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Price List

**Maximum Retail Prices
for
Electrical Standard Products**



SUPERNOVA™ MO CONTACTORS

- Range from 9A - 110A in three frame sizes
- Compact
- Completely shrouded
- Low VA consumption
- Lug less termination possible
- Common accessories throughout the range

SUPERNOVA™ MOG MOTOR PROTECTION CIRCUIT BREAKERS

- Range from 0.16A - 63A
- High breaking capacity
- Compact
- Front mounting alarm & auxiliary contact



U-POWER AIR CIRCUIT BREAKERS OMEGA

- Range from 400A - 6300A in three optimized frames sizes
- Unique interlock prevents breaker closing when arc chute is missing
- Unique pole design ensures saving through low watt loss
- Unique modular releases for future upgradability
- Optimally compact dimensions, without sacrificing termination area

U-line CHANGEOVER SWITCHES

- Range from 125A - 1000A
- Staggered terminals
- Dual shaft positions
- Flip - able handle for easy operation
- Live parts shrouded to avoid accidental contact
- Conversion to fused version at site



LTXL ULTRA HEAVY DUTY CAPACITORS

- Range from 5 kVAr - 50 kVAr
- Long life expectancy (upto 300000 hrs)
- High inrush current withstand capability (upto 500 times I_R)
- Low power loss (< 0.35 W/kVAr)
- Lower operating temperature



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**Please contact the nearest L&T branch office for
Prices of the following products :**

- Analog Panel Meters & Current Transformers
- Rotary Switches
- Modular Remote Control Units
- Timing Devices
- Cable Ducts & LB Series Switches
- Distribution System Components such as MCBs (10kA hager), ELCB etc.
- Wires, Cables and Flat Cables
- Busbar Trunking Systems
- AC Variable Frequency Drives
- AC Servo Motors & Drives
- Motion Control Solutions
- Building Automation Products
- Home Automation Products

AIR CIRCUIT BREAKERS - C-POWER

C-POWER S1 range of Air Circuit Breakers conform to IS 13947-2 & IEC 60947-2

Rating - 630A to 3200A

Version - 3 Pole / 4 Pole, Manually / Electrically operated Draw-out

Protection Releases

1) Thermal-Magnetic	: Type DN1	- LS protection
2) Microprocessor based	: Type SR18 / SR18G - LSI & option of G (E/F) in SR18G	
3) Microprocessor based	: Type SR21i	- LSIG protection + Zone Selective Interlocking
4) Microprocessor based	: Type SR71	- Advance Micro controller based with option of communication & metering

For technical details please refer product catalogue

C-POWER S1

3 & 4 Pole Draw-Out ACBs

Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	Microprocessor Based SR18G		Microprocessor Based SR18G		Thermal-Magnetic DN1		Thermal-Magnetic DN1	
			3 Pole Draw-out		4 Pole Draw-out		3 Pole Draw-out		4 Pole Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630A	50kA	MDO	SL96041	111500	SL96061	146000	SL95331	95500	SL95351	130000
		EDO	SL96051	146500	SL96071	181000	SL95341	130500	SL95361	165000
800A	50kA	MDO	SL96042	111500	SL96062	146000	SL95332	95500	SL95352	130000
		EDO	SL96052	146500	SL96072	181000	SL95342	130500	SL95362	165000
1000A	50kA	MDO	SL96043	118500	SL96063	154000	SL95333	102500	SL95353	138000
		EDO	SL96053	153500	SL96073	189000	SL95343	137500	SL95363	173000
1250A	50kA	MDO	SL96044	146500	SL96064	178000	SL95334	130500	SL95354	162000
		EDO	SL96054	181500	SL96074	213000	SL95344	165500	SL95364	197000
1600A	50kA	MDO	SL96045	159000	SL96065	194000	SL95335	143000	SL95355	178000
		EDO	SL96055	194000	SL96075	229000	SL95345	178000	SL95365	213000
2000A	50kA	MDO	SL96046	183000	SL96066	235000	SL95336	167000	SL95356	219000
		EDO	SL96056	218000	SL96076	270000	SL95346	202000	SL95366	254000
2500A	60kA	MDO	SL96047	220000	SL96067	280000	SL95337	204000	SL95357	264000
		EDO	SL96057	255000	SL96077	315000	SL95347	239000	SL95367	299000
3200A	60kA	MDO	SL96048	260000	SL96068	343000	SL95338	264000	SL95358	327000
		EDO	SL96058	315000	SL96078	378000	SL95348	299000	SL95368	362000

The above M.R.P.s. of ACBs includes 2NO+2NC Aux contact for MDO & 2NO+2NC Aux contact for EDO breakers, Safety shutter assembly, Racking handle, Racking interlock, Door sealing frame, Push-button cover & Rating Error preventor.

EDO version includes 240V ac Shunt trip coil, Closing coil and Motor for electrical charging.

3 Pole Manual Fixed## C-POWER ACBs

Description			Thermal-Magnetic DN1		Microprocessor Based SR18G	
Rating	Breaking Capacity Icu=Ics =Icw (1sec)	Version	Cat. No.	M.R.P. (₹)	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA	MF	SL93001	66500	SL97631	113500
1000A	50kA	MF	SL93002	70000	SL97632	117000
1250A	50kA	MF	SL93003	95000	SL97633	142000
1600A	50kA	MF	SL93004	98000	SL97634	145000
2000A	55kA	MF	SL93005	108000	SL97635	155000
2500A	60kA	MF	SL93006	126000	SL97636	173000
3200A	70kA	MF	#	#	#	#
4000A	70kA	MF	#	#	#	#

3 Pole Fixed CN-CS...E Range

with Thermal-Magnetic Release Type DN1				
Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	CAT. NO.	M.R.P. (₹) Per Unit
400A	50kA	3P MF	SL932910000	43600
630A	50kA	3P MF	SL932920000	43600
800A	50kA	3P MF	SL932930000	43600
1000A	50kA	3P MF	SL93294000A	46800
1250A	50kA	3P MF	SL932950000	58550
1600A	50kA	3P MF	SL932960000	67700
2000A	50kA	3P MF	SL932970000	77000

Available on "Made-to-Order" basis

4 Pole Version & Electrical Fixed type breaker available on "Made-to-Order" basis

AIR CIRCUIT BREAKERS - C-POWER

C-POWER Range of Air Circuit Breakers conform to IS 13947-2 & IEC 60947-2

Rating - 800A to 6300A

Version - 3 Pole / 4 Pole, Manually / Electrically operated Fixed / Draw-out

Protection Releases

1) Thermal- Magnetic	: Type DN1	- LS protection
2) Microprocessor based	: Type SR18 / SR18G	- LSI & option of G (E/F) in SR18G
3) Microprocessor based	: Type SR21i	- LSIG protection + Zone Selective Interlocking
4) Microprocessor based	: Type SR71	- Advance Micro controller based with option of communication & metering

For technical details please refer product catalogue

3 & 4 Pole Draw-out C-POWER ACBs

Rating	Breaking Capacity Icu=Ics =Icw (1 sec)	Version	Microprocessor Based SR18G		Microprocessor Based SR18G		Thermal-Magnetic DN1		Thermal-Magnetic DN1	
			3 Pole Draw-out		4 Pole Draw-out		3 Pole Draw-out		4 Pole Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA	MDO	ST35541	127000	ST35561	162000	SL93061	111000	ST25031	146000
		EDO	ST35551	162000	ST35571	197000	#	#	#	#
1000A	50kA	MDO	ST35542	136000	ST35562	172000	SL93062	120000	ST25032	156000
		EDO	ST35552	171000	ST35572	207000	#	#	#	#
1250A	50kA	MDO	ST35543	161000	ST35563	192000	SL93063	145000	ST25033	176000
		EDO	ST35553	196000	ST35573	227000	#	#	#	#
1600A	50kA	MDO	ST35544	167000	ST35564	210000	SL93064	154000	ST25034	194000
		EDO	ST35554	202000	ST35574	245000	#	#	#	#
2000A	55kA	MDO	ST35545	206000	ST35565	260000	SL93065	190000	ST25035	244000
		EDO	ST35555	241000	ST35575	295000	#	#	#	#
2500A	60kA	MDO	ST35546	240000	ST35566	304000	SL93066	224000	ST25036	288000
		EDO	ST35556	275000	ST35576	339000	#	#	#	#
3200A	75kA	MDO (H0)	ST35547	310000	ST35567	382000	SL93067	294000	SL93479	366000
		EDO (H0)	ST35557	345000	ST35577	417000	#	#	#	#
4000A	75kA	MDO (H0)	ST35548	375000	ST35568	440000	SL93460	359000	SL93480	444000
		EDO (H0)	ST35558	410000	ST35578	495000	#	#	#	#
5000A	95kA	MDO/EDO	#	#	#	#	#	#	#	
6300A	95kA	MDO/EDO	#	#	#	#	#	#	#	

The above M.R.P.s. of ACBs, includes 6NO + 6NC Aux contact, Safety shutter assembly, Racking handle, Racking interlock, Door/sealing frame, Push button cover & Rating Error preventor

EDO version includes 240V AC Shunt releases, Closing coil and Motor for electrical charging.

Accessories (Common for C-POWER Family)

Description	Cat. No.	M.R.P. (₹) Per Unit
An1 Remote Annunciation Module for SR18G/SR21i	SL94604	4200
6 way Secondary isolating contact	SL92701	1520
Microswitch for Voltmetric releases (2) each	SL92703	1670
Microswitch for common indication of O/L & S/C (3) each	SL92704	1670
Microswitch for separate indication of O/L & S/C (3) each	SL92705	2900
Service position microswitch - Right (2)	SL93142	1150
Service position microswitch - Left (2)	SL93143	1150
Test or isolated position microswitch - Right (2)	SL93144	1150
Test or isolated position microswitch - Left (2)	SL93145	1150
Lockable Trip Push Button Type AA, BB, CC	SL93148	2100
Lockable Trip Push Button kit L, M, N, LM, MN	SL91936	10500
Locking of ACB in Isolated position	SL93146	2100
Locking of ACB in Any position	SL93147	2100
Racking Interlock	SL93149	3800
Door Interlock	SL93150	2100

Note :

- The Numerical in brackets, against various accessories indicate the SICs required for wiring purpose in Draw-out Breaker
- For ordering shunt release or under voltage release, please mention Voltage in addition to Cat. No.
- 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

Description	Cat. No.	M.R.P. (₹) Per Unit
Shunt Release (b)		
Type EA : 24/48V, 110V, 220V DC	SL92718	2100
Type EA1 : 240V AC, 415V AC	SL92718	2100
Under Voltage Release		
Type MV (b) : 240V AC, 415V AC	SL92720	3100
Earth Fault Release		
Type EF1 (10%, 20% Ir)	SL91340	2100
Type EF2 (30%, 40%, 50% Ir)	SL91340	2100
Motor for 800A to 6300A		
110V DC	SL00346	15200
220V DC	SL00347	15200
240V AC	SL00315	15200
Protection Releases		
Microprocessor based releases		
Type SR71	AVAILABLE ON REQUEST	
Type SR21i	SL93960	38000
Type SR18G	SL93959	26000
Type SR18	SL93958	22000
Thermal-Magnetic Release Type DN1	SL93152	10000

Available on "Made-to-Order" basis

AIR CIRCUIT BREAKERS - C-POWER

Spares

Description	Qty.	Cat. No.	M.R.P. (₹) Per Unit
Auxiliary Contact Block - 800-2500C, 3200 & 4000 H0			
2 NO + 2 NC	1	SL92765	1600
6 NO + 6 NC	1	SL92767	2600

Safety Shutter Assembly			
For 800-1600 C / 630-2000 S1		SL91833	860
For 2000 & 2500 C / S1 & 3200 S1		SL92811	1010
For 3200 H0 / 4000 H0 #		SL91833	860

2 pole in each phase

Description	Cat. No.	Qty per Kit	M.R.P. (₹) Per Kit	No of Kits for 3 pole ACB
Arcing contacts - Fixed				
For 800 to 1600A	SL93891	3	2400	1 kit
For 2000 & 2500A	SL90631	1	320	12 kits
For 3200 H0 & 4000 H0	SL93040	3	3300	2 kits
Arcing contacts - Moving				
For 800 to 1600A	SL93892	9	2400	1 kit
For 2000 & 2500A	SL90629	1	320	12 kits
For 3200 H0 & 4000 H0	SL93892	9	2400	3 kits

CTs

Description	For SR18 / SR18G / SR21i		DN1 / SR15G	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630 S1 For Drawout Type	SL90495	3000	SL00374	3000
800 S1 For Drawout Type	SL90561	3000	SL90593	3000
800 C For Fixed Type with 400/500A taps	-	-	SL00933	3000
	-	-	SL90592	3000
800 C For Fixed Type with 640/800A taps	-	-	SL00934	3000
	-	-	SL90593	3000
800 C For Fixed Type	SL90569	3000	-	-
	SL90561	3000	-	-
1000 S1 For Drawout Type	SL90562	3000	SL90608	3000
	SL90570	3000	-	-
1000 C For Fixed Type	SL90562	3000	-	-
	SL90571	3600	SL00789	3600
1250 S1 For Drawout Type	SL90571	3600	-	-
1250 C For Fixed & Drawout Type	SL90572	3600	SL00790	3600
1600 S1 For Drawout Type	SL90572	3600	-	-
1600 C For Fixed & Drawout Type	SL93210	3900	SL00993	3900
2000 S1 For Drawout Type	SL90565	3900	-	-
2000 C For Fixed & Drawout Type	-	-	SL00791	3900
	-	-	SL90598	3900
2000 C For Fixed / Drawout Type with 1600/2000A tap	-	-	SL00792	3900
2500 S1 For Drawout Type	SL90566	3900	SL00993	3900
2500 C For Fixed & Drawout Type	SL90566	3900	SL00793	3900
3200 S1 For Drawout Type	SL90575	4800	SL00794	4800
3200 H0 For Fixed & Drawout Type	SL01740	4800	SL01707	4800
4000 H0 For Fixed & Drawout Type	SL01739	5400	SL01706	5400
5000 C For Drawout Type	SL00990	7300	SL01985	7300
6300 C For Drawout Type	SL00991	8500	SL01986	8500

Note : For CTs of SR71 release, please contact our branch office

Description	Cat. No.	M.R.P. (₹) Per Unit
Arc Chute		
For 800 to 1600 C & 630 to 2000 S1	SL90855	2800
For 2000 C & 2500 C/S1	SL90857	3300
For 3200 S1	SL91834	3600
For 3200 H0 / 4000 H0	SL90855	2800



AIR CIRCUIT BREAKERS - U-POWER

OMEGA

U-POWER system of Air Circuit Breakers conform to IS 13947-2, IEC 60947-2, EN 60947 and GB 14048.2

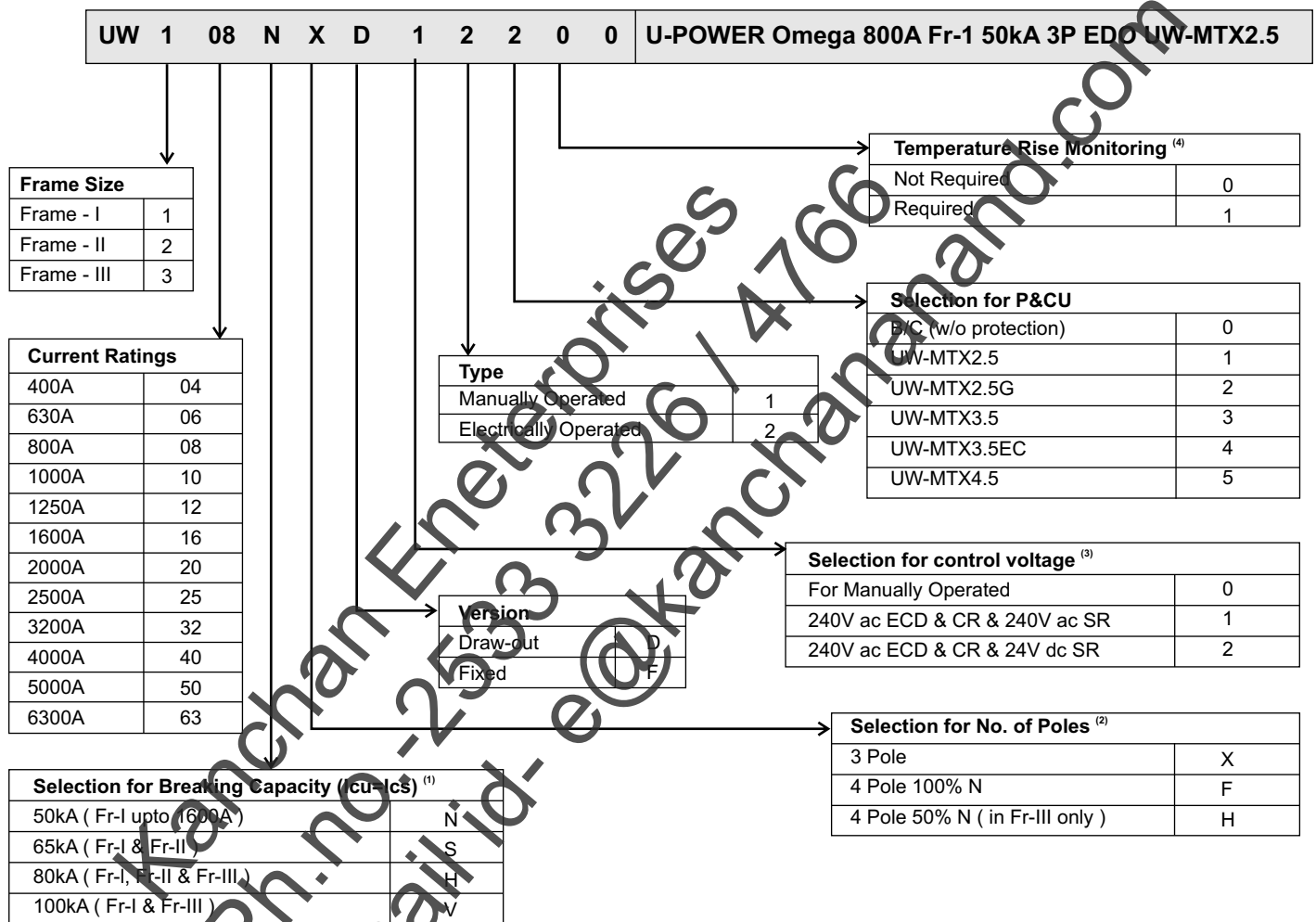
Rating - 800A to 6300A in three frame sizes

Versions - 3 Pole / 4 Pole, Manually / Electrically operated, Fixed / Draw-out

Protection Release - Micro controller based Protection & Control Unit with wide range of feature variants.

- 1) UW-MTX2.5 - LSI with current metering
- 2) UW-MTX2.5G - LSING with current metering
- 3) UW-MTX3.5 - LSING with Current Metering + Options of Power metering & Communication
- 4) UW-MTX3.5EC - LSING with inbuilt Power metering & Communication
- 5) UW-MTX4.5 - LSING + Power metering + Communication with Touch Screen navigation

U-POWER Omega ACB ordering information :



Please Note :

- (1) For low values please refer product catalogue
- (2) 4 Pole ACB with 200% Neutral is available on request
- (3) Other options of control voltage are available as accessory
- (4) Temperature protection is available in UW-MTX3.5/3.5EC/4.5

U-POWER Omega ACBs are offered with following standard features :

Draw-out version : U-POWER Omega ACBs with UW-MTX release will have - Current Metering, 4NO+4NC Aux. contacts, Safety shutter assembly, Racking handle, Racking interlock, Door sealing frame, Push-buttoncover, Rating error preventor & Arc shield# as inbuilt.

Fixed version : U-POWER Omega ACBs with UW-MTX release will have - Current Metering, 4NO+4NC Aux. contacts, Door sealing frame & Push-buttoncover as inbuilt.

