

EFFECTIVE FROM 11/11/2004

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MOTOR STARTERS

Direct-on-Line Starters

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

Max. Motor Output at 415V, 3Ph		Relay Max. Range (A)	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HP	KW					
2.0	1.5	12 - 20	MF1 - 1Phase	SS 97227	580	1
7.5	5.5	9 - 15	MF1 - 3Phase	SS 97210	780	1
7.5	5.5	9 - 14	MK1 DOL	SS 96210	1275	1
7.5	5.5	11 - 18	MK1 DOL*	SS 96211		1
7.5	5.5	13 - 22	MK1 DOL*	SS 96228	1340	1
15.0	11.0	20 - 32	ML1.5 DOL	SS 91854	2660	1
20.0	15.0	20 - 32	ML2 DOL	SS 90702	4460	1
30.0	22.5	28 - 42	ML3 DOL	SS 90722	6580	1
10.0	7.5	13 - 21	MU1 DOL #	SS 95647	1940	1
10.0	7.5	14 - 23	MB1 DOL #	SS 95649	1940	1
15.0	11.0	20 - 32	MU2 DOL #	SS 95648	2600	1
15.0	11.0	20 - 33	MB2 DOL #	SS 95650	2560	1

* With 360V operating voltage

Semi-Automatic Star - Delta Motor Starters

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

Max. Motor Output at 415V, 3Ph		Relay Max. Range (A)	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HP	KW					
12.5	9.3	9 - 14	MK1 SASD	SS 96255	4265	1
15.0	11.0	11 - 18	MK1 SASD	SS 96258	4265	1
25.0	19.0	13 - 21	ML1.5 SASD	SS 91856	6040	1
35.0	26.0	20 - 32	ML2 SASD	SS 90707	10870	1
15	11	13 - 21	MU1 SASD #	SS 95891	5350	1
15	11	14 - 23	MB1 SASD #	SS 95895	5350	1
30	22.5	20 - 32	MU2 SASD #	SS 95893	6520	1
30	22.5	20 - 33	MB2 SASD #	SS 95897	6520	1

Fully-Automatic Star - Delta Motor Starters

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

Max. Motor Output at 415V, 3Ph		Relay Max. Range (A)	Description	Cat. No.	Price per Unit (Rs.)	Std. pkg. (Nos.)
HP	KW					
12.5	9.3	9 - 14	MK1 FASD	SS 96254	4885	1
15.0	11.0	11 - 18	MK1 FASD	SS 96257	4885	1
15.0	11.0	13 - 21	MU1 FASD#	SS 95890	5900	1
15.0	11.0	14 - 23	MB1 FASD#	SS 95894	5900	1
25.0	18.5	13 - 21	ML1.5 FASD	SS 91855	7060	1
30.0	22.0	20 - 32	MU2 FASD#	SS 95892	7010	1
30.0	22.0	20 - 33	MB2 FASD#	SS 95896	7010	1
35.0	26.0	20 - 32	ML2 FASD	SS 90705	11130	1
50.0	37.0	28 - 42	ML3 FASD	SS 90730	15600	1
75.0	55.0	45 - 75	ML4 FASD	SS 90913	27040	1
125.0	90.0	66 - 110	ML6 FASD	SS 90923	44200	1
250.0	180.0	135 - 225	ML10 FASD	SS 90938	69680	1
400.0	300.0	180 - 300	ML12 FASD	SS 91019	78000	1

Spares for Starters Type MK

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Single Moving Contact	SS 91009	22	10
Spare kit with hardware	SS 92845	180	40
Std. Operating coils			
400/440V, 50Hz	SS 90047	123	10
360V, 50Hz	SS 90165	123	10
320V, 50Hz	SS 90166	123	10
230/250V, 50Hz	SS 90045	123	10
220V, 50Hz	SS 90044	123	10
110V, 50Hz	SS 90043	123	10
Auxiliary contact block : 1NO + 1NC	SS 90120	191	50
Spare kit without coil	SS 90983	202	50
Thermal timer without combination coil	SS 90224	525	4
Combination coils			
Combination coils for 400/440V, 50Hz	SS 90443	335	10
Combination coils for 230V, 50Hz	SS 90444	335	10
Combination coils for 380V, 50Hz	SS 90445	335	10
Combination coils for 360V, 50Hz	SS 90446	335	10
Push Button Unit	SS 90004	70	100
Arc Shield	SS 50004	85	100
Contact bridge without Contacts	SS 50005	76	100

Submersible Pump Starters

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

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MU G10 3 phase DOL (13-21A) \$	SS 95983	3650	1
MU G10H 3 phase DOL (28-42A) \$	SS 95974	4450	1
MU G20 3 phase Star Delta (13-21A) \$	SS 95984	6850	1
MU G20H 3 phase DOL (28-42A) \$	SS 95975	8950	1

\$ These starters are also available with lower relay ranges

Ordering Suffix for MU / MB Starters

MB Starters		MU Starters	
COBO	360V, 9-15A	COAO	360V, 9-14A
DOBO	415V, 9-15A	DOAO	415V, 9-14A
CODO	360V, 14-23A	COCO	360V, 13-21A
DODO	415V, 14-23A	DOCO	415V, 13-21A
COEO	360V, 20-33A	COEO	360V, 20-32A
DOEO	415V, 20-33A	DOEO	415V, 20-32A

Note: Type MU1/MU2 consists of type ML Relay + MU1 / MU2 Contactor
Type MU1/MU2 consists of type ML Relay + MU1 / MU2 Contactor

To order a motor starter, please specify Type, Cat. No., Description, Relay Range (Page 8) and Operating Coil Voltage (Page 3)

For other spares please refer to page 7

MOTOR STARTERS

Direct-on-Line Starters

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

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HP	KW					
10.0	8.0	9 - 15	MN16 DOL	SS 94015	1575	1
15.0	11.0	14 - 23	MN25 DOL	SS 94232	2425	1
20.0	15.0	20 - 33	MN32 DOL	SS 94016	4330	1
30.0	23.0	30 - 50	MN45 DOL	SS 94017	6500	1
45.0	34.0	45 - 75	MN65 DOL	SS 94018	9050	1

Semi-Automatic Star - Delta Motor Starters

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

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HP	kW					
15.0	11.0	9 - 15	MN16 SASD	SS 94019	4465	1
25.0	19.0	14 - 23	MN25 SASD	SS 94657	5630	1
35.0	26.0	20 - 33	MN32 SASD	SS 94659	9350	1

Fully Automatic Star - Delta Motor Starters

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

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HP	KW					
15.0	11.0	9 - 15	MN16 FASD	SS 94020	5300	1
25.0	19.0	14 - 23	MN25 FASD	SS 94656	6050	1
35.0	26.0	20 - 33	MN32 FASD	SS 94658	10870	1
50.0	37.0	30 - 50	MN45 FASD	SS 94021	15030	1
75.0	55.0	45 - 75	MN65 FASD	SS 94022	25900	1
90.0	68.0	45 - 75	MN80 FASD	SS 94705	28185	1
125.0	90.0	66 - 110	MN110 FASD	SS 94706	36765	1
175.0	130.0	90 - 150	MN140 FASD	SS 94707	39130	1

To order a motor starter, please specify Type, Cat. No., Description, Relay Range (Page 8) and Operating Coil Voltage (Page 3)

For other spares please refer to Page 7

CONTACTORS

3 Pole Power Contactors Type MNX & MN* Standard Coil Voltage 110, 220, 240, 415V 50Hz

AC1 Rating (A)	AC3 Rating (A)	Capacitor Rating ? Connected at 415V, 50Hz	Aux. Contact	Type	Cat. No.	Price Per Unit (Rs.)	Type	Cat. No.	Price Per Unit (Rs.)	Std. Pkg. (Nos.)
25	9	6 kVAr	1 NO	MNX9	CS 94106	511	MN9	SS 94009	511	10
25	9	6 kVAr	1 NC	MNX9	CS 94107	511	MN9	SS 94099	511	10
30	12	7.5 kVAr	1 NO	MNX12	CS 94108	560	MN12	SS 94618	560	10
30	12	7.5 kVAr	1 NC	MNX12	CS 94109	560	MN12	SS 94619	560	10
30	16	9kVAr	1NO	—	—	—	MN16	SS 94011	640	10
30	16	9kVAr	1NC	—	—	—	MN16	SS 94101	640	10
30	18	9kVAr	1 NO	MNX18	CS 94100	640	—	—	—	10
30	18	9kVAr	1 NC	MNX18	CS 94101	640	—	—	—	10
45	25	15 kVAr	1 NO + 1 NC @	MNX25	CS 94218	860	MN25	SS 94012	900	1
55	32	20 kVAr	1 NO + 1 NC @	MNX32	CS 94219	1720	MN32	SS 94620	1775	1
55	40	20 kVAr	1 NO + 1 NC @	MNX40	CS 94130	2400	—	—	—	1
80	45	30 kVAr	2 NO + 2 NC	MNX45	CS 94132	3000	MN45	SS 94013	3000	1
80	50	30 kVAr	2 NO + 2 NC	MNX50	CS 94133	3100	—	—	—	1
100	65	35kVAr	2NO + 2NC	—	—	—	MN65	SS 94639	4170	1
100	70	35 kVAr	2 NO + 2 NC	MNX70	CS 94134	4250	—	—	—	1
100	80	40 kVAr	2 NO + 2 NC	MNX80	CS 94135	5100	MNE80#	SS 94941	5000	1
160	95	65 kVAr	2 NO + 2 NC	MNX95	CS 94136	5970	MN95	SS 94673	5970	1
160	110	65 kVAr	2 NO + 2 NC	MNX110	CS 94137	6900	MN110	SS 94036	6900	1
160	140	70 kVAr	2 NO + 2 NC	MNX140	CS 94138	9100	MN140	SS 94627	9100	1
250	185	100 kVAr	2 NO + 2 NC	MNX185	CS 94139	12400	MN185	CS 94003	12400	1
300	225	125 kVAr	2 NO + 2 NC	MNX225	CS 94140	13800	MN225	CS 94001	13800	1
350	265	150 kVAr	2 NO + 2 NC	MNX265	CS 94142	15650	MN265	SS 94674	15650	1
400	325	175 kVAr	2 NO + 2 NC	MNX325	CS 94143	18600	MN325	SS 94648	18600	1
425	400	175 kVAr	2 NO + 2 NC	MNX400	CS 94144	22100	MN400	SS 94043	22100	1
650	550	250 kVAr	2 NO + 2 NC	MNX550	CS 94145	34200	MN550	SS 94767	34200	1

* MN Contactors will be available only till stocks last

@ 1NO + 1 NC Add-On block is packed along with contactor as a standard accessory

MN Contactors are replaced by MNX - Mounting dimensions remain unchanged for 45A rating and above

3 Pole Power Contactors Type ML

Standard Coil Voltage 110, 230, 415V 50Hz

Type	Rating (415V)	Motor Output 3 phase 415V 50Hz		Cat.No.	Price per unit (Rs.)	Std pkg (Nos.)
	AC3	HP	kW			
ML0	12A	7.5	5.5	SS 90975	800	10
ML1	16A	10	7.5	SS 90851	855	10
ML1.5	25A	15	11	SS 91851	1080	10
ML2	32A	20	15	SS 90701	1860	10
ML3	40A	30	22	SS 90721	2760	10
ML4	70A	50	37	SS 90910	4670	1
ML6	110A	75	55	SS 90921	6850	1
ML10	200A	150	110	SS 90935	13500	1
ML12	300A	225	168	SS 91010	17800	1

Note: All ML contactors with 2 NO + 2 NC Aux. Contacts

Mini Power Contactors Type MZ

Standard Coil Voltages 110, 240, 415V, 50Hz

Type	AC1 Rating (415V)	AC3 Rating (415V)	Aux. Contact	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MZ 06 10	20A	6A	1NO	ST 29895	430	1
MZ 06 01	20A	6A	1NC	ST 29896	430	1
MZ 09 10	20A	9A	1NO	ST 29897	490	1
MZ 09 01	20A	9A	1NC	ST 29898	490	1

3 Pole Vacuum Contactors Type MVX

Standard Coil Voltage 110, 240, 415V 50Hz

Type	Rating AC3 (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MVX580	580	ST40192	93500	1
MVX650	650	ST40193	101500	1
MVX750	750	ST40194	130500	1
MVX820	820	ST40195	155500	1

Ordering Suffix for Coil Voltage			
AC Coils		DC Coils	
24V	G000	24V	4000
42V	H000	42V	6000
110V	A000	48V	5000
220/230V	K000	110V	1000
220/240V	Q000	220V	2000
240V	B000		
360V	C000		
380V	L000		
415V	D000		
440V	P000		
525V	M000		

To order a contactor, please specify Type, Cat. No., and Coil Voltage ordering suffix.

