HD) / 1.1 kW (ND)	LTVF-C40003BAA	*
	Cx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	LTVF-C40005BAA	*
	Cx2000 VVVF 415V Drive 2.20 kW (HD) / 3.70 kW (ND)	LTVF-C40007BAA	*
	Cx2000 VVVF 415V Drive 3.70 kW (HD) / 4.0 kW (ND)	LTVF-C40010BAA	*
	Cx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	LTVF-C40016BAA	*
	Cx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	LTVF-C40023BAA	*

Note: * For prices please contact nearest branch office

1) Cx2000 has model without built-in keypad for which external LED keypad (LTOP-DOP-50) is used which comes with default 3m cable.

Smart Series Sx2000



- Range: 0.75kW to 90kW
- Starting Torque: 150% at 3 Hz for V/F, 200% at 0.5Hz for Vector Control
- Built-in Brake Control
- Built-in PLC functionality
- Peer to Peer Communication to share I/O's
- Conformal Coating complying to IEC 60721-3-3 class 3C2 (3C3 Avg.)
- Built-in RS485 Modbus RTU
- Component Life Monitor
- Built-in Braking Chopper till 30kW
- Interface :
Upto 30kW ND: 7DI, 2DO (R+T), 2AI (V & V/I), 1AO (V/I)
From 37kW ND: 7DI, 3DO (2R+T), 2AI (V & V/I), 2AO (V & V/I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230Vac	Sx2000 VVVF 230V 1Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S10003BAA	*
	Sx2000 VVVF 230V 1Ph Drive 0.75 kW (HD) / 1.5 kW (ND)	LTVF-S10006BAA	*
	Sx2000 VVVF 230V 1Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-S10010BAA	*
	Sx2000 VVVF 230V 1Ph Drive 2.2 kW (HD) / 3.70 kW (ND)	LTVF-S10012BAA	*
Three Phase 230Vac	Sx2000 VVVF 230V 3Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S20003BAA	*
	Sx2000 VVVF 230V 3Ph Drive 0.75 kW (HD) / 1.5 kW (ND)	LTVF-S20006BAA	*
	Sx2000 VVVF 230V 3Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-S20010BAA	*
	Sx2000 VVVF 230V 3Ph Drive 2.2 kW (HD) / 3.70 kW (ND)	LTVF-S20012BAA	*
	Sx2000 VVVF 230V 3Ph Drive 4.0 kW (HD) / 5.5 kW (ND)	LTVF-S20018BAA	*
	Sx2000 VVVF 230V 3Ph Drive 5.5 kW (HD) / 7.5 kW (ND)	LTVF-S20030BAA	*
	Sx2000 VVVF 230V 3Ph Drive 7.5 kW (HD) / 11 kW (ND)	LTVF-S20040BAA	*
	Sx2000 VVVF 230V 3Ph Drive 11 kW (HD) / 15 kW (ND)	LTVF-S20056BAA	*
	Sx2000 VVVF 230V 3Ph Drive 15 kW (HD) / 18.5 kW (ND)	LTVF-S20069BAA	*
	Sx2000 VVVF 415V Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S40002BAA	*
Three Phase 415Vac	Sx2000 VVVF 415V Drive 0.75 kW (HD) / 1.50 kW (ND)	LTVF-S40003BAA	*
	Sx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	LTVF-S40005BAA	*
	Sx2000 VVVF 415V Drive 2.20 kW (HD) / 3.7 kW (ND)	LTVF-S40007BAA	*
	Sx2000 VVVF 415V Drive 4.00 kW (HD) / 5.50 kW (ND)	LTVF-S40010BAA	*
	Sx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	LTVF-S40016BAA	*
	Sx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	LTVF-S40023BAA	*
	Sx2000 VVVF 415V Drive 11.0 kW (HD) / 15.0 kW (ND)	LTVF-S40030BAA	*
	Sx2000 VVVF 415V Drive 15.0 kW (HD) / 18.5 kW (ND)	LTVF-S40038BAA	*
	Sx2000 VVVF 415V Drive 18.5 kW (HD) / 22.0 kW (ND)	LTVF-S40044BAA	*
	Sx2000 VVVF 415V Drive 22.0 kW (HD) / 30.0 kW (ND)	LTVF-S40058BAA	*
	Sx2000 VVVF 415V Drive 30.0 kW (HD) / 37.0 kW (ND)	LTVF-S40075BAA	*
	Sx2000 VVVF 415V Drive 37.0 kW (HD) / 45.0 kW (ND)	LTVF-S40091BAA	*
	Sx2000 VVVF 415V Drive 45.0 kW (HD) / 55.0 kW (ND)	LTVF-S40107BAA	*
	Sx2000 VVVF 415V Drive 55.0 kW (HD) / 75.0 kW (ND)	LTVF-S40142BAA	*
	Sx2000 VVVF 415V Drive 75.0 kW (HD) / 90.0 kW (ND)	LTVF-S40169BAA	*

Note:

* For prices please contact nearest branch office

Drives are covered under HS code 8504 40 90 and are charged at 28% GST.

Smart Series Sx2000 IP66



- Range: 0.75 to 22kW (HD)
- V/F, Slip Compensation, Sensorless Vector Control
- Starting Torque: 150% at 3Hz, for V/F, 200% at 0.5Hz for Vector Control
- Conformal Coating complying to IEC 60721-3-3, Class 3C2 (3C3 Avg.)
- Built-in RS485 Modbus
- Peer to Peer communication to share I/Os
- Built-in Brake Control
- Built-in PLC functionality
- Component Life Monitor
- Built-in PID
- Built-in Braking Chopper
- Interface: 5DI, 1(R) DO + 1(TR) DO, 2AI, 1AO

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Sx2000 400V IP66 Drive 0.40 kW (HD)	LTVF-S40002XAA	*
	Sx2000 VVVF 415V IP66 Drive 0.75 kW (HD)	LTVF-S40003XAA	*
	Sx2000 400V IP66 Drive 1.50 kW (HD)	LTVF-S40005XAA	*
	Sx2000 400V IP66 Drive 2.20 kW (HD)	LTVF-S40007XAA	*
	Sx2000 400V IP66 Drive 4.00 kW (HD)	LTVF-S40010XAA	*
	Sx2000 VVVF 415V IP66 Drive 7.50 kW (HD)	LTVF-S40016XAA	*
	Sx2000 400V IP66 Drive 7.50 kW (HD)	LTVF-S40023XAA	*
	Sx2000 VVVF 415V IP66 Drive 15.0 kW (HD)	LTVF-S40030XAA	*
	Sx2000 400V IP66 Drive 15.0 kW (HD)	LTVF-S40038XAA	*
	Sx2000 400V IP66 Drive 18.5 kW (HD)	LTVF-S40044XAA	*
	Sx2000 400V IP66 Drive 22.0 kW (HD)	LTVF-S40058XAA	*
	Sx2000 VVVF 415V IP66 Drive 0.40 kW (HD)	LTVF-S40001XAA	*
	Sx2000 VVVF 415V IP66 Drive 1.50 kW (HD)	LTVF-S40004XAA	*
	Sx2000 VVVF 415V IP66 Drive 2.20 kW (HD)	LTVF-S40006XAA	*
	Sx2000 VVVF 415V IP66 Drive 4.00 kW (HD)	LTVF-S40009XAA	*
	Sx2000 VVVF 415V IP66 Drive 5.50 kW (HD)	LTVF-S40012XAA	*
	Sx2000 VVVF 415V IP66 Drive 11.0 kW (HD)	LTVF-S40024XAA	*
	Sx2000 VVVF 415V IP66 Drive 18.5 kW (HD)	LTVF-S40039XAA	*
	Sx2000 VVVF 415V IP66 Drive 22.0 kW (HD)	LTVF-S40045XAA	*

Note: * For prices please contact nearest branch office

Flexi Series Fx2000



- Range: 0.75kW to 375kW (HD)
- Ideal for Heavy Duty Application Crane, Winder, Textile Application, Plastic extruders
- Starting Torque: 250% at 0Hz for Closed Loop
- Built-in Crane & Wobulation Macros
- Winder Algorithm - Optional
- Conformal Coating complying to IEC 60721-3-3 class 3C2 (3C3 Avg.)
- Built-in RS485 Modbus RTU
- Built-in DC Reactor from 22kW to 280kW
- Built-in Braking Chopper till 30kW
- Interface : 8DI, 3DO (2R+1T), 2AI (V & I), 2AO (V & I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Fx2000 VVVF 415V Drive 0.75 kW (HD) / 1.50 kW (ND)	LTVF-F40004CAA	*
	Fx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	LTVF-F40006CAA	*
	Fx2000 VVVF 415V Drive 2.20 kW (HD) / 3.70 kW (ND)	LTVF-F40008CAA	*
	Fx2000 VVVF 415V Drive 3.70 kW (HD) / 4.00 kW (ND)	LTVF-F40012CAA	*
	Fx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	LTVF-F40016CAA	*
	Fx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	LTVF-F40024CAA	*
	Fx2000 VVVF 415V Drive 11.0 kW (HD) / 15.0 kW (ND)	LTVF-F40030CAA	*
	Fx2000 VVVF 415V Drive 15.0 kW (HD) / 18.5 kW (ND)	LTVF-F40039CAA	*
	Fx2000 VVVF 415V Drive 18.5 kW (HD) / 22.0 kW (ND)	LTVF-F40045CAA	*
	Fx2000 VVVF 415V Drive 22.0 kW (HD) / 30.0 kW (ND)	LTVF-F40061CAA	*
	Fx2000 VVVF 415V Drive 30.0 kW (HD) / 37.0 kW (ND)	LTVF-F40075CAA	*
	Fx2000 VVVF 415V Drive 37.0 kW (HD) / 45.0 kW (ND)	LTVF-F40091CAA	*
	Fx2000 VVVF 415V Drive 45.0 kW (HD) / 55.0 kW (ND)	LTVF-F40110CAA	*
	Fx2000 VVVF 415V Drive 55.0 kW (HD) / 75.0 kW (ND)	LTVF-F40152CAA	*
	Fx2000 VVVF 415V Drive 75.0 kW (HD) / 90.0 kW (ND)	LTVF-F40183CAA	*
	Fx2000 VVVF 415V Drive 90.0 kW (HD) / 110 kW (ND)	LTVF-F40223AAA	*
	Fx2000 VVVF 415V Drive 110 kW (HD) / 132 kW (ND)	LTVF-F40264AAA	*
	Fx2000 VVVF 415V Drive 132 kW (HD) / 160 kW (ND)	LTVF-F40325AAA	*
	Fx2000 VVVF 415V Drive 160 kW (HD) / 185 kW (ND)	LTVF-F40370AAA	*
	Fx2000 VVVF 415V Drive 185 kW (HD) / 220 kW (ND)	LTVF-F40432AAA	*
	Fx2000 VVVF 415V Drive 220 kW (HD) / 285 kW (ND)	LTVF-F40547AAA	*
	Fx2000 VVVF 415V Drive 285 kW (HD) / 315 kW (ND)	LTVF-F40613AAA	*
	Fx2000 VVVF 415V Drive 315 kW (HD) / 375 kW (ND)	LTVF-F40731AAA	*
	Fx2000 VVVF 415V Drive 375 kW (HD) / 450 kW (ND)	LTVF-F40877AAA	*