- Available with Frame 1N/ 2S / 3H

AIR CIRCUIT BREAKERS - U-POWER

OMEGA

3 Pole U-POWER OMEGA ACBs with UW-MTX 2.5G

Current Rating	Version	3 Pole Draw-out with UW-MTX2.5G							
		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	UW108NXD01200	125000	UW108SXD01200	141000	UW208HXD01200	249000	*	*
	EDO	UW108NXD12200	160000	UW108SXD12200	176000	UW208HXD12200	284000	*	*
1000A	MDO	UW110NXD01200	130000	UW110SXD01200	146000	UW210HXD01200	249000	*	*
	EDO	UW110NXD12200	165000	UW110SXD12200	181000	UW210HXD12200	284000	*	*
1250A	MDO	UW112NXD01200	149000	UW112SXD01200	170000	UW212HXD01200	249000	*	*
	EDO	UW112NXD12200	184000	UW112SXD12200	205000	UW212HXD12200	284000	*	*
1600A	MDO	UW116NXD01200	162000	UW116SXD01200	187000	UW216HXD01200	249000	*	*
	EDO	UW116NXD12200	197000	UW116SXD12200	222000	UW216HXD12200	284000	*	*
2000A	MDO	-	-	UW120SXD01200	200000	UW220HXD01200	249000	*	*
	EDO	-	-	UW120SXD12200	235000	UW220HXD12200	284000	*	*
2500A	MDO	-	-	UW225SXD01200	270000	UW225HXD01200	284000	*	*
	EDO	-	-	UW225SXD12200	305000	UW225HXD12200	319000	*	*
3200A	MDO	-	-	UW232SXD01200	300000	UW232HXD01200	319000	*	*
	EDO	-	-	UW232SXD12200	335000	UW232HXD12200	350000	*	*
4000A	MDO	-	-	-	-	UW340HXD01200	391000	*	*
	EDO	-	-	-	-	UW340HXD12200	426000	*	*
5000A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*
6300A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*

Current Rating	Version	3 Pole Manual Fixed with UW-MTX2.5G							
		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	UW108NXF01200	93750	UW108SXF01200	105750	*	*	*	*
1000A	MF	UW110NXF01200	97500	UW110SXF01200	109500	*	*	*	*
1250A	MF	UW112NXF01200	111750	UW112SXF01200	127500	*	*	*	*
1600A	MF	UW116NXF01200	121500	UW116SXF01200	140250	*	*	*	*
2000A	MF	-	-	UW120SXF01200	150000	*	*	*	*
2500A	MF	-	-	UW225SXF01200	202500	*	*	*	*
3200A	MF	-	-	UW232SXF01200	225000	*	*	*	*
4000A	MF	-	-	-	-	*	*	*	*
5000A	MF	-	-	-	-	*	*	*	*
6300A	MF	-	-	-	-	*	*	*	*

Note : For prices of Electrical Fixed versions add Rs. 35000 to the above MRPs (includes Electrical Charging device, Closing Release & Shunt Release)

Following are the M.R.P. changes for product customization		
		M.R.P. (₹) Per Unit
Protection & Control Unit change		
Buscoupler (without protection release)	Reduce	28000
UW-MTX2.5 (LSI + Current Metering)	Reduce	6000
UW-MTX3.5 (LSING + Current Metering + Option of Power Metering & Communication)	Add	5000
UW-MTX3.5EC (LSING + Power Metering + Communication)	Add	30000
UW-MTX4.5 (LSING + Power Metering + Communication with Touch Screen navigation)	Add	*

* Available on request

AIR CIRCUIT BREAKERS - U-POWER

OMEGA

4 Pole U-POWER OMEGA with UW-MTX 2.5G

Current Rating	Version	4 Pole Draw-out with UW-MTX2.5G							
		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	UW108NFD01200	157000	UW108SFD01200	176000	UW208HFD01200	289000	*	*
	EDO	UW108NFD12200	192000	UW108SFD12200	211000	UW208HFD12200	324000	*	*
1000A	MDO	UW110NFD01200	163000	UW110SFD01200	183000	UW210HFD01200	289000	*	*
	EDO	UW110NFD12200	198000	UW110SFD12200	218000	UW210HFD12200	324000	*	*
1250A	MDO	UW112NFD01200	185000	UW112SFD01200	210000	UW212HFD01200	289000	*	*
	EDO	UW112NFD12200	220000	UW112SFD12200	245000	UW212HFD12200	324000	*	*
1600A	MDO	UW116NFD01200	203000	UW116SFD01200	230000	UW216HFD01200	289000	*	*
	EDO	UW116NFD12200	238000	UW116SFD12200	265000	UW216HFD12200	324000	*	*
2000A	MDO	-	-	UW120SFD01200	250000	UW220HFD01200	289000	*	*
	EDO	-	-	UW120SFD12200	285000	UW220HFD12200	324000	*	*
2500A	MDO	-	-	UW225SFD01200	335000	UW225HFD01200	352000	*	*
	EDO	-	-	UW225SFD12200	370000	UW225HFD12200	387000	*	*
3200A	MDO	-	-	UW232SFD01200	375000	UW232HFD01200	394000	*	*
	EDO	-	-	UW232SFD12200	410000	UW232HFD12200	429000	*	*
4000A	MDO	-	-	-	-	UW340HFD01200	490000	*	*
	EDO	-	-	-	-	UW340HFD12200	525000	*	*
5000A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*
6300A	MDO	-	-	-	-	*	*	*	*
	EDO	-	-	-	-	*	*	*	*

Current Rating	Version	4 Pole Manual Fixed with UW-MTX2.5G							
		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	UW108NFF01200	117750	UW108SFF01200	132000	*	*	*	*
1000A	MF	UW110NFF01200	122250	UW110SFF01200	137250	*	*	*	*
1250A	MF	UW112NFF01200	138750	UW112SFF01200	157500	*	*	*	*
1600A	MF	UW116NFF01200	152250	UW116SFF01200	172500	*	*	*	*
2000A	MF	-	-	UW120SFF01200	187500	*	*	*	*
2500A	MF	-	-	UW225SFF01200	251250	*	*	*	*
3200A	MF	-	-	UW232SFF01200	281250	*	*	*	*
4000A	MF	-	-	-	-	*	*	*	*
5000A	MF	-	-	-	-	*	*	*	*
6300A	MF	-	-	-	-	*	*	*	*

Note : For prices of Electrical Fixed versions add Rs. 35000 to the above MRPs (includes Electrical Charging device, Closing Release & Shunt Release)

Following are the M.R.P. changes for product customization		
		M.R.P. (₹) Per Unit
Protection & Control Unit change		
Buscoupler (without protection release)	Reduce	28000
UW-MTX2.5 (LSI + Current Metering)	Reduce	6000
UW-MTX3.5 (LSING + Current Metering + Option of Power Metering & Communication)	Add	5000
UW-MTX3.5EC (LSING + Power Metering + Communication)	Add	30000
UW-MTX4.5 (LSING + Power Metering + Communication with Touch Screen navigation)	Add	*

* Available on request

AIR CIRCUIT BREAKERS - U-POWER

OMEGA

Accessories

Description	Cat. No.	M.R.P. (₹) Per Unit
Microswitch for Common fault indication (CFI)	CL90949	1900
Microswitch for Ready to close indication (RTC)	CL90953	1900
Microswitch for Shunt release	CL90951	1900
Microswitch for Undervoltage release	CL90947	1900
Electrical Position indication (EPI)	CL90984	1550
Operation Counter	CL90983	1550
Door Interlock	CL90978	2100
Auxiliary contact (4NO + 4NC)	CL90955	4750
Power Supply Module (UN-PS)	CL90803	10400

Mechanical Interlock using Key & Lock		
R - Locks Type - 1	CL00659	950
R - Locks Type - 2	CL00660	950
R - Locks Type - 3	CL00661	950
R - Locks Type - 12	CL00662	950
R - Locks Type - 23	CL00663	950
Locking arrangement for OFF button with R - Lock (on breaker)	CL90815	1400
Locking arrangement for Iso. position with R - Lock (on Cradle)	CL90865	1250
Locking arrangement for all position with R - Lock (on Cradle)	CL90927	1050
C - Lock Type - S	CL00664	1700
C - Lock Type - T	CL00665	1700
C - Lock Type - ST	CL00666	1700
C - Lock Type - ST	CL00667	1700
C - Lock Type - TT	CL00668	1700
Locking arrangement for OFF button with C - Lock (on breaker)	CL90814	1400
Locking arrangement for Iso. position for C - Lock (on Cradle)	CL90982	1250
Locking arrangement for all position with C - Lock (on Cradle)	CL90981	1050

Mechanical Interlock using Bowden Cable (3 meters length)		
Between 2 Incomers	CL90659	8500
Between 3 Incomers	CL90660	12750
Between 2 Incomers & 1 Standby	CL90661	12750
Between 2 Incomers & 1 Buscoupler	CL90662	12750
Mechanical Interlock using Bowden Cable (2 meters length)		
Between 2 Incomers	CL90810	7600
Between 3 Incomers	CL90811	11350
Between 2 Incomers & 1 Standby	CL90812	11350
Between 2 Incomers & 1 Buscoupler	CL90813	11350

POWERMAN

System for :

- Complete monitoring of Power & Energy Parameters
- Breaker Control

For details contact our branch office

Description	Cat. No.	M.R.P. (₹) Per Unit
Electrical Charging Device (ECD)		
110V AC / 110-125V DC	CL903600000	29100
220V AC / 200V DC	CL903640000	29100
240V AC / 250V DC	CL903590000	29100
415V AC / 400V DC	CL909610000	29100
24 - 30V DC	CL903620000	29100
Closing Release (CR)		
110V AC & DC	CL90817A000	3500
240V AC / 220 - 250V DC	CL90817B000	3500
415V AC	CL90817D000	3500
24 - 30V DC	CL908174000	3500
Shunt Release (SR)		
110V AC / 110V DC	CL908160A00	3500
240V AC / 220 - 250V DC	CL908160B00	3500
415V AC	CL908160D00	3500
24 - 30V DC	CL908160400	3500
Under Voltage Release (UVR) with time delay		
110V AC	CL90818A000	6850
240V AC	CL90818B000	6850
415V AC	CL90818D000	6850
24 - 30V DC	CL908184000	6850

Note : Common from 400A to 6300A

External Neutral CT for UW-MTX 2.5G / 3.5 / 3.5EC / 4.5		
For 400 / 630 / 800A; Fr-1, 2 & 3	CL00717	5400
For 1000 / 1250 / 1600A; Fr-1, 2 & 3	CL00718	5700
For 2000 / 2500A; Fr-1	CL00719	8300
For 2000 / 2500 / 3200A; Fr-2 & 3	CL00720	12500
For 4000A; Fr-3	CL00720	12500
Terminal Adaptor for Draw-out ACB (Unit Quantity)		
For 400A to 2000A; Fr-1 (Vert. / Hori.)	CL60963	2600
For 2500A; Fr-1 (Vert.)	CL60964	4700
For 2000A to 3200A; Fr-2 (Vert. / Hori)	CL60964	4700
For 3200 & 4000A; Fr-3 (Vert. / Hori)	CL60963	2600
For 5000A; Fr-3 (Vert./Hori)	CL60964	4700
For 6300A; Fr-3 (Vert.)	CL60965	5700

Note : 3rd digit of U-POWER Omega Cat. No. indicates frame size of ACB

POWERMAN Unit for Communication :

Cat. No.	Description	M.R.P. (₹) Per Unit
BPV3040RS	Powerman for 04 RS485 Meters/ACB/MCCB	33700
BPV3080RS	Powerman for 08 RS485 Meters/ACB/MCCB	54500
BPV3120RS	Powerman for 12 RS485 Meters/ACB/MCCB	69900
BPV3160RS	Powerman for 16 RS485 Meters/ACB/MCCB	89500
BPV304ARH	Add on Powerman for 04 RS485 Meters/ACB/MCCB	15000
BPV308ARH	Add on Powerman for 08 RS485 Meters/ACB/MCCB	29900
BPV312ARH	Add on Powerman for 12 RS485 Meters/ACB/MCCB	44840
BPV316ARH	Add on Powerman for 16 RS485 Meters/ACB/MCCB	59780

MOULDED CASE CIRCUIT BREAKERS

- Conform to IS13947 (Part 2), IEC60947-2
- Comprehensive range from 0.63A to 1600A
- 1, 2, 3 & 4 pole versions
- Breaking capacities upto 100kA
- Manual, Electrical operation
- Fixed, Plug-in & Withdrawable versions

- Protection units :
 - Thermal Magnetic
 - Microprocessor based
 - Microprocessor based with communication & metering
- Comprehensive range of internal & external accessories

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

- For special applications like capacitor switching, DC, please contact nearest branch.
- For Motor application, use 'M' series of MCCBs. Such as DM, DN2M, DN3M

DU100H MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	1 Pole*		3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (Rs.) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100H	16-20	30	CM97922OOC2	750	CM97894OOC2	3500	CM97933OOC2	4640	1
	20-25	30	CM97922OOD2	750	CM97894OOD2	3500	CM97933OOD2	4640	1
	25-32	30	CM97922OOE2	750	CM97894OOE2	3500	CM97933OOE2	4640	1
	32-40	30	CM97922OOF2	750	CM97894OOF2	3500	CM97933OOF2	4640	1
	40-50	30	CM97922OOG2	750	CM97894OOG2	3500	CM97933OOG2	4640	1
	50-63	30	CM97922OOH2	750	CM97894OOH2	3500	CM97933OOH2	4640	1
	63-80	30	CM97922OOJ2	760	CM97894OOJ2	3530	CM97933OOJ2	4680	1
	80-100	30	CM97922OOK2	770	CM97894OOK2	3560	CM97933OOK2	4730	1

* - Breaking Capacity Icu = 25kA for 1 pole at 240V AC, 50Hz

DU250 MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	3 Pole	
			Cat. No.	M.R.P. (₹) Per Unit
DU250	80-100	36	CM98064OOOO	4890
	100-125	36	CM98063OOOO	5720
	125-160	36	CM98062OOOO	6830
	160-200	36	CM98061OOOO	9020
	200-250	36	CM98060OOOO	10500

Accessories for DU100H & DU250 MCCB

Description (for DU100H/DU250)	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (No.s)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact 1 C/O	CM97886OOOO	590	1	DU100H Spreader Terminals - 3 Pole	CM97785OOOO	150	Set of 6
Aux. Contact 2 C/O	CM97887OOOO	1030	1	DU100H Spreader Terminals - 4 Pole	CM97921OOOO	260	Set of 8
Trip Alarm Contact 1 C/O	CM97888OOOO	580	1	DU100H ROM - Direct	CM97895OOOO	800	1
Trip Alarm Contact 2 C/O	CM97889OOOO	1030	1	DU100H ROM - Extended	CM97896OOOO	1260	1
Aux. 1 C/O + TAC 1 C/O	CM97890OOOO	1030	1	DU250 Spreader Terminals - 3 Pole	ST98053OOOO	890	Set of 6
Shunt Release 415/240V AC	CM97883OMOO	840	1	DU250 ROM - Direct	CM98040OOOO	860	1
Under Voltage Release 240V AC	CM97892BOOO	1080	1	DU250 ROM - Extended	CM98041OOOO	1290	1

MOULDED CASE CIRCUIT BREAKERS

D-Pan assembly D1 with DU100 & DU100H MCCBs as outgoings

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
D-Pan I/C 250A O/G 4 Way-DU100	CM978210000	10500	1	D-Pan I/C 250A O/G 4 Way-DU100H	CM979120000	10500	1
D-Pan I/C 250A O/G 8 Way-DU100	CM978220000	14700	1	D-Pan I/C 250A O/G 8 Way-DU100H	CM979130000	14700	1
D-Pan I/C 250A O/G 12 Way-DU100	CM978230000	19010	1	D-Pan I/C 250A O/G 12 Way-DU100H	CM979140000	19010	1
D-Pan I/C 400A O/G 4 Way-DU100	CM986050000	12290	1	D-Pan I/C 400A O/G 4 Way-DU100H	CM979150000	12290	1
D-Pan I/C 400A O/G 8 Way-DU100	CM986060000	16490	1	D-Pan I/C 400A O/G 8 Way-DU100H	CM979160000	16490	1
D-Pan I/C 400A O/G 12 Way-DU100	CM986070000	20790	1	D-Pan I/C 400A O/G 12 Way-DU100H	CM979170000	20790	1

DU 125 / 160 / 200 MCCB

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	
DU125	25-32	30	CM989000000	4020	CM981040000	5180	1
	32-40	30	CM989010000	4020	CM981050000	5180	1
	40-50	30	CM989020000	4020	CM981060000	5180	1
	50-63	30	CM989030000	4020	CM981070000	5180	1
	63-80	30	CM989040000	4060	CM981080000	5230	1
	80-100	30	CM989050000	4370▲	CM981090000	5620▲	1
	100-125	30	CM977910000	6020▲	CM981100000	7290▲	1
DU160	125-160	30	CM977920000	7620▲	CM981110000	9080▲	1
DU200	160-200	30	CM977930000	9640▲			1

▲ - Spreader Terminals are included.

Accessories for DU125 / 160 / 200 MCCB

Description (for DU125 / 160 / 200)	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact - Right	SL972980000	770	1	DU125/160/200 Spreader Terminals - 3 Pole	ST980470000	320	Set of 6
Aux. Contact - Left	SL972970000	770	1	DU125/160/200 Spreader Terminals - 4 Pole	ST980600000	420	Set of 8
Trip Alarm Contact - Right	SL972980000	800	1	DU125/160/200 S S Enclosure	ST299670000	1320	1
Shunt Release - 110 - 415V AC	SL972990000	870	1	DU125/160/200 ROM - 3 Pole	SL973010000	930	1
Under Voltage Release - 240V AC	SL976110000	1170	1	DU125/160/200 ROM - Extended - 3 & 4 Pole - New look	CM991030000	1150	1

DU100 MCCB

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	
DU100	32	10	CM977540000	1750	1
	40	10	CM977550000	1750	1
	50	10	CM977560000	1750	1
	63	10	CM977570000	1750	1
	80	10	CM989210000	1900▲	1
	100	10	CM989220000	1900▲	1

▲ - Spreader Terminals are included.

Accessories for DU100 MCCB

Description (for DU100)	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact - Right	CM977810000	380	1	DU100 Spreader Terminals - 3 Pole	CM977850000	150	Set of 6
Aux. Contact - Left	CM977820000	380	1	DU100 S S Enclosure	ST980500000	590	1
Shunt Release - 240 - 415V AC	CM977830000	440	1	DU100 ROM - Direct	SL970440000	710	1

dsine MOULDED CASE CIRCUIT BREAKERS

- dsine MCCBs come in a grey color scheme & have new type designations.