For Accessories & Spares, please refer page 6 & 7

CONTACTORS

Contactor Relays Type MN0

Rated Current	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
For AC Control Std. Coil Voltage - 24, 110, 240, 415 V, 50 Hz				
AC-15 4A	MN0 40E (4NO)	SS 94660	535	10
	MN0 31E (3NO+1NC)	SS 94661	535	10
	MN0 22E (2NO+2NC)	SS 94662	535	10
	MN0 13E (1NO+3NC)	SS 94663	535	10
	MN0 04E (4NC)	SS 94664	535	10
For DC Control Std. Coil Voltage - 24, 110, 240 V				
AC-15 4A	MN0 dc 40E (4NO)	SS 94665	785	10
	MN0 dc 31E (3NO+1NC)	SS 94666	785	10
	MN0 dc 22E (2NO+2NC)	SS 94667	785	10
	MN0 dc 13E (1NO+3NC)	SS 94668	785	10
	MN0 dc 04E (4NC)	SS 94669	785	10

Mini Contactor Relays Type MZ

Rated Current	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
For AC Control Std. Coil Voltage - 24, 110, 240, 415 V, 50Hz				
AC-15 3A	MZ 00 40E (4NO)	ST 29894	490	10
	MZ 00 31E (3NO+1NC)	ST 29893	490	10
	MZ 00 22E (2NO+2NC)	ST 29892	490	10
For DC Control Std. Coil Voltage - 24, 110, 220 V				
AC-15 3A	MZ 00 dc 40E (4NO)	ST 29901	645	10
	MZ 00 dc 31E (3NO+1NC)	ST 29900	645	10
	MZ 00 dc 22E (2NO+2NC)	ST 29899	645	10

Control Contactor Type MM00 / MM01

Rated Current	No. of Contacts (Type)	Contact Arrangement	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
For AC control Std. coil voltages 24, 110, 240, 415V, 50Hz					
AC-3 7.5A & AC-15 4A	4 (MM00)	2NO + 2NC	SS 92002	570	10
	8 (MM01)	8NO	SS 92010	695	10
7NO + 1NC		SS 92011	695	10	
6NO + 2NC		SS 92012	695	10	
5NO + 3NC		SS 92013	695	10	
		4NO + 4NC	SS 92014	695	10
For DC control Std. coil voltages 24, 110, 220V					
AC-3 7.5A & AC-15 4A	4 (MM00)	2NO + 2NC	SS 92007	800	10
	8 (MM01)	8NO	SS 92820	970	10
7NO + 1NC		SS 92821	970	10	
6NO + 2NC		SS 92822	970	10	
5NO + 3NC		SS 92823	970	10	
		4NO + 4NC	SS 92824	970	10

Ordering Suffix for Coil Voltage					
AC Coils			DC Coils		
24V	G000		24V	4000	
42V	H000		42V	6000	
110V	A000		48V	5000	
220/230V	K000		110V	1000	
220/240V	Q000		220V	2000	
240V	B000				
360V	C000				
380V	L000				
415V	D000				
440V	P000				
525V	M000				

To order a contactor, please specify Type, Cat. No., and Coil Voltage ordering suffix.

For Accessories & Spares, please refer page 6 & 7

CONTACTORS

Special Purpose # Contactors Type MU

Type	AC3 Rating (415V)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MU1	16 A	CS 94007	800	10
MU2	25 A	CS 94008	1100	10

Rugged & sturdy contactor for submersible pumps, rural industries and similar applications.

Contactors Type MNW

Standard Coil Voltage 110, 220, 240, 415V 50Hz

Type	AC3 Rating (415 V)	Aux. Contact	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN9W	9A	1NO	SS 94771	490	10
MN9W	9A	1NC	SS 94772	490	10
MN12W	12A	1NO	SS 94773	540	10
MN12W	12A	1NC	SS 94774	540	10
MN16W	16A	1NO	SS 94679	620	10
MN16W	16A	1NC	SS 94680	620	10
MN25W	25A	1NO + 1NC	SS 94655	880	1

DC Contactors

Standard Coil Voltage 24, 42, 48, 110, 220V DC

Type	AC - 3 Ratings (A)	Aux. Contact	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN16dc	16	1 NO	SS 94649	900	1
	16	1 NC	SS 94650	900	1
MN 32dc	32	1 NO	SS 94708	2600	1
MN 45dc	45	1 NC	SS 94713	4000	1
MN 65dc	65	1 NO	SS 94720	5000	1

Economy Resistor Kit (without contactor)

Used in combination with standard AC3 rating contactors

For Ratings	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN80, MN95, MN110, MN140	SS 94936	1450	1
MN265, MN325, MN400	SS 94937	2900	1

e.g. To order 110A dc Contactor, specify MN110 AC contactor (SS94036) and Economy Resistor Kit (SS94936)

4 Pole Power Contactors Type MC

Standard Coil Voltage 110, 240, 415V 50Hz

Type	Built-in Auxiliary Contacts	AC-1 Rating	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MC 01	-	16A	SS 94970	625	10
MC 02	-	25A	SS 94971	725	10
MC 03	-	32A	SS 94972	800	10
MC 11	1NO + 1 NC	50A	CS 94047	1420	1
MC 12	1NO + 1 NC	63A	CS 94048	2900	1
MC 21	1NO + 1 NC	80A	SS 94977	3750	1
MC 22	1NO + 1 NC	100A	SS 94978	4500	1
MC 31	1NO + 1 NC	140A	SS 94980	7000	1
MC 32	1NO + 1 NC	160A	SS 94981	9200	1
MC 33	1NO + 1 NC	200A	ST 40232	10500	1
MC 34	1NO + 1 NC	255A	SS 94983	13700	1
MC 88	-	275A	ST 40095	16200	1
MC 99	-	450A	ST 40096	27500	1

4 Pole Power Contactors Type MK1

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

Type	AC-3 Ratings (415V)	Motor Output 3phase,415V,50Hz		Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
		kW	HP			
MK1	11A	5.5	7.5	SS 95200	615	10

Capacitor Duty Contactors

Standard Coil Voltage 110, 220, 240, 415V 50Hz

Type	Thermal Current (A)	Capacitor Rating kVAr	Aux. Contact	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN16C	25	10	1NO + 1NC	SS 94624	1050	1
MN32C	50	25	1NO + 2NC	SS 94652	2100	1

NOTE: for use in APFC with more than 8 stages, please use inductor coils.

Ordering Suffix for Coil Voltage					
AC Coils			DC Coils		
24V	G000		24V	4000	
42V	H000		42V	6000	
110V	A000		48V	5000	
220/230V	K000		110V	1000	
220/240V	Q000		220V	2000	
240V	B000				
360V	C000				
380V	L000				
415V	D000				
440V	P000				
525V	M000				

To order a contactor, please specify Type, Cat. No., and Coil Voltage ordering suffix.

For Accessories & Spares, please refer page 6 & 7

ACCESSORIES & SPARES FOR MNX CONTACTORS

Add on Auxiliary Contact Block

MNX Contactors

Contactor Type	Mounting Position	Contacts	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Common for MNX9 / MNX12 / MNX18 / MNX25 / MNX32 / MNX40 Contactors	Top	4NO	CS 94112	190	10
	Top	3 NO+1NC	CS 94113	190	10
	Top	2NO+2NC	CS 94114	190	10
	Top	1NO+3NC	CS 94115	190	10
	Top	4NC	CS 94116	190	10
	Top	2NO	CS 94117	95	10
	Top	1NO+1NC	CS 94118	95	10
	Top	2NC	CS 94119	95	10
	Top	1NO	CS 94120	55	10
	Top	1NC	CS 94121	55	10
Common for MNX45/MNX50/ MNX70/MNX80 Contactors	First Left	1NO+1NC	CS 94201	200	10
	First Right	1NO+1NC	CS 94202	200	10
	Second Left	1NO+1NC	CS 94203	200	10
	Second Right	1NO+1NC	CS 94204	200	10
Common for MNX95 to MNX550 Contactors	First Left	1NO+1NC	CS 94205	220	10
	First Right	1NO+1NC	CS 94206	220	10
	Second Left	1NO+1NC	CS 94207	220	10
	Second Right	1NO+1NC	CS 94208	220	10

Surge suppressor for contactor coils Type MNX

Description	Cat. No.	Price per Unit (Rs.)	Std. Pkg. (Nos.)
MNX9/MNX12/MNX18/MNX25/MNX40	CS 94166	190	1
MNX45/MNX50/MNX70/MNX80	CS 94163	200	1
MNX95/MNX110/MNX140/MNX185/MNX225	CS 94164	750	1
MNX265/MNX325/MNX400	CS 94165	1000	1

Mechanical Interlock kit - Type MNX Contactors

Description	Cat. No.	Price per Unit (Rs.)	Std. Pkg. (Nos.)
MNX9/MNX12/MNX18/MNX25/MNX40	CS 94126	210	1
MNX45/MNX50/MNX70/MNX80	CS 94197	800	1
MNX95/MNX110/MNX140	CS 94198	1395	1
MNX185/MNX225	CS 94199	1600	1
MNX265/MNX325/MNX400/MNX550	CS 94200	1800	1

Spare Kits For MNX series

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Spares kit without coil for MNX9	CS 94123	265	25
Spares kit without coil for MNX12	CS 94124	335	25
Spares kit without coil for MNX18	CS 94125	365	25
Spares kit without coil for MNX25	CS 94127	390	25
Spares kit without coil for MNX32	CS 94128	625	25
Spares kit without coil for MNX45	CS 94149	1170	10
Spares kit without coil for MNX50	CS 94150	1270	10
Spares kit without coil for MNX70	CS 94151	1660	10
Spares kit without coil for MNX80	CS 94152	1925	1
Spares kit without coil for MNX95	CS 94153	2050	1
Spares kit without coil for MNX110	CS 94154	2400	1
Spares kit without coil for MNX140	CS 94155	3000	1
Spares kit without coil for MNX185	CS 94156	5300	1
Spares kit without coil for MNX225	CS 94157	6800	1
Spares kit without coil for MNX265	CS 94159	7200	1
Spares kit without coil for MNX325	CS 94160	9600	1
Spares kit without coil for MNX400	CS 94161	11000	1
Spares kit without coil for MNX550	CS 94162	17100	1

Spare Coils For MNX series contactors

(24, 42, 110, 220, 240, 415, 525V 50 Hz)

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MNX9/MNX12/MNX18/MNX25/MNX32/MNX40	CS 94105	220	10
MNX45/MNX50/MNX70/MNX80	CS 94192	625	10
MNX95/MNX110/MNX140	CS 94196	770	1
MNX185/MNX225	CS 94194	1675	1
MNX265/MNX325/MNX400**	CS 94195	1900	1
MNX550	CS 94193	7200	1

* Also available with 360V AC coil.

** Not available with 24V & 42V AC coil.

Ordering Suffix for Coil Voltage			
AC Coils		DC Coils	
24V	G000	24V	4000
42V	H000	42V	6000
110V	A000	48V	5000
220V	K000	110V	1000
240V	B000	220V	2000
415V	D000		
525V	M000		

To order coils please specify
Type, Cat No. & Coil Voltage Ordering Suffix.
(refer table Above)

ACCESSORIES FOR CONTACTORS

Add on Auxiliary Contact Block

MN0 / MN9 / MN12 / MN16 / MN25 / MN32 Contactors

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
1NO	SS 94715	55	10
1NC	SS 94716	55	10
2NO	SS 94080	95	10
2NC	SS 94082	95	10
1NO + 1NC	SS 94081	95	10
4NO	SS 94083	190	10
4NC	SS 94087	190	10
3NO + 1NC	SS 94084	190	10
2NO + 2NC	SS 94085	190	10
1NO + 3NC	SS 94086	190	10

MN45 / MN65 / MNE80 Contactors

Description	Aux. Contact	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
First Left	1 NO + 1 NC*	SS 94094	200	1
Second Left	1 NO + 1 NC	SS 94096	200	1
First Right	1 NO + 1 NC*	SS 94095	200	1
Second Right	1 NO + 1 NC	SS 94097	200	1

MN80 / MN95 / MN110 / MN140 / MN185 / MN225 / MN265 / MN325 / MN400 / MN550 Contactors

Description	Aux. Contact	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
First Left	1NO + 1NC*	SS 94090	220	1
Second Left	1NO + 1NC	SS 94092	220	1
First Right	1NO + 1NC*	SS 94091	220	1
Second Right	1NO + 1NC	SS 94093	220	1

* Supplied alongwith contactor as standard

MC11 / MC12 / MC21 / MC 22 / MC31 / MC32 / MU1 / MU2 Contactors

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
1 NO + 1 NC	SS 94072	85	10
1 NC	SS 94074	70	10

Accessories for Control Contactors Type MM00

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Add on NO single pole contact block (Upto 4 blocks can be added) AC-11 rating : 4A, 500V, 50Hz	SS 92020	60	10
DIN rail mounting kit suitable for AC Contactor	SS 91355	22	10

PNEUMATIC TIMER

For MN9 / MN12 / MN 16 / MN25 / MN32 Contactors

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
On Delay 0.1 - 30 Sec	ST 94000	600	10
On Delay 10 - 180 Sec	ST 94001	600	10
Off Delay 0.1 - 30 Sec	ST 94002	600	10
Off Delay 10 - 180 Sec	ST 94003	600	10

Mechanical Interlock Kit

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MIL Kit MN9/MN12/MN16/MN25/MN32/MC01/MC02/MC03	SS 94071	175	5
MIL Kit MN45/MN65/MNE80	SS 94014	800	1
MIL Kit MC11/MC12	CS 94049	1300	1
MIL Kit MN80/MN95/MN110/MN140	SS 94670	1395	1
MIL Kit MC21/MC22	SS 94990	1420	1
MIL Kit MN185/MN225	SS 94930	1600	1
MIL Kit MC31/MC32/MC33/MC34	SS 94992	1575	1
MIL Kit MN265/MN325/MN400/MN550	SS 94671	1800	1
MIL Kit MC88/MC99	ST 40113	800	1