Note: * For prices please contact nearest branch office

AC Drives [8504]

HVAC Series Hx2000



- Range: 0.75 to 90kW
- V/F, Slip Compensation
- Built-in RTC for Scheduling
- Built-in EMC filter class C3
- Password Protection
- Multi-motor Control
- Built-in Payback Counter
- Dry Pump Detection
- Built-in 4 PID (1 Main & 3 EPID)
- Built-in RS485 Communication, BACnet, Modbus-RTU, Metasys N2
- Global Specification Compliant - CE, UL (Plenum Rated)
- Conformal Coating complying to IEC 60721-3-3, Class 3C2 (3C3 Avg.)
- Interface: 7DI, 6DO, 2AI, 2AO

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Hx2000 VVVF 415V Drive 0.75 kW (ND)	LTVF-H40002BAA	*
	Hx2000 VVVF 415V Drive 1.50 kW (ND)	LTVF-H40004BAA	*
	Hx2000 VVVF 415V Drive 2.20 kW (ND)	LTVF-H40006BAA	*
	Hx2000 VVVF 415V Drive 3.7 kW (ND)	LTVF-H40008BAA	*
	Hx2000 VVVF 415V Drive 5.50 kW (ND)	LTVF-H40012BAA	*
	Hx2000 VVVF 415V Drive 7.50 kW (ND)	LTVF-H40016BAA	*
	Hx2000 VVVF 415V Drive 11.0 kW (ND)	LTVF-H40024BAA	*
	Hx2000 VVVF 415V Drive 15.0 kW (ND)	LTVF-H40030BAA	*
	Hx2000 VVVF 415V Drive 18.5 kW (ND)	LTVF-H40038BAA	*
	Hx2000 VVVF 415V Drive 22.0 kW (ND)	LTVF-H40045BAA	*
	Hx2000 VVVF 415V Drive 30.0 kW (ND)	LTVF-H40061BAA	*
	Hx2000 VVVF 415V Drive 37.0 kW (ND)	LTVF-H40075BAA	*
	Hx2000 VVVF 415V Drive 45.0 kW (ND)	LTVF-H40091BAA	*
	Hx2000 VVVF 415V Drive 55.0 kW (ND)	LTVF-H40107BAA	*
	Hx2000 VVVF 415V Drive 75.0 kW (ND)	LTVF-H40142BAA	*
	Hx2000 VVVF 415V Drive 90.0 kW (ND)	LTVF-H40169BAA	*

Note: * For prices please contact nearest branch office

Accessories for AC Drives [8504]

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Cx2000	Cx2000 Digital Operator with 3m cable	LTOP-DOP-50	*
Sx2000	LCD Digital Operator	LTOP-DOP-200	*
	I/O Expansion Card for Sx2000	LTIO-EXP-S	*
	CANOpen Communication card	LTCI-CAN-S	*
	Profibus-DP Communication card	LTCI-PDP-S	*
	Ethernet IP - Modbus TCP Communication card	LTCI-ETH-S	*
Fx2000	LCD Digital Operator	LTOP-DOP-200	*
	I/O Expansion Card 1 for Fx2000	LTIO-EX1-F	*
	I/O Expansion Card 2 for Fx2000	LTIO-EX2-F	*
	Synchronization Option Card	LTCN-SYN-F	*
	Position control option card for Fx2000	LTCN-PCN-F	*
	Incremental card for Open collector and Line Driver Encoder	LTEN-INC-F	*
	Profibus-DP Communication Interface card	LTCI-PDP-F	*
	Application Development PLC Option card	LTAD-PLC-F	*
	CANOpen Communication Interface card	LTCI-CAN-F	*
	DeviceNet Communication Interface card	LTCI-DEN-F	*
	Ethernet IP/Modbus TCP Communication Interface card	LTCI-ETH-F	*
Hx2000	I/O Expansion Card 2 for Hx2000	LTIO-EXP2-H	*
	I/O Expansion Card for Hx2000	LTIO-EXP-H	*
DBU for Sx2000, Fx2000	Dynamic Braking Unit for 11 - 15kW	LTDBU-0150-4	*
	Dynamic Braking Unit for 18.5 - 22kW	LTDBU-0220-4	*
	Dynamic Braking Unit for 30 - 37kW	LTDBU-0370-4	*
	Dynamic Braking Unit for 45 - 55kW	LTDBU-0550-4	*
	Dynamic Braking Unit for 75kW	LTDBU-0750-4	*
	Dynamic Braking Unit for 220 - 375kW	LTDBU-2200-4	*

Note:

* For prices please contact nearest branch office

Drives are covered under HS code 8504 40 90 and are charged at 28% GST.

EMX4e 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



- 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
- Real time graphs of motor operating performance
- 384 event logs
- 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

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
EMX4e,24A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0024B-511	*	Built - In
EMX4e,42A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0042B-511	*	
EMX4e,52A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0052B-511	*	
EMX4e,64A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0064B-511	*	
EMX4e,69A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0069B-511	*	
EMX4e,105A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0105B-511	*	
EMX4e,115A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0115B-511	*	
EMX4e,135A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0135B-511	*	
EMX4e,184A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0184B-511	*	
EMX4e,200A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0200B-511	*	
EMX4e,229A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0229B-511	*	
EMX4e,250A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0250B-511	*	
EMX4e,352A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0352B-511	*	
EMX4e,397A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0397B-511	*	
EMX4e,410A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0410B-511	*	
EMX4e,550A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0550B-511	*	
EMX4e,580A,Main 200-525Vac,CTR 110-240Vac	EMX4e-0580B-511	*	

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
EMX4i,24A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0024B-511	*	Built - In
EMX4i,42A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0042B-511	*	
EMX4i,52A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0052B-511	*	
EMX4i,64A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0064B-511	*	
EMX4i,69A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0069B-511	*	
EMX4i,105A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0105B-511	*	
EMX4i,115A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0115B-511	*	
EMX4i,135A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0135B-511	*	
EMX4i,184A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0184B-511	*	
EMX4i,200A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0200B-511	*	
EMX4i,229A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0229B-511	*	
EMX4i,250A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0250B-511	*	
EMX4i,352A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0352B-511	*	
EMX4i,397A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0397B-511	*	
EMX4i,410A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0410B-511	*	
EMX4i,550A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0550B-511	*	
EMX4i,580A,Main 200-525Vac,CTR 110-240Vac	EMX4i-0580B-511	*	

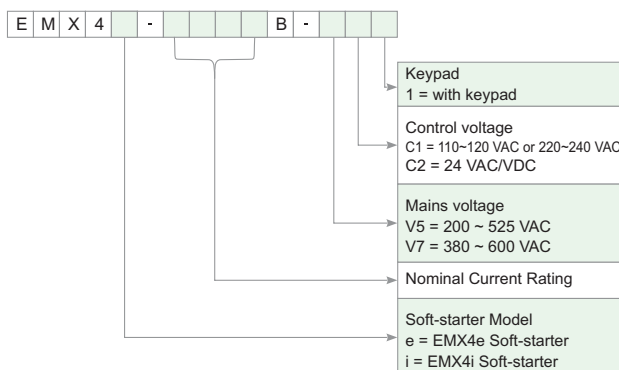
Optional Accessories for EMX4i and EMX4e

Description	Cat. No.	M.R.P. (₹) Per Unit
Remote Keypad Card, EMX4	PIC-RC-01	*
Remote Keypad Card & Keypad EMX4 with cable & mounting kit	PIC-RC-02	*
Remote Keypad, EMX4 with cable & mounting kit	PIC-RK-01	*
EMX4e/i Finger guard Kit,0184B-0580B,IP20	995-17309-00	*
Smart Control Card Pump Application,EMX4	SCC-PC-01	*
Modbus RTU Card, EMX4	PIC-MB-01	*
DeviceNet Card, EMX4	PIC-DN-01	*
Profibus Card, EMX4	PIC-PB-01	*
Modbus TCP Card, EMX4	PIC-MT-01	*
Ethernet IP Card, EMX4	PIC-EI-01	*
Profinet Card, EMX4	PIC-PN-01	*

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 I²T.