Breaking Capacity	Old type designation	New type designation
36kA	S	D
50kA	H	N
70kA	L	S

- Spreader terminals are optional for the entire dsine range & available as accessory
- It is recommended to use spreader terminals for enhancing termination capacity
- Use of phase barriers are mandatory. These are supplied along with MCCBs
- For special applications like capacitor switching, DC, please contact nearest branch
- For Motor application, use 'M' series of MCCBs, such as DN2M, DN3M
- Pls. Contact nearest branch office for availability of 100kA, Plug - in & Draw-out MCCBs

dsine with Thermal - Magnetic Releases :

Thermal - Magnetic Release (Thermal setting = 80-100% In & Magnetic setting = 6-10 In), Icu = Ics = 100%											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250D	100-125	36	CM92008OOL1OG	8400	1	DN2-250D	100-125	36	CM92108OOL1OG	10660	1
	125-160	36	CM92008OOM1OG	10200	1		125-160	36	CM92108OOM1OG	12230	1
	160-200	36	CM92009OON1OG	14560	1		160-200	36	CM92109OON1OG	17550	1
	200-250	36	CM92009OOP1OG	16490	1		200-250	36	CM92109OOP1OG	19930	1
DN3-400D	250-320	36	CM94005OOQ1OG	20200	1	DN3-400D	250-320	36	CM94105OOQ1OG	24640	1
	320-400	36	CM94005OOR1OG	20200	1		320-400	36	CM94105OOR1OG	25110	1
DN3-630D	400-500	36	CM94006OOSOOG	22870 #	1	DN3-630D	400-500	36	CM94106OOSOOG	28930 #	1
	500-630	36	CM94006OOTOOG	22980 #	1		500-630	36	CM94106OOTOOG	29470 #	1
DN2-250N	100-125	50	CM92005OOL1OG	10400	1	DN2-250N	100-125	50	CM92105OOL1OG	14440	1
	125-160	50	CM92005OOM1OG	11700	1		125-160	50	CM92105OOM1OG	16070	1
	160-200	50	CM92006OON1OG	16590	1		160-200	50	CM92106OON1OG	21200	1
	200-250	50	CM92006OOP1OG	19160	1		200-250	50	CM92106OOP1OG	22680	1
DN3-400N	250-320	50	CM94003OOQ1OG	21640	1	DN3-400N	250-320	50	CM94103OOQ1OG	27300	1
	320-400	50	CM94003OOR1OG	21640	1		320-400	50	CM94103OOR1OG	27300	1
DN3-630N	400-500	50	CM94004OOSOOG	25230 #	1	DN3-630N	400-500	50	CM94104OOSOOG	32000 #	1
	500-630	50	CM94004OOTOOG	25350 #	1		500-630	50	CM94104OOTOOG	32610 #	1
DN2-250S	100-125	70	CM92002OOL1OG	14040	1	DN2-250S	100-125	70	CM92102OOL1OG	16360	1
	125-160	70	CM92002OOM1OG	15920	1		125-160	70	CM92102OOM1OG	18710	1
	160-200	70	CM92003OON1OG	18840	1		160-200	70	CM92103OON1OG	22930	1
	200-250	70	CM92003OOP1OG	21490	1		200-250	70	CM92103OOP1OG	24800	1
DN3-400S	250-320	70	CM94001OOQ1OG	24140	1	DN3-400S	250-320	70	CM94101OOQ1OG	29480	1
	320-400	70	CM94001OOR1OG	24140	1		320-400	70	CM94101OOR1OG	29480	1
DN3-630S	400-500	70	CM94002OOSOOG	32650 #	1	DN3-630S	400-500	70	CM94102OOSOOG	34670 #	1
	500-630	70	CM94002OOTOOG	32910 #	1		500-630	70	CM94102OOTOOG	39920 #	1

- Magnetic setting 3-6 In

Switch Disconnecter (MCCBs without protection release)

Switch Disconnecter									
3 Pole					4 Pole				
Type	Current Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Current Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250D	160	CM96817OOMOOG	8740	1	DN2-250D	160	CM96818OOMOOG	10820	1
	250	CM96802OOPPOOG	13190	1		250	CM96803OOPPOOG	17140	1
DN3-400D	400	CM96804OOROOG	15950	1	DN3-400D	400	CM96805OOROOG	20710	1
DN3-630D	630	CM96806OOTOOG	18120	1	DN3-630D	630	CM96807OOTOOG	23630	1

dsine MOULDED CASE CIRCUIT BREAKERS

dsine MCCBs with Microprocessor Releases RC10

Microprocessor Release RC10 (Integral Overload, Short circuit, Earth fault & Neutral protection), Icu = Ics = 100%											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250D	16-40	36	CM9206300000G	18510	1	DN2-250D	16-40	36	CM9215500000G	20400	1
	25-63	36	CM9207100000G	18510	1		25-63	36	CM9215400000G	20800	1
	40-100	36	CM9205100000G	18600	1		40-100	36	CM9215300000G	20930	1
	63-160	36	CM9207400000G	18690	1		63-160	36	CM9215200000G	23970	1
	100-250	36	CM9205400000G	21320	1		100-250	36	CM9215100000G	27710	1
DN3-400D	160-400	36	CM9300100000G	23430	1	DN3-400D	160-400	36	CM9300300000G	28660	1
DN3-630D	250-630	36	CM9300500000G	25270	1	DN3-630D	250-630	36	CM9300700000G	34710	1
DN2-250N	16-40	50	CM9206400000G	20240	1	DN2-250N	16-40	50	CM9216000000G	22660	1
	25-63	50	CM9207200000G	20240	1		25-63	50	CM9215900000G	22710	1
	40-100	50	CM9205200000G	20290	1		40-100	50	CM9215800000G	22770	1
	63-160	50	CM9207500000G	20390	1		63-160	50	CM9215700000G	27940	1
	100-250	50	CM9205500000G	23070	1		100-250	50	CM9215600000G	29770	1
DN3-400N	160-400	50	CM9300200000G	25510	1	DN3-400N	160-400	50	CM9300400000G	31390	1
DN3-630N	250-630	50	CM9300600000G	27380	1	DN3-630N	250-630	50	CM9300800000G	38370	1
DN4-1250N	320-800	50	CM960110000EG	51920	1	DN4-1250N	320-800	50	CM961110000EG	61060	1
	400-1000	50	CM9601200000G	61900	1		400-1000	50	CM9611200000G	80750	1
	500-1250	50	CM9601300000G	74560	1		500-1250	50	CM9611300000G	99900	1
DN2-250S	16-40	70	CM9206500000G	20230	1	DN2-250S	16-40	70	CM9216500000G	24410	1
	25-63	70	CM9206400000G	20240	1		25-63	70	CM9216400000G	24410	1
	40-100	70	CM9205900000G	22030	1		40-100	70	CM9216300000G	24530	1
	63-160	70	CM9207600000G	22680	1		63-160	70	CM9216200000G	29400	1
	100-250	70	CM9205600000G	25630	1		100-250	70	CM9216100000G	31280	1
DN3-400S	160-400	70	CM9405300000G	28330	1	DN3-400S	160-400	70	CM9415300000G	39890	1
DN3-630S	250-630	70	CM9407900000G	33480	1	DN3-630S	250-630	70	CM9417900000G	52530	1

dsine MCCBs with Motor Protection range

Only Short circuit protection					
3 Pole					
Type	Current Rating (A)	Breaking Capacity Iq at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN2-250M	100	50	CM9217200000G	8650	1
	125	50	CM9217200000G	8650	1
	160	50	CM9217200000G	9730	1
	200	50	CM9217100000G	13230	1
	250	50	CM9217100000G	17090	1
DN3-400M	320	50	CM9451600000G	18740	1
	400	50	CM9451600000G	19850	1

dsine MOULDED CASE CIRCUIT BREAKERS

Accessories for dsine MCCBs

Description (for DN MCCBs)	Internal			Description (for DN MCCBs)	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Aux. Contact 1 C/O	CM998010000	730	1	DN2 Direct Rotary Handle	CM998290000	1070	1
Aux. Contact 2 C/O	CM998020000	1300	1	DN3 Direct Rotary Handle	CM998600000	1580	1
Trip Alarm Contact 1 C/O	CM998030000	740	1	DN2 Extended Rotary Handle	CM998300000	1470	1
Aux. 1 C/O + TAC 1 C/O	CM998040000	1380	1	DN3 Extended Rotary Handle	CM998610000	2600	1
Shunt Release 110-415V AC , 110-220V DC	CM998050000	1680 &	1	DN4 Extended Rotary Handle	CM998840000	3640	1
Under Voltage Release - DN2 - 240V AC	CM999800000	1870 **	1	Panel door mounted Key lock for Extended Rotary Handle - Type 1	CM99958T0000	1310	1
Under Voltage Release - DN3 - 240V AC	CM999850000	1970 **	1	Panel door mounted Key lock for Extended Rotary Handle - Type 2	CM99958T000A	1310	1
Under Voltage Release - DN4 - 240V AC	CM999060000	2070 ** @	1	Panel door mounted Key lock for Extended Rotary Handle - Type 3	CM99958T000B	1310	1
				Panel door mounted Key lock for Extended Rotary Handle - Type 12	CM99958T000C	1310	1
				Panel door mounted Key lock for Extended Rotary Handle - Type 23	CM99958T000D	1310	1
				DN2-250 Spreader Terminals - 3 Pole	ST980530000	890	Set of 6
				DN3-400 Spreader Terminals - 3 Pole	ST980650000	1760	Set of 6
				DN3-630 Spreader Terminals - 3 Pole	ST980540000	1970	Set of 6
				DN4-400 Spreader Terminals - 3 Pole	ST903610000	3470	Set of 6
				DN4-1000-1250 Spreader Terminals - 3 Pole	ST980550000	13130	Set of 6
				DN2-250 Spreader Terminals - 4 Pole	CM920070000	1200	Set of 8
				DN3-400 Spreader Terminals - 4 Pole	ST980660000	2520	Set of 8
				DN3-630 Spreader Terminals - 4 Pole	CM920040000	2970	Set of 8
				DN4-600 Spreader Terminals - 4 Pole	ST903620000	4730	Set of 8
				DN4-1000-1250 Spreader Terminals - 4 Pole	ST980580000	17330	Set of 8
				DN2 Mechanical Interlock Kit - Base Mounted	CM997310000	3610	1
				DN3 Mechanical Interlock Kit - Base Mounted	CM997320000	5670	1
				DN2 Motor Operator - Direct drive - 240V AC	ST386080000	18540	1
				DN3 Motor Operator - Direct drive - 240V AC	ST386070000	19570	1

@ - Please contact nearest branch office for availability information.

& - 'NO' of control contactor to be connected in series for DC application.

** - Do not use these UV Cat. Nos. with 'Non-OG' Cat. Nos. MCCBs, Similarly, do not use old UV Cat. Nos. with 'OG Cat. Nos. MCCBs.

MOULDED CASE CIRCUIT BREAKERS

DH MCCB

Thermal - Magnetic Release (Thermal setting = 80-100% In) ,											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DH100 Ics = 100% Icu	12-16	25	SL972010000	4610	1	DH100 Ics = 100% Icu	12-16	25	SL985970000	6510	1
	16-20	25	SL972020000	4610	1		16-20	25	SL985980000	6510	1
	20-25	25	SL972030000	4610	1		20-25	25	SL985990000	6510	1
	25-32	25	SL972040000	4610	1		25-32	25	SL986000000	6510	1
	32-40	25	SL972050000	4610	1		32-40	25	SL986010000	6510	1
	40-50	25	SL972060000	4610	1		40-50	25	SL986020000	6510	1
	50-63	25	SL972070000	4610	1		50-63	25	SL986030000	6510	1
	63-80	25	SL972080000	4610	1		63-80	25	SL986040000	6510	1
DH125 Ics = 100% Icu	80-100	25	SL972090000	4920▲	1	80-100	25	SL986050000	6930▲	1	
	12-16	35	SL986440000	6580	1	DH125 Ics = 100% Icu	12-16	35	SL986110000	7620	1
	16-20	35	SL986450000	6580	1		16-20	35	SL986120000	7620	1
	20-25	35	SL986460000	6580	1		20-25	35	SL986130000	7620	1
	25-32	35	SL986470000	6580	1		25-32	35	SL986140000	7620	1
	32-40	35	SL986480000	6580	1		32-40	35	SL986150000	7620	1
	40-50	35	SL986490000	6580	1		40-50	35	SL986160000	7620	1
	50-63	35	SL986500000	6580	1		50-63	35	SL986170000	7620	1
63-80	35	SL986510000	6580	1	63-80		35	SL986180000	7690	1	
DH160*	80-100	35	SL986520000	7230▲	1	80-100	35	SL986190000	8470▲	1	
	100-125	35	SL986530000	7510▲	1	100-125	35	SL986070000	8470▲	1	
DH200*	128-160	35	SL986540000	10570▲	1	DH160*	128-160	35	SL986080000	11680▲	1
	160-200	35	SL986550000	11900▲	1						

▲ - Spreader Terminals are included.
DH250, 400, 630 MCCBs will be available till stocks last.

* Ics = 50% Icu

DL MCCB

Thermal - Magnetic Release (Thermal setting = 80-100% In) ,											
3 Pole						4 Pole					
Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DL100	12-16	65	SL978010000	9520	1	DL100	12-16	65	SL986200000	10820	1
	16-20	65	SL978020000	9520	1		16-20	65	SL986210000	10820	1
	20-25	65	SL978030000	9520	1		20-25	65	SL986220000	10820	1
	25-32	65	SL978040000	9520	1		25-32	65	SL986230000	10820	1
	32-40	65	SL978050000	9520	1		32-40	65	SL986240000	10820	1
	40-50	65	SL978060000	9520	1		40-50	65	SL986250000	10820	1
	50-63	65	SL978070000	9520	1		50-63	65	SL986260000	10820	1
	63-80	65	SL978080000	9520	1		63-80	65	SL986270000	10820	1
	80-100	65	SL978090000	9860▲	1	80-100	65	SL986280000	11350▲	1	

▲ - Spreader Terminals are included.

Accessories for DH100 / 125 / 160 / 200, DL100 MCCB

Description	Internal			Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DH100/125/160/200, DL100 Aux. Contact - 1 C/O - Right	SL972960000	770	1	DH100/125/160/200, DL100 Spreader Terminals - 3 Pole	ST980470000	320	Set of 6
DH100/125/160/200, DL100 Aux. Contact - 1 C/O - Left	SL972970000	770	1	DH100/125/160/200, DL100 Spreader Terminals - 4 Pole	ST980600000	420	Set of 8
DH100/125/160/200, DL100 Trip Alarm Contact - Right	SL972980000	800	1	DH100/125/160/200, DL100 S S Enclosure	ST299670000	1320	1
DH100/125/160/200, DL100 Shunt Release - 240V AC - Left	SL972990M00	870	1	DH100/125/160/200, DL100 - ROM - Extended - 3 & 4 Pole - New look	CM991030000	1150	1
DH100/125/160/200, DL100 Shunt Release - 24V DC - Left	SL972990400	880	1	DH100/125/160/200, DL100 - ROM - Extended - 3 Pole	SL973010000	930	1
DH100/125/160/200, DL100 Under Voltage Release - 240V AC - Left	SL976110000	1170	1				

MOULDED CASE CIRCUIT BREAKERS

DM MCCBs With Motor Protection Range

Only Short circuit protection :					
3 Pole					
Type	Current Rating (A)	Breaking Capacity Iq at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DM16	0.63	65	SL975810000	3820	1
	1.0	65	SL975820000	3820	1
	1.6	65	SL975830000	3820	1
	2.5	65	SL975840000	3820	1
	4.0	65	SL975850000	3820	1
	5.0	65	SL975860000	3820	1
	6.3	65	SL975870000	3820	1
	7.5	65	SL975880000	3820	1
	10.0	65	SL975890000	3820	1
	12.0	65	SL975900000	3820	1
	16.0	65	SL975910000	3820	1
	DM100	16.0	65	SL978110000	9550
25.0		65	SL978120000	9550	1
30.0		65	SL978160000	9550	1
35.0		65	SL978130000	9550	1
50.0		65	SL978140000	9550	1
60.0		65	SL978170000	9550	1
70.0		65	SL978150000	9550	1
80.0		65	SL979870000	9550	1

DM MCCBs With Motor Protection Range

Only Short circuit protection :					
3 Pole					
Type	Current Rating (A)	Breaking Capacity Iq at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DM160	100.0	65	SL971230000	15080	1
	120.0	65	SL977030000	15080	1
	160.0	65	SL971240000	15080	1
DM250	200.0	65	SL975510000	18720 ▲	1
	230.0	65	SL975520000	18720 ▲	1
	250.0	65	SL975530000	18720 ▲	1
DM400	275.0	65	SL975540000	22070 ▲	1
	325.0	65	SL975550000	22070 ▲	1
	350.0	65	SL975560000	22070 ▲	1
	400.0	65	SL975570000	22070 ▲	1

▲ - Spreader Terminals are included.

Note - Type 2 co-ordination chart for DCL and Star-Delta starting, as per IEC60947 - Part 4, is available on request.

Accessories for DM16 MCCB

Description (for DM16)	Internal			Description	External		Std. Pkg. (Nos.)
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		Cat. No.	M.R.P. (₹) Per Unit	
Aux. Contact - 1 C/O - Right	SL970230000	490	1	DM16 ROM - Extended	SL970440000	710	1
Aux. Contact - 1 C/O - Left	SL970250000	490	1				
Trip Alarm Contact - Right	SL970370000	500	1				
Shunt Release - 240 / 415V AC, 110V DC - Left	SL970420000	500	1				

Accessories for DM100 MCCB

Description	Internal		Std. Pkg. (Nos.)	Description	External		Std. Pkg. (Nos.)
	Cat. No.	M.R.P. (₹) Per Unit			Cat. No.	M.R.P. (₹) Per Unit	
DM100 Aux. Contact - 1 C/O - Right	SL972960000	770	1	DM100 Spreader Terminals - 3 Pole	ST980470000	320	Set of 6
DM100 Aux. Contact - 1 C/O - Left	SL972970000	770	1	DM100 Spreader Terminals - 4 Pole	ST980600000	420	Set of 8
DM100 Trip Alarm Contact - Right	SL972980000	800	1	DM100 S S Enclosure	ST299670000	1320	1
DM100 Shunt Release - 240V AC - Left	SL972990000	870	1	DM100 - ROM - Extended - 3 & 4 Pole - New look	CM991030000	1150	1
DM100 Shunt Release - 24V DC - Left	SL972990400	880	1	DM100 - ROM - Extended - 3 Pole	SL973010000	930	1
DM100 Under Voltage Release - 240V AC - Left	SL976110000	1170	1				

Accessories for DM160 MCCB

Description (for DM160)	Internal		Std. Pkg. (Nos.)	Description	External		Std. Pkg. (Nos.)
	Cat. No.	M.R.P. (₹) Per Unit			Cat. No.	M.R.P. (₹) Per Unit	
Aux. Contact - 2 C/O - Left	SL943290000	1870	1	DM160 ROM - Direct	SL943360000	1600	1
Aux. Contact - 2 C/O - Right	SL943300000	1870	1				
Shunt Release - 415V AC - Right	SL943310D00	1770	1				
Shunt Release - 240V AC - Right	SL943310B00	1770	1				
Under Voltage Release - 415V AC - Left	SL94332D000	1770	1				
Under Voltage Release - 240V AC - Left	SL94332B000	1770	1				

MOULDED CASE CIRCUIT BREAKERS

Accessories for DM250 / 400 MCCB

Description (for DM250/400)	Internal		Std. Pkg. (Nos.)	Description	External		Std. Pkg. (Nos.)
	Cat. No.	M.R.P. (₹) Per Unit			Cat. No.	M.R.P. (₹) Per Unit	
Aux. Contact - 2 C/O - Left / Right	SL975730000	1260	1	DM250/400 ROM - Extended - New Look	CM991010000	2630	1
Trip Alarm Contact - Right	SL975740000	1200	1	DM250/400 ROM	SL975620000	1080	1
Shunt Release - 415V AC, 220V DC	SL975750000	1380	1	DM250/400 Spreader Terminals - 3 Pole	ST980450000	2000	1
Shunt Release - 240V AC, 110V DC	SL975760000	1380	1	DM250/400 Terminals Shroud - 3 Pole	SL975630000	580	Set of 6
Under Voltage Release - 415V AC - Left	SL975790000	1600	1				
Under Voltage Release - 240V AC - Left	SL975800000	1600	1				

DTH MCCB

3 Pole						
Type	Current Rating (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	M.R.P. (₹) Per Unit	Application	Std. Pkg. (Nos.)
DTH630	360-500	50	SL944700000	36590	Distribution	1
	460-630	50	SL944710000	36590		1
DTH800	600-800	50	SL944720000	36860		1
DTH800 - Instantaneous	360	50	SB950520000	36860	Induction Furnace	1
	550	50	SB950530000	36860		1
	850	50	SB950540000	36860		1
	1050	50	SB950550000	36860		1

Accessories for DTH MCCB

Description	Internal		Std. Pkg. (Nos.)	Description	External		Std. Pkg. (Nos.)
	Cat. No.	M.R.P. (₹) Per Unit			Cat. No.	M.R.P. (₹) Per Unit	
DTH Aux. Contact - 2 C/O - Left / Right	SL942170000	1660	1	DTH ROM - Direct	SL943370000	1760	1
DTH Shunt Release - 415V AC, 220V DC - Right	SL985260000	1850	1				
DTH Shunt Release - 240V AC, 110V DC - Right	SL985340000	1850	1				
DTH Under Voltage Release - 415V AC - Left	SL985480000	1850	1				
DTH Under Voltage Release - 240V AC - Left	SL985450000	1850	1				

Earth Fault Module

Earth Fault Protection					
Type	Range (A)	Cat. No.	M.R.P. (₹) Per Unit	CT	Std. Pkg. (Nos.)
GF1	100, 125, 160, 200	ST277450000	6760	Built in CBCT	1
GF2	250, 400	ST277460000	10270	Built in CBCT	1
GF11	630, 800	ST285940000	6760 ##	External CT required	1

- Required external CT (% VA, 5P10), secondary rating 1A or 5A. CTs to be procured separately.