COMMON ACCESSORIES FOR CONTACTORS TYPE MN & ML

Surge suppressor for contactor coils Type MN & ML

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN S1 for MN9/12/16/25/32/45/65, ML0/1/1.5/2/3, MM00 24 to 525V, 50Hz	SS 94623	175	5
MN-S2 for MN0/MN16 dc/MN32dc	SS 94781	220	1
MN S4 for MN80/95/110/140, ML4 & ML6 70/110V, 220/240V, 360/525V 50Hz	SS 94646	750	5
MN S6 for MN265/325/400, ML10/ML11/ML12 70/110V, 220/240V, 360/525V; 50Hz	SS 94647	975	5

ORDERING SUFFIX FOR SURGE SUPPRESSORS

For MN - S1

24 - 48 V
110 - 240 V
360 - 415 V

J000
B000
D000

For MN - S4 / MN - S6

110 V
220 - 240 V
360 - 525 V

A000
B000
D000

ACCESSORIES FOR MINI CONTACTORS

Auxiliary Contact Block for Type MZ Contactors

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MZ - A 02E - 2 NC	ST 29906	100	1
MZ - A 11E - 1 NO + 1 NC	ST 29907	100	1
MZ - A 20E - 2 NO	ST 29908	100	1
MZ - A 04E - 4 NC	ST 29909	150	1
MZ - A 13E - 1 NO + 3 NC	ST 29910	150	1
MZ - A 22E - 2 NO + 2 NC	ST 29911	150	1
MZ - A 31E - 3 NO + 1 NC	ST 29912	150	1
MZ - A 40E - 4 NO	ST 29913	150	1

Surge suppressors and Mechanical Interlock Kit for Type MZ Contactors

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MZ - S Surge Suppressor for coil voltage 24 - 48 V & 110 - 250 V	ST 29914	180	1
MZ - S Surge Suppressor for coil voltage 380 - 415 V	ST 29915	180	1
MZ - M Mechanical Interlock Kit	ST 29916	450	1

All Type MN Contactors, Accessories & Spares available only till stocks last

SPARES FOR CONTACTORS

Spare Kits For MN series

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Spares kit without coil for MN9/MN9W	SS 94702	265	25
Spares kit without coil for MN12/MN12W	SS 94625	335	25
Spares kit without coil for MN16/MN16W/MN16C	SS 94703	365	25
Spares kit without coil for MU1	CS 94010	340	1
Spares kit without coil for MN25	SS 94704	400	25
Spares kit without coil for MN25W	SS 94678	400	25
Spares kit without coil for MU2	CS 94011	550	1
Spares kit without coil for MN32/MN32C	SS 94626	700	25
Spares kit without coil for MN45	SS 94654	1170	10
Spares kit without coil for MN65	SS 94710	1660	10
Spares kit without coil for MNE80	SS 94942	1925	1
Spares kit without coil for MN95	SS 94676	2050	1
Spares kit without coil for MN110	SS 94166	2400	1
Spares kit without coil for MN140	SS 94628	3000	1
Spares kit without coil for MN185	CS 94005	5300	1
Spares kit without coil for MN225	CS 94004	6800	1
Spares kit without coil for MN265	SS 94677	7200	1
Spares kit without coil for MN325	SS 94170	9600	1
Spares kit without coil for MN400	SS 94172	11000	1
Spares kit without coil for MN550	SS 94719	17100	1

Spare Coils (24, 42, 110, 220, 240, 415, 525V 50 Hz)

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN9/MN12/MN16/MN16W/MN16C*	SS 94191	200	10
MN25/MN25W/MN32/MN32C*	SS 94192	250	10
MU1/MU2	CS 94009	275	10
MN45/MN65/MNE80*	SS 94193	610	10
MN80/MN95/MN110/MN140	SS 94196	675	1
MN185/MN225	CS 94002	1650	1
MN265/MN325/MN400**	SS 94202	1875	1
MN550	SS 94718	7200	1

* Also available with 360V AC coil.

** Not available with 24V & 42V AC coil.

Spares for Control Contactors Type MM00

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MM00/MM01 AC Coil for 415, 240,110, 42, 24V, 50Hz	SS 91353	220	10
MM00 DC Coil for 24, 30, 42, 110, 220V	SS 91354	300	10
Spares Kit without Coil	SS 91352	215	50

Spare Kits for ML series

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Type ML0/ML1/ML1.5			
Std. Operating coils for 525,415/440, 360, 240 / 250, 220 / 230,110,42 V,50Hz	SS 90873	275	10
Spares kit without coil for ML0*	SS 95301	360	50
Spares kit without coil for ML1*	SS 95303	455	50
Spares kit without coil for ML1.5*	SS 95305	665	50
Front Housing & Moving Bridge Kit for ML0	ST 28732	180	10
Front Housing & Moving Bridge Kit for ML1	ST 28733	180	10
Front Housing & Moving Bridge Kit for ML1.5	ST 28734	180	10
Moving Contacts Kit for ML1.5	SS 92817	180	50
Type ML2/ML3			
Std. Operating coils for 525, 415/440, 360, 220, 240, 110, 42V, 50Hz	SS 90545	425	10
Combination coil ML2 with timer	SS 90650	950	10
Spares kit without coil for ML2*	SS 95307	1010	10
Spares kit without coil for ML3*	SS 95309	1580	10
Moving Contacts Kit for ML2	SS 92818	275	10
Front Housing & Moving Bridge Kit for ML2/3	ST 23866	250	10
Type ML4/ML6			
Std. Operating coils for 525, 415, 240, 220, 110V, 50Hz	SS 91258	825	1
Spares kit without coil for ML4*	SS 95311	2650	25
Spares kit without coil for ML6*	SS 95313	4560	25
Front Housing & Moving Bridge Kit for ML4/6	ST 28735	475	1
Type ML10/ML11/ML12			
Std. Operating coils for 525, 415, 380, 240, 220, 110V, 50Hz	SS 91011	1800	1
Spares kit without coil for ML10*	SS 95315	8550	1
Spares kit without coil for ML12*	SS 95317	11300	1

Note: Catalogue Numbers of products marked * were earlier available as:

Old Cat. No.	New Cat. No.	Old Cat. No.	New Cat. No.	Old Cat. No.	New Cat. No.
SS 90978	SS 95301	SS 90896	SS 95303	SS 91467	SS 95305
SS 90544	SS 95307	SS 90848	SS 95309	SS 91660	SS 95311
SS 91660	SS 95313	SS 90936	SS 95315	SS 91127	SS 95317

Ordering Suffix for Coil Voltage			
AC Coils		DC Coils	
24V	G000	24V	4000
42V	H000	42V	6000
110V	A000	48V	5000
220V	K000	110V	1000
240V	B000	220V	2000
360V	C000		
380V	L000		
415V	D000		
440V	P000		
525V	M000		

All Type MN Contactors, Accessories & Spares available only till stocks last

To order coils please specify Type, Cat No. & Coil Voltage Ordering Suffix. (refer table Above)

BIMETAL OVERLOAD RELAYS

Bimetal Overload Relays Type MNX with Single Phasing Protection

Type of Mounting (Operation)	Relay Range (Type) (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MNX R1				
(Directly Operated)	0.67 - 1	ST940390OKO	690	10
	1 - 1.5	ST940390OMO	690	10
	1.4 - 2.1	ST940390ONO	690	10
	1.8 - 2.7	ST940390OPO	690	10
	2.4 - 3.6	ST940390OFO	690	10
	3.5 - 5	ST940390OGO	690	10
	4 - 6	ST940390OTO	690	10
	5.5 - 8.5	ST940390OUO	690	10
	8.5 - 12.5	ST940400OAO	740	10
	12.5 - 18	ST940400OCO	740	10
	17 - 24	ST940410ODO	740	10
	22 - 30	ST940410OEO	740	10
	17 - 25	ST940470ODO	740	10
22 - 32	ST940470OEO	740	10	
MNX R2				
(Directly Operated) Direct mounting on MNX25/ MNX32 contactors	12.5 - 18	ST940540OCO	840	10
	18 - 25	ST940540ODO	840	10
	22 - 32	ST940540OEO	880	10
MNX R3				
(Directly Operated)	0.2 - 0.33	CS942090OEO	790	1
	0.3 - 0.5	CS942090OGO	790	1
	0.45 - 0.75	CS942090OJO	790	1
	0.6 - 1	CS942090OKO	790	1
	0.9 - 1.5	CS942090OMO	790	1
	1.4 - 2.3	CS942090OPO	790	1
	2 - 3.3	CS942090OQO	790	1
	3 - 5	CS942090OSO	790	1
	4.5 - 7.5	CS942090OUO	790	1
	6 - 10	CS942100OVO	790	1
	9 - 15	CS942100OBO	790	1
14 - 23	CS942110ODO	860	1	
20 - 33	CS942120OEO	900	1	
MNX R4				
(Directly Operated) Separate Mounting	20 - 33	CS942260OEO	1250	10
	30 - 50	CS942260OGO	1250	10
	45 - 75	CS942270OJO	2050	10
	66 - 110	CS942270OKO	2050	10
MNX R5				
(CT Operated) Separate Mounting	42 - 69	CS942280OHO	4520	1
	60 - 100	CS942280OKO	4520	1
	90 - 150	CS942280OMO	4520	1
	135 - 225	CS942280OPO	4520	1
	180 - 300	CS942290OQO	4900	1
	270 - 450	CS942290ORO	4900	1
MNXR5L *				
(CT Operated) Separate Mounting	42 - 69	CS942300OHO	5350	1
	60 - 100	CS942300OKO	5350	1
	90 - 150	CS942300OMO	5350	1
	135 - 225	CS942300OPO	5350	1
	180 - 300	CS942300OQO	5350	1

* For motors with longer starting time

Bimetal Overload Relays Type MN\$ with Single Phasing Protection

Type of Mounting (Operation)	Relay Range (Type) (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MN1				
(Directly Operated) Direct mounting on MN9/ MN12/ MN16/ MN25/ MN32)	0.2 - 0.33	ST267460OKO	675	1
	1 - 1.5	ST267460OMO	675	1
	1.4 - 2.1	ST267460ONO	675	1
	1.8 - 2.7	ST267460OPO	675	1
	2.4 - 3.6	ST267460OFO	675	1
	3.5 - 5	ST267460OGO	675	1
	4 - 6	ST267460OTO	675	1
	5.5 - 8.5	ST267460OUO	675	1
	8.5 - 12.5	ST267470OAO	725	1
	12.5 - 18	ST267470OCO	725	1
MN2				
(Directly Operated) Direct mounting on MN9/ MN12/ MN16/ MN25/ MN32)	0.2 - 0.33	SS941410OEO	790	10
	0.3 - 0.5	SS941410OGO	790	10
	0.45 - 0.75	SS941410OJO	790	10
	0.6 - 1	SS941410OKO	790	10
	0.9 - 1.5	SS941410OMO	790	10
	1.4 - 2.3	SS941410OPO	790	10
	2 - 3.3	SS941410OQO	790	10
	3 - 5	SS941410OSO	790	10
	4.5 - 7.5	SS941410OUO	790	10
	6 - 10	SS941420OVO	790	10
	9 - 15	SS941420OBO	790	10
14 - 23	SS941440ODO	860	10	
20 - 33	SS941450OEO	880	10	
MN5				
(Directly Operated) Separate Mounting	20 - 33	SS941360OEO	1250	10
	30 - 50	SS941360OGO	1250	10
	45 - 75	SS941370OJO	2050	10
	66 - 110	SS941370OKO	2050	10
MN12				
(CT Operated) Separate Mounting	42 - 69	SS941380OHO	4520	1
	60 - 100	SS941380OKO	4520	1
	90 - 150	SS941380OMO	4520	1
	135 - 225	SS941380OPO	4520	1
	180 - 300	SS941390OQO	4900	1
270 - 450	SS941390ORO	4900	1	
MN12L *				
(CT Operated) Separate Mounting	42 - 69	SS941270OHO	5350	1
	60 - 100	SS941270OKO	5350	1
	90 - 150	SS941270OMO	5350	1
	135 - 225	SS941270OPO	5350	1
180 - 300	SS941270OQO	5350	1	

* For motors with longer starting time

\$ MN Relays available only till stocks last.