Ordering Information for **EMX3** Soft Starter



Note: * For prices please contact nearest branch office

EMX3 Soft Starters



EMX3 Cat. No.	Suitable for Motor with Rated Current in Amps [#]		M.R.P. (₹) Per Unit	Bypass Contactor
	3 Wire (Inline Connection)	6 Wire (Inside Delta Connection)		
EMX3-0023B-411	23	34	*	Built - In
EMX3-0043B-411	43	64	*	
EMX3-0053B-411	53	79	*	
EMX3-0076B-411	76	114	*	
EMX3-0097B-411	97	145	*	
EMX3-0105B-411	105	157	*	
EMX3-0145B-411	145	217	*	
EMX3-0170B-411	170	255	*	
EMX3-0220B-411	220	330	*	
EMX3-0255B-411	255	382	*	
EMX3-0350B-411	350	525	*	
EMX3-0425B-411	425	638	*	
EMX3-0500B-411	500	750	*	
EMX3-0580B-411	580	870	*	
EMX3-0700B-411	700	1050	*	
EMX3-0820B-411	820	1230	*	
EMX3-0920B-411	920	1380	*	
EMX3-1000B-411	1000	1500	*	

Note: * For prices please contact nearest branch office

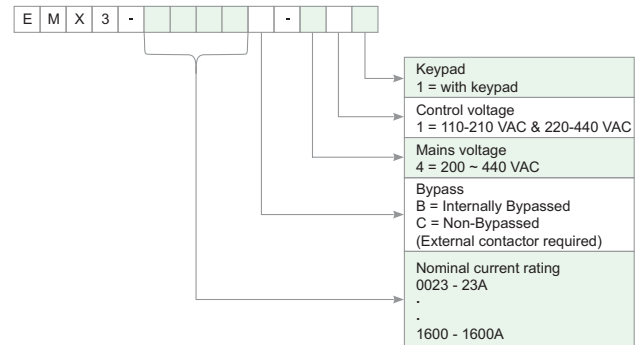
EMX3 Cat. No.	Suitable for Motor with Rated Current in Amps [#]		M.R.P. (₹) Per Unit	Bypass Contactor
	3 Wire (Inline Connection)	6 Wire (Inside Delta Connection)		
EMX3-0255C-411	255	382	*	Terminals for connecting External contactor (AC1 duty)
EMX3-0360C-411	360	540	*	
EMX3-0430C-411	400	645	*	
EMX3-0620C-411	620	930	*	
EMX3-0650C-411	650	975	*	
EMX3-0790C-411	790	1185	*	
EMX3-0930C-411	930	1395	*	
EMX3-1200C-411	1200	1800	*	
EMX3-1410C-411	1410	2115	*	
EMX3-1600C-411	1600	2400	*	
				* All protections remain active during bypass operation

Note: * For prices please contact nearest branch office

Note : The above EMX3 current ratings are based on 300% starting current, 10 starts per hour, 10 seconds starting time and ambient temperature of 45°C. For proper sizing of soft starter based on the application parameters please use Winstart Software. For Winstart software please contact Customer Interaction Centre.

Note: Soft Starters are covered under HS code 8504 40 90 and are charged at 28% GST.

Ordering Information for **EMX3** Soft Starter



EMX3 Soft Starters : For Heavy Duty Applications

- Ratings from 23 to 1600A
- Control Voltage from 94VAC to 484VAC
- Constant current
- XLR-8 Adaptive acceleration control for pumps
- Kickstart
- XLR-8 Adaptive deceleration control for pumps
- Forward / Reverse Jog
- Comprehensive motor protection
- Large LCD Keypad
- Auto Start / stop
- 2 motor data sets
- Fully programmable overload trip
- 5 digital inputs, 4 digital outputs, 1 analog output
- Built-in RTD & Thermistor inputs
- 99 event logs with time stamping
- Starter communication timeout
- Network communication trip
- Auto detection of inline or inside delta power connection
- Programmable auto start/stop
- 24 VDC auxiliary power supply
- Power through operation allows to run soft starter even with one SCR shorted
- Emergency run operation
- I/O expansion card (optional)

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 I²T.

Digital Soft Starters [8504]

CSX Soft Starters



CSXi Soft Starters



Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	CSX-007-41	*
15	CSX-015-41	*
18	CSX-018-41	*
22	CSX-022-41	*
30	CSX-030-41	*
37	CSX-037-41	*
45	CSX-045-41	*
55	CSX-055-41	*
75	CSX-075-41	*
90	CSX-090-41	*
110	CSX-110-41	*

Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	CSXi-007-41	*
15	CSXi-015-41	*
18	CSXi-018-41	*
22	CSXi-022-41	*
30	CSXi-030-41	*
37	CSXi-037-41	*
45	CSXi-045-41	*
55	CSXi-055-41	*
75	CSXi-075-41	*
90	CSXi-090-41	*
110	CSXi-110-41	*

Note: * For prices please contact nearest branch office

Note: The above CSX & CSXi ratings are based on 400% starting current, 10 starts per hour up to 30kW & 6 starts per hour for 37kW & above, 6 seconds starting time and ambient temperature of 45°C.

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

Optional Modules/Cards for CSX / CSXi / EMX3

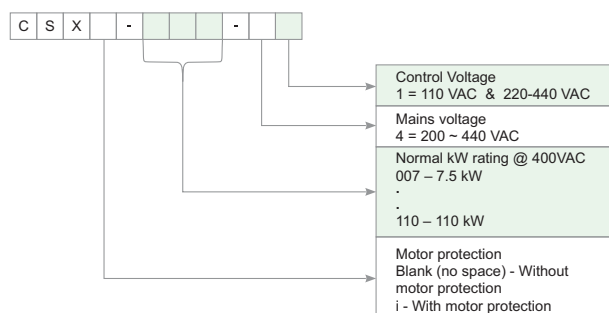


Description	Cat. No.	M.R.P. (₹) Per Unit
Modbus Interface	PIM-MB-01	*
Profibus Interface	PIM-PB-01	*
DeviceNet Interface	PIM-DN-01	*
USB Interface	PIM-USB-01	*
Modbus TCP Module	PIM-MT-01	*
Ethernet IP Module	PIM-EI-01	*
Profinet Module	PIM-PN-01	*
EMX3 RTD/Ground Fault Expansion Card	995-04804-00	*
EMX3 I/O Expansion Card	995-04803-00	*
DeviceNet Card, EMX4	PIC-DN-01	*
Ethernet IP Card, EMX4	PIC-EI-01	*
Modbus RTU Card, EMX4	PIC-MB-01	*
Modbus TCP Card, EMX4	PIC-MT-01	*
Profibus Card, EMX4	PIC-PB-01	*
Profinet Card, EMX4	PIC-PN-01	*
Remote Keypad Card, EMX4	PIC-RC-01	*
Remote Keypad Card & Keypad EMX4	PIC-RC-02	*
Remote Keypad, EMX4 with cable & mountin	PIC-RK-01	*
Smart Control Card Pump Application, EMX4	SCC-PC-01	*

Note: * For prices please contact nearest branch office

Note: Soft Starters are covered under HS code 8504 40 90 and are charged at 28% GST.

Ordering Information for **CSX** Series Soft Starter



CSX Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact
- Complements existing motor protection
- Truly plug & play
- Communication options available

CSXi 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

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 I²T.

PLC

Features:

- Processing speed: 0.06 μ s/step
- Expandable upto 10 modules
- Built-in Function: RTC, HSC, PTO, PID, Interrupt, Analog I/O
- Various communication Interface: Built-in USB / RS-232C / RS-485 / Ethernet, optional other communication modules
- Built-in Web-server, E-mail
- EtherCAT based motion control modules with Virtual Axis
- Built-in SD Card interface
- Smart Remote IO



Range:

- Up to 352 local I/O points
- Up to 5728 remote I/O points

HMI



Range:

- Text Display
- 4" ~ 15" TFT color LCD

Features:

- Large Memory: Upto 128MB display data and 1MB back-up memory
- Various Communication Interface: Ethernet / RS-232C / RS-422/485
- USB host and device
- SD memory card interface
- Web server / Data monitoring
- Remote controlling and monitoring
- Presence sensor (within 1m)
- Sound Output

Servo

Features:

- Absolute encoder (standard)
- 1.6 kHz Frequency response
- Serial communication (RS-422/485, Modbus)
- Supports various operation modes (CSP, CSV, CST, PP, PV, PT, HM, IP, etc.)
- Safe-torque off function
- 4-step notch filter
- 2-step vibration suppression filter at the load position
- FFT function for real-time frequency analysis
- Scalable analog output



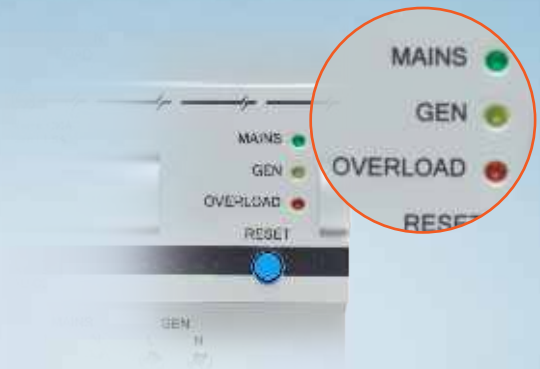
Range:

- Capacity: 0.1kW to 15kW
- Voltage: 200Vac / 400Vac
- Speed: 1500rpm / 3000rpm
- Control: Pulse/Analog or Network