Auto Source Transfer Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-1000	ST802300000	55285	1

Can be used along with dsine MCCBs, U-POWER ACBs and MCX contactors

SWITCH DISCONNECTOR FUSE UNITS

Features offered by FN X SDFs

- Range 32A to 800A, 415V, AC23A
- TPN and FP version
- Suitable for cylindrical / DIN fuses
- User friendly Telescopic shaft for handle
- DIN rail mounting up to 100A

Features offered by FN SDFs

- Range 32A to 800A, 415V, AC23A
- TP / TPN / FP Versions
- Available in interior / in Sheet Steel Enclosures
- Suitable for cylindrical / DIN / Bolted fuses
- Conforming to IS 13947(Part 3) - 1993, IEC 60947-3, BS60947-3

Type FN X suitable for DIN fuses in open execution

Rated Current (A)	Suitable HRC Fuse		Type TPN				Type Four Pole			
	Type	(A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	HF	2 to 32	FN X 32 TPN/FP	SK96903	1520	1	FN X 32 TPN/FP	SK96903	1520	1
63	HF	2 to 63	FN X 63 TPN/FP	SK96904	2080	1	FN X 63 TPN/FP	SK96904	2080	1
100	HN Size 000	63 to 100	FN X 100 TPN/FP	SK96906	4310	1	FN X 100 TPN/FP	SK96906	4310	1
125	HN Size 00/000	63 to 125	FN X 125 TPN	SK95806	5580	1	FN X 125 FP	SK95814	6490	1
160	HN Size 00/000	63 to 160	FN X 160 TPN	SK95807	6450	1	FN X 160 FP	SK95815	7370	1
200	HN Size 0	80 to 200	FN X 200 TPN	SK95808	7010	1	FN X 200 FP	SK95816	7800	1
250	HN Size I	125 to 250	FN X 250 TPN	SK95809	9410	1	FN X 250 FP	SK95817	10180	1
315	HN Size I	125 to 315	FN X 315 TPN	SK95810	11640	1	FN X 315 FP	SK95818	12390	1
400	HN Size II	200 to 400	FN X 400 TPN	SK95811	14020	1	FN X 400 FP	SK95819	14750	1
630	HN Size III	315 to 630	FN X 630 TPN	SK95812	21630	1	FN X 630 FP	SK95820	22470	1
800	HN Size III	315 to 800	FN X 800 TPN	SK95813	23500	1	FN X 800 FP	SK95821	25960	1

Type FN (TPN) suitable for DIN fuses

Rated Current (A)	Suitable HRC Fuse		Open Execution				In Sheet Steel Enclosure			
	Type	(A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	HF	2 to 32	FN 32 TPN / FP	SK95518	1520	1	FN 32 TPN / FP	SK95612	3120	1
63	HF	2 to 63	FN 63 TPN / FP	SK95421	2080	1	FN 63 TPN / FP	SK95613	3850	1
100	HN Size 000	63 to 100	FN 100 TPN	SK95568	4560	1	FN 100 TPN	SK95569	6230	1
125	HN Size 00/000	63 to 125	FN 125 TPN	SK95001	5580	1	FN 125 TPN	SK95005	7320	1
160	HN Size 00/000	63 to 160	FN 160 TPN	SK95713	6450	1	FN 160 TPN	SK95715	8090	1
200	HN Size 0	80 to 200	FN 200 TPN	SK95418	7010	1	FN 200 TPN	SK95511	9170	1
250	HN Size I	125 to 250	FN 250 TPN	SK95642	9410	1	FN 250 TPN	SK95681	11550	1
315	HN Size I	125 to 315	FN 315 TPN	SK95461	11640	1	FN 315 TPN	SK95514	13760	1
400	HN Size II	200 to 400	FN 400 TPN	SK95481	14020	1	FN 400 TPN	SK95515	15800	1
630	HN Size III	315 to 630	FN 630 TPN	SK95521	21630	1	FN 630 TPN	SK95547	24890	1
800	HN Size III	315 to 800	FN 800 TPN	SK95679	23500	1	FN 800 TPN	SK95705	27640	1

HRC FUSE LINKS AND FUSE BASES

- Conforms to IS 13703 (Part 1 & 2) : 1993, IEC : 60269-1 (1986) & 60269-2-1 (2002)
- Range : 2A to 800A, 415V, AC 50Hz
- Type : DIN (63A to 800A), Cylindrical (2A to 63A) & Bolted (2A to 630A)
- Energy Saving Fuse Links

Cylindrical Fuse Links Type HF

Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
2	SF90144	81	30
4	SF90145	81	30
6	SF90146	81	30
8	SF90147	81	30
10	SF90148	81	30
16	SF90150	81	30
20	SF90151	81	30
25	SF90152	81	30
32	SF90142	85	30
40	SF90143	87	30
50	SF90158	162	30
63	SF90159	198	30

DIN Type Fuse Links Type HN

Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Size 000 :				
63	Suitable for Type FA-C 100 Switch fuse units and type FN 100/125/160 / FN 125/160 Switch Disconnecter Fuse Units.	SF94940	233	3
80		SF94941	233	3
100		SF94942	233	3
125	Also for HB 125 Fuse base	SF94946	233	3
Size 00 :				
63	Suitable for Type FA-C 100 Switch fuse units and type FN 100/125/160 / FN 125/160 Switch Disconnecter Fuse Units.	SF94027	358	3
80		SF94028	358	3
100		SF94029	358	3
125	Also for HB 125 Fuse base	SF94030	394	3
160		SF94939	471	3
Size 0 :				
80	Suitable for Type FN 200 / FN 200 Switch Disconnecter Fuse Units	SF94128	454	3
100		SF94129	454	3
125		SF94130	454	3
160		SF94131	454	3
200	Also for HB 250 Fuse base	SF94132	470	3
Size I :				
125	Suitable for Type FN 250/315 / FN 250/315 Switch Disconnecter Fuse Units.	SF94230	538	3
160		SF94231	538	3
200		SF94232	538	3
250	Also for HB 250 Fuse base	SF94233	607	3
315		SF94234	748	3
Size II :				
200	Suitable for Type FN 400 / FN 400 Switch Disconnecter Fuse Units.	SF94332	781	3
250		SF94333	781	3
315		SF94334	796	3
400	Also for HB 800 Fuse base	SF94335	796	3
Size III :				
315	Suitable for Type FN 630/800 / FN 630/800 Switch Disconnecter Fuse Units.	SF94434	1267	1
400		SF94435	1267	1
500		SF94436	1267	1
630	Also for HB 800 Fuse base	SF94437	1304	1
800		SF94938	1554	1

Bolted Fuse Links Type HG and HQ

Type	Fixing Method	Size	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HG	Offset, staggered	F1	2	ST30725	36	20
			4	ST30726	36	20
			6	ST30727	36	20
			10	ST30728	36	20
			16	ST30729	36	20
			20	ST30730	42	20
			25	ST30731	42	20
			32	ST30732	42	20
			2	ST30736	51	20
			4	ST30737	51	20
			6	ST30738	51	20
			10	ST30739	51	20
			16	ST30740	51	20
			20	ST30741	51	20
HQ	Offset	A1	25	ST30742	60	20
			32	ST30743	60	20
			20	ST34527	62	20
			25	ST34528	62	20
			32	ST34529	62	20
			50	ST35827	71	20
			63	ST35828	71	20
			4	ST30747	45	10
			6	ST30748	45	10
			10	ST30749	45	10
			16	ST30750	45	10
			20	ST30751	45	10
			25	ST30752	45	10
			32	ST30753	45	10
		35	ST30759	81	10	
		50	ST30760	81	10	
		63	ST30761	81	10	
		80	ST30767	151	10	
		100	ST30768	151	10	
		125	ST30769	186	10	
		160	ST35829	193	10	
		80	ST30774	186	10	
		100	ST30775	186	10	
		125	ST30776	211	10	
		125	ST30777	217	3	
		160	ST30778	217	3	
		200	ST30779	217	3	
		250	ST30781	317	3	
315	ST30782	330	3			
355	ST30783	591	3			
400	ST30784	591	3			
400	ST30785	812	1			
500	ST30786	834	1			
630	ST30787	1173	1			
630	ST30788	1381	1			

Fuse Pulling Handle

Description	Cat. No.	M.R.P. (₹)	Std. Pkg. (Nos.)
Fuse pulling handle for HF-Fuselinks from 2A-63A	SK91185	120	1
Insulated fuse pulling handle for Type HN fuse links from 63A-800A	SF90126	458	1

SWITCH DISCONNECTOR FUSE UNITS

Type FN (TPN) suitable for Bolted fuses

Rated Current (A)	Open Execution				
	Type	Fuse Size (Bolted Type)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg (Nos.)
32	FN 32 TPN	A1L	SK95653	1570	1
63	FN 63 TPN	A1L	SK95651	2060	1
100	FN 100 TPN	A3 / A4	SK95570	4330	1
125	FN 125 TPN	A4	SK95009	5400	1
160	FN 160 TPN	A4	SK95714	5590	1
200	FN 200 TPN	B2	SK95588	6540	1
250	FN 250 TPN	B2 / B3	SK95682	8840	1
315	FN 315 TPN	B3	SK95590	11130	1
400	FN 400 TPN	B4	SK95591	13100	1
630	FN 630 TPN	C2	SK95592	20310	1

Type FN (TPN) with CE handle suitable for cylindrical fuses

Type	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
FN 32	32A SDF with Type 'CE' handle	SK95703	1410	1
FN 63	63A SDF with Type 'CE' handle	SK95704	1950	1

Switch Interiors for Panel Mounting

Description	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
FFO TP Interior	32	SK91100	940	1
FF TP Interior	63	SK91000	1420	1
FAC 63 TPN	63	SK95156	2630	1
FAC 100 TPN	100	SK95157	4310	1

Type FN (TP) suitable for DIN fuses

Rated Current	Description	Cat. No.	Price Per Unit (₹)	Std. Pkg. (Nos.)
100	FN 100 TP	ST30287	*	1
125	FN 125 TP	ST27894	*	1
200	FN 200 TP	ST27895	*	1
250	FN 250 TP	ST31731	*	1
315	FN 315 TP	ST27897	*	1
400	FN 400 TP	ST27898	*	1
630	FN 630 TP	ST27899	*	1

* Available on request

SWITCH DISCONNECTOR ISOLATOR (TPN)

Type FN & FG

Rated Current (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32	FN 32 TPN	SK95541	1430	1
63	FN 63 TPN	SK95540	2050	1
100	FN 100 TPN	SK95571	3930	1
125	FN 125 TPN	SK95409	4810	1
200	FN 200 TPN	SK95607	6010	1
250	FN 250 TPN	SK95683	8510	1
315	FN 315 TPN	SK95609	9570	1
400	FN 400 TPN	SK95610	12540	1
630	FN 630 TPN	SK95611	18340	1
800	FN 800 TPN	SK95561	20970	1
1000	FN 1000 TPN	SK95710	25640	1
1000	FN 1000H TPN	SK95992	31910	1
1250	FG 1250 TPN	ST30198	39360	1
1600	FG 1600 TPN	ST30199	59560	1
2000	FG 2000 TPN	ST30200	144660	1
2500	FG 2500 TPN	ST30201	151040	1
3150	FG 3150 TPN	ST30202	170180	1

Note: The above units will not accommodate fuses.

FUSE BASES

Fuse Bases suitable for Bolted Fuse Links

Type	Connection Method	Fuse Type	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HD 20N	Both side cable	F1	20	ST30772	83	10
HD 20P	Both side busbar	F1	20	ST30773	83	10
HD 20B	Top busbar & bottom cable	F1	20	ST30766	83	10
HD 32H	Both side cable	F1	32	ST30733	105	10
HD 32P	Both side busbar	F1	32	ST30734	105	10
HD 32B	Top busbar & bottom cable	F1	32	ST30735	105	10
HK 32H	Both side cable	A2	32	ST30754	169	10
HK 32B	Top busbar & bottom cable	A2	32	ST30755	183	10
HK 63H	Both side cable	A3	63	ST30762	221	10
HK 63B	Top busbar & bottom cable	A3	63	ST30763	249	10
HK 125H	Both side cable	A4	125	ST30770	604	10
HK 125B	Top busbar & bottom cable	A4	125	ST30771	686	10

Fuse Bases suitable for Cylindrical / DIN Type HRC fuse links Type HF & HN

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Type HCO for HF fuses 2A to 32A	SK91314	147	10
Type HC for HF fuses 2A to 63A	SK91043	187	10
Type HB 125 Single pole fuse base	SK90405	301	12
Type HB 250 Single pole fuse base (125/200/250A)	SK90406	580	3
Type HB 800 Single pole fuse base (400/630/800A)	SK91051	1145	3

ACCESSORIES FOR SWITCH DISCONNECTOR FUSE UNITS

Accessories for FN

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For FN 32 / 63			
Auxiliary Contact Kit	SK91302	372	1
Handle Assembly - A	SK91257	302	1
Handle Assembly - B	SK91277	302	1
Handle Assembly - CE	SK91337	168	1
Terminal Shroud Kit	SK91190	102	1
For FN 100 / 125 / 160			
Handle Assembly - A	SK91258	565	1
Handle Assembly - B	SK91278	659	1
Shaft extension Kit	SK95600	174	1
Switched Neutral Kit	SK95233	2166	1
Auxiliary Contact Kit	SK91328	389	1
Terminal Shroud Kit	SK91137	140	1
Mechanical Interlock Kit	SK95232	938	1
For FN 200 / 250			
Handle Assembly - A	SK91258	565	1
Handle Assembly - B	SK91278	659	1
Switched Neutral Kit	SK95516	2200	1
Auxiliary Contact Kit	SK91329	504	1
Terminal Shroud Kit	SK91335	237	1
Interphase Barrier Kit - FN 200	SK91343	219	1
Mechanical Interlock Kit	SK95232	938	1
For FN 315 / 400 / 630 / 800			
Switched Neutral Kit FN 315/400	SK95517	2281	1
Switched Neutral Kit FN 630/800	SK95546	3078	1
Handle Assembly - A	SK91259	731	1
Handle Assembly - B	SK91279	731	1
Auxiliary Contact Kit	SK91330	504	1
Mechanical Interlock Kit	SK95545	1072	1
Terminal Shroud Kit - FN 315/400	SK91346	237	1
Terminal Shroud Kit - FN 630/800	SK91347	237	1
Interphase Barrier Kit - FN 315/400	SK91344	232	1
Interphase Barrier Kit - FN 630/800	SK91345	232	1
Shaft Extension Kit	SK91331	210	1

Spare Front Housing Assemblies for FN (DIN fuses)

Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
100	FN 100 Front housing assly	ST31677	2819	1
125	FN 125 Front housing assly	ST31678	3297	1
200	FN 200 Front housing assly	ST31679	3765	1
250	FN 250 (new) Front housing assly	ST31729	5116	1
315	FN 315 Front housing assly	ST31681	6169	1
400	FN 400 Front housing assly	ST31682	7775	1
630	FN 630 Front housing assly	ST31683	13955	1

Accessories for FNX

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For FNFX 32 / 63			
Auxiliary Contact Kit	SK91537	170	1
Handle Assembly	SK91524	312	1
Castell Lock	SK91530	574	1
Din Rail Assembly	SK91617	75	1
For FNFX 100			
Auxiliary Contact Kit	SK91538	327	1
Handle Assembly	SK91524	312	1
Castell Lock	SK91530	574	1
Din Rail Assembly	SK91617	75	1
For FNFX 125 / 160			
Auxiliary Contact Kit	SK91539	336	1
Handle Assembly	SK91525	590	1
Castell Lock	SK91531	1015	1
Mechanical Interlock kit	SK95232	938	1
For FNFX 200 / 250			
Auxiliary Contact Kit	SK91540	441	1
Handle Assembly	SK91525	590	1
Castell Lock	SK91531	1015	1
Mechanical Interlock kit	SK95232	938	1
For FNFX 315 / 400 / 630 / 800			
Auxiliary Contact Kit	SK91541	441	1
Handle Assembly	SK91526	737	1
Castell Lock	SK91531	1015	1
Mechanical Interlock kit	SK95545	1072	1

Castell Lock for FN - SDF

Rating (A)	Description & Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
From FN 100 to FN 250	A = SK00333 C = SK00335 B = SK00334 D = SK00336	1165	1
From FN 315 to FN 800	A = SK00345 C = SK00347 B = SK00346 D = SK00348	1165	1

Spares & Accessories for Switch Interiors

Description	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
FAC - Handle Assembly	63 / 100	SK90453	64	1
FFO / FF Handle Assembly	32 / 63	SK90998	75	1
FFO / FF Handle Coupler & Door Interlock	32 / 63	SK91079	383	1

Spare Kits for FN

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spare Kit for FN 400	SK91377	1474	1
Spare Kit for FN 630	SK91378	2202	1

ON LOAD CHANGEOVER SWITCHES - (63A to 1600A)

Type C-line in Open Execution New

Type	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CO2-125	125	CO212500000	6880	1
CO2-160	160	CO216000000	7670	1
CO2-200	200	CO220000000	9270	1
CO3-250	250	CO325000000	13110	1
CO3-315	315	CO331500000	13840	1
CO4-400	400	CO440000000	20020	1
CO4-630	630	CO463000000	23780	1
CO5-800	800	CO580000000	34490	1
CO5-1000	1000	CO510000000	57170	1

Spares & Accessories for C/Os & SDs

Type C-line / FG / FGC

Auxiliary Contact Block suitable for C/Os & Switch Disconnectors	Auxiliary Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
FG & FGC 63 - 1600	1 NO + 1 NC	ST265120000	379	1
	2 NO + 2 NC	ST265420000	658	1
CO Frame 2 (125-200A) Kit	2 NO + 2 NC	CX200020000	580	1
CO Frame 3 (250-315A) Kit	2 NO + 2 NC	CX300020000	632	1

Operating Handle suitable for	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
FG 63	ST265110000	474	1
FG 1000 / 1250 / 1600	ST265910000	2462	1
FGC 1000 / 1250	ST265910000	2462	1
CO Frame 2 & 3 (125-315A)	CX300010000	762	1
CO Frame 4 (400-800A)	CX400010000	1003	1

Type C-line in SS Enclosure New

Type	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CO2-125	125	CO212500S00	9330	1
CO2-160	160	CO216000S00	10230	1
CO2-200	200	CO220000S00	11810	1
CO3-250	250	CO325000S00	16440	1
CO3-315	315	CO331500S00	17200	1
CO4-400	400	CO440000S00	25160	1
CO4-630	630	CO463000S00	29180	1
CO5-800	800	CO580000S00	41920	1
CO5-1000	1000	CO510000S00	71190	1

Fuse Kit for DIN type fuses for	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CO Frame 2 (125A)	CX212500ODO	2641	1
CO Frame 2 (160A)	CX216000ODO	3495	1
CO Frame 2 (200A)	CX220000ODO	4457	1
CO Frame 3 (250A)	CX325000ODO	4695	1
CO Frame 3 (315A)	CX331500ODO	4913	1
CO Frame 4 (400A)	CX440000ODO	7304	1

Type FG / FGC (TPN)

Description	Type	Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Line mounting with 8 O/P terminals	FG 63	63	ST265100000	3980	1
Back to Back mtg. with 4 O/P terminals	FGC 1250	1250	ST274600000	85090	1
Back to Back mtg. with 8 O/P terminals	FG 1600	1600	ST274700000	118520	1

POWER CONTACTORS

Conforms to IS 13947-4-1 IEC 60947-4-1

3 POLE POWER CONTACTORS - Type MX

Type	AC1 Rating (415V)	AC3 Rating (415V)	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	AC1 Rating (415V)	AC3 Rating (415V)	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)							For DC control (Std. Coil Voltage - 24, 110, 220V)						
MX 06	20A	6A	1 NO	CS94012	585	10	MX 06	20A	6A	1 NO	CS94021	900	10
MX 06	20A	6A	1 NC	CS94013	585	10	MX 06	20A	6A	1 NC	CS94022	900	10
MX 09	20A	9A	1 NO	CS94014	625	10	MX 09	20A	9A	1 NO	CS94023	935	10
MX 09	20A	9A	1 NC	CS94015	625	10	MX 09	20A	9A	1 NC	CS94024	935	10
MX 12	20A	12A	1 NO	CS94016	685	10	MX 12	20A	12A	1 NO	CS94025	985	10
MX 12	20A	12A	1 NC	CS94017	685	10	MX 12	20A	12A	1 NC	CS94026	985	10

3 Pole Power Contactors - Type MNX

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
9	25	MNX 9	1 NO	CS94106	690	10
			1 NC	CS94107	690	10
12	30	MNX 12	1 NO	CS94108	775	10
			1 NC	CS94109	775	10
18	30	MNX 18	1 NO	CS94100	855	10
			1 NC	CS94101	855	10
22	32	MNX 22	1 NO	CS94980	980	10
			1 NC	CS94981	980	10
25	45	MNX 25	#	CS94110	1170	10
32	55	MNX 32	#	CS94111	2300	10
40	55	MNX 40	#	CS94190	3510	10
45	80	MNX 45	2 NO + 2 NC	ST19000	4525	1
50	80	MNX 50	2 NO + 2 NC	ST19001	4680	1
70	100	MNX 70	2 NO + 2 NC	ST19002	6490	1
80	100	MNX 80	2 NO + 2 NC	ST19003	7875	1
95	160	MNX 95	2 NO + 2 NC	CS94136	9230	1
110	160	MNX 110	2 NO + 2 NC	CS94137	10310	1
140	160	MNX 140	2 NO + 2 NC	CS94138	13825	1
185	250	MNX 185	2 NO + 2 NC	CS94139	18615	1
225	300	MNX 225	2 NO + 2 NC	CS94140	20740	1
265	350	MNX 265	2 NO + 2 NC	CS94141	24465	1
325	400	MNX 325	2 NO + 2 NC	CS94143	29785	1
400	425	MNX 400	2 NO + 2 NC	CS94144	36695	1
550	650	MNX 550	2 NO + 2 NC	CS94145	57120	1
650	850	MNX 650	2 NO + 2 NC	CS96327	65345	1

3 Pole Power Contactors - Type ML

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
25	25	ML 1.5	2 NO + 2 NC	SS91851	1585	1
32	40	ML 2	2 NO + 2 NC	SS90701	2935	1
40	45	ML 3	2 NO + 2 NC	SS90721	4380	1
70	100	ML 4	2 NO + 2 NC	SS90910	7220	1
110	125	ML 6	2 NO + 2 NC	SS90921	10945	1
200	250	ML 10	2 NO + 2 NC	SS90935	24070	1
300	400	ML 12	2 NO + 2 NC	SS91010	26805	1

Notes:

- # Add on blocks can be ordered separately
- Std. Coil Voltage :
MNX / MO / ML - 110V, 220V, 240V and 415V, 50Hz
MCX - 220V, 240V, 50Hz
- For Ordering Suffix please refer page 24
- For Ordering MX accessories please refer page 22
- *Ordering Suffix for MCX21 / MCX22; FO00 - 240V AC, RO00 - 415V AC.