To order a bimetal overload relay, please specify Type, Cat No. & Range

BIMETAL OVERLOAD RELAYS

Bimetal Overload Relays Type ML

Type of Mounting (Operation)	Relay Range (Type) (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
(Directly Operated)	ML0/ML1/ML1.5			
	0.15 - 0.25	SS 918580ODO	775	10
	0.25 - 0.40	SS 918580OFO	775	10
	0.40 - 0.65	SS 918580OHO	775	10
	0.60 - 1.00	SS 918580OKO	775	10
	1.00 - 1.60	SS 918580OMO	775	10
	1.50 - 2.50	SS 918580OPO	775	10
	2.50 - 4.00	SS 918580ORO	775	10
	4.00 - 6.50	SS 918580OTO	775	10
	6.00 - 10.00	SS 918580OVO	775	10
Contactor	10.00 - 16.00	SS 918580OBO	775	10
	ML2/ML3			
	9 - 14	SS 918590OAO	1180	2
	13 - 21	SS 918590OCO	1180	2
Contactor	20 - 32	SS 918590OEO	1180	2
	28 - 42	SS 918590OFO	1180	2

Accessories for Bimetal Overload Relays

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Push button unit for MK1 / ML Relays	SS 90004	80	20
Push button unit for MN Relays	SS 94001	80	20
Push button extn. unit for MN2 Relays	SS 94968	8	100
Kit for Mounting MN2 relay on ML0/1/1.5 contactor	SS 94701	35	50
Kit for Mounting MN2 relay separately (Direct Mounting Type)	SS 94700	35	50
Kit for Mounting MN5 relay on MN80/95/110/140 contactor	SS 94638	45	20
Kit for Mounting MN5 relay on ML2/ML3 contactor	SS 94151	45	20
Kit for Mounting MN5 relay on ML4/ML6 contactor	SS 94152	80	20
DIN Rail Mounting Kit for MN2 Relay	SS 91887	22	50
Kit for Mounting MK1 relay on MN9/MN12/MN16	SS 94762	22	20
MN2/MN5 Relay Resetting Cord	Available on request		

Bimetal Overload Relays Type MK1

Type of Mounting (Operation)	Relay Range (Type) (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
(Directly Operated)	MK1			
	0.15 - 0.25	SS900350ODO	511	10
	0.25 - 0.40	SS900350OFO	511	10
	0.40 - 0.65	SS900350OHO	511	10
	0.60 - 1.00	SS900350OKO	511	10
	1.00 - 1.60	SS900350OMO	511	10
	1.50 - 2.50	SS900350OPO	511	10
	2.50 - 4.00	SS900350ORO	511	10
	4.00 - 6.50	SS900350OTO	511	10
	Contactor	6.00 - 10.0	SS900350OVO	511
9.00 - 14.0		SS900350OAO	511	10
11.00 - 18.0		SS900360OCO	511	10
13.00 - 22.0		SS918880ODO	579	10

Bimetal Overload Relays Type MU

Type of Mounting (Operation)	Relay Range (Type) (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Contactor	MU1			
	4 - 6.5	SS965570OTO	775	10
	6 - 10	SS965570OVO	775	10
(Directly Operated)	MU2			
	9 - 14	SS959790OAO	1180	10
	13 - 21	SS959790OCO	1180	10
	20 - 32	SS959790OEO	1180	10
	28 - 42	SS959790OFO	1180	10

Bimetal Overload Relays Type MZ-R with Single Phasing Protection

Type of Mounting (Operation)	Relay Range (Type) (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
(Directly Operated)	0.10 - 0.16	ST 299170OBO	640	1
	0.16 - 0.24	ST 299170ODO	640	1
	0.24 - 0.40	ST 299170OFO	640	1
	0.40 - 0.60	ST 299170OHO	640	1
Direct Mounting on MZ Mini contactors	0.60 - 1.00	ST 299170OKO	640	1
	1.00 - 1.60	ST 299170OMO	640	1
	1.60 - 2.40	ST 299170OPO	640	1
	2.40 - 4.00	ST 299170ORO	640	1
	4.00 - 6.00	ST 299170OTO	640	1
	6.00 - 9.00	ST 299170OVO	640	1

TIMERS

Electronic Timers Type ET 100

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
110/240V, 50Hz for			
3 - 10 secs.	SE 92001	1525	1
9 - 30 secs.	SE 92002	1525	1
36 - 120 secs.	SE 92003	1525	1
240/360/415V*, 50Hz for			
3 - 10 secs.	SE 92005	1525	1
9 - 30 secs.	SE 92006	1525	1
36 - 120 secs.	SE 92007	1525	1

* 360V tap can be used for 240 V connections

Thermal Timers Type GT 200

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Operating Voltages : 230/250V, 360V, 400/440V, 500V, 50Hz for 5 - 18 secs. range	SS 91270	1175	1

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

NEGATIVE SEQUENCE CURRENT SENSING TYPE SOLID STATE MOTOR PROTECTION DEVICES

Single Phasing Preventer Type ES 100

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
For 415V, 50Hz, 3Ø motors upto			
1.0 HP	SE 93001	1875	1
3.0 HP	SE 93002	1875	1
5.0 HP	SE 93003	1875	1
7.5 HP	SE 93004	1875	1
10.0 HP	SE 93005	1875	1
12.5 HP	SE 93006	1875	1
15.0 HP	SE 93007	1875	1
20.0 HP	SE 93009	1875	1

To order a Single Phasing Preventer, please specify Type, Cat. No. & Range

CONTROL ACCESSORIES

Actuator Units Type TK3

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

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Selector actuator - 2 position (black only)	SS 91516	185	30
Selector actuator - 3 position (black only)	SS 91517	185	30
Mushroom push button actuator (red, green or black)	SS 91518	100	30
Shrouded push button actuator (red, black, green, yellow, blue or grey)	SS 91519	70	30
Unshrouded push button actuator (red, black, green, yellow, blue or grey)	SS 91520	70	30
Key actuator - lockable in 1 position	SS 91522	265	30
Key actuator - lockable in both positions	SS 91521	265	30
Element with 2 fixing screws	SS 90375	90	100

Push Button Pendants

6A, 415V, 50Hz

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
With 2 push buttons	SS 90502	440	30
With 4 push buttons	SS 90504	825	30
With 6 push buttons	SS 90506	1100	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.

SWITCH DISCONNECTOR FUSE UNITS

Type FN (TPN) conforming to IS 13947 (Part 3) - 1993 suitable for DIN fuses

Rated Current (A)	Suitable HRC Fuse		Open Execution				In Sheet Steel Enclosure			
	Type	Rating (A)	Type	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)	Type	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
32	HF	2 to 32	FN 32 TPN	SK 95518	1090	1	FN 32 TPN	SK 95612	2110	1
63	HF	2 to 63	FN 63 TPN	SK 95421	1665	1	FN 63 TPN	SK 95613	2690	1
100	HN Size 00	63 to 100	FN 100 TPN	SK 95568	3170	1	FN 100 TPN	SK 95569	4360	1
125	HN Size 00	63 to 125	FN 125 TPN	SK 95001	3990	1	FN 125 TPN	SK 95005	5100	1
160	HN Size 00	63 to 160	FN 160 TPN	SK 95713	4450	1	FN 160 TPN	SK 95715	5550	1
200	HN Size 0	80 to 200	FN 200 TPN	SK 95418	4700	1	FN 200 TPN	SK 95511	6300	1
250	HN Size I	125 to 250	FN 250 TPN	SK 95642	6380	1	FN 250 TPN	SK 95681	7810	1
315	HN Size I	125 to 315	FN 315 TPN	SK 95461	8020	1	FN 315 TPN	SK 95514	9500	1
400	HN Size II	200 to 400	FN 400 TPN	SK 95481	9680	1	FN 400 TPN	SK 95515	11000	1
630	HN Size III	315 to 630	FN 630 TPN	SK 95521	15000	1	FN 630 TPN	SK 95547	17350	1
800	HN Size III	315 to 800	FN 800 TPN	SK 95679	17745	1	FN 800 TPN	SK 95705	21000	1

Switch Disconnector Fuse Type FN (TP)

Conforming to IS13947 (Part-3)-1993. Suitable for DIN fuses.

Rated Current	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
100	FN 100 TP	ST 30287	***	1
125	FN 125 TP	ST 27894	***	1
200	FN 200 TP	ST 27895	***	1
250	FN 250 TP	ST 31731	***	1
315	FN 315 TP	ST 27897	***	1
400	FN 400 TP	ST 27898	***	1
630	FN 630 TP	ST 27899	***	1

Note: Please contact our branch office for prices marked ***

Switch Disconnector Fuse with Type 'CE' handle, Type FN (TPN)

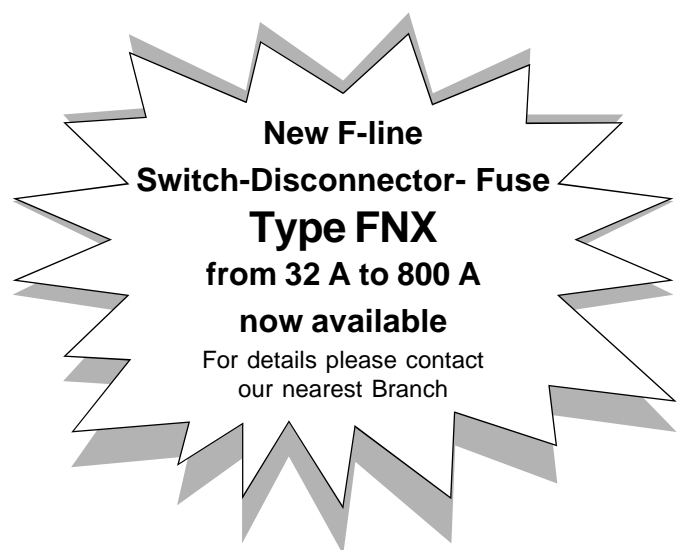
Conforming to IS 13947 (Part 3) - 1993. Suitable for DIN Fuses

Type	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
FN 32	32A SDF with Type 'CE' handle	SK 95703	950	1
FN 63	63A SDF with Type 'CE' handle	SK 95704	1490	1

Switch Disconnector Fuse suitable for Bolted Type Fuses, Type FN (TPN)

conforming to IS 13947 (Part 3) - 1993

Rated Current (A)	Open Execution				
	Type	Fuse Size (Bolted Type)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
32	FN 32 TPN	A 1 L	SK 95653	1000	1
63	FN 63 TPN	A 1 L	SK 95651	1450	1
100	FN 100 TPN	A 3 / A 4	SK 95570	3075	1
125	FN 125 TPN	A 4	SK 95009	3920	1
160	FN 160 TPN	A 4	SK 95714	4065	1
200	FN 200 TPN	B 2	SK 95588	4580	1
250	FN 250 TPN	B 2 / B 3	SK 95682	6150	1
315	FN 315 TPN	B 3	SK 95590	7830	1
400	FN 400 TPN	B 4	SK 95591	9550	1
630	FN 630 TPN	C 2	SK 95592	14500	1



SWITCH DISCONNECTOR ISOLATOR (TPN)

Type FN & FG

conforming to IS 13947 (Part 3) - 1993.

Rated Current (A)	Type	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
32	FN 32 TPN	SK 95541	1035	1
63	FN 63 TPN	SK 95540	1610	1
100	FN 100 TPN	SK 95571	2750	1
125	FN 125 TPN	SK 95405	3500	1
200	FN 200 TPN	SK 95607	3950	1
250	FN 250 TPN	SK 95683	5800	1
315	FN 315 TPN	SK 95609	6800	1
400	FN 400 TPN	SK 95610	8650	1
630	FN 630 TPN	SK 95611	12600	1
800	FN 800 TPN	SK 95551	14000	1
1000	FN 1000 TPN	SK 95710	17000	1
1250	FG 1250	ST 30198	24200	1
1600	FG 1600	ST 30199	31800	1
2000	FG 2000	ST 30200	****	1
2500	FG 2500	ST 30201	****	1
3150	FG 3150	ST 30202	****	1

Note: The above units will not accommodate fuses.

Please contact our Branch Office for prices marked ****

CASTELL LOCK for FN - SDF

Rating (A)	Description & Cat No.	Price per unit (Rs.)	Std. pkg. (Nos.)
100/ 125/ 160/ 200/ 250	SK00333 = A B = SK00334 SK00335 = C D = SK00336 SK00337 = E F = SK00338 SK00339 = G H = SK00340 SK00341 = J K = SK00342 SK00343 = L M = SK00344	775	1
315/ 400/ 630/ 800	SK00345 = A B = SK00346 SK00347 = C D = SK00348 SK00349 = E F = SK00350 SK00351 = G H = SK00352 SK00353 = J K = SK00354 SK00355 = L M = SK00356	775	1

Switch Interiors for Panel Mounting

Description	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
FFO TP Interior	32	SK 91100	630	1
FF TP Interior	63	SK 91000	850	1
FAC 63 TPN	63	SK 95156	1700	1
FAC100 TPN	100	SK 95157	3000	1

Switch Fuse in SS Enclosure

FFO in SS	32	SK 95204	1780	1
FF in SS	63	SK 95202	2300	1

Spares & Accessories

Description	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
FAC - Handle Assembly	63/100	SK 90453	30	1
FFO/FF Handle Assembly	32/63	SK 90998	45	1
FFO/FF Handle Coupler & Door Interlock	32/63	SK 91079	260	1