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

Experience the most robust performance of Single Phase ACCL



LED Indication

Different LED colors for clear differentiation between Mains ON, Genset ON and Genset Overload

Reset Button

To Restore the supply to load, after non essential loads are switched off

Automatic Changeover with Current Limiter

- Reliable advanced micro-controller based design for measuring and controlling output
- Assured trouble free performance through rigorous 18 quality checks
- Extensively tested for Indian field conditions



Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.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 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
- 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	330	BB10E50D	335
1A	1	-	-	BB10010C	330	BB10010D	335
2A	1	-	-	BB10020C	330	BB10020D	335
3A	1	-	-	BB10030C	330	BB10030D	335
4A	1	-	-	BB10040C	330	BB10040D	335
6A	1	BB10060B	216	BB10060C	216	BB10060D	285
10A	1	BB10100B	216	BB10100C	216	BB10100D	285
16A	1	BB10160B	216	BB10160C	216	BB10160D	285
20A	1	BB10200B	216	BB10200C	216	BB10200D	285
25A	1	BB10250B	216	BB10250C	216	BB10250D	285
32A	1	BB10320B	216	BB10320C	216	BB10320D	285
40A	1	BB10400B	490	BB10400C	490	BB10400D	515
50A	1	BB10500B	490	BB10500C	490	BB10500D*	515
63A	1	BB10630B	490	BB10630C	490	BB10630D*	515



Double Pole (DP)							
0.5A	2	-	-	BB20E50C	900	BB20E50D	915
1A	2	-	-	BB20010C	900	BB20010D	915
2A	2	-	-	BB20020C	900	BB20020D	915
3A	2	-	-	BB20030C	900	BB20030D	915
4A	2	-	-	BB20040C	900	BB20040D	915
6A	2	BB20060B	675	BB20060C	675	BB20060D	695
10A	2	BB20100B	675	BB20100C	675	BB20100D	695
16A	2	BB20160B	675	BB20160C	675	BB20160D	695
20A	2	BB20200B	675	BB20200C	675	BB20200D	695
25A	2	BB20250B	675	BB20250C	675	BB20250D	695
32A	2	BB20320B	675	BB20320C	675	BB20320D	695
40A	2	BB20400B	1090	BB20400C	1090	BB20400D	1130
50A	2	BB20500B	1090	BB20500C	1090	BB20500D*	1130
63A	2	BB20630B	1090	BB20630C	1090	BB20630D*	1130



Three Pole (TP)							
0.5A	3	-	-	BB30E50C	1265	BB30E50D	1280
1A	3	-	-	BB30010C	1265	BB30010D	1280
2A	3	-	-	BB30020C	1265	BB30020D	1280
3A	3	-	-	BB30030C	1265	BB30030D	1280
4A	3	-	-	BB30040C	1265	BB30040D	1280
6A	3	BB30060B	1100	BB30060C	1100	BB30060D	1130
10A	3	BB30100B	1100	BB30100C	1100	BB30100D	1130
16A	3	BB30160B	1100	BB30160C	1100	BB30160D	1130
20A	3	BB30200B	1100	BB30200C	1100	BB30200D	1130
25A	3	BB30250B	1100	BB30250C	1100	BB30250D	1130
32A	3	BB30320B	1100	BB30320C	1100	BB30320D	1130
40A	3	BB30400B	1695	BB30400C	1695	BB30400D	1755
50A	3	BB30500B	1695	BB30500C	1695	BB30500D*	1755
63A	3	BB30630B	1695	BB30630C	1695	BB30630D*	1755

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

* For details, please contact L&T 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	1740	BB40E50D	1760
1A	4	-	-	BB40010C	1740	BB40010D	1760
2A	4	-	-	BB40020C	1740	BB40020D	1760
3A	4	-	-	BB40030C	1740	BB40030D	1760
4A	4	-	-	BB40040C	1740	BB40040D	1760
6A	4	BB40060B	1490	BB40060C	1490	BB40060D	1505
10A	4	BB40100B	1490	BB40100C	1490	BB40100D	1505
16A	4	BB40160B	1490	BB40160C	1490	BB40160D	1505
20A	4	BB40200B	1490	BB40200C	1490	BB40200D	1505
25A	4	BB40250B	1490	BB40250C	1490	BB40250D	1505
32A	4	BB40320B	1490	BB40320C	1490	BB40320D	1505
40A	4	BB40400B	2115	BB40400C	2115	BB40400D	2170
50A	4	BB40500B	2115	BB40500C	2115	BB40500D*	2170
63A	4	BB40630B	2115	BB40630C	2115	BB40630D*	2170

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

DC MCBs as per IEC 60947-2 [8536]

Rated Voltage:130V DC (for SP), 250V DC (for DP)
with breaking capacity of 6 kA

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole			
0.5A	1	BB10E5DC	485
1A	1	BB1001DC	485
2A	1	BB1002DC	485
3A	1	BB1003DC	485
4A	1	BB1004DC	485
6A	1	BB1006DC	415
10A	1	BB1010DC	415
16A	1	BB1016DC	415
20A	1	BB1020DC	415
25A	1	BB1025DC	415
32A	1	BB1032DC	415
40A	1	BB1040DC	540
50A	1	BB1050DC	540
63A	1	BB1063DC	540

Double Pole

0.5A	2	BB20E5DC	985
1A	2	BB2001DC	985
2A	2	BB2002DC	985
3A	2	BB2003DC	985
4A	2	BB2004DC	985
6A	2	BB2006DC	865
10A	2	BB2010DC	865
16A	2	BB2016DC	865
20A	2	BB2020DC	865
25A	2	BB2025DC	865
32A	2	BB2032DC	865
40A	2	BB2040DC	1160
50A	2	BB2050DC	1160
63A	2	BB2063DC	1160

Rated Voltage:250V DC (for SP), 500V DC (for DP)
with breaking capacity of 10 kA

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

Double Pole

0.5A	2	BJ20E5DC	*
1A	2	BJ2001DC	*
2A	2	BJ2002DC	*
3A	2	BJ2003DC	*
4A	2	BJ2004DC	*
6A	2	BJ2006DC	*
10A	2	BJ2010DC	*
16A	2	BJ2016DC	*
20A	2	BJ2020DC	*
25A	2	BJ2025DC	*
32A	2	BJ2032DC	*
40A	2	BJ2040DC	*

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos.
* For details, please contact L&T branch office

Auxiliary & Accessories for MCBs [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit
Auxiliary Contact - 6A , 240V AC, (1NO+1NC), 0.5 Mod	BZA11006	705
Shunt Release - 240V AC, 1 Mod	BZS00240	1880
Trip Alarm Contact - 6A, 240V AC, (1NO+1NC), 0.5 Mod	BZT11006	820

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

Range Highlights

- Short circuit Breaking Capacity - 15kA (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	Module	C Curve Cat. No.	M.R.P. (₹) Per Unit
Single Pole			
80A	1.5	AU15S10803C	1975
100A	1.5	AU15S11003C	2210
125A	1.5	AU15S11253C	2380

Two Pole			
80A	3	AU15S20803C	4370
100A	3	AU15S21003C	4665
125A	3	AU15S21253C	5135

Three Pole			
80A	4.5	AU15S30803C	6900
100A	4.5	AU15S31003C	7355
125A	4.5	AU15S31253C	8160

Four Pole			
80A	6	AU15S40803C	9010
100A	6	AU15S41003C	9375
125A	6	AU15S41253C	10605



D Curve Cat. No.	M.R.P. (₹) Per Unit
AU15S10803D	2090
AU15S11003D	2345
AU15S11253D	2535

AU15S20803D	4645
AU15S21003D	4955
AU15S21253D	5445

AU15S30803D	7325
AU15S31003D	7805
AU15S31253D	8655

AU15S40803D	9545
AU15S41003D	9950
AU15S41253D	11255

Residual Current Circuit Breaker (RCCB) [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 300 mA sensitivity
- Truly current operated - operation even at nominal voltage
- Operates on Core Balance Current Transformer (CBCT) principle
- Operation even in case of neutral failure
- 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	2405
	100 mA	2	BG202510	2520
	300 mA	2	BG202530	2520
40A	30 mA	2	BG204003	2720
	100 mA	2	BG204010	2880
	300 mA	2	BG204030	2880
63A	30 mA	2	BG206303	3390
	100 mA	2	BG206310	3475
	300 mA	2	BG206330	3475
100A	30 mA	2	BG210003	5950
	100 mA	2	BG210010	6030
	300 mA	2	BG210030	6030

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Four Pole (FP)				
25A	30 mA	4	BG402503	3185
	100 mA	4	BG402510	3300
	300 mA	4	BG402530	3300
40A	30 mA	4	BG404003	3195
	100 mA	4	BG404010	3350
	300 mA	4	BG404030	3350
63A	30 mA	4	BG406303	3670
	100 mA	4	BG406310	3850
	300 mA	4	BG406330	3850
100A	30 mA	4	BG410003	6435
	100 mA	4	BG410010	6550
	300 mA	4	BG410030	6550

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	Module	CAT Nos.	M.R.P. (₹) Per Unit
2P Adi				
25A	30mA	2	AURAD202503	3915
	100mA	2	AURAD202510	4095
	300mA	2	AURAD202530	4095
40A	30mA	2	AURAD204003	4160
	100mA	2	AURAD204010	4225
	300mA	2	AURAD204030	4225
63A	30mA	2	AURAD206303	4855
	100mA	2	AURAD206310	4950
	300mA	2	AURAD206330	4950
100A	30mA	2	AURAD210003	7180