New 3 Pole Power Contactors - Type MO SUPERNOVA™

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
9	30	MO 9	#	CS94564	600	10
12	35	MO 12	#	CS94565	680	10
18	40	MO 18	#	CS94566	760	10
25	45	MO 25	#	CS94567	1170	10
32	50	MO 32	#	CS94568	2415	10
40	50	MO 40	#	CS94569	3510	10
45	50	MO 45	#	CS94570	4240	10
50	65	MO 50	#	CS94572	4400	1
60	80	MO 60	#	CS94573	5265	1
70	100	MO 70	#	CS94574	6205	1
80	125	MO 80	#	CS94576	7590	1
95	125	MO 95	#	CS94577	8945	1
110	140	MO 110	#	CS94578	10035	1

4 Pole Power Contactors - Type MCX

Type	Aux. Contacts	AC-1 Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MCX 01	-	16	CS94316	905	10
MCX 02	-	25	CS94317	1005	10
MCX 03	-	32	CS94318	1055	10
MCX 04	-	40	CS94319	1655	10
MCX 11	-	50	CS94657	2005	1
MCX 12	-	63	CS94656	3760	1
MCX 21*	2 NO + 2 NC	80	CS94653	5415	1
MCX 22*	2 NO + 2 NC	100	CS94654	6220	1
MCX 31	1 NO + 1 NC	130	CS94320	8625	1
MCX 32	1 NO + 1 NC	160	CS94321	12535	1
MCX 33	1 NO + 1 NC	200	CS94322	15045	1
MCX 34	1 NO + 1 NC	255	CS94323	17050	1
MCX 41	2 NO + 2 NC	325	CS94292	27580	1
MCX 42	2 NO + 2 NC	360	CS94286	30090	1
MCX 43	2 NO + 2 NC	400	CS94287	37610	1
MCX 44	2 NO + 2 NC	500	CS94288	43630	1
MCX 45	2 NO + 2 NC	600	CS94289	52155	1
MCX 46	2 NO + 2 NC	700	CS94290	63190	1

4 Pole Mechanically Interlocked Contactors

Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Two MCX 11	#	CS94362	5065	1
Two MCX 12	#	CS94365	8575	1
MCX 11 - MCX 12	#	CS94363	6820	1

POWER CONTACTORS ACCESSORIES

Add-on Auxiliary contact blocks for MNX, MCX and ML

Mounting Position	Contacts	Contactors	Cat. No.	M.R.P. (₹) Per Unit
Top	4 NO	MNX 9-40/ MCX 01-12	CS94112	285
	3 NO + 1 NC		CS94113	285
	2 NO + 2 NC		CS94114	285
	1 NO + 3 NC		CS94115	285
	4 NC		CS94116	285
	2 NO		CS94117	170
	1 NO + 1 NC		CS94118	170
	2 NC		CS94119	170
	1 NO		CS94120	90
	1 NC		CS94121	90
First Left	1 NO + 1 NC	MNX 9-40/	CS94220	230
First Right	1 NO + 1 NC	MCX 01-04	CS94221	230
First Left	1 NO + 1 NC	MNX 45-80/ MCX 11-22	CS94201	285
First Right	1 NO + 1 NC		CS94202	285
Second Left	1 NO + 1 NC	MNX 95-650/ MCX 31-46	CS94203	285
Second Right	1 NO + 1 NC		CS94204	285
First Left	1 NO + 1 NC	MNX 95-650/ MCX 31-46	CS94205	325
First Right	1 NO + 1 NC		CS94206	325
Second Left	1 NO + 1 NC	ML 4/6	CS94207	325
Second Right	1 NO + 1 NC		CS94208	325
Side Left / Right	1 NO + 1 NC	ML 10/12	SS91494	355
Side Left / Right	1 NO + 1 NC	ML 10/12	SS91474	355

Surge Suppressor for MNX & MCX

Contactors	Cat. No.	M.R.P. (₹) Per Unit
MNX 9-40 / MCX 01-04	CS94166	285
MNX 45-80 / MCX 11-22	CS94163	285
MNX 95-225 / MCX 31-34	CS94164	1020
MNX 265-400 / MCX 41-44	CS94165	1375

Ordering Suffix 110-240V : BOOO
415V : AOOO

Add-on Auxiliary contact blocks for MO

Mounting Position	Contacts	Contactors	Cat. No.	M.R.P. (₹) Per Unit
Top	4 NO	MO 9-110	CS94594	285
	3 NO + 1 NC		CS94595	285
	2 NO + 2 NC		CS94596	285
	1 NO + 3 NC		CS94597	285
	4 NC		CS94598	285
	2 NO		CS94591	170
	1 NO + 1 NC		CS94592	170
	2 NC		CS94593	170
	1 NO		CS94585	90
	1 NC		CS94586	90
First Left	1 NO + 1 NC		CS94580	285
First Right	1 NO + 1 NC		CS94581	285
Second Left	1 NO + 1 NC		CS94582	285
Second Right	1 NO + 1 NC		CS94583	285

Mechanical Interlock Kit for MO and MNX

Contactors	Cat. No.	M.R.P. (₹) Per Unit
MO 9-110	CS94584	305
MNX 9-40	CS94126	305
MNX 45-80	CS94197	1190
MNX 95-140	CS94198	1955
MNX 185-225	CS94199	2240
MNX 265-650	CS94200	2535

Mechanically interlock kit for MCX

Type	Cat. No.	M.R.P. (₹) Per Unit
MCX 06 to MCX 04	CS94126	305
MCX 21 to MCX 22	CS93095	1885
MCX 31 to MCX 34	SS94992	2005
MCX 41 to MCX 46	CS94301	3310

CONTACTOR RELAYS

Type MX0

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	MX0 40E (4 NO)	CS94018	705	10
	MX0 31E (3 NO + 1 NC)	CS94019	705	10
	MX0 22E (2 NO + 2 NC)	CS94020	705	10
	MX0 13E (1 NO + 3 NC)	CS94041	705	10
	MX0 04E (4 NC)	CS94042	705	10
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A	MX0 40E (4 NO)	CS94027	935	10
	MX0 31E (3 NO + 1 NC)	CS94028	935	10
	MX0 22E (2 NO + 2 NC)	CS94029	935	10
	MX0 13E (1 NO + 3 NC)	CS94043	935	10
	MX0 04E (4 NC)	CS94044	935	10

For Ordering Suffix please refer page 24

Add on Auxiliary Contact Block for MX

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX - A1 02E - 2 NO	CS94030	150	10
MX - A1 11E - 1 NO + 1 NC	CS94031	150	10
MX - A1 02E - 2 NC	CS94032	150	10
MX - A1 40E - 4 NO	CS94033	265	10
MX - A1 31E - 3 NO + 1 NC	CS94034	265	10
MX - A1 22E - 2 NO + 2 NC	CS94035	265	10
MX - A1 13E - 1 NO + 3 NC	CS94036	265	10
MX - A1 04E - 4 NC	CS94037	265	10

Mechanically interlock kit for MX

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 09 / MX 0	CS94038	260	1

Surge Suppressor for MX

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 09 / MX 0 AC	CS94039	275	1

CONTACTOR RELAYS

Type MN0

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	MN0 40E (4 NO)	SS94660	935	10
	MN0 31E (3 NO + 1 NC)	SS94661	935	10
	MN0 22E (2 NO + 2 NC)	SS94662	935	10
	MN0 13E (1 NO + 3 NC)	SS94663	935	10
	MN0 04E (4 NC)	SS94664	935	10
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A	MN0 40E (4 NO)	SS94665	1370	10
	MN0 31E (3 NO + 1 NC)	SS94666	1370	10
	MN0 22E (2 NO + 2 NC)	SS94667	1370	10
	MN0 13E (1 NO + 3 NC)	SS94668	1370	10
	MN0 04E (4 NC)	SS94669	1370	10

For Ordering Suffix please refer page 24

Add on Auxiliary Contact Block for MN Contactors

Contacts Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
4 NO	SS94083	285	10
3 NO + 1 NC	SS94084	285	10
2 NO + 2 NC	SS94085	285	10
1 NO + 3 NC	SS94086	285	10
4 NC	SS94087	285	10
2 NO	SS94080	170	10
1 NO + 1 NC	SS94081	170	10
2 NC	SS94082	170	10
1 NO	SS94715	90	10
1 NC	SS94716	90	10

Surge Suppressor for MN0

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN0 AC	SS94623	285	1

Ordering Suffix 110-240V : B000
415V : A000

DEFINITE PURPOSE CONTACTORS

For Ordering Suffix please refer page 24

Single Pole Contactors Type MR

Standard Voltage 240V, 50Hz

Type	AC3 Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MR 11W	25A	CS94176	500	10
MR 11NW	25A	CS94178	570	10
MR 13	40A	CS94992	550	10

Ordering suffix B000 - 240V, 50Hz

3 Pole Contactors Type MU

Type	AC3 Rating (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 1	16A	CS94007	1100	10
MU 2	25A	CS94008	1450	10

For Overload Relays type MU please refer page no. 25

Capacitor Duty Contactors Type MPX

Standard Voltage 230V, 50Hz

Type	Built-in Auxiliary Contacts	kVAR Rating @ 400V, 3Ph, 50Hz	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MPX 8	1 NO	8	ST41807	1650	1
MPX 12	1 NO	12.5	ST41808	1755	1
MPX 15	-	15	ST41809	2340	1
MPX 25	-	25	ST41810	3035	1
MPX 30	-	30	ST41811	6065	1
MPX 50	-	50	ST41812	9360	1
MPX 60	-	60	ST41813	10635	1

4 Pole Contactors Type MK1

Standard Coil Voltage 110, 220, 230 / 250, 360, 400 / 440V, 50Hz

Type	AC3 Rating (A)	Motor Output 3 Phase 415V, 50Hz		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
		HP	KW			
MK 1	11A	5.5	7.5	SS95200	755	10

For Overload Relays type MK1 please refer page no. 25

Add on Auxiliary Contact Block for MU / MR / MPX

For Contactor	Description	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 1 / MU 2	Side mounted auxiliary contact block	1 NO + 1 NC	SS94072	110	10
		1 NC	SS94074	85	10
MR	Add on Single pole (AC11 - 4A)	1 NO	CS94179	130	10
MPX 8 / 12 / 15 / 25 / 30 / 50 / 60	Side Add on block	1 NC	ST41818	450	1
	Side Add on block	1 NO	ST41819	450	1
	Side Add on block	1 NO + 1 NC	ST94985	595	1

SPARES

Spare Contact Kit and Spare Coil

Type	Spare Contact kit		Spare Coil			
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit		
MO 9	CS96580	425	CS96317	345		
MO 12	CS96581	550				
MO 18	CS96582	600				
MO 25	CS96383	620				
MO 32	CS96384	1020				
MO 40	CS96385	1380				
MO 45	CS96386	1820				
MO 50	CS96387	1965	CS96318	935		
MO 60	CS96388	2080				
MO 70	CS96389	2560				
MO 80	CS96390	2980				
MO 95	CS96391	3195	CS96319	1210		
MO 110	CS96392	3720				
MNX 9	CS94123	425			CS94105	345
MNX 12	CS94124	550				
MNX 18	CS94125	600				
MNX 22	CS94269	615				
MNX 25	CS94127	620				
MNX 32	CS94128	1020				
MNX 40	CS94147	1380				
MNX 45	CS94149	1820	CS94192	935		
MNX 50	CS94150	1965				
MNX 70	CS94151	2560				
MNX 80	CS94152	2980				
MNX 95	CS94153	3195				
MNX 110	CS94154	3720				
MNX 140	CS94155	4660			CS94196	1210
MNX 185	CS94156	8140				
MNX 225	CS94157	10490	CS94194	2455		
MNX 265	CS94159	11055	CS94195	2820		
MNX 325	CS94160	14785				
MNX 400	CS94161	17080				
MNX 550	CS94162	26520	CS94193	10990		
MNX 650	CS96336	28440				
MCX 04	-	-	CS94105	345		
MCX 11	CS94077	1180	CS94009	55		
MCX 12	CS94078	1730				
MCX 21	CS94350	2860	CS94192	935		
MCX 22	CS94331	3295				
MCX 31	CS94081	4780			CS94196	1210
MCX 32	CS94082	4925				
MCX 33	CS94083	5975				
MCX 34	CS94084	6610				
MCX 41	CS94295	14325	CS94195	2820		
MCX 42	CS94296	18905				
MCX 43	CS94297	20385				
MCX 44	CS94298	22205				
MCX 45	CS94299	28005				
MCX 46	CS94300	31595	CS94193	10990		
MPX 8/12	-	-	ST41820	680		
MPX 15/25/30	-	-	ST41821	795		
MPX 50/60	-	-	ST41822	1365		

Type	Spare Contact kit		Spare Coil	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MU 1	CS94010	135	CS94009	355
MU 2	CS94011	710		
ML 0	SS95301	595	SS90873	460
ML 1	SS95303	740		
ML 1.5	SS95305	1100		
ML 2	SS95307	1610	SS90545	675
ML 3	SS95309	2590		
ML 4	SS95311	4195	SS91258	1295
ML 6	SS95313	7235		
ML 10	SS95315	13555	SS91011	2845
ML 12	SS95317	18040		
MN 0 ac			SS9191	335
MN 0 dc			SS94651	595

Front housing and moving bridge kit		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 0	ST28732	275
ML 1	ST28733	275
ML 1.5	ST28734	275
ML 2/ML 3	ST23866	380
ML 4/ML 6	ST28735	700

Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	SS90650	1425

Table B

Ordering suffix for coil voltages			
AC Control		DC Control	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	G000	24	4000
42	H000	48	5000
48	J000	110	1000
110	A000	220	2000
220	K000		
230	N000		
240	B000		
220 / 240	Q000		
320	R000		
360	C000		
380	L000		
415	D000		
440	P000		
525	M000		

BIMETAL OVERLOAD RELAYS

Type MX-R0

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated)	0.1 - 0.16	ST94074O0BO	840	10
	0.16 - 0.24	ST94074O0DO	840	10
	0.22 - 0.33	ST94074O0EO	840	10
	0.3 - 0.45	ST94074O0GO	840	10
	0.45 - 0.67	ST94074O0HO	840	10
Direct Mounting on MX Range	0.67 - 1.0	ST94074O0KO	840	10
	1.0 - 1.5	ST94074O0MO	840	10
	1.4 - 2.1	ST94074O0NO	840	10
	1.8 - 2.7	ST94074O0PO	840	10
	2.4 - 3.6	ST94074O0QO	840	10
	3.5 - 5	ST94074O0SO	840	10
	4.0 - 6.0	ST94074O0TO	840	10
	5.5 - 8.5	ST94074O0UO	840	10
	8.5 - 12.5	ST94074O0VO	840	10

Type ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
ML 0 / ML 1 / ML 1.5				
(Directly Operated)	0.15 - 0.25	SS91858O0DO	1160	10
	0.25 - 0.4	SS91858O0FO	1160	10
	0.4 - 0.65	SS91858O0HO	1160	10
	0.6 - 1	SS91858O0KO	1160	10
	1 - 1.6	SS91858O0MO	1160	10
Directly Mounting	1.5 - 2.5	SS91858O0PO	1160	10
	2.5 - 4	SS91858O0RO	1160	10
	4 - 6.5	SS91858O0TO	1160	10
	6 - 10	SS91858O0VO	1160	10
	10 - 16	SS91858O0BO	1160	10
ML 2 / ML 3				
(Directly Operated)	9 - 14	SS91859O0AO	1720	2
Directly Mounting	13 - 21	SS91859O0CO	1720	2
	20 - 32	SS91859O0EO	1720	2
	28 - 42	SS91859O0FO	1720	2

Type MN

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	
MN 2					
(Directly Operated)	0.2 - 0.33	SS94141O0EO	1015	10	
	0.3 - 0.5	SS94141O0GO	1015	10	
	0.45 - 0.75	SS94141O0JO	1015	10	
	0.6 - 1	SS94141O0KO	1015	10	
Direct mounting on MNX 9/ MNX 12/ MNX 18/ MNX 22/ MNX 25/ MNX 32/ MNX 40	0.9 - 1.5	SS94141O0MO	1015	10	
	1.4 - 2.3	SS94141O0PO	1015	10	
	2 - 3.3	SS94141O0QO	1015	10	
	3 - 5	SS94141O0SO	1015	10	
	4.5 - 7.5	SS94141O0UO	1015	10	
	6 - 10	SS94142O0VO	1015	10	
	9 - 15	SS94142O0BO	1015	10	
	14 - 23	SS94144O0DO	1105	10	
	20 - 33	SS94145O0EO	1425	10	
	24 - 40	SS94145O0FO	1425	10	
MN 5					
(Directly Operated)	20 - 33	SS94136O0EO	1795	10	
Direct Mounting	30 - 50	SS94136O0GO	1925	10	
	45 - 75	SS94137O0JO	2865	10	
(CT Operated)	66 - 110	SS94137O0KO	2865	10	
	MN 12				
	Separate Mounting	42 - 69	SS94138O0HO	5710	1
		60 - 100	SS94138O0KO	5710	1
		90 - 150	SS94138O0MO	5710	1
135 - 225		SS94138O0PO	5710	1	
180 - 300		SS94139O0QO	6460	1	
(CT Operated)	270 - 450	SS94139O0RO	7015	1	
	MN 12L #				
	Separate Mounting	42 - 69	SS94127O0HO	7075	1
		60 - 100	SS94127O0KO	7075	1
		90 - 150	SS94127O0MO	7075	1
		135 - 225	SS94127O0PO	7075	1
180 - 300		SS94127O0QO	7075	1	
340 - 570		SS94127O0SO	7075	1	

Type MK1

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
(Directly Operated)	0.15 - 0.25	SS90035O0DO	565	10
	0.25 - 0.4	SS90035O0FO	565	10
	0.4 - 0.65	SS90035O0HO	565	10
	0.6 - 1	SS90035O0KO	565	10
	1 - 1.6	SS90035O0MO	565	10
Direct Mounting	1.5 - 2.5	SS90035O0PO	565	10
	2.5 - 4	SS90035O0RO	565	10
	4 - 6.5	SS90035O0TO	565	10
	6 - 10	SS90035O0VO	565	10
	9 - 14	SS90035O0AO	565	10
	11 - 18	SS90036O0CO	565	10
	13 - 22	SS91888O0DO	620	10

Type MU

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU1				
Direct Mounting	4 - 6.5	SS96557O0TO	861	10
	6 - 10	SS96557O0VO	861	10
(Directly Operated)	9 - 14	SS95979O0AO	1302	10
	13 - 21	SS95979O0CO	1302	10
	20 - 32	SS95979O0EO	1302	10
	28 - 42	SS95979O0FO	1302	10

For motors with longer starting time

Accessories for Bimetal Overload Relays

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button unit for MK 1 / ML Relays	SS90004	98	20
Push button unit for MN Relays	SS94001	120	20
Push button extn. unit for MN 2 Relays	SS94968	15	100
Kit for Mounting MN 2 relay on ML 0 / 1 / 1.5 contactor	SS94701	65	50
Kit for Mounting MN 2 relay separately (Direct Mounting Type)	SS94700	65	50
Kit for Mounting MN 5 relay on MNX 95 / 110 / 140 contactor	SS94638	80	20
Kit for Mounting MN 5 relay on ML 2 / ML 3 contactor	SS94151	75	20
Kit for Mounting MN5 relay on ML 4 / ML 6 contactor	SS94152	115	20
DIN Rail Mounting Kit relay on MN 2 Relay	SS91887	40	50

Relay Reset Cord For MN2 Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN2 Relay reset cord - 400mm	SB942070000	360	1
MN2 Relay reset cord - 650mm	SB942080000	390	1
MN2 Relay reset cord - 900mm	SB942090000	430	1
MN2 Relay reset cord - 1200mm	SB942100000	495	1

TIMERS

Electronic Timers Type ET100

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
110 / 240V, 50Hz for			
3 - 10 secs.	SE92001	2280	1
9 - 30 secs.	SE92002	2280	1
36 - 120 secs.	SE92003	2280	1
240 / 360 / 415V[±], 50Hz for			
3 - 10 secs.	SE92004	2280	1
9 - 30 secs.	SE92006	2280	1
36 - 120 secs.	SE92007	2280	1

#360V tap can be used for 240V connections

Thermal Timers Type GT200

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Operating Voltages: 230/250V, 360V, 400/440V, 500V, 50Hz for 5 - 18 secs. range	SS91270	1730	1

To order a Timer, please specify Type & Cat. No.