Accessories

Switch Disconnecter Fuse Type FN

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
For FN 32/63			
Auxiliary Contact Kit	SK 91302	265	1
Handle Assembly - A	SK 91257	215	1
Handle Assembly - B	SK 91277	195	1
Handle Assembly - CE	SK 91337	115	1
Terminal Shroud Kit	SK 91190	60	1
For FN 100/125/160			
Handle Assembly - A	SK 91258	405	1
Handle Assembly - B	SK 91278	465	1
Shaft extension Kit	SK 95600	125	1
Switched Neutral Kit	SK 95233	790	1
Auxiliary Contact Kit	SK 91328	250	1
Terminal Shroud Kit	SK 91137	90	1
Mechanical Interlock Kit	SK 95232	640	1
For FN 200/250			
Handle Assembly - A	SK 91258	405	1
Handle Assembly - B	SK 91278	465	1
Switched Neutral Kit	SK 95516	830	1
Auxiliary Contact Kit	SK 91329	345	1
Terminal Shroud Kit	SK 91335	165	1
Interphase Barrier kit - FN 200	SK 91343	150	1
Mechanical Interlock Kit	SK 95232	640	1
For FN 315/400/630/800			
Switched Neutral Kit FN 315/400	SK 95517	925	1
Switched Neutral Kit FN 630/800	SK 95546	1145	1
Handle Assembly - A	SK 91259	530	1
Handle Assembly - B	SK 91279	515	1
Auxiliary Contact Kit	SK 91330	345	1
Mechanical Interlock Kit	SK 95545	745	1
Terminal Shroud Kit - FN 315/400	SK 91346	160	1
Terminal Shroud Kit - FN 630/800	SK 91347	160	1
Interphase Barrier kit - FN 315/400	SK 91344	160	1
Interphase Barrier kit - FN 630/800	SK 91345	160	1
Shaft Extension Kit	SK 91331	145	1

Spare Front Housing Assemblies for FN (DIN fuses)

Rating (A)	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
100	FN100 Front housing assly.	ST 31677	1995	1
125	FN 125 Front housing assly.	ST 31678	2310	1
200	FN 200 Front housing assly.	ST 31679	2625	1
250	FN 250 (new) Front housing assly.	ST 31729	3625	1
250	FN 250 (old) Front housing assly.	ST 31680	3625	1
315	FN 315 Front housing assly.	ST 31681	4440	1
400	FN 400 Front housing assly.	ST 31682	5515	1
630	FN 630 Front housing assly.	ST 31683	10110	1

Spare Kits for FN

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Spare Kit for FN 315 (FN 250 old)	SK 91376	790	1
Spare Kit for FN400	SK 91377	1040	1
Spare Kit for FN 630	SK 91378	1565	1

ON LOAD CHANGEOVER SWITCHES (TPN)

Type FG / FGC

Description	Type	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Line mounting with 8 O/P terminals	FG 63	63	ST265100000	2750	1
Back to Back mtg. with 8 O/P terminals	FGC 125	125	ST26520000C	5250	1
Back to Back mtg. with 8 O/P terminals	FGC 160	160	ST26525000C	5900	1
Back to Back mtg. with 4 O/P terminals	FGC 200	200	ST26530000C	8500	1
Back to Back mtg. with 4 O/P terminals	FGC 250	250	ST26540000C	9900	1
Back to Back mtg. with 4 O/P terminals	FGC 315	315	ST26550000C	10600	1
Back to Back mtg. with 4 O/P terminals	FGC 400	400	ST26560000C	14900	1
Back to Back mtg. with 4 O/P terminals	FGC 630	630	ST26570000C	17600	1
Back to Back mtg. with 4 O/P terminals	FGC 800	800	ST26580000C	23900	1
Back to Back mtg. with 4 O/P terminals	FGC 1000	1000	ST26590000C	38000	1
Back to Back mtg. with 4 O/P terminals	FGC 1250	1250	ST27460000C	49900	1
Back to Back mtg. with 8 O/P terminals	FG 1600	1600	ST274700000	71500	1

Following items will be available till stocks last

Description	Type	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Back to Back mtg. with 8 O/P terminals	FG 200	200	ST400000000	7000	1
Back to Back mtg. with 8 O/P terminals	FG 250	250	ST265400000	7900	1
Back to Back mtg. with 8 O/P terminals	FG 315	315	ST265500000	8250	1
Back to Back mtg. with 8 O/P terminals	FG 1000	1000	ST265900000	31200	1
Back to Back mtg. with 8 O/P terminals	FG 1250	1250	ST274600000	42850	1

Auxiliary Contact Block

Suitable for C/Os & Switch Disconnectors	Contacts	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
FG63-200 C/O, FGC125/160	1 NO+1 NC	ST265120000	275	1
FG250-1600 C/O, FGC250-1250	1 NO+1 NC	ST265420000	275	1
FG63-200 C/O, FGC125/160	2 NO+2 NC	ST265150000	550	1
FG250-1600 C/O, FGC250-1250	2 NO+2 NC	ST265460000	550	1

Spares & Accessories for C/Os & SDs

Type FG / FGC

Operating Handle

Suitable for	Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
FG 63/125 C/O	ST265110000	275	1
FG 200 C/O	ST265310000	300	1
FG 250/315	ST265410000	425	1
FG 400/630	ST265610000	1400	1
FG 800	ST265710000	1650	1
FG 1000/1250/1600	ST265910000	1900	1
FGC 200/250/315/400	ST26531000C	650	1
FGC 630/800	ST26561000C	1500	1
FGC 1000/1250	ST26591000C	1900	1

Terminal Shroud

Suitable for	Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
FG200/250/315	ST265440000	350	1
FG400/630	ST265640000	400	1
FG800	ST265720000	500	1
FG1000/1250/1600	ST265730000	1000	1
FGC200/250/315/400 (2 for I/C & 1 for load)	ST26544000C	1000	1
FGC630/800 (2 for I/C & 1 for load)	ST26564000C	1100	1
FGC1000/1250 (2 for I/C & 1 for load)	ST26573000C	1500	1

Safety Key Lock

Suitable for	Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
FG63/125/160 C/O & SD	ST265130000	3500	1
FG200/250 C/O	ST265450000	3500	1
FG400 -FG1600 C/O	ST265650000	3500	1
FG200/250/315 SD	ST302100000	3500	1
FG400/630 SD	ST302110000	3500	1
FG800 SD	ST302120000	3500	1
FG1000/1250/1600 SD	ST302130000	3500	1

Motorised Kit

Suitable for	Voltage Rating	Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
FGC 200/250/315/400	230V AC	ST26550000M	29750	1
FGC 630/800	230V AC	ST26580000M	35600	1
FGC 1000/1250	230V AC	ST27460000M	43600	1

HRC FUSES

Cylindrical Fuse Links Type HF for 415V, 50Hz

Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)	
2	SF 90144	54	30	
4	SF 90145	54	30	
6	SF 90146	54	30	
8	SF 90147	54	30	
10	SF 90148	54	30	
16	SF 90150	54	30	
20	SF 90151	54	30	
25	SF 90152	54	30	
32	SF 90142	54	30	
40	SF 90143	54	30	
50	SF 90158	110	30	
63	SF 90159	115	30	
Fuse pulling handle for HF-Fuselinks		SK 91185	90	1

Knife edge Fuse Links Type HN for 415V, 50Hz

Rating (A)	Description	Cat. No.	Price Per Unit (Rs.)	Std. Pkg. (Nos.)
Size 000 :				
63	Suitable for Type FA-C 100 Switch fuse units and type FN 160 Switch Disconnecter Fuse Units.	SF 94940	150	3
80		SF 94941	150	3
100		SF 94942	150	3
Size 00 :				
63	Suitable for Type FA-C 100 Switch fuse units and type FN 160 Switch Disconnecter Fuse Units.	SF 94027	250	3
80		SF 94028	250	3
100		SF 94029	250	3
125	Also for HB 125 Fuse base	SF 94030	265	3
160		SF 94939	280	3
Size 0 :				
80		SF 94128	330	3
100	Suitable for Type FN 200 Switch Disconnecter Fuse Units	SF 94129	330	3
125		SF 94130	330	3
160	Also for HB 250 Fuse base	SF 94131	330	3
200		SF 94132	340	3
Size I :				
125		SF 94230	430	3
160	Suitable for Type FB/FB - C 250 & FB - C 315 fuse-switches & FN 250 Switch Disconnecter Fuse Units.	SF 94231	430	3
200		SF 94232	430	3
250		SF 94233	475	3
315	Also for HB 250 Fuse base	SF 94234	595	3
Size II :				
200	Suitable for Type FB/FB - C 400 fuse-switches & Type FN 400 Switch Disconnecter Fuse Units.	SF 94332	620	3
250		SF 94333	620	3
315		SF 94334	620	3
400	Also for HB 800 Fuse base	SF 94335	620	3
Size III :				
315	Suitable for Type FB/FB - C 630 fuse-switches & Type FN 630 Switch Disconnecter Fuse Units.	SF 94434	920	1
400		SF 94435	920	1
500		SF 94436	920	1
630		SF 94437	940	1
800	Also for HB 800 Fuse base	SF 94938	1100	1
Insulated fuse pulling handle for Type HN fuse links from 63A to 800A		SF 90126	330	1

To order a fuse or an accessory, please specify Cat. No., Rating and Description.

Bolted Fuse Links Type HG and HQ for 415V, 50 Hz

Type	Fixing Method	Size	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)			
HG	Offset, staggered	F1	2	ST 30725	25	20			
			4	ST 30726	25	20			
			6	ST 30727	25	20			
			10	ST 30728	25	20			
			16	ST 30729	25	20			
			20	ST 30730	29	20			
			25	ST 30731	29	20			
			32	ST 30732	29	20			
			HQ	Offset	A1	2	ST 30736	36	20
						4	ST 30737	36	20
6	ST 30738	36				20			
10	ST 30739	36				20			
16	ST 30740	36				20			
20	ST 30741	36				20			
25	ST 30742	47				20			
32	ST 30743	47				20			
20	ST 34527	45				20			
25	ST 34528	45				20			
A1L	32	ST 34529			45	20			
	50	ST 35827			52	20			
	63	ST 35828			52	20			
	A2	4			ST 30747	28	10		
		6			ST 30748	28	10		
		10			ST 30749	28	10		
		16			ST 30750	28	10		
		20			ST 30751	28	10		
		25			ST 30752	28	10		
		32			ST 30753	28	10		
A3		35	ST 30759	64	10				
		50	ST 30760	64	10				
		63	ST 30761	64	10				
A4	80	ST 30767	110	10					
	100	ST 30768	110	10					
	125	ST 30769	140	10					
Center tag, 2 holes	B1	80	ST 30774	144	10				
		100	ST 30775	144	10				
		125	ST 30776	149	10				
		125	ST 30777	151	3				
		160	ST 30778	151	3				
		200	ST 30779	146	3				
		B3	250	ST 30781	221	3			
			315	ST 30782	231	3			
			355	ST 30783	450	3			
		B4	400	ST 30784	445	3			
400	ST 30785		550	1					
Centre Tag, 4 holes	C2	500	ST 30786	565	1				
		630	ST 30787	800	1				
		630	ST 30788	920	1				

Fuse Bases suitable for DIN type HRC fuse links

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Type HCO for HF fuses 2A to 32A	SK 91314	82	10
Type HC for HF fuses 2A to 63A	SK 91043	125	10
Type HB 125 Single pole fuse base	SK 90405	205	12
Type HB 250 Single pole fuse base (125/200/250 A)	SK 90406	375	3
Type HB 800 Single pole fuse base (400/630/800 A)	SK 91051	780	3

Fuse Bases for Bolted Fuse Links Type HG & HQ

Type	Connection Method	Fuse Type	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HD20H	Both side cable	F1	20	ST 30772	55	10
HD20P	Both side busbar	F1	20	ST 30773	60	10
HD20B	Top busbar & bottom Cable	F1	20	ST 30766	60	10
HD32H	Both Side cable	F1	32	ST 30733	73	10
HD32P	Both side busbar	F1	32	ST 30734	73	10
HD32B	Top busbar & bottom Cable	F1	32	ST 30735	73	10
HK32H	Both Side cable	A2	32	ST 30754	119	10
HK32B	Top busbar & bottom Cable	A2	32	ST 30755	128	10
HK63H	Both Sides cable	A3	63	ST 30762	150	10
HK63B	Top busbar & bottom Cable	A3	63	ST 30763	172	10
HK125H	Both Side cable	A4	125	ST 30770	405	10
HK125B	Top busbar & bottom Cable	A4	125	ST 30771	450	10

HIGH SPEED FUSE FOR PROTECTION OF SEMI - CONDUCTOR DEVICES

690V AC / 500V DC

Type	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HSD	6	ST 35031	100	20
	10	ST 35032	100	20
	12	ST 35033	100	20
	16	ST 35034	100	20
	20	ST 35035	100	20
HSE	25	ST 35036	215	10
	32	ST 35037	215	10
	35	ST 35038	215	10
	40	ST 35039	215	10
	45	ST 35040	215	10
	56	ST 35041	215	10
	63	ST 35042	215	10
	80	ST 35043	215	10
HSEE	90	ST 35044	495	5
	110	ST 35045	495	5
	140	ST 35046	495	5
	160	ST 35047	500	5
HSF	160	ST 35048	365	1
	180	ST 35049	365	1
	200	ST 35050	450	1
	250	ST 35051	450	1
	280	ST 35052	450	1
	315	ST 35053	770	1
	355	ST 35054	770	1
HSFF	180	ST 35055	775	1
	200	ST 35056	775	1
	225	ST 35057	775	1
	280	ST 35058	780	1
	315	ST 35059	905	1
	355	ST 35060	940	1
	400	ST 35061	950	1
	450	ST 35062	955	1
	500	ST 35063	955	1
	560	ST 35064	1345	1
630	ST 35065	1345	1	
710	ST 35066	1345	1	