Rating	Sensitivity	Module	CAT Nos.	M.R.P. (₹) Per Unit
4P Adi				
25A	30mA	4	AURAD402503	4730
	100mA	4	AURAD402510	4825
	300mA	4	AURAD402530	4825
40A	30mA	4	AURAD404003	4910
	100mA	4	AURAD404010	4995
	300mA	4	AURAD404030	4995
63A	30mA	4	AURAD406303	5350
	100mA	4	AURAD406310	5460
	300mA	4	AURAD406330	5460
100A	30mA	4	AURAD410003	8520
	300mA	4	AURAD410030	8520

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	400	3	BF304000	705	4	BF404000	920
63A	2	BF206300	515	3	BF306300	815	4	BF406300	935
80A	2	BF208000	655	3	BF308000	900	4	BF408000	1060
100A	2	BF210000	690	3	BF310000	910	4	BF410000	1125

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

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 - I_{max} up to 70kA
- Type 1+2 : Protection against direct and indirect lightning surges
 - Maximum Discharge Current - I_{max} up to 100kA



Extend SPD life with
Spare Cartridges

Description	Configuration	Module	Cat. No.	M.R.P. (₹) Per Unit
Type 1+2, I _{max} 50kA	1P+N	2	AUSP121PN50	10800
	3P+N	4	AUSP123PN50	21200
Type 2, I _{max} 40kA	1P+N	1	AUSP021PN40	7500
	3P+N	2	AUSP023PN40	15000
Type 2, I _{max} 15kA	1P+N	1	AUSP021PN15	6000
	3P+N	2	AUSP023PN15	11800
Type 1+2, I _{max} 100kA	1P+N	2	AUSP121PN100	12000
	3P+N	4	AUSP123PN100	22000
Type 2, I _{max} 70kA	1P+N	2	AUSP021PN70	12000
	3P+N	4	AUSP023PN70	20000

New	Description	Cat. No.	M.R.P. (₹) Per Unit
	Cartridge for AUSP021PN15	AUSC021PN15	1800
	Cartridge for AUSP021PN40	AUSC021PN40	2250
	Cartridge for AUSP021PN70 / AUSP023PN70	AUSC021PN70	2400
	Cartridge for AUSP023PN15	AUSC023PN15	2360
	Cartridge for AUSP023PN40	AUSC023PN40	3000
	Cartridge for AUSP121PN100 / AUSP123PN100	AUSC121PN100	3600
	Cartridge for AUSP121PN50 / AUSP123PN50	AUSC121PN50	3455

RCBOs (Residual Current Breaker with Overcurrent Protection) [8536]

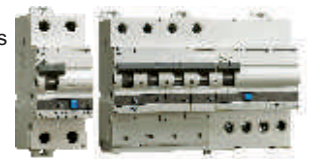
Range Highlights*

- 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

Type-AC

Rating	Sensitivity	Module	CAT Nos.	M.R.P. (₹) Per Unit
2P AC				
6A	10mA	2	AUF3C200601	3625
	30mA	2	AUF3C200603	3625
	100mA	2	AUF3C200610	3705
	300mA	2	AUF3C200630	3725
10A	10mA	2	AUF3C201001	3625
	30mA	2	AUF3C201003	3625
	100mA	2	AUF3C201010	3705
	300mA	2	AUF3C201030	3725
16A	10mA	2	AUF3C201601	3625
	30mA	2	AUF3C201603	3625
	100mA	2	AUF3C201610	3705
	300mA	2	AUF3C201630	3725
20A	30mA	2	AUF3C202003	3625
	100mA	2	AUF3C202010	3705
	300mA	2	AUF3C202030	3725
25A	30mA	2	AUF3C202503	3625
	100mA	2	AUF3C202510	3705
	300mA	2	AUF3C202530	3725
32A	30mA	2	AUF3C203203	3625
	100mA	2	AUF3C203210	3705
	300mA	2	AUF3C203230	3725
40A	30mA	2	AUF3C204003	3625
	100mA	2	AUF3C204010	3705
	300mA	2	AUF3C204030	3725
63A	30mA	4	AUF3C206303	4650
	100mA	4	AUF3C206310	4925
	300mA	4	AUF3C206330	4965
4P AC				
16A	30mA	7.5	AUF3C401603	4205
	100mA	7.5	AUF3C401610	4675
	300mA	7.5	AUF3C401630	4770
20A	30mA	7.5	AUF3C402003	4205
	100mA	7.5	AUF3C402010	4675
	300mA	7.5	AUF3C402030	4770
25A	30mA	7.5	AUF3C402503	4205
	100mA	7.5	AUF3C402510	4675
	300mA	7.5	AUF3C402530	4770
32A	30mA	7.5	AUF3C403203	4340
	100mA	7.5	AUF3C403210	4680
	300mA	7.5	AUF3C403230	4780
40A	30mA	7.5	AUF3C404003	4405
	100mA	7.5	AUF3C404010	4680
	300mA	7.5	AUF3C404030	4795
63A	30mA	7.5	AUF3C406303	5280
	100mA	7.5	AUF3C406310	5385
	300mA	7.5	AUF3C406330	5385
80A	30mA	12	AUF3C408003	19340
	100mA	12	AUF3C408010	19770
	300mA	12	AUF3C408030	19770
100A	30mA	12	AUF3C410003	20675
	100mA	12	AUF3C410010	21170
	300mA	12	AUF3C410030	21170

- 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-Adi

Rating	Sensitivity	Module	CAT Nos.	M.R.P. (₹) Per Unit
2P Adi				
6A	30mA	2	AUF3D200603	4660
	100mA	2	AUF3D200610	5130
	300mA	2	AUF3D200630	5320
10A	30mA	2	AUF3D201003	4660
	100mA	2	AUF3D201010	5130
	300mA	2	AUF3D201030	5320
16A	30mA	2	AUF3D201603	4660
	100mA	2	AUF3D201610	5130
	300mA	2	AUF3D201630	5320
20A	30mA	2	AUF3D202003	4660
	100mA	2	AUF3D202010	5130
	300mA	2	AUF3D202030	5320
25A	30mA	2	AUF3D202503	4660
	100mA	2	AUF3D202510	5130
	300mA	2	AUF3D202530	5320
32A	30mA	2	AUF3D203203	4660
	100mA	2	AUF3D203210	5130
	300mA	2	AUF3D203230	5320
40A	30mA	2	AUF3D204003	4660
	100mA	2	AUF3D204010	5130
	300mA	2	AUF3D204030	5320
63A	30mA	4	AUF3D206303	5815
	100mA	4	AUF3D206310	6155
	300mA	4	AUF3D206330	6205
4P Adi				
16A	30mA	7.5	AUF3D401603	5255
	100mA	7.5	AUF3D401610	5845
	300mA	7.5	AUF3D401630	5965
20A	30mA	7.5	AUF3D402003	5255
	100mA	7.5	AUF3D402010	5845
	300mA	7.5	AUF3D402030	5965
25A	30mA	7.5	AUF3D402503	5255
	100mA	7.5	AUF3D402510	5845
	300mA	7.5	AUF3D402530	5965
32A	30mA	7.5	AUF3D403203	5425
	100mA	7.5	AUF3D403210	5850
	300mA	7.5	AUF3D403230	5975
40A	30mA	7.5	AUF3D404003	5505
	100mA	7.5	AUF3D404010	5850
	300mA	7.5	AUF3D404030	5995
63A	30mA	7.5	AUF3D406303	6600
	100mA	7.5	AUF3D406310	6730
	300mA	7.5	AUF3D406330	6730
80A	30mA	12	AUF3D408003	19340
	100mA	12	AUF3D408010	19770
	300mA	12	AUF3D408030	19770
100A	30mA	12	AUF3D410003	20675
	100mA	12	AUF3D410010	21170
	300mA	12	AUF3D410030	21170

* For technical details, please contact L&T branch office

Single Phase - ACCL [8536]

Automatic Changeover with Current Limiter

Range Highlights

- Conforms to IEC 60947-6, IEC 60947-3
- Wide Range of Current Ratings
 - (Generator side) - 1.5A to 30A
 - (Electricity Board side) - 30A
- RoHS compliant



Description	Module	CAT Nos.	M.R.P. (₹) Per Unit
30A/1.5A	4	AUCL010301E5	1935
30A/2.5A	4	AUCL010302E5	1935
30A/3A	4	AUCL01030003	1935
30A/4A	4	AUCL01030004	1935
30A/5A	4	AUCL01030005	1935
30A/6A	4	AUCL01030006	1935
30A/8A	4	AUCL01030008	1935
30A/10A	4	AUCL01030010	1935
30A/12A	4	AUCL01030012	1935
30A/15A	4	AUCL01030015	1935
30A/20A	4	AUCL01030020	1935
30A/30A	4	AUCL01030030*	1935

* Non-current limiting variant

Modular Contactors [8536]

Range Highlights

- Wide Range of Current Ratings:
 - 25A, 40A and 63A
- Conforms to:
 - IEC 61095, EN 61095
 - IEC 60497-4-1, EN 60497-4-1
 - IEC 60497-5-1
- Protection Degree IP 20



Description (AC-1)	Module	Cat. No.	M.R.P. (₹) Per Unit
25A-1NO	1	AUMC1002501	1340
25A-2NO	1	AUMC2002501	1670
40A-2NO	3	AUMC2004003	2870
40A-3NO	3	AUMC3004003	4010
40A-4NO	3	AUMC4004003	4800
63A-2NO+2NC	3	AUMC2206303	5100
63A-3NO	3	AUMC3006303	5200
63A-4NO	3	AUMC4006303	5720
Accessory [8538]			
Auxiliary Contact, 2NO	0.5	AUMCAUX240	1600