CONTROL ACCESSORIES

Actuator Units Type TK3

6A, 415V, 50Hz (Suitable for 30.5mm Cutout Dia.)

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Selector actuator - 2 position (black only)	SS91516	290	30
Selector actuator - 3 position (black only)	SS91517	290	30
Mushroom push button actuator (red, green or black)	SS91518	175	30
Shrouded push button actuator (red, black, green, yellow, blue or grey)	SS91519	125	30
Unshrouded push button actuator (red, black, green, yellow, blue or grey)	SS91520	125	30
Key actuator - lockable in 1 position	SS91522	390	30
Key actuator - lockable in both positions	SS91521	390	30
Element with 2 fixing screws	SS90375	145	100

Push Button Pendants

6A, 415V, 50Hz

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
With 2 push buttons	SS90502	675	30
With 4 push buttons	SS90504	1260	30
With 6 push buttons	SS90506	1695	30

Ordering Suffix for Colour

Black	OAOO
Red	OBOO
Green	OCOO
Yellow	ODOO
Blue	OEOO
Grey	OFOO

To order Control Accessories, please specify Type,
Cat. No. and Ordering Suffix for Colour.

MOTOR PROTECTION CIRCUIT BREAKERS



Type MOG-S1 (Rocker Type)

(ROM cannot be fitted with MOG - S1)
With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (KW)	Thermal Release range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	ST418890000	1845	1
0.25	0.06	0.16 - 0.25	ST418900000	1845	1
0.40	0.09	0.25 - 0.40	ST418910000	1845	1
0.63	0.12	0.40 - 0.63	ST418920000	2000	1
1.00	0.25	0.63 - 1.00	ST418930000	2000	1
1.60	0.55	1.00 - 1.60	ST418940000	2000	1
2.50	0.75	1.60 - 2.50	ST418950000	2000	1
4.00	1.50	2.50 - 4.00	ST418960000	2100	1
6.30	2.20	4.00 - 6.30	ST418970000	2100	1
10.00	4.00	6.30 - 10.00	ST418980000	2200	1
13.00	5.40	9.00 - 13.00	ST418990000	2300	1

Breaking capacity : Icu = 100kA upto 10A & Icu = 50kA for 13A

Type MOG-H1M (Rotary Type) - Frame 1

With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (KW)	Short Circuit Release (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.16	ST419230000	1800	1
0.25	0.06	0.25	ST419240000	1800	1
0.40	0.09	0.40	ST419250000	1800	1
0.63	0.12	0.63	ST419260000	2600	1
1.00	0.25	1.00	ST419270000	2600	1
1.60	0.55	1.60	ST419280000	2600	1
2.50	0.75	2.50	ST419290000	2600	1
4.00	1.50	4.00	ST419300000	2700	1
6.30	2.20	6.30	ST419310000	2700	1
10.00	4.00	10.00	ST419320000	2800	1
13.00	5.40	13.00	ST419330000	2800	1
16.00	7.50	16.00	ST419340000	3050	1
20.00	9.00	20.00	ST419350000	3300	1
25.00	12.50	25.00	ST419360000	3800	1
32.00	15.00	32.00	ST419370000	5200	1

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

Type MOG-H1 (Rotary Type) - Frame 1

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (KW)	Thermal Release range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	ST419040000	2300	1
0.25	0.06	0.16 - 0.25	ST419050000	2300	1
0.40	0.09	0.25 - 0.40	ST419060000	2300	1
0.63	0.12	0.40 - 0.63	ST419070000	2450	1
1.00	0.25	0.63 - 1.00	ST419080000	2450	1
1.60	0.55	1.00 - 1.60	ST419090000	2700	1
2.50	0.75	1.60 - 2.50	ST419100000	2700	1
4.00	1.50	2.50 - 4.00	ST419110000	2700	1
6.30	2.20	4.00 - 6.30	ST419120000	2700	1
10.00	4.00	6.30 - 10.00	ST419130000	2850	1
13.00	5.40	9.00 - 13.00	ST419140000	2850	1
16.00	7.50	11.00 - 16.00	ST419150000	3150	1
20.00	9.00	14.00 - 20.00	ST419160000	3400	1
25.00	12.50	19.00 - 25.00	ST419170000	3700	1
32.00	15.00	24.00 - 32.00	ST419180000	5175	1

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

Type MOG-H2M (Rotary Type) - Frame 2

With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (KW)	Short Circuit Release (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	32.00	ST419380000	7200	1
40.00	20.00	40.00	ST419390000	7200	1
50.00	25.00	50.00	ST419400000	8200	1
63.00	34.00	63.00	ST419410000	8200	1

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

Type MOG-H2 (Rotary Type) - Frame 2

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (KW)	Thermal Release range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	24.00 - 32.00	ST419190000	8150	1
40.00	20.00	28.00 - 40.00	ST419200000	8250	1
50.00	25.00	35.00 - 50.00	ST419210000	8800	1
63.00	34.00	45.00 - 63.00	ST419220000	9500	1

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

Accessories for MOG

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Front mtg. 1NO	ST419420000	400	1
Auxiliary Contact Front mtg. 1NC	ST419430000	400	1
Auxiliary Contact Left side mtg. 2NO	ST419440000	500	1
Auxiliary Contact Left side mtg. 1NO + 1NC	ST419450000	500	1
Auxiliary Contact Left side mtg. 2NC	ST419460000	500	1
Trip Alarm Contact Front mtg. 1NO	ST419470000	610	1
Trip Alarm Contact Front mtg. 1NC	ST419480000	610	1
Auxiliary + Alarm Left side mtg. 2NO	ST419490000	675	1
Short circuit alarm Left side mtg. 1NO + 1NC	ST419500000	675	1
Shunt trip 24V DC	ST419510000	1100	1
Shunt trip 110V, 50Hz	ST419520000	1100	1
Shunt trip 230V, 50Hz	ST429520000	1100	1
Under Voltage release, 110V,50Hz	ST419530000	1100	1
Under Voltage release, 415V,50Hz	ST419540000	1100	1
External operating handle, (Black) Frame 1	ST419550000	850	1
External operating handle, (Black) Frame 2	ST419560000	850	1

MOTOR STARTERS

Direct-on-Line Starters

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

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg.
HP	kW					
2.0	1.5	12 - 20	MF1-1 Phase	SS97227	656	1
7.5	5.5	9 - 15	MF1-3 Phase	SS97210	885	1
7.5	5.5	9 - 14	MK1 DOL	SS96210	1375	1
7.5	5.5	11 - 18	MK1 DOL	SS96211	1375	1
7.5	5.5	13 - 22	MK1 DOL	SS96228	1435	1
10.0	7.5	13 - 21	MU1 DOL #	SS95647	2300	1
10.0	7.5	14 - 23	MB1 DOL #	SS95649	2250	1
15.0	11.0	20 - 32	MU2 DOL #	SS95648	3010	1
15.0	11.0	20 - 33	MB2 DOL #	SS95650	3030	1

Direct-on-Line Starters

in Sheet-Steel Enclosure Type MN with SPP feature
(Motor Rating AC-3 Duty, 415V, 50 Hz, 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					
10.0	8.0	9 - 15	MN 16 DOL	SS94351	2265	1
15.0	11.0	14 - 23	MN 25 DOL	SS94352	3475	1
20.0	15.0	20 - 33	MN 32 DOL	SS94353	6235	1
30.0	23.0	30 - 50	MN 45 DOL	SS94017	9250	1
45.0	34.0	45 - 75	MN 65 DOL	SS94018	13000	1
15.0	11.0	20 - 32	ML 1.5 DOL®	SS91854	3375	1
20.0	15.0	20 - 32	ML 2 DOL	SS90702	5622	1
30.0	22.5	28 - 42	ML 3 DOL	SS90722	9250	1

@ Available till stocks last

Semi-Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type MK, MU & MB
(Motor Rating AC-3 Duty, 415V, 50 Hz, 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					
12.5	9.3	9 - 14	MK1 SASD	SS96255	4500	1
15.0	11.0	11 - 18	MK1 SASD	SS96258	4500	1
15.0	11.0	13 - 22	MK1 SASD	SS96260	4530	1
15.0	11.0	13 - 21	MU1 SASD #	SS95891	6165	1
15.0	11.0	14 - 23	MB1 SASD #	SS95895	7000	1
30.0	22.5	20 - 32	MU2 SASD #	SS95892	7490	1
30.0	22.5	20 - 33	MB2 SASD #	SS95897	8200	1

Semi-Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type ML
(Motor Rating AC-3 Duty, 415V, 50 Hz, 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					
25.0	19.0	13 - 21	ML1.5 SASD®	SS91856	7770	1
35.0	26.0	20 - 32	ML2 SASD	SS90707	13586	1

@ Available till stocks last

Fully Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type MN with SPP feature
(Motor Rating AC-3 Duty, 415V, 50 Hz, 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					
15.0	11.0	9 - 15	MN 16 FASD	SS94362	7615	1
25.0	19.0	14 - 23	MN 25 FASD	SS94364	8660	1
35.0	26.0	20 - 33	MN 32 FASD	SS94366	15615	1
50.0	37.0	30 - 50	MN 45 FASD	SS94021	21650	1
75.0	55.0	45 - 75	MN 65 FASD	SS94022	37400	1
90.0	68.0	45 - 75	MN 80 FASD	SS94705	40415	1
125.0	90.0	66 - 110	MN 110 FASD	SS94706	52480	1
175.0	130.0	90 - 150	MN 140 FASD	SS94707	55765	1

Fully-Automatic Star-Delta Motor Starters

in Sheet-Steel Enclosure Type MK, ML, MU & MB
(Motor Rating AC-3 Duty, 415V, 50 Hz, 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					
12.5	9.3	9 - 14	MK1 FASD	SS96254	5125	1
15.0	11.0	11 - 18	MK1 FASD	SS96257	5150	1
15.0	11.0	13 - 22	MK1 FASD	SS96259	5200	1
15.0	11.0	13 - 21	MU1 FASD#	SS95890	6850	1
15.0	11.0	14 - 23	MB1 FASD	SS95894	7300	1
30.0	22.0	20 - 32	MU2 FASD#	SS95892	8090	1
30.0	22.5	20 - 33	MB2 FASD#	SS95896	8300	1

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	8815	1
35.0	26.0	20 - 32	ML2 FASD	SS90705	14000	1
50.0	37.0	28 - 42	ML3 FASD	SS90730	22300	1
75.0	55.0	45 - 75	ML4 FASD	SS90913	38050	1
125.0	90.0	66 - 110	ML6 FASD	SS90923	62320	1
250.0	180.0	135 - 225	ML10 FASD®	SS90938	98400	1
400.0	300.0	180 - 300	ML12 FASD®	SS91019	111520	1

@ Available till stocks last

Single Phase Motor Starters (Coil operated)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
0.5	0.37	4 - 6.5	MHO	ST37491	778	1
1.0	0.75	6 - 10	MHO	ST37491	778	1

#Note: Type MU1 / MU2 consists of type MU Relay + MU1 / MU2 Contactor
Type MB1 / MB2 consists of type MN Relay + MU1 / MU2 Contactor

For Ordering Suffix of MK1 / MU / MB / ML / MN starters please refer table C on page no. 29

MOTOR STARTERS

Submersible Pump Starters In Sheet Steel Enclosure Type MRG, MFG

Description	HP	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Type MRG 2 For Single Phase Motors	0.5	6 - 10	SS96988	*	1
	1.0	11 - 18	SS96560	*	
	1.5	13 - 22	SS96989	*	1
	2.0	13 - 22	SS96990	*	
Type MFG 1 For Single Phase Motors	0.5	6.5 - 11	SS97734	*	1
	1.0	12 - 20	SS97736	*	1
	1.5	12 - 20	SS97737	*	1
	2.0	12 - 20	SS97738	*	1

* Prices on Request

Submersible Pump Starters In Sheet Enclosure Type MUG (Motor Rating AC-3 Duty, 415V, 50Hz, 3 phase)

Description	HP	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MUG20 Fully Automatic Star - Delta Starter #	20	13 - 21	SS95984	8800	1
		20 - 32	SS96985	9270	1
MUG20H Fully Automatic Star - Delta Starter #	20	28 - 42	SS95975	11300	1
MUG30 Fully Automatic Star - Delta Starter	30	20 - 33	CS96008	16750	1
		30 - 50	CS96008	16750	1
MUG50 Fully Automatic Star - Delta Starter	50	30 - 50	CS96009	24500	1
		45 - 75	CS96009	24500	1

Also available with lower Relay Ranges

Spares for MN Starters

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Bracket for Mounting conn. MNX 25 - 32	SS940300000	60	20

Spares for Starters Type MK

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Single Moving Contact	SS91009	31	10
Spare kit with hardware	SS92845	250	40
Std. Operating coils			
400 / 440V, 50 Hz	SS90047	162	10
360V, 50 Hz	SS90165	162	10
320V, 50 Hz	SS90166	162	10
230V, 50 Hz	SS90045	162	10
220V, 50 Hz	SS90044	162	10
110V, 50 Hz	SS90043	162	10
Auxiliary contact block : 1 NO + 1 NC	SS90120	224	50
Spare kit without coil	SS90903	328	50
Thermal timer without combination coil	SS90224	632	4
Combination coils			
Combination coils for 400 / 440V, 50 Hz	SS90443	415	10
Combination coils for 230V, 50 Hz	SS90444	415	10
Combination coils for 380V, 50 Hz	SS90445	415	10
Combination coils for 360V, 50 Hz	SS90446	415	10
Push Button Unit	SS90004	98	100
Arc Shield	SS50004	104	100
Contact bridge without Contacts	SS50005	97	100

Submersible Pump Starters In Sheet Enclosure Type MUG (Motor Rating AC-3 Duty, 415V, 50 Hz, 3 phase)

Description	HP	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MUG6 DOL Starter #	6	9 - 14	SS97756	4000	1
MUG10 DOL Starter #	10	13 - 21	SS95983	4550	1
MUG10H DOL Starter #	10	28 - 42	SS95974	5150	1

Also available with lower Relay Ranges

Table C

For Ordering Suffix for MK1 / MU / MB / ML / MN Starters					
Coil Voltage	Relay Range (A)				
	MK1	MU	MB	ML	MN
B - 240V	V - 6-10	A - 9-14	B - 9-15	A - 9-14	B - 14-23
C - 360V	A - 9-14	C - 13-21	D - 14-23	B - 10-16	E - 20-33
L - 380V	C - 11-18	E - 20-32	E - 20-33	C - 13-21	G - 30-50
D - 415V	D - 13-22			E - 20-32	J - 45-75
P - 440V					K - 66-110

DIGITAL SOFT STARTERS

CSX Soft Starters

Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	CSX0007V4C1	23500
15	CSX0015V4C1	24900
18	CSX0018V4C1	25800
22	CSX0022V4C1	30400
30	CSX0030V4C1	34300
37	CSX0037V4C1	39300
45	CSX0045V4C1	44700
55	CSX0055V4C1	48900
75	CSX0075V4C1	66300
90	CSX0090V4C1	72400
110	CSX0110V4C1	79500

CSXi Soft Starters

Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	CSXi007V4C1	34000
15	CSXi015V4C1	39400
18	CSXi018V4C1	41500
22	CSXi022V4C1	44300
30	CSXi030V4C1	49300
37	CSXi037V4C1	53900
45	CSXi045V4C1	65000
55	CSXi055V4C1	71100
75	CSXi075V4C1	83100
90	CSXi090V4C1	104100
110	CSXi110V4C1	115900

CSX Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact
- Truly plug & play

CSXi Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop / Adjustable Current Limit
- Essential motor protections against
 - Overload
 - Single phasing
 - Phase sequence reversal
 - Abnormality in supply
 - Unbalanced current
- Thermistor protection through PTC
- Excess start time setting
- PC Interface as optional

EMX3 Soft Starters : For Heavy Duty Applications

- Ratings from 23 to 1600A
- Control Voltage from 94Vdc to 484Vdc
- Constant Current / Adaptive acceleration start
- Constant Current / Adaptive de-acceleration for smooth stop
- Forward / Reverse Jog
- Comprehensive motor protection
- Large LCD Keypad
- Detachable built-in Real time clock
- 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
- Power through operation allows to run soft starter even with one of shorted SCR

Optional Modules / Cards for CSX / CSXi / EMX3

Description	Cat. No.	M.R.P. (₹) Per Unit
Modbus Module	PIMMB01	10900
Profibus Module	PIMPB01	17000
Device Net Module	PIMDN01	13000
EMX3 RTD/Ground Fault Expansion Card	995-04804-00	13000
EMX3 I/O Expansion Card	995-04803-00	8500

EMX3 Soft Starters

Suitable for motor kW	Motor Amps	Suitable for Motor kW	Motor Amps	EMX3 Cat No.	MRP (₹) Per Unit	Bypass Contactor
3 Wire (in-line) Connection		6 Wire (inside delta) Connection				
7.5 / 11	23	15	35	EMX30023B411	56000	Built - In
15 / 18.5	45	18.5	65	EMX30043B411	60000	
22	53	22 / 30	75	EMX30053B411	70000	
30 / 37	76	45	105	EMX30076B411	75000	
45	97	55	135	EMX30097B411	80000	
55	105	75	155	EMX30105B411	95000	
75	145	90	205	EMX30145B411	110000	
90	170	110	240	EMX30170B411	125000	
110	220	132	330	EMX30220C411	131000	
132	255	160 / 185	365	EMX30255C411	145000	
160 / 185	360	220 / 250	540	EMX30360C411	154000	Terminals for connecting External contactor (AC1 duty)
220	400	300 / 315	645	EMX30430C411	233000	
250 / 300 / 315	620	355 / 400	930	EMX30620C411	240000	
355	650	450	975	EMX30650C411	255000	
400 / 450	790	600	1185	EMX30790C411	310000	
500	930	700	1395	EMX30930C411	390000	
600	1200	800	1800	EMX31200C411	600000	
700	1410	1000	2115	EMX31410C411	720000	
800	1600	1200	2400	EMX31600C411	800000	

Note : Above EMX3 selection is as per AC53b:3.0-10:350 category considering ambient of 45 deg C. For Heavy Duty or application specific selection L&T recommends use of WINSTART selection software.