240V AC / 150V DC

Type	Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
HSA	6	ST 35009	85	20
	10	ST 35010	85	20
	12	ST 35011	85	20
	16	ST 35012	85	20
	20	ST 35013	85	20
HSB	25	ST 35014	165	10
	32	ST 35015	165	10
	35	ST 35016	165	10
	50	ST 35017	165	10
	63	ST 35018	165	10
	80	ST 35019	165	10
	100	ST 35020	165	10
	125	ST 35021	195	10
	160	ST 35022	195	10
	180	ST 35023	195	10
HSC	160	ST 35024	295	1
	200	ST 35025	295	1
	250	ST 35026	385	1
	315	ST 35027	580	1
	355	ST 35028	580	1
	400	ST 35029	580	1
	450	ST 35030	740	1

MOULDED CASE CIRCUIT BREAKERS

Conforms to IS 13947-2 & IEC 60947-2

DH Series - 3 Pole

Standard Breaking Capacity

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DH 100 Ics=100% Icu	12 - 16	25	SL 97201	3580	1
	16 - 20	25	SL 97202	3580	1
	20 - 25	25	SL 97203	3580	1
	25 - 32	25	SL 97204	3580	1
	32 - 40	25	SL 97205	3580	1
	40 - 50	25	SL 97206	3580	1
	50 - 63	25	SL 97207	3580	1
	63 - 80	25	SL 97208	3690	1
	80 - 100	25	SL 97209	3690	1
DH 125 Ics=100% Icu	12 - 16	35	SL 98556	4780	1
	16 - 20	35	SL 98557	4780	1
	20 - 25	35	SL 98558	4780	1
	25 - 32	35	SL 98559	4780	1
	32 - 40	35	SL 98560	4780	1
	40 - 50	35	SL 98561	4780	1
	50 - 63	35	SL 98562	4780	1
	63 - 80	35	SL 98563	4830	1
	80 - 100	35	SL 98564	4830	1
DH 160	128 - 160	35	SL 98566	6480	1
DH 200	160 - 200	35	SL 97869	8050	1
DH 250 Ics=100% Icu	160 - 200	35	SL 97881	13120	1
	200 - 250	35	SL 97882	13120	1
DH400 Ics=100% Icu	250 - 320	35	SL 97883	15570	1
	320 - 400	35	SL 97884	15570	1
DH 630 Ics=100% Icu	400 - 500	35	SL 94531	17980	1
	500 - 630	35	SL 94532	17980	1

Note: Please contact us for:

- 1) Prices of 1 pole and 2 pole versions of DH MCCBs
- 2) Prices of Distribution Panel assembly Type dpan

DH Series - 4 Pole

Standard Breaking Capacity (Ics = 100% Icu)

Type	Thermal release range (A)	Breaking capacity Icu at 415V, 50Hz (kA)	Cat No	Price per unit (Rs.)	Std Pkg (Nos.)
DH100	12-16	25	SL98597	4730	1
	16-20	25	SL98598	4730	1
	20-25	25	SL98599	4730	1
	25-32	25	SL98600	4730	1
	32-40	25	SL98601	4730	1
	40-50	25	SL98602	4730	1
	50-63	25	SL98603	4730	1
	63-80	25	SL98604	4800	1
DH125	100-125	35	SL98607	5940	1
DH160	125-160	35	SL98608	7920	1

DL Series - 3 Pole

High Breaking Capacity

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DL 100	12 - 16	65	SL 97801	7240	1
	16 - 20	65	SL 97802	7240	1
	20 - 25	65	SL 97803	7240	1
	25 - 32	65	SL 97804	7240	1
	32 - 40	65	SL 97805	7240	1
	40 - 50	65	SL 97806	7240	1
	50 - 63	65	SL 97807	7240	1
	63 - 80	65	SL 97808	7400	1
	80 - 100	65	SL 97809	7400	1
DL 160 ^(*)	90 - 125	65	SL 97129	12580	1
	120 - 160	65	SL 97130	12580	1
DL 250 ^(*)	160 - 200	65	SL 97541	16250	1
	200 - 250	65	SL 97542	16250	1
DL 400	250 - 320	65	SL 97543	17160	1
	320 - 400	65	SL 97544	17160	1
DL 630 Ics=100% Icu	400 - 500	50	SL 97991	18600	1
	500 - 630	50	SL 97990	18600	1

Note: Products marked (*) are not standard stock items.

DL Series - 4 Pole

High Breaking Capacity (Ics = 100% Icu)

Type	Thermal release range (A)	Breaking capacity Icu at 415V, 50Hz (kA)	Cat No	Price per unit (Rs.)	Std Pkg (Nos.)
DL100	12-16	50	SL98620	8120	1
	16-20	50	SL98621	8120	1
	20-25	50	SL98622	8120	1
	25-32	50	SL98623	8120	1
	32-40	50	SL98624	8120	1
	40-50	50	SL98625	8120	1
	50-63	50	SL98626	8120	1
	63-80	50	SL98627	8220	1
	80-100	50	SL98628	8220	1

SS Enclosure

Description	Cat. No.	Price Per Unit (Rs.)	Std. Pkg. (Nos.)
Sheet Steel Enclosure for DH 100/125/160/200 DG 125/200	ST 29967	900	1

Earth Fault Modules

Type	Current Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
GF1	100, 125, 160, 200	ST 27745	4475	1
GF2	250, 400	ST 27746	5070	1
GF11*	630, 800	ST 28594	4475	1

* With External CTs (5VA, 5P10) secondary rating 1A or 5A. (CTs to be procured separately.)

MOULDED CASE CIRCUIT BREAKERS Application Specific

DM Series - 3 Pole Motor Protection Range

(with only short-circuit release) (Ics = 100% Icu)

Type	Current Rating (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DM 16	0.63	50	SL 97581	2760	1
	1.0	50	SL 97582	2760	1
	1.6	50	SL 97583	2760	1
	2.5	50	SL 97584	2760	1
	4.0	50	SL 97585	2760	1
	5.0	50	SL 97586	2760	1
	6.3	50	SL 97587	2760	1
	7.5	50	SL 97588	2760	1
	10	50	SL 97589	2760	1
	12	50	SL 97590	2760	1
DM 100	16	50	SL 97811	7020	1
	25	50	SL 97812	7020	1
	30	50	SL 97816	7020	1
	35	50	SL 97813	7020	1
	50	50	SL 97814	7020	1
	60	50	SL 97817	7020	1
DM 160	100	50	SL 97123	11890	1
	120	50	SL 97703	11890	1
	160	50	SL 97124	11890	1
DM 250	200	50	SL 97551	14880	1
	230	50	SL 97552	14880	1
DM 400	250	50	SL 97553	14880	1
	275	50	SL 97554	16080	1
	325	50	SL 97555	16080	1
	350	50	SL 97556	16080	1
	400	50	SL 97557	16080	1

Note: Type 2 Co-ordination chart for DOL and Star-Delta starting, as per IEC 60947-4, is available on request.

DG Series - 3 Pole

Normal Breaking Capacity (Ics = 100% Icu)

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DG 125	25 - 32	16	ST 30844	2530	1
	32 - 40	16	ST 30845	2530	1
	40 - 50	16	ST 30846	2530	1
	50 - 63	16	ST 30847	2530	1
	63 - 80	16	ST 30233	2630	1
	80 - 100	16	ST 30234	2630	1
	100 - 125	16	ST 30235	3640	1
DG 200	120 - 160	16	ST 30266	3940	1
	160 - 200	16	ST 30268	5330	1
DG 250	200 - 250	25	ST 30269	10270	1
DG 400	250 - 320	25	ST 30270	13745	1
	320 - 400	25	ST 30271	13745	1

Accessories for DH/DL/DG/DM Series MCCBs

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DM 16			
Shunt release 415Vac / 240Vac / 110Vdc Left side	SL 97042	365	1
Aux. Contact Block (1C/O) Right side	SL 97023	385	1
Left side	SL 97025	365	1
Trip Alarm Contact Right side	SL 97037	365	1
Rotary Operating Mechanism External	SL 97044	535	1
Drop-in type accessories fittable at site for DH 100/125/160/200, DL 100, DG 125/200, DM 100			
Shunt release # 240Vac (to be mounted on left pole) 24Vdc	SL 97299®	650	1
Under voltage release # (to be mounted on left pole) 240Vac	SL 97611	850	1
Auxiliary Contact Block # (2 changeover contacts) for mounting on Left pole	SL 97297	585	1
Auxiliary Contact Block # (2 changeover contacts) for mounting on Right pole	SL 97296	585	1
Trip alarm Contact #	SL 97298	585	1
Rotary Operating Mechanism	SL 97301	615	1
Spreader Terminal Kit (1 set)	ST 98047	225	1
Drop-in type accessories fittable at site for DH 250/400/630, DL 250/400/630, DG 250/400, DM 250/400			
Shunt release # 415Vac or 220Vdc (to be mounted on Left or Right pole) 240Vac or 110Vdc	SL 97575	950	1
SL 97576	950	1	
Under voltage release # 240Vac (to be mounted on Left pole) 415Vac	SL 97580	1075	1
SL 97579	1075	1	
Auxiliary Contact Block # (2 changeover contacts) for mounting on Left/Right pole	SL 97573	950	1
Trip Alarm Contact # can be mounted on Right pole	SL 97574	900	1
Rotary Operating Mechanism	SL 97562	710	1
Rotary Operating Mechanism DH/DL630	SL 97979	850	1
Adapter Terminal (3) with shroud (1)	SL 97564	1230	1
Terminal shroud (1)	SL 97563	430	1

Only two internal accessories can be fitted simultaneously in a breaker.

@ Ordering Suffix for 240Vac - OMOO & for 24Vdc - O400

Fuse Monitoring Device - Type DF

Type	Thermal Rating (A)	Magnetic Threshold (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DF	1	2	SL 97020	2920	1

MCCBs for Induction Furnace Application Type - DTH Instantaneous

Type	Magnetic Release Range (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DTH 800	360	SB 95052	25500	1
	550	SB 95053	25500	1
	850	SB 95054	25500	1
	1050	SB 95055	25500	1

MOULDED CASE CIRCUIT BREAKERS

DU Series - 3 Pole

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V, 50 Hz (kA)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DU 100	32	10	CM 97754	1440	1
	50	10	CM 97756	1440	1
	63	10	CM 97757	1440	1
	80	10	CM 97758	1440	1
	100	10	CM 97759	1440	1
DU 125	125	25	CM 97791	2800	1
DU 160	160	25	CM 97792	3150	1
DU 200	200	25	CM 97793	4300	1

Accessories for DU Series

Description	Cat. No For DU100	Price per unit (Rs.)	Std. Pkg. (Nos.)	Cat. No For DU125 DU160/200	Price per unit (Rs.)	Std. Pkg. (Nos.)
Shunt release	CM977830000	350	1	SL972990M00	650	1
Auxiliary contact-L	CM977810000	300	1	SL972960000	585	1
Auxiliary contact-R	CM977820000	300	1	SL972970000	585	1
Trip alarm contact	SL970370000	365	1	SL972980000	585	1
ROM	SL970440000	535	1	SL973010000	615	1
Earth fault module	ST277450000	4475	1	ST277450000	4475	1
U/V Release-240V AC	--	--	--	SL976110000	850	1
Spreader links	CM977850000	100	6	ST980470000	225	6
SS Enclosure	ST980500000	450	1	ST299670000	900	1

Note: For DU Series:

? 2 pole version

? DU 100 in Hager Distribution board

Please contact nearest branch for details.

Type DTH 3 Pole

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DTH 200#	140 - 200	35	SL 94515	11750	1
DTH 250	175 - 250	50	SL 94467	22100	1
DTH 400	225 - 320	50	SL 94468	24100	1
	280 - 400	50	SL 94469	24100	1
DTH 630	360 - 500	50	SL 94470	24500	1
	460 - 630	50	SL 94471	24500	1
DTH 800	600 - 800	50	SL 94472	25000	1

Available only till stocks last.