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	Module	Cat. No.	M.R.P. (₹) Per Unit
Double Pole			
25A	2	AUC00202500	1405
40A	2	AUC00204000	2155
63A	3	AUC00206300	2505
Four Pole			
40A	4	AUC00404000	3710
63A	6	AUC00406300	4210

Indicating Lights [8531]



Description	Module	Cat. No.	M.R.P. (₹) Per Unit
RED	1	AUIL01RED00	830
YELLOW	1	AUIL01YEL00	830
BLUE	1	AUIL01BLU00	830
GREEN	1	AUIL01GRE00	830
RED-YELLOW-BLUE	1	AUIL01RYB00	1005

Time Switches [9107]



Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Analog time switch	1	AUTS01ANA00	3750
Analog time switch	3	AUTS03ANA00	4560
Digital time switch	2	AUTS02DIG00	2870
Astro time switch	2	AUTS02AST00	4820

Accessories [8538]



All Half Module and One Module Accessories are common for 80A-125A MCBs, RCBOs and Adi RCCBs

Description	Configuration	Module	Voltage	CAT Nos.	M.R.P. (₹) Per Unit
Auxiliary Contact	1NO+1NC	0.5	240V AC, 24V DC	AUAXAC240	735
AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	AUATAC240	865
Undervoltage Release	-	1	240V AC	AUUVAC240	1755
	-	1	24V DC	AUUVDC024	1755
Overvoltage Release	-	1	240V AC	AUOVAC240	2155
Shunt Release	-	1	240V AC	AUSRAC240	2005
	-	1	24V DC	AUSRDC024	2005
Padlock-Suitable for Lock Hasp 3.5 - 5 mm dia. max	Suitable for 1Pole=1Mod devices: RCCBs, RCBOs, Changeover Switches up to 40A			AUPD01	405
	Suitable for 1Pole-1.5Mod devices: MCBs 80A-125A, Changeover Switch 63A			AUPD02	455

Note: Standard Pack Quantity for Padlock - 2 Nos.

* For 80A-125A MCBs please contact nearest L&T branch

Energy Meters [9030]

Range Highlights

- Communication with additional RS485 & WiFi module
- Class 1 accuracy
- Direct current operated meter
- Reverse current indication for three-phase meter



Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Single Phase (5-40A)	2	WD4000101000	2035
Three Phase (10-60A)	7	WD4000103000	4620

Specially Designed

Distribution Board suitable for Aluminum shuttering (Mivan) Construction

New



> Scan or click to play video



SPN DBs [8537]

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 outgoing

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer + Outgoing			
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 [8537]

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 | 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 MCBs as outgoing

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer + Outgoing			
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 L&T branch office

Highlights

- Conforms to IS 8623-1 & 3, 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 outgoing



IP 30 - Single Door

IP 43 - Metal Door

IP 43 - Glazed Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer + Outgoing			
IP 30 - Single Door				
4 way	2	2	DBSPN004SD	985
6 way	2	4	DBSPN006SD	1075
8 way	2	6	DBSPN008SD	1240
12 way	2	10	DBSPN012SD	1470
16 way	2	14	DBSPN016SD	1815
18 way	2	16	DBSPN018SD	2295
IP 43 - Metal Door				
4 way	2	2	DBSPN004DD	1355
6 way	2	4	DBSPN006DD	1560
8 way	2	6	DBSPN008DD	1675
12 way	2	10	DBSPN012DD	2020
16 way	2	14	DBSPN016DD	2530
18 way	2	16	DBSPN018DD	3300
IP 43 - Glazed Door				
4 way	2	2	DBSPN004GD	1700
6 way	2	4	DBSPN006GD	1810
8 way	2	6	DBSPN008GD	1975
12 way	2	10	DBSPN012GD	2390
16 way	2	14	DBSPN016GD	2970
18 way	2	16	DBSPN018GD	3445
IP 54 - Metal Door				
4 way	2	2	DBSPN00454	4200
6 way	2	4	DBSPN00654	4685
8 way	2	6	DBSPN00854	4940
12 way	2	10	DBSPN01254	5705
16 way	2	14	DBSPN01654	6315
18 way	2	16	DBSPN01854	6765

Highlights

- Conforms to IS 8623-1 & 3, 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 SP MCBs as outgoing



IP 30 - Single Door

IP 43 - Metal Door

IP 43 - Glazed Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	4	4+4+4	DBTPE004SD	2545
6 way	4	6+6+6	DBTPE006SD	3125
4 way	8	4+4+4	DBTPN004SD	2730
6 way	8	6+6+6	DBTPN006SD	3365
8 way	8	8+8+8	DBTPN008SD	3960
12 way	8	12+12+12	DBTPN012SD	5865
16 way	8	16+16+16	DBTPN016SD	7225
IP 43 - Metal Door				
4 way	4	4+4+4	DBTPE004DD	3105
6 way	4	6+6+6	DBTPE006DD	3830
4 way	8	4+4+4	DBTPN004DD	3310
6 way	8	6+6+6	DBTPN006DD	4085
8 way	8	8+8+8	DBTPN008DD	4890
12 way	8	12+12+12	DBTPN012DD	7325
16 way	8	16+16+16	DBTPN016DD	9030
IP 43 - Glazed Door				
4 way	4	4+4+4	DBTPE004GD	3965
6 way	4	6+6+6	DBTPE006GD	4895
4 way	8	4+4+4	DBTPN004GD	4230
6 way	8	6+6+6	DBTPN006GD	5215
8 way	8	8+8+8	DBTPN008GD	6255
12 way	8	12+12+12	DBTPN012GD	9595
16 way	8	16+16+16	DBTPN016GD	11515
IP 54 - Metal Door				
4 way	4	4+4+4	DBTPE00454	9940
6 way	4	6+6+6	DBTPE00654	12260
4 way	8	4+4+4	DBTPN00454	10465
6 way	8	6+6+6	DBTPN00654	12595
8 way	8	8+8+8	DBTPN00854	13775
12 way	8	12+12+12	DBTPN01254	19415
16 way	8	16+16+16	DBTPN01654	23305

Highlights

- Conforms to IS 8623-1 & 3, 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 outgoing

**Horizontal PPI DBs****IP 43 - Metal Door**

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	DBHPI004DD	5345
6 way	8	2+2+2	6+6+6	DBHPI006DD	6385
8 way	8	2+2+2	8+8+8	DBHPI008DD	7590
12 way	8	2+2+2	12+12+12	DBHPI012DD	10375
16 way	8	2+2+2	16+16+16	DBHPI016DD	12450
IP 54 - Metal Door					
4 way	8	2+2+2	4+4+4	DBHPI00454	12535
6 way	8	2+2+2	6+6+6	DBHPI00654	14935
8 way	8	2+2+2	8+8+8	DBHPI00854	16495
12 way	8	2+2+2	12+12+12	DBHPI01254	22515
16 way	8	2+2+2	16+16+16	DBHPI01654	26775

**Tier PPI DBs****IP 43 - Metal Door**

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	DBTPI006DD	7210
8 way	8	2+2+2	8+8+8	DBTPI008DD	9045
10 way	8	2+2+2	10+10+10	DBTPI010DD	9485
12 way	8	2+2+2	12+12+12	DBTPI012DD	10320
16 way	8	2+2+2	16+16+16	DBTPI016DD	10865
12 way	MCCB*	2+2+2	12+12+12	DBTPL012DD	10750
IP 54 - Metal Door					
6 way	8	2+2+2	6+6+6	DBTPI00654	11850
8 way	8	2+2+2	8+8+8	DBTPI00854	14875
10 way	8	2+2+2	10+10+10	DBTPI01054	15605
12 way	8	2+2+2	12+12+12	DBTPI01254	16970
16 way	8	2+2+2	16+16+16	DBTPI01654	17870
12 way	MCCB*	2+2+2	12+12+12	DBTPL01254	17685

* Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

Highlights

- Conforms to IS 8623-1 & 3, 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 1. Modular Incomer - FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing
2. MCCB Incomer - MCCB* as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoing

**IP 30 - Single Door****IP 43 - Metal Door****With Modular Incomer**

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 30 - Single Door					
4 way	8	4+4+4	4+4+4	DBPSG004SD	7565
6 way	8	4+4+4	6+6+6	DBPSG006SD	8255
8 way	8	4+4+4	8+8+8	DBPSG008SD	8845
12 way	8	4+4+4	12+12+12	DBPSG012SD	10180
IP 43 - Metal Door					
4 way	8	4+4+4	4+4+4	DBPSG004DD	8620
6 way	8	4+4+4	6+6+6	DBPSG006DD	9720
8 way	8	4+4+4	8+8+8	DBPSG008DD	10845
12 way	8	4+4+4	12+12+12	DBPSG012DD	13580
IP 54 - Metal Door					
4 way	8	4+4+4	4+4+4	DBPSG00454	14315
6 way	8	4+4+4	6+6+6	DBPSG00654	16120
8 way	8	4+4+4	8+8+8	DBPSG00854	18005
12 way	8	4+4+4	12+12+12	DBPSG01254	22975

**IP 30 - Single Door****IP 43 - Metal Door****With MCCB Incomer**

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Sub-Incomer	Outgoing		
IP 30 - Single Door					
4 way	MCCB	4+4+4	4+4+4	DBPGL004SD	10895
6 way	MCCB	4+4+4	6+6+6	DBPGL006SD	12540
8 way	MCCB	4+4+4	8+8+8	DBPGL008SD	14405
12 way	MCCB	4+4+4	12+12+12	DBPGL012SD	16725
IP 43 - Metal Door					
4 way	MCCB	4+4+4	4+4+4	DBPGL004DD	12430
6 way	MCCB	4+4+4	6+6+6	DBPGL006DD	14220
8 way	MCCB	4+4+4	8+8+8	DBPGL008DD	16290
12 way	MCCB	4+4+4	12+12+12	DBPGL012DD	18545
IP 54 - Metal Door					
4 way	MCCB	4+4+4	4+4+4	DBPGL00454	20810
6 way	MCCB	4+4+4	6+6+6	DBPGL00654	23805
8 way	MCCB	4+4+4	8+8+8	DBPGL00854	27270
12 way	MCCB	4+4+4	12+12+12	DBPGL01254	31055

* Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

TPN Phase Selector DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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 3 nos. of 63A L&T rotary switches | 3 nos. of rocker switches for phase identification | 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | 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 outgoing



IP 30 - Single Door



IP 43 - Metal Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	8	4+4+4	DBPSR004SD	10475
6 way	8	6+6+6	DBPSR006SD	11135
8 way	8	8+8+8	DBPSR008SD	12340
10 way	8	10+10+10	DBPSR010SD	12800
12 way	8	12+12+12	DBPSR012SD	13545
IP 43 - Metal Door				
4 way	8	4+4+4	DBPSR004DD	11755
6 way	8	6+6+6	DBPSR006DD	11945
8 way	8	8+8+8	DBPSR008DD	12795
10 way	8	10+10+10	DBPSR010DD	13670
12 way	8	12+12+12	DBPSR012DD	14415
IP 54 - Metal Door				
4 way	8	4+4+4	DBPSR00454	15575
6 way	8	6+6+6	DBPSR00654	15825
8 way	8	8+8+8	DBPSR00854	16960
10 way	8	10+10+10	DBPSR01054	18115
12 way	8	12+12+12	DBPSR01254	19095

Flexi/Row DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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 - neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | cable ties | blanking plates and circuit identification labels
- With provision to mount modular devices as per requirement



IP 30 - Single Door



IP 43 - Metal Door



IP 43 - Glazed Door

Description	No. of Modules Per Row	Cat. Nos.	M.R.P. (₹) Per Unit
IP 30 - Single Door			
2 Row 28 Module	14	DBROW228SD	3445
3 Row 42 Module	14	DBROW342SD	4135
4 Row 56 Module	14	DBROW456SD	4735
4 Row 64 Module	16	DBROW464SD	5320
IP 43 - Metal Door			
2 Row 28 Module	14	DBROW228DD	3885
3 Row 42 Module	14	DBROW342DD	4665
4 Row 56 Module	14	DBROW456DD	5345
4 Row 64 Module	16	DBROW464DD	6000
IP 43 - Glazed Door			
2 Row 28 Module	14	DBROW228GD	4560
3 Row 42 Module	14	DBROW342GD	5590
4 Row 56 Module	14	DBROW456GD	6335
4 Row 64 Module	16	DBROW464GD	6950
IP 54 - Metal Door			
2 Row 28 Module	14	DBROW22854	7185
3 Row 42 Module	14	DBROW34254	8885
4 Row 56 Module	14	DBROW45654	9680
4 Row 64 Module	16	DBROW46454	10685

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	265	5
SP 56 Mod	BSP56	995	5
DP 12 Mod	BDP12	435	5
TP 12 Mod	BTP12	465	5
FP 12 Mod	BFP12	975	5
End Caps for SP	ECP01	10	10
End Caps for DP/TP	ECP03	30	10
End Caps for FP	ECP04	40	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	15	10
Half Module	BKP05	15	10

Padlock [8301]

Highlights

- Version with standard lock and a common key



PDK02

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std. Pack Qty.
Lock and Key Kit	PDK02	435	5

Vertical TPN DB with Modular Incomer [8537]

Vertical TPN DB with MCCB Incomer [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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 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 outgoing



IP 30 - Single Door

IP 43 - Metal Door

IP 43 - Glazed Door

Highlights

- Conforms to IS 8623-1 & 3, 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 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 outgoing



IP 30 - Single Door

IP 43 - Metal Door

IP 43 - Glazed Door

Up to 125A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	8	4+4+4	DBVTM004SD	7555
6 way	8	6+6+6	DBVTM006SD	8270
8 way	8	8+8+8	DBVTM008SD	9225
12 way	8	12+12+12	DBVTM012SD	13320
16 way	8	16+16+16	DBVTM016SD	15405
IP 43 - Metal Door				
4 way	8	4+4+4	DBVTM004DD	8040
6 way	8	6+6+6	DBVTM006DD	9830
8 way	8	8+8+8	DBVTM008DD	10775
12 way	8	12+12+12	DBVTM012DD	14905
16 way	8	16+16+16	DBVTM016DD	17590
IP 43 - Glazed Door				
4 way	8	4+4+4	DBVTM004GD	10810
6 way	8	6+6+6	DBVTM006GD	11890
8 way	8	8+8+8	DBVTM008GD	13745
12 way	8	12+12+12	DBVTM012GD	18335
16 way	8	16+16+16	DBVTM016GD	19465
IP 54 - Metal Door				
4 way	8	4+4+4	DBVTM00454	16630
6 way	8	6+6+6	DBVTM00654	18505
8 way	8	8+8+8	DBVTM00854	19420
12 way	8	12+12+12	DBVTM01254	26655
16 way	8	16+16+16	DBVTM01654	28225

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 30 - Single Door				
4 way	MCCB	4+4+4	DBVTL004SD	8755
6 way	MCCB	6+6+6	DBVTL006SD	9515
8 way	MCCB	8+8+8	DBVTL008SD	10360
12 way	MCCB	12+12+12	DBVTL012SD	15360
16 way	MCCB	16+16+16	DBVTL016SD	18170
IP 43 - Metal Door				
4 way	MCCB	4+4+4	DBVTL004DD	9610
6 way	MCCB	6+6+6	DBVTL006DD	11030
8 way	MCCB	8+8+8	DBVTL008DD	12080
12 way	MCCB	12+12+12	DBVTL012DD	16075
16 way	MCCB	16+16+16	DBVTL016DD	18920
IP 43 - Glazed Door				
4 way	MCCB	4+4+4	DBVTL004GD	11030
6 way	MCCB	6+6+6	DBVTL006GD	12495
8 way	MCCB	8+8+8	DBVTL008GD	14100
12 way	MCCB	12+12+12	DBVTL012GD	18795
16 way	MCCB	16+16+16	DBVTL016GD	20805
IP 54 - Metal Door				
4 way	MCCB	4+4+4	DBVTL00454	18955
6 way	MCCB	6+6+6	DBVTL00654	20325
8 way	MCCB	8+8+8	DBVTL00854	22785
12 way	MCCB	12+12+12	DBVTL01254	28755
16 way	MCCB	16+16+16	DBVTL01654	34410

* Suitable for 3 Pole & 4 Pole DU100H, DU100D, DU125D, DU125H & DNO MCCB as incomer

Vertical TPN DB with MCCB Incomer [8537]

Up to 250A MCCB Incomer



IP 30 - Single Door IP 43 - Metal Door IP 43 - Glazed Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 30 - Single Door				
4 way	MCCB	4+4+4	DBVTH004SD	10745
6 way	MCCB	6+6+6	DBVTH006SD	11275
8 way	MCCB	8+8+8	DBVTH008SD	12400
12 way	MCCB	12+12+12	DBVTH012SD	17515
16 way	MCCB	16+16+16	DBVTH016SD	21105
IP 43 - Metal Door				
4 way	MCCB	4+4+4	DBVTH004DD	12175
6 way	MCCB	6+6+6	DBVTH006DD	13830
8 way	MCCB	8+8+8	DBVTH008DD	15205
12 way	MCCB	12+12+12	DBVTH012DD	20355
16 way	MCCB	16+16+16	DBVTH016DD	24170
IP 43 - Glazed Door				
4 way	MCCB	4+4+4	DBVTH004GD	19995
6 way	MCCB	6+6+6	DBVTH006GD	22430
8 way	MCCB	8+8+8	DBVTH008GD	23330
12 way	MCCB	12+12+12	DBVTH012GD	24585
16 way	MCCB	16+16+16	DBVTH016GD	26455
IP 54 - Metal Door				
4 way	MCCB	4+4+4	DBVTH00454	26980
6 way	MCCB	6+6+6	DBVTH00654	29460
8 way	MCCB	8+8+8	DBVTH00854	30470
12 way	MCCB	12+12+12	DBVTH01254	35675
16 way	MCCB	16+16+16	DBVTH01654	37550

* Suitable for 3 pole and 4 pole DU250, DU250C & DN1 MCCB as incomer

Enclosure [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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	DBENC002SD	515
3 way	3	DBENC003SD	515
4 way	4	DBENC004SD	515
6 way	6	DBENC006SD	775

Plug & Socket DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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	DBMPS110SD	1335
20 A, 2 Pin + SC^	P + N	1	DBMPS120SD	1435
20 A, 2 Pin + SC^	P + N	2	DBMPS220SD	1565
20 A, 3 Pin + SC^	3P	3	DBMPS320SD	2650
32 A, 3 Pin + SC^	3P	3	DBMPS332SD	3135
32 A, 3 Pin + SC^	3P	4	DBMPS432SD	3330
63 A, 5 Pin + SC^	3P+N+E	4	DBMPS463SD	11310
Plastic Plug & Sockets				
16 A, 3 Pin	P+N+E	2	DBPPS316SD	2170
32 A, 3 Pin	P+N+E	4	DBPPS332SD	2345
32 A, 5 Pin	3P+N+E	8	DBPPS532SD	4265
63 A, 5 Pin	3P+N+E	8	DBPPS563SD	10845

Metal Plug [8536]



Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	MPS210P	140
20 A, 2 Pin + SC^	P + N	MPS220P	150
20 A, 3 Pin + SC^	3P	MPS320P	195
32 A, 3 Pin + SC^	3P	MPS332P	365

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	145
20 A, 2 Pin + SC^	P + N	MPS220S	165
20 A, 3 Pin + SC^	3P	MPS320S	215
32 A, 3 Pin + SC^	3P	MPS332S	365

^ SC-Scraping Earth

Note: Standard pack quantity - 20 nos.