PROGRAMMABLE LOGIC CONTROLLER (PLC)

- Compact & Powerful
- LX7S from 10 to 48 I/O
- LX7 from 28 to 104 I/O
- 2 serial ports (with Modbus RTU)
- Built-in backup flash memory
- Built-in High speed counter & Pulse Output
- Built-in real time clock in LX7
- Ideal for small to mid size machine automation / AMF panels / Load management / pump control and many more applications
- Can communicate with ACB, MCCB Releases, Energy Meters

Type	Cat. No.	Description	M.R.P. (₹) Per Unit
LX7s Series (Non Expandable PLC)	LX7S-10ADR	AC Powered, 6 Digital Inputs, 4 Digital Outputs (Relay)	9500
	LX7S-10ADT	AC Powered, 6 Digital Inputs, 4 Digital Outputs (Transistor)	9300
	LX7S-14ADR	AC Powered, 8 Digital Inputs, 6 Digital Outputs (Relay)	11200
	LX7S-14ADT	AC Powered, 8 Digital Inputs, 6 Digital Outputs (Transistor)	10900
	LX7S-20ADR	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Relay)	13700
	LX7S-20ADT	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Transistor)	13300
	LX7S-28ADR	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Relay)	16500
	LX7S-28ADT	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Transistor)	16100
	LX7S-40ADR	AC Powered, 24 Digital Inputs, 16 Digital Outputs (Relay)	20700
	LX7S-40ADT	AC Powered, 24 Digital Inputs, 16 Digital Outputs (Transistor)	20100
	LX7S-48ADR	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Relay)	22900
	LX7S-48ADT	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Transistor)	22200
	LX7S-10DDR	DC Powered, 6 Digital Inputs, 4 Digital Outputs (Relay)	9500
	LX7S-10DDT	DC Powered, 6 Digital Inputs, 4 Digital Outputs (Transistor)	9300
	LX7S-14DDR	DC Powered, 8 Digital Inputs, 6 Digital Outputs (Relay)	11200
	LX7S-14DDT	DC Powered, 8 Digital Inputs, 6 Digital Outputs (Transistor)	10900
LX7SERIES (Expandable PLC)	Base Modules		
	LX7-28ADR	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Relay)	21252
	LX7-28ADT	AC Powered, 16 Digital Inputs, 12 Digital Outputs (Transistor)	20066
	LX7-48ADR	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Relay)	31510
	LX7-48ADT	AC Powered, 28 Digital Inputs, 20 Digital Outputs (Transistor)	29298
	LX7-28DDR	DC Powered, 16 Digital Inputs, 12 Digital Outputs (Relay)	21922
	LX7-28DDT	DC Powered, 16 Digital Inputs, 12 Digital Outputs (Transistor)	20608
	LX7-48DDR	DC Powered, 28 Digital Inputs, 20 Digital Outputs (Relay)	33270
	LX7-48DDT	DC Powered, 28 Digital Inputs, 20 Digital Outputs (Transistor)	30722
	LX7-20ADR-4A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Relay), 4 Analog Inputs	24900
	LX7-20ADR-6A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Relay), 4 Analog Inputs, 2 Analog Outputs	29500
	LX7-20ADT-4A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Transistor), 4 Analog Inputs	24400
	LX7-20ADT-6A	AC Powered, 12 Digital Inputs, 8 Digital Outputs (Transistor), 4 Analog Inputs, 2 Analog Outputs	28800
	Expansion Modules		
	LX7-14EDR	Expansion Module, 8 Digital Inputs, 6 Digital Outputs (Relay)	10400
	LX7-14EDT	Expansion Module, 8 Digital Inputs, 6 Digital Outputs (Transistor)	10100
LX7-28EDR	Expansion Module, 16 Digital Inputs, 12 Digital Outputs (Relay)	14300	
LX7-28EDT	Expansion Module, 16 Digital Inputs, 12 Digital Outputs (Transistor)	13900	

LX 70 Series PLC:

- Modular structure with variety of I/O modules
- Fast & powerful processors to control upto 384 I/O points
- Built-in PID for process control

LX 700 Series PLC:

- Modular structure with high density I/O modules
- Fast & powerful processors to control upto 1600 I/O points
- Distributed I/O configuration using Remote I/O master & slave

Lμ1000 PROGRAMMABLE SMART RELAY

- On board Programming / editing LCD screen and function keys
- LCD screen can be used as an HMI for data entry as well as for viewing alarms
- A power packed compact unit with Timers, Counters, Analog Comparalors, Text Display, Time Switches and many more
- Expandable upto 48 I/O with 3 Expansion Units
- Programming upto 250 Lines
- Battery backed up Flash Memory
- DIN rail Mounting
- Built-in RS 232 Modbus port
- Optional RS 485 Modbus port
- Power up Option : 230VAC, 24VDC

Type	Cat. No.	Description	M.R.P. (₹) Per Unit
Lμ1000 Programmable Smart Relay	L1000-A12BR	AC Powered Base Module, 8 Digital Inputs, 4 Digital Outputs (Relay)	7500
	L1000-A12ER	AC Powered Expansion Module, 8 Digital Inputs, 4 Digital Outputs (Relay)	4100
	L1000-D12BR	DC Powered Base Module, 8 Digital Inputs**, 4 Digital Outputs (Relay)	6800
	L1000-D12ER	DC Powered Expansion Module, 8 Digital Inputs**, 4 Digital Outputs (Relay)	4100
	L1000-USBPR	USB Programming Cable	1150
	L1000-MEMBK	Memory Card for storing Program	900
	L1000-RS232	RS 232 Cable for Communication on Modbus	1550
	L1000-485AC	AC Powered, RS 485 module for Modbus Communication	1700
	L1000-485DC	DC Powered, RS 485 module for Modbus Communication	2500

** In DC Modules, 2 Inputs can either be configured as Analog Inputs with 10 Bit Resolution (0-10 V DC) or can be Used as Digital Inputs

MAN MACHINE INTERFACE (MMI)

- Available from 3" to 15" in 8 models
- Touch LCD interface
- Modbus Serial, Ethernet, Field bus Communication
- Multiple PLCs, Controllers connectivity. Communication with ACB, MCCB, Energy Meter
- Advanced features: Multy - Language, Graphic, Extended Alarms, Recipe, Data Logging, Printing, Password protection, Trends

Type	Cat. No.	Description	M.R.P. (₹) Per Unit
1	EX-TEXTMATE	DC Powered, 3 - 8-Line Alphanumeric Text Display	10400
2	S04TDAA	4.3" Wide 65536 Color TFT,SRAM,480X272, 6M Memory(Serial only), DC powered	20,000
3	E05TDAA	5.7" 65536 Color TFT,SRAM,320X240, (Serial/USB/CF/Ethernet) , DC powered	50,000
4	S07TDAA	7" Wide 65536 Color TFT,SRAM,800X480, 26M Memory (Serial only) , DC powered	29,000
5	E08TDAA	8.4" 65536 Color TFT,SRAM,640*480, (Serial/USB/CF/Ethernet) , DC powered	65,000
6	E10TDAA	10.4" 65536 Color TFT,SRAM,800x600, (Serial/USB/CF/Ethernet) , DC powered	85,000
7	F12TAAA	12.1" 65536 Color TFT,SRAM,800x600, (Serial/USB/CF/Ethernet, Option: FIELDBUS) , AC powered	150,000
8	F15TAAA	15" 65536 Color TFT,SRAM,1024x768, (Serial/USB/CF/Ethernet, Option: FIELDBUS) , AC powered	200,000

REACTIVE POWER MANAGEMENT PRODUCTS

Power Factor Correction Capacitors

MPP Capacitors				
Duty	Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Agri	Cylindrical	1 to 5	440V	125
	Box	1 to 5	440V	216
Standard Duty	Cylindrical	5 to 25	440V	165
	Box	7.5 to 50	440V	216
Heavy duty (Resin filled)	Cylindrical	5 to 30	440V	301
		5 to 30	480V	340
	Box	5 to 20	440V	351
		25 to 50	440V	350
		5 to 20	480V	386
		25 to 50	480V	385
Gas Filled	Cylindrical	5 to 25	440V	301
		5 to 25	480V	331
		5 to 25	525V	361

LTXL Capacitors ^{New}				
Duty	Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Ultra Heavy duty-LTXL	Box	5 to 50	440	550
			480	605
	Cylindrical	5 to 25	440	550
			480	605

Thyristor Switching Module, 440V 50Hz

kVAr Rating	Cat. No.	M.R.P.
10	LTTSM10B2	19280
25	LTTSM25B2	27500
50	LTTSM50B2	32100

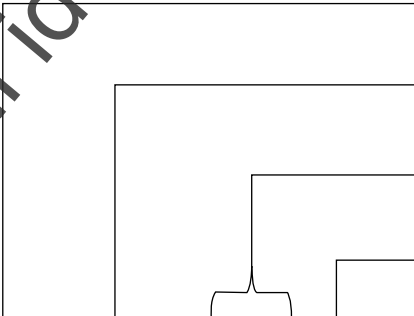
Selection of Capacitors with Reactors Reactor Voltage: 440V Capacitor Voltage: 480V	
Output kVAr	Selection
10	10kVAr 7% Reactor + 12.5kVAr Capacitor
15	15kVAr 7% Reactor + 20kVAr Capacitor
20	20kVAr 7% Reactor + 25kVAr Capacitor
25	25kVAr 7% Reactor + 30kVAr Capacitor
50	50kVAr 7% Reactor + 2 X 30kVAr Capacitors

7% Detuned Reactors, 440V 50 Hz

kVAr Rating	Cat. No.	M.R.P.
5	LTFR0705B2	4500
10	LTFR0710B2	9000
15	LTFR0715B2	11000
20	LTFR0720B2	12000
25	LTFR0725B2	12500
50	LTFR0750B2	25000
75	LTFR0775B2	37500
100	LTFR0700B2	50000

Sample Selection: for 75kVAr 7% detuned reactors with heavy duty capacitors, place an order for:
1 No 75kVAr 7% detuned reactor: LTFR0775B2 & 3 Nos 30kVAr LTCCN capacitors at 480V: LTCCN330C2

Ordering Information for Capacitors



C - Cylindrical, B - Box

Duty : A/F - Agri, S - Standard, H - Heavy, U - Ultra Heavy, N - Gas Filled

kVAr Rating

Voltages : A - 415V, B - 440V, C - 480V, M - 525V

Cat. Nos.

L	T		C	3				2
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DIGITAL PROTECTIVE RELAYS

3 Phase Over Current + Earth Fault Relay

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

Model	Aux. Supply (V)	Output Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MC31A	20 - 110V AC/DC	4 NO	MC31AAXX000	17000	1
MC31A	20 - 110V AC/DC	2 NO + 2 NC	MC31AAXX001	17000	1
MC31A	88 - 264V AC/DC	4 NO	MC31ABXX000	17000	1
MC31A	88 - 264V AC/DC	2 NO + 2 NC	MC31ABXX001	17000	1

Single Pole Over Current or Earth Fault Relay

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MC12A	20 - 110V AC/DC	1A	MC12AA10X00	9400	1
MC12A	20 - 110V AC/DC	5A	MC12AA50X00	9400	1
MC12A	88 - 264V AC/DC	1A	MC12AB10X00	9400	1
MC12A	88 - 264V AC/DC	5A	MC12AB50X00	9400	1

3 Phase Over Current + Earth Fault Relay With High Set

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

Model	Aux. Supply (V)	Output Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MC61A	20 - 110V AC/DC	4 NO	MC61AAXX000	23000	1
MC61A	20 - 110V AC/DC	2 NO + 2 NC	MC61AAXX001	23000	1
MC61A	88 - 264V AC/DC	4 NO	MC61ABXX000	23000	1
MC61A	88 - 264V AC/DC	2 NO + 2 NC	MC61ABXX001	23000	1

Single Pole Sensitive Earth Fault Relay

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
ME12A	20 - 110V AC/DC	1A	ME12AA10000	9400	1
ME12A	20 - 110V AC/DC	5A	ME12AA50000	9400	1
ME12A	88 - 264V AC/DC	1A	ME12AB10000	9400	1
ME12A	88 - 264V AC/DC	5A	ME12AB50000	9400	1

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

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

Model	Aux. Supply (V)	C.T. Secondary (A)		Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
		In	On			
MC61C	20 - 110V AC/DC	1	1	MC61CA11000	39000	1
MC61C	20 - 110V AC/DC	5	5	MC61CA55000	39000	1
MC61C	88 - 264V AC/DC	1	1	MC61CB11000	39000	1
MC61C	88 - 264V AC/DC	5	5	MC61CB55000	39000	1

Single Phase Under Voltage or Over Voltage Relay

Model	Aux. Supply (V)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MV12A	20 - 110V AC/DC	MV12AA00X00	9400	1
MV12A	88 - 264V AC/DC	MV12AB00X00	9400	1

Instantaneous Earth Fault Relay

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

Model	C.T. Secondary (A)	Range	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
SC14S	1	10 - 40 %	MC14SX10100	8200	1
SC14S	1	20 - 80 %	MC14SX10200	8200	1
SC14S	5	10 - 40 %	MC14SX50100	8200	1
SC14S	5	20 - 80 %	MC14SX50200	8200	1

Mini Motor Protection Relay

Model	Thermal O/L Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MPR 300	1 - 2.75	MPR300BE010	5500	1
MPR 300	3 - 5.5	MPR301BE020	5500	1
MPR 300	4 - 11	MPR302BE040	5500	1
MPR 300	8 - 22	MPR303BE080	5500	1
MPR 300	16 - 44	MPR304BE160	5500	1
MPR 300	32 - 88	MPR305BE320	5500	1

Reverse Power Relay

Model	Aux Supply (V)	C.T. Secondary (A)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MRP11	20 - 110V AC/DC	1A	MRP11A10X00	21000	1
MRP11	20 - 110V AC/DC	5A	MRP11A50X00	21000	1
MRP11	88 - 264V AC/DC	1A	MRP11B10X00	21000	1
MRP11	88 - 264V AC/DC	5A	MRP11B50X00	21000	1

Neutral Displacement Relay

Model	Aux. Supply (V)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
MND11	20 - 110V	MND11A00000	9900	1
MND11	88 - 264V	MND11B00000	9900	1

Control & Supervisory Relay

Model	Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
PTF 03	PT Fuse Failure Relay	MTF03X00000	8200	1
RPM 8	Eight Stage APFC Relay	MRPM0800000	13200	1
RPM 14	Fourteen Stage APFC Relay	MRPM1400000	16400	1
TCS 01	Trip CKT. Supervision Relay 20 - 110V AC/DC	MCS01A00000	9200	1
TCS 01	Trip CKT. Supervision Relay 88 - 264V AC/DC	MCS01B00000	9200	1

With AUX. supply 240 AC
AUX. supply 110V AC available on request

DIGITAL PROTECTIVE RELAYS

Other Relays

Model	Description	Device Code	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)
FMR	Feeder Manager 20 - 110V	50/51, 67, 50N/51N, 67N, 27/59, 59Uo, 74, 86, 121	EFMRAXX000	240000	1
FMR	Feeder Manager 88 - 264V	50/51, 67, 50N/51N, 67N, 27/59, 59Uo, 74, 86, 121	EFMRBXX000	240000	1
UFD34	Frequency Relay 20 - 110V	81, 27, 59, df/dt	EFD34A00000	120000	1
UDF34	Frequency Relay 88 - 264V	81, 27, 59, df/dt	EFD34B00000	120000	1
MM30	Motor Protection Relay 20 - 110V	49, 51LR, 46, 37, 50/51, 64, St No, ITR	EMM30AXX00E	66000	1
MM30	Motor Protection Relay 88 - 264V	49, 51LR, 46, 37, 50/51, 64, St No, ITR	EMM30BXX00E	66000	1
MM30WV	Motor Protection Relay with Voltage Input 20 - 110V	12/14, 27/59, 47, 48, 55, 66, 68, 81 49, 51LR, 46, 37, 50/51, 64 St No, ITR	EMM30WAX002	82000	1
MM30WV	Motor Protection Relay with Voltage Input 88 - 264V	12/14, 27/59, 47, 48, 55, 66, 68, 81 49, 51LR, 46, 37, 50/51, 64 St No, ITR	EMM30WBX002	82000	1
MG30	Generator Protection Relay For Generators with NGR (Neutral Grounding Resistor) 20 - 110V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	EM30GAXX000	210000	1
MG30	Generator Protection Relay For Generators with NGR (Neutral Grounding Resistor) 88 - 264V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	EM30GBXX000	210000	1
MG30-I	Generator Protection Relay For Generators without NGR (Neutral Grounding Resistor) 20 - 110V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	EM30GIAXX00	210000	1
MG30-I	Generator Protection Relay For Generators without NGR (Neutral Grounding Resistor) 88 - 264V	21, 24, 27/59, 32, 37, 40, 46, 49, 50/27, 50V/51V, 51BF, 60FL, 64S, 68, 81	EM30GIBXX00	210000	1
MD32G	Differential Relay for Generator 20 - 110V	87, 50/51, 87N	ED32GAXX000	260000	1
MD32G	Differential Relay for Generator 88 - 264V	87, 50/51, 87N	ED32GBXX000	260000	1
MD32T	Differential Relay for Transformer 20 - 110V, W/O ref	87RYB, 87N	ED32TAXX000	220000	1
MD32T	Differential Relay for Transformer 88 - 264V, W/O ref	87RYB, 87N	ED32TBXX000	220000	1
IM30T	3PH O/C & E/F Relay for Transformer 20 - 110V	50/51RYBN, 49, 46, 47	EM30TAXX000	120000	1
IM30T	3PH O/C & E/F Relay for Transformer 88 - 264V	50/51RYBN, 49, 46, 47	EM30TBXX000	120000	1
SPM21	Auto Synchronizing Relay 20 - 110V	25	EPM21A00000	140000	1
SPM21	Auto Synchronizing Relay 88 - 264V	25	EPM21B00000	140000	1
UM30	U/V Relay with Neutral Monitoring 20 - 110V	59, 81, 27	EUM30A00000	120000	1
UM30	U/V Relay with Neutral Monitoring 88 - 264V	59, 81, 27	EUM30B00000	120000	1
MW33	Power Management Relay 20 - 110V	81, 27, 59, 32	EMW33AXX000	160000	1
MW33	Power Management Relay 88 - 264V	81, 27, 59, 32	EMW33BXX000	160000	1
RRS	Load Sharing Relay 20 - 110V	95	ESRRSAXX000	90000	1
RRS	Load Sharing Relay 88 - 264V	95	ESRRSBXX000	90000	1

Ndin-RMB	DIN mtg Motor protection relay 20 - 110V (Relay, main body)	49, 46, 37, 51LR, 66, 64S, 51	ENDINMA0000	45000	1
Ndin-RMB	DIN mtg Motor protection relay 88 - 264V (Relay main body)	49, 46, 37, 51LR, 66, 64S, 51	ENDINMB0000	45000	1
Ndin-Relay	DIN mtg Motor protection relay 20 - 110V	Ndin RMB with Display	ENDINMA000C	60000	1
Ndin-Relay	DIN mtg Motor protection relay 88 - 264V	Ndin RMB with Display	ENDINMB000C	60000	1
MD32TM	Differential relay for transformer 20 - 110V, W/O REF	87	ED32TMAXX00	145000	1
MD32TM	Differential relay for transformer 88 - 264V, W/O REF	87	ED32TMBXX00	145000	1
MC1V	Frequency & 1 ph voltage relay 20 - 110V	27, 59, 81 u/o	MC1FAXX0000	70000	1
MC1V	Frequency & 1 ph voltage relay 88 - 264V	27, 59, 81 u/o	MC1FBXX0000	70000	1
MC3V	Frequency & 3 ph voltage relay 20 - 110V	27, 59, 81 u/o	MC3FAXX0000	94000	1
MC3V	Frequency & 3 ph voltage relay 88 - 264V	27, 59, 81 u/o	MC3FBXX0000	94000	1
MC20	2 O/C + E/F relay 20 - 110V	50, 51, 50N, 51N	MC20AXX0000	76000	1
MC20	2 O/C + E/F relay 88 - 264V	50, 51, 50N, 51N	MC20BXX0000	76000	1
MC30	3 O/C + E/F relay 20 - 110V	50, 51, 50N, 51N	MC30AXX0000	81500	1
MC30	3 O/C + E/F relay 88 - 264V	50, 51, 50N, 51N	MC30BXX0000	81500	1

ELECTRONIC METERING DEVICES

1 Phase kWh Base Mounting Meter

Model EM101B Class 1

Description	Cat. No.	M.R.P. (₹) Per Unit
1PH, kWh Meter with ELT 240V, 5 - 20A	WM101BC4D00	1600
1PH, kWh Meter with ELT 240V, 10 - 40A	WM101BC6D00	1900
1PH, kWh Meter with ELT 240V, 10 - 60A	WM101BC7D00	2400

3 Phase kWh Flush Mount Meter

Model Accrux Class 1 96 x 96 mm

3PH, 4W, kWh Meter, 240V, 1A	WM301FC1C10	5400
3PH, 4W, kWh Meter, 240V, 5A	WM301FC3C10	5000
3PH, 4W, kWh Meter, 63.5V, 1A	WM301FA1C11	5400
3PH, 4W, kWh Meter, 63.5V, 5A	WM301FA3C11	5400
3PH, 4W, kWh Meter, 63.5V [(415 / 1.732) / (110 / 1.732) - RATIO], 1A	WM301FA1C10	5400
3PH, 4W, kWh Meter, 63.5V, 1A [(415 / 1.732) / (110 / 1.732) - RATIO], 5A	WM301FA3C10	5400
3PH, 3W, kWh Meter, 415V, 1A	WM201FD1C10	5400
3PH, 3W, kWh Meter, 415V, 5A	WM201FD3C10	5400
3PH, 3W, kWh Meter, 110V, 1A	WM201FB1C10	5400
3PH, 3W, kWh Meter, 110V, 5A	WM201FB3C10	5400
3PH, 4PH, 240V, 5A, kWh LCD Display with Pulse Output	WM301FC3CL0	5900

3 Phase 3 Wire kWh Base Mount Meter

Model EM201B Class 1

3PH, 3W, kWh, CT Op. Base Mtg. 110V, 1 - 2A	WM201BB1C00	4700
3PH, 3W, kWh, CT Op. Base Mtg. 110V, 5 - 10A	WM201BB3C00	4700

3 Phase 4 Wire kWh Base Mount Meter

Model EM301B Class 1

3PH, 4W, kWh, CT Op. Base Mtg. 240V, 1 - 2A	WM301BC1C00	4700
3PH, 4W, kWh, CT Op. Base Mtg. 240V, 5 - 10A	WM301BC3C00	4200
3PH, 4W, kWh, Dir. Base Mtg. 240V, 5 - 20A sleek	WM301BC4D20	4200
3PH, 4W, kWh, Dir. Base Mtg. 240V, 10 - 40A sleek	WM301BC6D20	4200
3PH, 4W, kWh, Dir. Base Mtg. 240V, 10 - 60A sleek	WM301BC7D10	4300
3PH, 4W, kWh, Dir. Base Mtg. 240V, 50 - 100A sleek	WM301BC8D10	6100