Accessories for DTH/DTH Instantaneous

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DTH 200/DL 160/DM160			
Shunt release	Right pole	Ord. Suffix	
	415V AC	ODOO	SL 94331 1250 1
	240V AC	OBOO	SL 94331 1250 1
Under Voltage release	Left pole	Ord. Suffix	
	415V AC	DOOO	SL 94332 1250 1
	240V AC	BOOO	SL 94332 1250 1
Aux. Contact Block (2 C/O)	Left Side		SL 94329 1400 1
	Right Side		SL 94330 1400 1
Rotary Operating Mechanism	External		SL 94336 1140 1
DTH 250/400/630/800			
Shunt release	Right pole		
	415V AC / 220V DC		SL 98526 1320 1
	240V AC / 110V DC		SL 98534 1320 1
Under Voltage release	Left pole		
	415V AC		SL 98548 1320 1
	240VAC		SL 98545 1320 1
Aux. Contact Block (2 C/O)	Left/Right		SL 94217 1190 1
Rotary Operating Mechanism	External		SL 94337 1245 1

MOULDED CASE CIRCUIT BREAKERS



DN Series (Ics = 100% Icu)

Thermal setting adjustable from 80% to 100%

Magnetic setting adjustable from 3 to 6 times I_n

Standard Breaking Capacity - 3 Pole

Type	Thermal release range (A)	Breaking capacity, Icu at 415V, 50Hz (kA)	Cat.No	Price per unit (Rs.)	Std pkg (Nos.)
DN2-160S	100-125	35	CM92008OOLO	6630	1
DN2-160S	125-160	35	CM92008OOMO	8670	1
DN2-250S	160-200	35	CM92009OONO	10710	1
DN2-250S	200-250	35	CM92009OPO	13770	1
DN3-400S	250-320	35	CM94005OOQO	16510	1
DN3-400S	320-400	35	CM94005OORO	16510	1
DN3-630S	400-500	35	CM94006OOSO	18040	1
DN3-630S	500-630	35	CM94006OOTO	18040	1

High Breaking Capacity - 3 Pole

Type	Thermal release range (A)	Breaking capacity at 415V, 50Hz (kA)	Cat.No	Price per unit (Rs.)	Std pkg (Nos.)
DN2-160H	100-125	50	CM92005OOLO	7140	1
DN2-160H	125-160	50	CM92005OOMO	9180	1
DN2-250H	160-200	50	CM92006OONO	11220	1
DN2-250H	200-250	50	CM92006OPO	14280	1
DN3-400H	250-320	50	CM94003OOQO	16870	1
DN3-400H	320-400	50	CM94003OORO	16870	1
DN3-630H	400-500	50	CM94004OOSO	18570	1
DN3-630H	500-630	50	CM94004OOTO	18570	1

Standard Breaking Capacity - 4 Pole

Type	Thermal release range (A)	Breaking capacity, Icu at 415V, 50Hz (kA)	Cat.No	Price per unit (Rs.)	Std pkg (Nos.)
DN2-160S	100-125	35	CM92108OOLO	7955	1
DN2-160S	125-160	35	CM92108OOMO	10400	1
DN2-250S	160-200	35	CM92109OONO	12850	1
DN2-250S	200-250	35	CM92109OPO	16520	1
DN3-400S	250-320	35	CM94105OOQO	19550	1
DN3-400S	320-400	35	CM94105OORO	19550	1
DN3-630S	400-500	35	CM94106OOSO	21650	1
DN3-630S	500-630	35	CM94106OOTO	21650	1

High Breaking Capacity - 4 Pole

Type	Thermal release range (A)	Breaking capacity, Icu at 415V, 50Hz (kA)	Cat.No	Price per unit (Rs.)	Std pkg (Nos.)
DN2-160H	100-125	50	CM92105OOLO	8570	1
DN2-160H	125-160	50	CM92105OOMO	11015	1
DN2-250H	160-200	50	CM92106OONO	13460	1
DN2-250H	200-250	50	CM92106OPO	17310	1
DN3-400H	250-320	50	CM94103OOQO	20160	1
DN3-400H	320-400	50	CM94103OORO	20160	1
DN3-630H	400-500	50	CM94104OOSO	22020	1
DN3-630H	500-630	50	CM94104OOTO	22020	1

Internal Accessories DN2 & DN3

Description	Cat.No	Price per unit (Rs.)	Std pkg (nos)
Auxiliary Contact 1 C/O	CM99801O000	535	1
Auxiliary Contact 2 C/O	CM99802O000	960	1
Trip Alarm Contact	CM99803O000	535	1
Auxiliary & Trip Alarm Contact	CM99804O000	960	1
Shunt Release	CM99805O000	1280	1
U/V Release (240V) for DN2	ST35357O000	1390	1
U/V Release (240V) for DN3	ST35359O000	1390	1

Rotary Operating Mechanism

Description	Cat.No	Price per unit (Rs.)	Std pkg (nos)
Direct rotary handle			
For DN2	CM99829O000	830	1
For DN3	CM99860O000	1240	1
Extended rotary handle			
For DN2	CM99830O000	1200	1
For DN3	CM99861O000	2150	1
Extended rotary handle with key lock			
For DN2	CM99830O00A	1550	1
For DN3	CM99861O00A	2500	1



range also available with microprocessor release & additional accessories

for details and prices, please contact our branch office

Rotary Operating Mechanism

Description	Cat.No	Price per unit (Rs.)	Std pkg (nos)
For DN2 #	CM99815O000	830	1
For DN3 #	CM99831O000	1240	1

Note: # Available only till stocks last.

MOULDED CASE CIRCUIT BREAKERS

DNX Series (Ics = 100% Icu) \$

Normal Breaking Capacity - 3 Pole

Frame Size	Type	Release setting range (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat No	Price per unit (Rs.)	Std Pkg. (Nos.)
DNX1	DNX-125S	32-40	25	ST38191	5300	1
		40-50	25	ST38192	5300	1
		50-63	25	ST38193	5300	1
		63-80	25	ST38194	5300	1
		80-100	25	ST38195	5400	1
		100-125	25	ST38404	8775	1
DNX2 #	DNX250H	50-100	50	ST38208	11730	1
		80-160	50	ST38209	15300	1
		125-250	50	ST38210	25500	1
DNX3 #	DNX630H	200-400	50	ST38212	29580	1
		315-630	50	ST38213	34000	1
DNX4 #	DNX1600H	400-800	50	ST38214	36750	1
		500-1000	50	ST38215	55000	1
		625-1250	50	ST38216	65000	1
		800-1600	50	ST38217	98500	1

Normal Breaking Capacity - 4 Pole

Frame Size	Type	Release setting range (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat No	Price per unit (Rs.)	Std Pkg. (Nos.)
DNX1	DNX125S	32-40	25	ST38228	7345	1
		40-50	25	ST38229	7345	1
		50-63	25	ST38230	7345	1
		63-80	25	ST38231	7345	1
		80-100	25	ST38232	7345	1
		100-125	25	ST38415	11730	1
DNX2 #	DNX250H	50-100	50	ST38244	14790	1
		80-160	50	ST38245	19890	1
		125-250	50	ST38246	30600	1
DNX3 #	DNX630H	200-400	50	ST38247	38760	1
		315-630	50	ST38248	43500	1
DNX4 #	DNX1600H	400-800	50	ST38249	47750	1
		500-1000	50	ST38250	71500	1
		625-1250	50	ST38251	84000	1
		800-1600	50	ST38252	129500	1

High Breaking Capacity - 3 Pole

Frame Size	Type	Release setting range (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat No	Price per unit (Rs.)	Std Pkg. (Nos.)
DNX1	DNX125H	32-40	50	ST38196	8160	1
		40-50	50	ST38197	8160	1
		50-63	50	ST38198	8160	1
		63-80	50	ST38199	8160	1
		80-100	50	ST38200	8160	1
		100-125	50	ST38405	13260	1
DNX2	DNX250L	32-40	100	ST38406	8370	1
		40-50	100	ST38407	8370	1
		50-63	100	ST38408	8370	1
		63-80	100	ST38409	8370	1
		80-100	100	ST38410	8370	1
		100-125	100	ST38411	13770	1
		125-160	100	ST38412	15910	1
		160-200	100	ST38413	18870	1
		200-250	100	ST38414	20400	1
DNX2 #	DNX250L	50-100	100	ST38218	14280	1
		80-160	100	ST38219	19890	1
		125-250	100	ST38220	31620	1
DNX3 #	DNX630L	200-400	100	ST38222	37230	1
		315-630	100	ST38223	43500	1
DNX4 #	DNX1600L	400-800	100	ST38224	48500	1
		500-1000	100	ST38225	69000	1
		625-1250	100	ST38226	79000	1
		800-1600	100	ST38227	129500	1

High Breaking Capacity - 4 Pole

Frame Size	Type	Release setting range (A)	Breaking Capacity Icu at 415V, 50Hz (kA)	Cat No	Price per unit (Rs.)	Std Pkg. (Nos.)
DNX1	DNX125H	32-40	50	ST38233	10400	1
		40-50	50	ST38234	10400	1
		50-63	50	ST38235	10400	1
		63-80	50	ST38236	10400	1
		80-100	50	ST38237	10400	1
		100-125	50	ST38416	15045	1
DNX2	DNX250L	32-40	100	ST38417	10400	1
		40-50	100	ST38418	10400	1
		50-63	100	ST38419	10400	1
		63-80	100	ST38420	10400	1
		80-100	100	ST38421	11730	1
		100-125	100	ST38422	17340	1
		125-160	100	ST38423	18615	1
		160-200	100	ST38424	22950	1
		200-250	100	ST38425	28050	1
		DNX2 #	DNX250L	50-100	100	ST38253
80-160	100			ST38254	26010	1
125-250	100			ST38255	35190	1
DNX3 #	DNX630L	200-400	100	ST38256	49980	1
		315-630	100	ST38257	57630	1
DNX4 #	DNX1600L	400-800	100	ST38258	78500	1
		500-1000	100	ST38259	105000	1
		625-1250	100	ST38260	119500	1
		800-1600	100	ST38261	175000	1

Note: # Available only with Microprocessor based release

Please Note:

- 1) Plug in version is available in DNX2 Frame
 - 2) Withdrawable version available in DNX3 / DNX4 Frame
 - 3) Versions with Earth Fault protection available in DNX3 / DNX4
- Please contact our nearest branch for more details.

MOULDED CASE CIRCUIT BREAKERS

Accessories for DNX Series MCCBs

Description	Cat no	Price per unit (Rs.)	Std. pkg. (Nos.)
Auxiliary contact			
NO Contact (DNX1-DNX4)	ST38301	560	1
NC Contact (DNX1-DNX4)	ST38302	560	1
Trip alarm contact			
NO Contact (DNX1-DNX4)	ST38301	560	1
NC Contact (DNX1-DNX4)	ST38302	560	1
Undervoltage release			
DNX1 3P/4P-240V AC	ST38305	1735	1
DNX1 3P/4P-415V AC	ST38306	1735	1
DNX2/3 3P/4P-240V AC	ST38307	1835	1
DNX2/3 3P/4P-415V AC	ST38308	1835	1
DNX4 3P/4P-240V AC	ST38309	3060	1
DNX4 3P/4P-415V AC	ST38310	3060	1
Shunt release			
DNX1 3P/4P-240V AC	ST38311	1530	1
DNX1 3P/4P-415V AC	ST38432	1530	1
DNX2/3 3P/4P - 240V AC	ST38433	1685	1
DNX2/3 3P/4P - 415V AC	ST38434	1685	1
DNX4 3P/4P - 240V AC	ST38435	3060	1
DNX4 3P/4P - 415V AC	ST38436	3060	1
Door coupling rotary handle (to be used with extension shaft)			
DNX1 (3P/4P)	ST38437	1530	1
DNX2 (3P/4P)	ST38438	1530	1
DNX3 (3P/4P)	ST38439	2705	1
DNX4 (3P/4P)	ST38431	3725	1
Extension shaft			
DNX1/2 (Max Length-600mm)	ST38440	305	1
DNX3/4 (Max Length-600mm)	ST38441	510	1
Electrical operating Mechanism			
DNX2-240V AC	ST38442	11730	1
DNX2-415V AC	ST38443	16830	1
DNX3-240V AC	ST38444	16830	1
DNX3-415V AC	ST38445	16830	1
DNX4-240V AC	ST38446	27030	1
DNX4-415V AC	ST38447	27030	1

AIR CIRCUIT BREAKERS - C-POWER

C-POWER range of Air Circuit Breakers conform to IS 13947 - 2, IEC 60947 - 2 and BS - EN 60947. Range at a glance:

Ratings - 800 A to 6300 A

Versions - 3 pole / 4 pole, Manually / Electrically operated, Fixed / Draw-out; **suitable for AC and DC voltage applications**

Protection Releases - i) **Microprocessor based:**

a) Type SR61C - **Communication Capable**

 b) Type SR21i - **Intelligent release with zone selective interlocking**

c) Type SR18G, SR18 - An all round microprocessor solution

ii) **Solid State based** : Type SR15G

iii) **Thermal-Magnetic** : Type DN1

This range is complemented by CN-CS type Air Circuit Breakers rated for 400A and 630A.

Standard manually operated Fixed (MF) ACBs come equipped with 6NO + 6NC auxiliary contacts (except for 400 & 630A MF ACB).

Standard manually operated Drawout (MDO) ACBs come equipped with 6NO + 6NC auxiliary contacts & 18 way secondary isolating contacts.

Standard Electrically operated Drawout (EDO) ACBs come equipped with 6NO + 6NC auxiliary contacts, 240V AC shunt release, service position microswitch, 240V AC motor & 24 way secondary isolating contacts. ACBs are suitable for operational voltage of 415V AC.