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	DBSPN004CB	580
CEB-SPN Double Door, 6 way	DBSPN006CB	615
CEB-SPN Double Door, 8 way	DBSPN008CB	685
CEB-SPN Double Door, 12 way	DBSPN012CB	765
CEB-SPN Double Door, 16 way	DBSPN016CB	1070
CEB-SPN Double Door, 18 way	DBSPN018CB	1130
CEB for TPN DBs		
CEB-TPN Double Door, 4 way	DBTPN004CB	970
CEB-TPN Double Door, 6 way	DBTPN006CB	1205
CEB-TPN Double Door, 8 way	DBTPN008CB	1900
CEB-TPN Double Door, 12 way	DBTPN012CB	2445
CEB-TPN Double Door, 16 way	DBTPN016CB	2470
CEB-TPE Double Door, 4 way	DBTPE004CB	910
CEB-TPE Double Door, 6 way	DBTPE006CB	1140
CEB for Horizontal PPI DBs		
CEB-Horz. PPI Double Door, 4 way	DBHPI004CB	1120
CEB-Horz. PPI Double Door, 6 way	DBHPI006CB	1270
CEB-Horz. PPI Double Door, 8 way	DBHPI008CB	1495
CEB-Horz. PPI Double Door, 12 way	DBHPI012CB	1675
CEB-Horz. PPI Double Door, 16 way	DBHPI016CB	1890
CEB for Tier PPI DBs		
CEB-Tier PPI Double Door, 6 way	DBTPI006CB	1060
CEB-Tier PPI Double Door, 8 way	DBTPI008CB	1105
CEB-Tier PPI Double Door, 10 way	DBTPI010CB	1340
CEB-Tier PPI Double Door, 12 way	DBTPI012CB	1640
CEB-Tier PPI Double Door, 16 way	DBTPI016CB	1745
CEB-Tier PPI Double Door, 12 way MCCB incomer	DBTPL012CB	1660



Description	Cat. Nos.	M.R.P. (₹) Per Unit
CEB for VTPN DBs		
CEB-VTPN Double Door, Modular Incomer	DBVTMXXCB	755
CEB-VTPN Double Door, MCCB Incomer	DBVTXXXCB	2710
CEB for FLEXI DBs		
CEB for Flexi DBs with 14 Modules per Row	DBROWX14CB	850
CEB for Flexi DBs with 16 Modules per Row	DBROWX16CB	985
CEB for Phase Segregated DBs		
CEB-PSG Double Door, 4 way	DBPSG004CB	1755
CEB-PSG Double Door, 6 way	DBPSG006CB	2090
CEB-PSG Double Door, 8 way	DBPSG008CB	2315
CEB-PSG Double Door, 12 way	DBPSG012CB	2575
CEB for Phase Selector DBs		
CEB-Phase Selector Double Door, 4 way	DBPSR004CB	840
CEB-Phase Selector Double Door, 6 way	DBPSR006CB	950
CEB-Phase Selector Double Door, 8 way	DBPSR008CB	1545
CEB-Phase Selector Double Door, 10 way	DBPSR010CB	1780
CEB-Phase Selector Double Door, 12 way	DBPSR012CB	1930

New

DBs with provision for TV/Telephone splitters [8537]

Highlights

- Distribution Boards equipped with provisions to mount TV / Telephone splitters
- Available in SPN & TPN DBs



DB Type	Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
		Incomer + Outgoing			
IP 43 - Metal Door					
SPN	6 way	2	4	DBSPN006DDTV	2975
	8 way	2	6	DBSPN008DDTV	3200
	12 way	2	10	DBSPN012DDTV	3960
	16 way	2	14	DBSPN016DDTV	4565
	18 way	2	16	DBSPN018DDTV	5610
TPN	4 way	8	4+4+4	DBTPN004DDTV	5630
	6 way	8	6+6+6	DBTPN006DDTV	6500
	8 way	8	8+8+8	DBTPN008DDTV	7545

Selection as per Type 2 Co-ordination

All our type 2 charts are available on **docWHIZ** & **ProductWhiz**.



Pl. download docWHIZ from
www.Intebg.com/docwhiz



or ProductWhiz from
GOOGLE PLAY STORE

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	MPCB/MCCB	MPCB/MCCB	MPCB/MCCB	MPCB/MCCB
MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO

Charts available at I_q of

- 50kA
- 65kA
- 80kA
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MCCB charts are available with
Microprocessor Releases too



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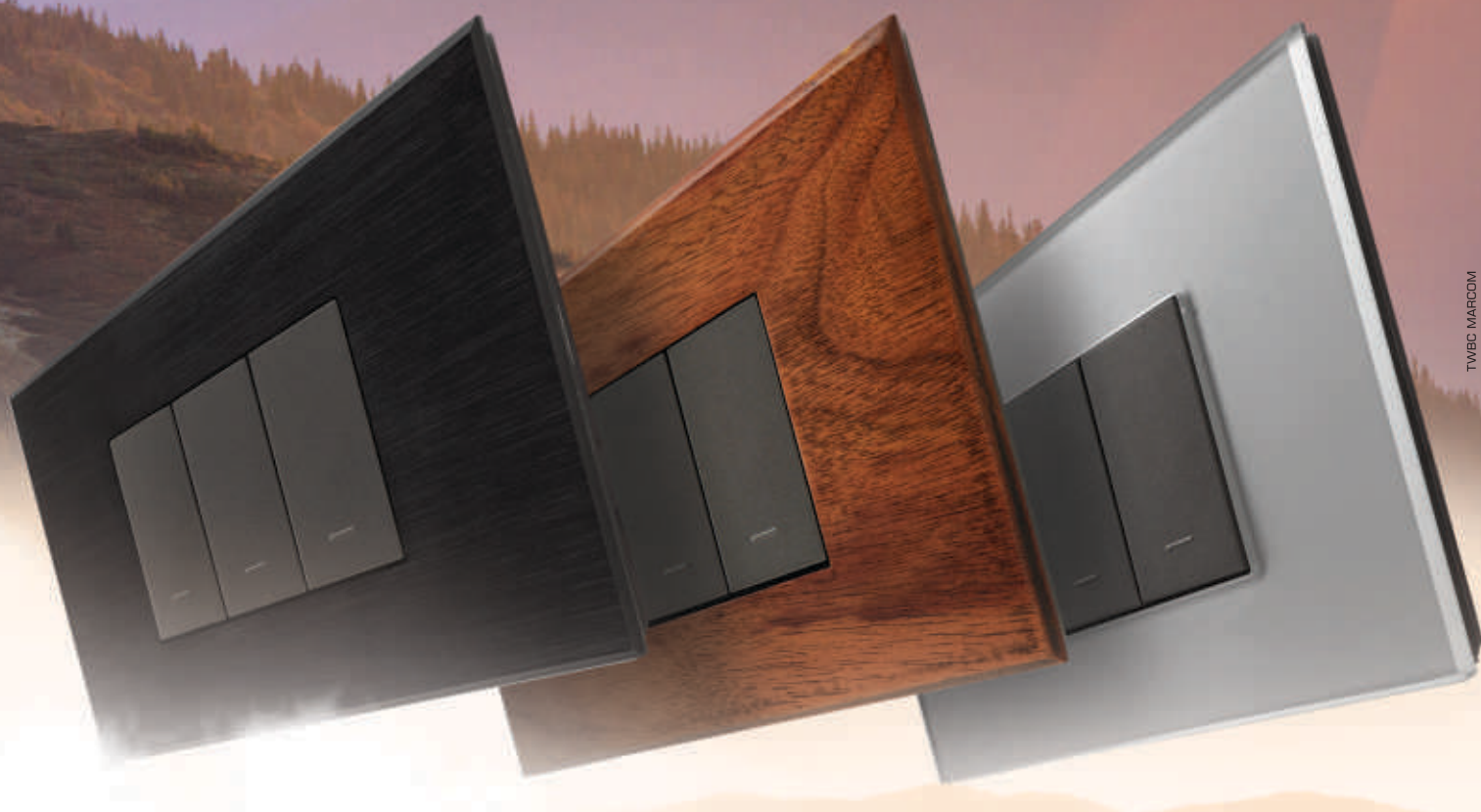
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- Built-in PID
- Multi Keypad
- Built-in Braking Chopper till 22kW (HD)

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Discontinued Products/Suggested Alternate Products

Product Group	Discontinued Products	Suggested Alternate Products
MCCB	DH100 3P & 4P	DN0 - 100C 3P & 4P
Controlgear	MO C80	MO C 75 or MO C 85 Select as per Capacitor bank rating
Digital Panel Meters	VEGA Single function	New meter WL 1XXX series
	VEGA VAF+PF	New meter WL 4110 series
	VEGA Multifunction Model A/B/C	New meter Multifunction WL 4410/4420/4430
	Quasar Multifunction	New meter Multifunction WC 4420
	NOVA Basic Multifunction	New meter Basic Multifunction WL4400 / WC4400
	Gemini Dual Source	New meter Dual Source WL4040 / WC4040
	LCD kWh meter	New meter Energy meter WL4000 / WC4000
	Acrux Counter meter	New meter WL4030 counter series
	Mi energy DIN meter	New DIN meters 4000 series

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