Intellegent Panel Meter

Model Quasar Class 1 (Flush Mounting) 96 x 96 mm

3PH, 4W IPM 240V (L-N) 1A CL1 FM	WI300FC1300	8500
3PH, 4W IPM 240V (L-N) 5A CL1 FM	WI300FC5300	8500
3PH, 3W IPM 110V (L-N) 1A CL1 FM	WI301FC1300	8500
3PH, 3W IPM 110V (L-N) 5A CL1 FM	WI301FC5300	8500
3PH, 4W IPM 110V (L-L) 1A CL1 FM	WI300FB1300	8500
3PH, 4W IPM 110V (L-L) 5A CL1 FM	WI300FB5300	8500
3PH, 4W IPM 240V (L-N) 1A CL1 FM with RS485	WI300FC13RS	9500
3PH, 4W IPM 240V (L-N) 5A CL1 FM with RS485	WI300FC53RS	9500
3PH, 3W IPM 110V (L-N) 1A CL1 FM with RS485	WI301FC13RS	9500
3PH, 3W IPM 110V (L-N) 5A CL1 FM with RS485	WI301FC53RS	9500
3PH, 4W IPM 110V (L-L) 1A CL1 FM with RS485	WI300FB13RS	9500
3PH, 4W IPM 110V (L-L) 5A CL1 FM with RS485	WI300FB53RS	9500

Trivector Meter

Model ER300P Class 0.2 (Base Mounting)

3PH, 3W TVM 110V (L-L) 1A CL0.2S BM	WR200BB1100	45000
3PH, 3W TVM 110V (L-L) 5A CL0.2S BM	WR200BB5100	45000
3PH, 4W TVM 110V (L-L) 1A CL0.2S BM	WR300BB1100	45000
3PH, 4W TVM 110V (L-L) 5A CL0.2S BM	WR300BB5100	45000
3PH, 4W TVM 110V (L-L) 1A CL0.2S BM RS485	WR300BB11RS	48000
3PH, 4W TVM 110V (L-L) 5A CL0.2S BM RS485	WR300BB51RS	48000

Trivector Meter

Model ER300P Class 0.5 (Base Mounting)

3PH, 3W TVM 110V (L-L) 1A CL0.5S BM	WR200BB1200	20000
3PH, 3W TVM 110V (L-L) 5A CL0.5S BM	WR200BB5200	20000
3PH, 4W TVM 110V (L-L) 1A CL0.5S BM	WR300BB1200	20000
3PH, 4W TVM 110V (L-L) 5A CL0.5S BM	WR300BB5200	20000
3PH, 4W TVM 240V (L-N) 1A CL0.5S BM	WR300BC1200	20000
3PH, 4W TVM 240V (L-N) 5A CL0.5S BM	WR300BC5200	20000
3PH, 3W TVM 110V (L-L) 1A CL0.5S BM RS485	WR200BB12RS	24000
3PH, 3W TVM 110V (L-L) 5A CL0.5S BM RS485	WR200BB52RS	24000
3PH, 4W TVM 110V (L-L) 1A CL0.5S BM RS485	WR300BB12RS	24000
3PH, 4W TVM 110V (L-L) 5A CL0.5S BM RS485	WR300BB52RS	24000
3PH, 4W TVM 240V (L-N) 1A CL0.5S BM RS485	WR300BC12RS	24000
3PH, 4W TVM 240V (L-N) 5A CL0.5S BM RS485	WR300BC52RS	24000

Trivector Meter

Model ER300P Class 1 (Base Mounting)

3PH, 3W TVM 110V (L-L) 1A CL1 BM	WR200BB13001	16000
3PH, 3W TVM 110V (L-L) 5A CL1 BM	WR200BB53001	16000
3PH, 4W TVM 110V (L-L) 1A CL1 BM	WR300BB13001	16000
3PH, 4W TVM 110V (L-L) 5A CL1 BM	WR300BB53001	16000
3PH, 4W TVM 240V (L-N) 1A CL1 BM	WR300BC13001	16000
3PH, 4W TVM 240V (L-N) 5A CL1 BM	WR300BC53001	16000

MODULAR DEVICES - TRIPPER

ELCB & MCB Combined (EL+MCB)

- Offers 3 in 1 protection against overload, short circuit & earth leakage
- ISI Marked • Conforms to latest IS 12640 (PART 2) : 2008 / IEC 61009-1 : 1996

2 Pole

Description	30 mA Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)	100 mA Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)	300 mA Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)
6A 2P EL+MCB	CB90001OOTO*	1898	1	CB90003OOTO*	1848	1	CB90005OOTO*	1848	1
10A 2P EL+MCB	CB90001OOVO*	1898	1	CB90003OOVO*	1848	1	CB90005OOVO*	1848	1
16A 2P EL+MCB	CB90001OOBO	1898	1	CB90003OOBO	1848	1	CB90005OOBO*	1848	1
20A 2P EL+MCB	CB90001OOCO*	1898	1	CB90003OOCO*	1848	1	CB90005OOCO*	1848	1
25A 2P EL+MCB	CB90001OODO	1898	1	CB90003OODO	1848	1	CB90005OODO*	1848	1
32A 2P EL+MCB	CB90001OOEO	2013	1	CB90003OOEO	1964	1	CB90005OOEO	1964	1
40A 2P EL+MCB	CB90001OOF0	2013	1	CB90003OOF0	1964	1	CB90005OOF0*	1964	1
63A 2P EL+MCB	CB90001OOHO	2475	1	CB90003OOHO	2365	1	CB90005OOHO*	2365	1

4 Pole

Description	30 mA Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)	100 mA Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)	300 mA Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)
6A 4P EL+MCB	CB90002OOTO*	2244	1	CB90004OOTO*	2112	1	CB90006OOTO*	2112	1
10A 4P EL+MCB	CB90002OOVO*	2244	1	CB90004OOVO*	2112	1	CB90006OOVO*	2112	1
16A 4P EL+MCB	CB90002OOBO	2244	1	CB90004OOBO	2112	1	CB90006OOBO*	2112	1
20A 4P EL+MCB	CB90002OOCO*	2244	1	CB90004OOCO*	2112	1	CB90006OOCO*	2112	1
25A 4P EL+MCB	CB90002OODO	2244	1	CB90004OODO	2112	1	CB90006OODO	2112	1
32A 4P EL+MCB	CB90002OOEO	2338	1	CB90004OOEO	2244	1	CB90006OOEO	2244	1
40A 4P EL+MCB	CB90002OOF0	2338	1	CB90004OOF0	2244	1	CB90006OOF0	2244	1
63A 4P EL+MCB	CB90002OOHO	2860	1	CB90004OOHO	2607	1	CB90006OOHO	2607	1

* MOQ : 100 nos of same rating. Delivery : 4 weeks from date of confirmed order

Isolator

Suitable for AC 22A utilization category
With true contact indicator for enhanced safety

Rating	DP			TF			FP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg (Nos.)
40A	BE204000	286	6	BE304000	561	4	BE404000	677	3
63A	BE206300	363	6	BE306300	607	4	BE406300	704	3

MODULAR DEVICES - TRIPPER

Miniature Circuit Breakers

• With true contact indicator for enhanced safety • No line load bias • ISI marked • Conforms to latest IS / IES 60898-1 : 2002

B Curve MCB (Breaking Capacity 6kA)

Rating	SP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6A	BA10060B*	123	12
10A	BA10100B*	123	12
16A	BA10160B*	123	12
20A	BA10200B*	123	12
25A	BA10250B*	123	12
32A	BA10320B*	123	12
40A	BA10400B*	213	12

Rating	DP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6A	BA20060B*	408	6
10A	BA20100B*	408	6
16A	BA20160B*	408	6
20A	BA20200B*	408	6
25A	BA20250B*	408	6
32A	BA20320B*	408	6
40A	BA20400B*	569	6

* MOQ : 1440 poles of same rating. Delivery : 4 weeks from date of confirmed order

C Curve MCB (Breaking Capacity 6kA)

Rating	SP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6A	BA10060C	123	12
10A	BA10100C	123	12
16A	BA10160C	123	12
20A	BA10200C	123	12
25A	BA10250C	123	12
32A	BA10320C	123	12
40A	BA10400C	213	12
63A	BA10630C	339	12

Rating	DP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6A	BA20060C	408	6
10A	BA20100C	408	6
16A	BA20160C	408	6
20A	BA20200C	408	6
25A	BA20250C	408	6
32A	BA20320C	408	6
40A	BA20400C	569	6
63A	BA20630C	730	6

Rating	TP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6A	BA30060C	638	4
10A	BA30100C	638	4
16A	BA30160C	638	4
20A	BA30200C	638	4
25A	BA30250C	638	4
32A	BA30320C	638	4
40A	BA30400C	909	4
63A	BA30630C	1081	4

Rating	FP		
	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6A	BA40060C	934	3
10A	BA40100C	934	3
16A	BA40160C	934	3
20A	BA40200C	934	3
25A	BA40250C	934	3
32A	BA40320C	934	3
40A	BA40400C	1213	3
63A	BA40630C	1409	3

Distribution Boards

DBs are supplied with Wires of, Busbars, Neutral bar and Earth bar as standard accessories

SPN Single Door

No. of Modules	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
4 MOD	BH104SDB	414	1
6 MOD	BH106SDB	460	1
8 MOD	BH108SDB	541	1
12 MOD	BH112SDB	702	1
16 MOD	BH116SDB	874	1

SPN Double Door

No. of Modules	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
4 MOD	BH104DDB	690	1
6 MOD	BH106DDB	794	1
8 MOD	BH108DDB	891	1
12 MOD	BH112DDB	1179	1
16 MOD	BH116DDB	1277	1

TPN Single Door with 6 MOD Incomer

No. of Modules	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6+4+4+4	BH304SDB	1317	1
6+6+6+6	BH306SDB	1650	1
6+8+8+8	BH308SDB	1915	1
6+12+12+12	BH312SDB	2507	1

TPN Double Door with 6 MOD Incomer

No. of Modules	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6+4+4+4	BH304DDB	1794	1
6+6+6+6	BH306DDB	2070	1
6+8+8+8	BH308DDB	2685	1
6+12+12+12	BH312DDB	3249	1

TPN Phase Selector Double Door DB with 6 MOD incomer

Provided with 3nos Salzer make 40A selector switches

No. of Modules	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
6+4+4+4	BHC04DDB	5647	1
6+6+6+6	BHC06DDB	6032	1

STANDARD MOTORS 'LTS SERIES'

3-Phase Squirrel Cage Induction Motor

Construction:	TEFC enclosure with IP55 Protection	Duty:	S1
Supply Conditions:	415V ± 10%, 50Hz ± 5% and combined variation of 10%	Mounting:	B3 (Foot). Other mounting arrangements available on request
Ambient:	50°C	Body:	Aluminum body in frames 63 - 132 and Cast Iron body in frames 100 - 315
Insulation:	Class F with temperature rise restricted to Class B (for rated output & supply conditions)	Terminal:	6 leads in all frames
		Reference:	IS 325

2 Pole, 3000 rpm				
KW	HP	Frame	Cat. No.	M.R.P. (₹) Per Unit
0.12	0.16	LTS 63	MA2A1063XA100	7000
0.18	0.25	LTS 63	MA2A2063XA100	7000
0.25	0.33	LTS 63	MA2A3063XA100	7160
0.37	0.5	LTS 71	MA2A4071XA100	7840
0.55	0.75	LTS 71	MA2A5071XA100	8620
0.75	1.1	LTS 80	MA2A6080XA100	8900
1.1	1.5	LTS 80	MA2B1080XA100	9740
1.5	2	LTS 90S	MA2B2090SA100	11080
2.2	3	LTS 90L	MA2B3090LA100	14240
3.7	5	LTS 100L	MA2B5100LC100	17500
5.5	7.5	LTS 112M	MA2C1112MC100	25830
5.5	7.5	LTS 132S	MA2C1132SC100	28780
7.5	10	LTS 132S	MA2C2132SC100	29760
9.3	12.5	LTS 160M	MA2C3160MC100	52490
11	15	LTS 160M	MA2D1160MC100	52490
15	20	LTS 160M	MA2D2160MC100	61550
18.5	25	LTS 160L	MA2D3160LC100	83590
22	30	LTS 180M	MA2B4180MC100	93210
30	40	LTS 200L	MA2E1200LC100	132530
37	50	LTS 200L	MA2E2200LC100	169160
45	60	LTS 225M	MA2E3225MC100	217700
55	75	LTS 250M	MA2F1250MC100	293090
75	100	LTS 280S	MA2F2280SC100	377960
90	120	LTS 280M	MA2F3280MC100	438100
110	150	LTS 315S	MA2F4315SC100	575390
132	180	LTS 315M	MA2F5315MC100	707170
160	215	LTS 315L	MA2G1315LC100	774640
180	240	LTS 315L	MA2G2315LC100	815520
200	270	LTS 315L	MA2G3315LC100	904440

4 Pole, 1500 rpm				
KW	HP	Frame	Cat. No.	M.R.P. (₹) Per Unit
0.12	0.16	LTS 63	MA4A1063XA100	7500
0.18	0.25	LTS 63	MA4A2063XA100	7840
0.25	0.33	LTS 71	MA4A3071XA100	7980
0.37	0.5	LTS 80	MA4A4071XA100	8270
0.55	0.75	LTS 80	MA4A5080XA100	9360
0.75	1.1	LTS 80	MA4A6080XA100	9430
1.1	1.5	LTS 90S	MA4B1090SA100	10440
1.5	2	LTS 90L	MA4B2090LA100	11380
2.2	3	LTS 100L	MA4B3100LC100	15080
3.7	5	LTS 112M	MA4B5112MC100	19340
5.5	7.5	LTS 132S	MA4C1132SC100	26680
7.5	10	LTS 132M	MA4C2132MC100	31070
9.3	12.5	LTS 160M	MA4C3160MC100	49930
11	15	LTS 160M	MA4D1160MC100	50300
15	20	LTS 160L	MA4D2160LC100	62530
18.5	25	LTS 180M	MA4D3180MC100	88390
22	30	LTS 180L	MA4D4180LC100	94180
30	40	LTS 200L	MA4E1200LC100	127120
37	50	LTS 200S	MA4E2225SC100	163340
45	60	LTS 225M	MA4E3225MC100	197990
55	75	LTS 250M	MA4F1250MC100	272120
75	100	LTS 280S	MA4F2280SC100	345230
90	120	LTS 280M	MA4F3280MC100	399950
110	150	LTS 315S	MA4F4315SC100	504080
132	180	LTS 315M	MA4F5315MC100	593480
160	215	LTS 315L	MA4G1315LC100	662330
180	270	LTS 315L	MA4G2315LC100	740622
200	270	LTS 315L	MA4G3315LC100	845290

*Temperature rise of 10°C higher over class B limits

<p>High efficiency</p> <ul style="list-style-type: none"> Higher efficiency thanks to labyrinth seal (low frictional losses) as compared to oil seal Low loss M45 grade stampings for frame 180 and above 	<p>Maintenance friendly</p> <ul style="list-style-type: none"> Sealed bearings till frame 160 Online Re-greasing arrangement for frame 180 & above 	<p>Protection</p> <ul style="list-style-type: none"> Special labyrinth seal (in place of oil seal) for ensuring True IP55 protection against water & solid particles
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Detailed motor pricelist available separately

3-Phase Squirrel Cage Induction Motor

SUPERNOVA™

<ul style="list-style-type: none"> Construction: TEFC enclosure with IP55 Protection Supply Conditions: 415V ± 10%, 50Hz ± 5% and combined variation of 10% Ambient: 50°C Insulation: Class F with temperature rise restricted to Class B (for rated output & supply conditions) 	<ul style="list-style-type: none"> Duty: S1 Mounting: B3 (Foot). Other mounting arrangements available on request Body: Aluminum body in frames 63 - 132 and Cast Iron body in frames 100 - 315 Terminal: 6 leads in all frames Reference: IS 325
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6 Pole, 1000 rpm				
KW	HP	Frame	Cat. No.	M.R.P. (₹) Per Unit
0.18	0.25	LTS 71	MA6A2071XA100	9180
0.25	0.33	LTS 71	MA6A3071XA100	9530
0.37	0.5	LTS 80	MA6A4080XA100	10210
0.55	0.75	LTS 80	MA6A5080XA100	10360
0.75	1.1	LTS 90S	MA6A6090SA100	12120
1.1	1.5	LTS 90L	MA6B1090LA100	13300
1.5	2	LTS 100L	MA6B2100LC100	16290
2.2	3	LTS 112M	MA6B3112MC100	19480
3.7	5	LTS 112M	MA6B5132SC100	28460
5.5	7.5	LTS 132S	MA6C1132MC100	31750
7.5	10	LTS 160M	MA6C2160MC100	51850
11	15	LTS 160L	MA6D1160LC100	64590
15	20	LTS 180M	MA6D2180MC100	92300
18.5	25	LTS 200L	MA6D3200LC100	120060
22	30	LTS 200L	MA6D4200LC100	130310
30	40	LTS 225M	MA6E1225MC100	203940
37	50	LTS 250M	MA6E2250MC100	274160
45	60	LTS 280S	MA6E3280SC100	346530
55	75	LTS 280M	MA6F1280MC100	393150
75	100	LTS 315S	MA6F2315SC100	483280
90	120	LTS 315M	MA6F3315MC100	607420
110	150	LTS 315L	MA6F4315LC100	677570
132	180	LTS 315L	MA6F5315LC100	799960

8 Pole, 750 rpm				
KW	HP	Frame	Cat. No.	M.R.P. (₹) Per Unit
0.18	0.25	LTS 80	MA8A2080XA100	9980
0.25	0.33	LTS 80	MA8A3080XA100	10280
0.37	0.5	LTS 90S	MA8A4090SA100	10600
0.55	0.75	LTS 90L	MA8A5090LA100	11540
0.75	1.1	LTS 100L	MA8A6100LA100	15060
1.1	1.5	LTS 100L	MA8B1100LA100	18340
1.5	2	LTS 112M	MA8B2112MA100	21250
2.2	3	LTS 132S	MA8B3132SA100	28180
3.7	5	LTS 160M	MA8B5160MC100	44570
5.5	7.5	LTS 160M	MA8C1160MC100	51890
7.5	10	LTS 180L	MA8C2160LC100	65820
11	15	LTS 180L	MA8D1180LC100	94440
15	20	LTS 200L	MA8D2200LC100	133020
18.5	25	LTS 225S	MA8D3225SC100	172320
22	30	LTS 225M	MA8D4225MC100	208170
30	40	LTS 250M	MA8E1250MC100	279760
37	50	LTS 280S	MA8E2280SC100	354070
45	60	LTS 280M	MA8E3280MC100	411080
55	75	LTS 315S	MA8F1315SC100	495760
75	100	LTS 315M	MA8F2315MC100	618520
90	120	LTS 315L	MA8F3315LC100	697880
110	150	LTS 315L	MA8F4315LC100	738790

Note:

- For Flange mounting arrangement, change 1st digit of cat. no. to 2 and consider 3% extra on MRP. All other mountings available on request
- All Motors are provided with 6 terminals
 - Motors from frame 63 - 90 are suitable for 415V Star (Y) or 230V (Δ) Delta connection
 - Motors from frame 100 and above are suitable for 415V (Δ) Delta connection
- For Higher KW motors in frame 355/400, please contact our nearest branch office

<p align="center">Flexibility</p> <ul style="list-style-type: none"> • Aluminum Body available from 63 - 132 and Cast Iron Body available from 100 - 315 • Rotatable terminal box in steps of 90° • Large terminal box for easy cable termination 	<p align="center">Inverter Compatibility</p> <ul style="list-style-type: none"> • All "LTS" motors are suitable for VFD compatibility for voltage 500V at the Motor terminals • VPI treatment for higher thermal and mechanical strength • Dual coat winding for higher electrical strength • 3 terminal connection in terminal box for all frames for inverter compatibility
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DISCONTINUED PRODUCTS

The following products have been discontinued effective 4-10-2010 :

Product Group	Range
Controlgear	MVX - Vacuum Contactors
	MNX - G MPCBs
	ML 0/1 Contactors
	MNX R - Relays
	MN Spares
	Bar Mounted Contactors
Changeover Switches	FGC 125A - 1000A
MCCB	DTH 100/200/250/400A

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General Terms

All prices are on maximum retail price basis inclusive of Excise Duty and VAT / Sales Tax as applicable.

Prices are subject to revision without notice.

Warranty Policy

All the products listed in the price list carry a warranty, against manufacturing defects for a period of 24 months from the date of manufacturing or 18* months from the date of purchase whichever is earlier.

Should the product prove to be defective due to faulty workmanship or otherwise, we will remedy the defect or replace the faulty parts or the whole product at our discretion, as soon as possible, free of cost.

The warranty is however subject to the provision of proper usage, efficient maintenance and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

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L&T has over four decades of experience in providing after sales service for low voltage distribution systems in every type of industry & commercial complex in India.

L&T offers the following services, partnering you in your maintenance of low voltage distribution products :

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* Proof of purchase to be retained to avail warranty

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Please contact any of the training centers for participation and detailed training programme schedule.



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Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.

L&T SWITCHGEAR

SAFE & SURE

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