3 POLE DRAW-OUT ACBs

RELEASE		MICROPROCESSOR		SOLIDSTATE		THERMAL-MAGNETIC		WITHOUT RELEASE	
		SR18G		SR15G		DN1		-	
DESCRIPTION		Cat No.	Price per unit (Rs.)	Cat No.	Price per unit (Rs.)	Cat No.	Price per unit (Rs.)	Cat No.	Price per unit (Rs.)
Rating	Version								
800 A	MDO	ST 35541	85000	SL 93581	80500	SL 93061	75000	SL 93561	67000
	EDO	ST 35551	110300	SL 93681	106200	*	*	SL 93861	95700
1000 A	MDO	ST 35542	88500	SL 93582	84000	SL 93062	78500	SL 93562	70500
	EDO	ST 35552	115400	SL 93682	111300	*	*	SL 93862	100800
1250 A	MDO	ST 35543	108000	SL 93583	103500	SL 93063	98000	SL 93563	90000
	EDO	ST 35553	134100	SL 93683	130000	*	*	SL 93863	119500
1600 A	MDO	ST 35544	117800	SL 93584	113300	ST 30414	107800	SL 93564	99800
	EDO	ST 35554	141100	SL 93684	137000	*	*	SL 93864	126500
2000 A	MDO	ST 35545	140700	SL 93585	136200	SL93065	130700	SL 93565	122700
	EDO	ST 35555	161100	SL 93685	157000	*	*	SL 93865	146500
2500 A	MDO	ST 35546	163000	SL 93586	158500	SL 93066	153000	SL 93566	145000
	EDO	ST 35556	176600	SL 93686	172500	*	*	SL 93866	162000
3200 A	MDO (H0)	ST 35547	211500	SL 93463	202500	SL 93459	201500	SL 93455	191500
	EDO (H0)	ST 35557	225600	SL 93465	221500	*	*	SL 93457	211000
4000 A	MDO (H0)	ST 35548	252000	SL 93464	243000	SL 93460	242000	SL 93456	232000
	EDO (H0)	ST 35558	267800	SL 93466	263700	*	*	SL 93458	253200
5000 A	MDO / EDO	*	*	NA	NA	NA	NA	*	*
6300 A	MDO / EDO	*	*	NA	NA	NA	NA	*	*

* Available on "Made-to-Order" basis

New Generation ACBs

U-POWER™

are available on enquiry

Please contact our branch office for details and prices

Please Note:

- 1) High Breaking Capacity ACBs (H Range) available on request
- 2) Draw-out type ACBs available on request with Horizontal or Vertical Terminal Orientations for ratings up to 4000A
- 3) Above ACBs also available for DC / Higher Operational Voltages.
- 4) Any other configuration than listed above or ACBs with SR21i and SR61C releases can be provided as per customer's requirement on "Made-to-Order" basis.

Please contact our nearest branch for more details.

AIR CIRCUIT BREAKERS - C-POWER

4 POLE DRAW-OUT ACBs

RELEASE		MICROPROCESSOR		SOLID STATE		THERMAL-MAGNETIC		WITHOUT RELEASE	
		SR18G		SR15G		DN1		--	
DESCRIPTION		Cat No.	Price per unit (Rs.)	Cat No.	Price per unit (Rs.)	Cat No.	Price per unit (Rs.)	Cat No.	Price per unit (Rs.)
Rating	Version								
800 A	MDO	ST 35561	106900	*	*	ST 25031	96900	*	*
	EDO	ST 35571	140600	ST31588	136500	*	*	*	*
1000 A	MDO	ST 35562	111700	*	*	ST 25032	101700	*	*
	EDO	ST 35572	144900	ST31589	140800	*	*	*	*
1250 A	MDO	ST 35563	138000	*	*	ST 25033	128000	*	*
	EDO	ST 35573	166600	ST31590	162500	*	*	*	*
1600 A	MDO	ST 35564	147000	*	*	ST 25034	137000	*	*
	EDO	ST 35574	176100	ST31591	172000	*	*	*	*
2000 A	MDO	ST 35565	177300	*	*	ST 25035	167300	*	*
	EDO	ST 35575	202100	ST31592	198000	*	*	*	*
2500 A	MDO	ST 35566	203500	*	*	ST 25036	193500	*	*
	EDO	ST 35576	227100	ST31734	223000	*	*	*	*
3200 A	MDO (H0)	ST 35567	257000	*	*	SL 93479	247000	*	*
	EDO (H0)	ST 35577	273100	SL 93485	269000	*	*	*	*
4000 A	MDO (H0)	ST 35568	297500	*	*	SL 93480	287500	*	*
	EDO (H0)	ST 35578	327100	SL 93486	323000	*	*	*	*
5000 A	MDO / EDO	*	*	NA	NA	NA	NA	*	*
6300 A	MDO / EDO	*	*	NA	NA	NA	NA	*	*

* Available on "Made-to-Order" basis

3 & 4 POLE FIXED ACBs

WITH THERMAL-MAGNETIC RELEASE TYPE DN1					
Number of poles		3		4	
Description		Cat. No.	Price per unit (Rs.)	Cat. No.	Price per unit (Rs.)
Rating	Version				
400 A	MF (CN-CS)	SL 92988	32800	*	*
630 A	MF (CN-CS)	SL 92880	41700	*	*
800 A	MF (CN-CS)	SL 92678	46700	*	*
	MF(C-POWER)	SL 93001	50200	*	*
	EF (C-POWER)	*	*	*	*
1000 A	MF (CN-CS)	SL 92679	47800	*	*
	MF (C-POWER)	SL 93002	51500	*	*
	EF (C-POWER)	*	*	*	*
1250 A	MF (C-POWER)	SL 93003	69700	*	*
	EF (C-POWER)	*	*	*	*
1600 A	MF (C-POWER)	SL 93004	72000	*	*
	EF (C-POWER)	*	*	*	*
2000 A	MF (C-POWER)	SL 93005	82000	*	*
	EF (C-POWER)	*	*	*	*
2500 A	MF (C-POWER)	SL 93006	94000	*	*
	EF (C-POWER)	*	*	*	*
3200 A	MF (C-POWER)	*	*	*	*
	EF (C-POWER)	*	*	*	*
4000 A	MF (C-POWER)	*	*	*	*
	EF (C-POWER)	*	*	*	*

* Available on "Made-to-Order" basis

Please Note:

- 1) High Breaking Capacity ACBs (H Range) available on request
- 2) Draw-out type ACBs available on request with Horizontal or Vertical Terminal Orientations for ratings up to 4000A
- 3) Above ACBs also available for DC / Higher Operational Voltages.
- 4) Any other configuration than listed above or ACBs with SR21i & SR61C releases can be provided as per customer's requirement on "Made-to-Order" basis.

Please contact our nearest branch for more details.

AIR CIRCUIT BREAKERS - C-POWER

Accessories

Description	Cat. No.	Price per unit (Rs.)
AN1 Remote Annunciator Module - suitable for SR15G, SR18G, SR18 & SR21i	LF 90101	2600
6 way Secondary isolating contact block	SL 92701	1000
Microswitch on voltmetric release (2) each	SL 92703	1100
Microswitch for common indication of O/L & S/C (2) each	SL 92704	1100
Microswitch for separate indication of O/L & S/C (3) each	SL 92705	1900
Service position microswitch - Right (2)	SL 93142	750
Service position microswitch - Left (2)	SL 93143	750
Test or isolated position microswitch - Right (2)	SL 93144	750
Test or isolated position microswitch - Left (2)	SL 93145	750
Lockable Trip Push Button Type A, B, C, D	SL 93148	1500
Lockable Trip Push Button Kit L, M, N, LM, MN	SL 91936	7000
Locking of ACB in Isolated position	SL 93146	1500
Locking of ACB in Any position	SL 93147	1500
Racking interlock	SL 93149	2700
Door Interlock	SL 93150	1500

Notes:

- 1) The Numerals in brackets, against various accessories, indicate the secondary isolating contacts required for wiring purposes in Drawout Breakers.
- 2) For ordering shunt release or under voltage release, please mention Voltage in addition to Cat. No.
- 3) Shunt release requires one set of auxiliary contacts.
- 4) Maximum 24 Secondary Isolating Contacts (SICs) can be fitted on an ACB. In electrical ACBs 5 SICs are prewired for control circuit purpose.

Description	Qty./ Pole	Cat. No.	Price per pole (Rs.)
ShutterAssy.800/1000/1250/1600C	1	SL 91833	550
Shutter Assy. 2000C / 2500C	1	SL 92811	650
Shutter Assy. 3200H0 / 4000H0 #	1	SL 91833	550

2 poles in each phase

Description	Cat. No.	Price per unit (Rs.)
Shunt Release (2)		
Type EA : 24/48V, 110V, 220V dc	SL 92718	1400
Type EA1 : 240V ac, 415V ac	SL 92718	1400
Under Voltage Release		
Type MV (2) : 240V ac, 415V ac	SL 92720	2000
Earth Fault Release		
Type EF1 (10%, 20% Ir)	SL 91340	1450
Type EF2 (30%, 40%, 50% Ir)	SL 91341	1450

Protection Releases

Description	Cat. No.	Price per unit (Rs.)
Microprocessor based releases		
Type SR 61C	Available on request	
Type SR 18G		
Type SR 18		
Type SR 21i	SL 93960	25000
Solid state Release Type SR15G	SL 93194	12500
Thermal Magnetic Release Type DN1	SL 93152	6500

Spares

Auxiliary Contact Block (only where used as replacement spares)

Description	Qty./ ACB	Cat. No.	Price per unit (Rs.)
For CN-CS 800C to 2500C, 3200H0 & 4000H0			
2NO + 2NC	1	SL 92765	1100
6NO + 6NC	1	SL 92767	1800

Arc Chutes (each)

Description	Cat. No.	Price per pole (Rs.)
For 800/1000/1250/1600A breakers	SL 90855	1820
For 2000/2500A breakers	SL 90857	2190
For 3200H0/4000H0 breakers #	SL 90855	1820

#2 poles in each phase

Motor

Description	Cat. No.	Price per unit (Rs.)
For 800A to 6300A		
Available in Voltages	110V DC	SL 00346 9600
	220V DC	SL 00347 9600
	240V AC	SL 00315 9600

AIR CIRCUIT BREAKERS - C-POWER

Spares

CTs for SR18 / SR18G / SR21i releases

Description	Cat. No.	Price per unit (Rs.)
800 C		
For Fixed Type	SL 90569	1800
For Drawout Type	SL 90561	1800
1000 C		
For Fixed Type	SL 90570	1800
For Drawout Type	SL 90562	1800
1250 C		
For Fixed and Drawout Type	SL 90571	1950
1600 C		
For Fixed and Drawout Type	SL 90572	1950
2000 C		
For Fixed and Drawout Type	SL 90565	2200
2500 C		
For Fixed and Drawout Type	SL 90566	2200
3200 H0		
For Fixed and Drawout Type	SL 01740	2900
4000 H0		
For Fixed & Drawout Type	SL 01739	3300
5000 C		
For Drawout Type	SL 00990	4200
6300 C		
For Drawout Type	SL 00991	5000

CTs for DN1/SR15G/SR61C release

Description	Cat. No.	Price per unit (Rs.)
800 C		
With 400A and 500A taps		
For Fixed Type	SL 00933	1800
For Drawout Type	SL 90592	1800
800 C		
With 640A and 800A taps		
For Fixed Type	SL 00934	1800
For Drawout Type	SL 90593	1800
1000 C		
For Fixed Type	SL 00935	1800
For Drawout Type	SL 90608	1800
1250 C		
For Fixed and Drawout Type	SL 01825	1950
1600 C		
For Fixed and Drawout Type	SL 01826	1950
2000 C		
With 1000A and 1250A taps		
For Fixed Type	SL 00791	2200
For Drawout Type	SL 90598	2200
2000 C		
With 1600A and 2000A taps		
For Fixed Type	SL 00792	2200
For Drawout Type	SL 90599	2200
2500 C		
For Fixed and Drawout Type	SL 00793	2200
3200 H0		
For Fixed and Drawout Type	SL 01707	2900
4000 H0		
For Fixed & Drawout Type	SL 01706	3300

Arcing Contacts

Description	Cat. No.	Price per kit (Rs.)	Ordering Qty. for 3 pole ACB
Fixed arcing contacts			
For 800 to1600A	SL 93891	1400	1 kit
For 2000 & 2500A	SL 90631	180	12 kits
For 3200H0 & 4000H0	SL 93040	1900	2 kits
Moving arcing contacts			
For 800 to1600A	SL 93892	1400	1 kit
For 2000 & 2500A	SL 90629	180	12 kits
For 3200H0 & 4000H0	SL 93892	1400	3 kits

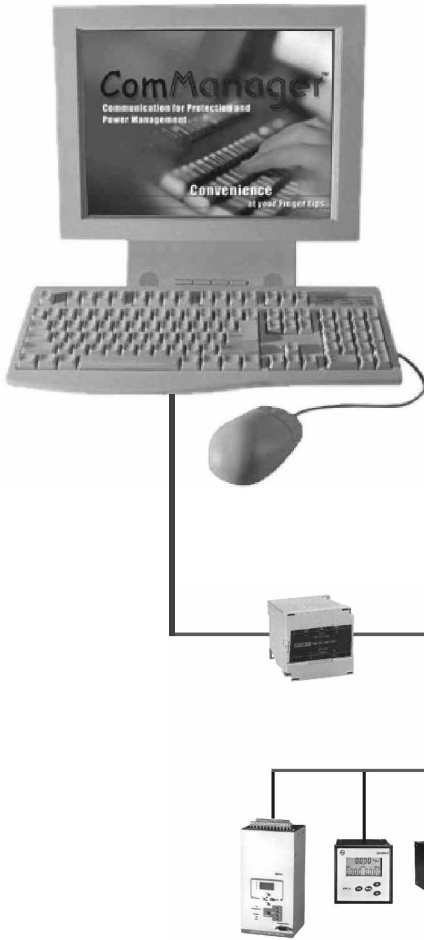
Please refer ACB spare parts manual for ordering details of Arcing Contacts of ACBs manufactured before January 1999.

ComManager

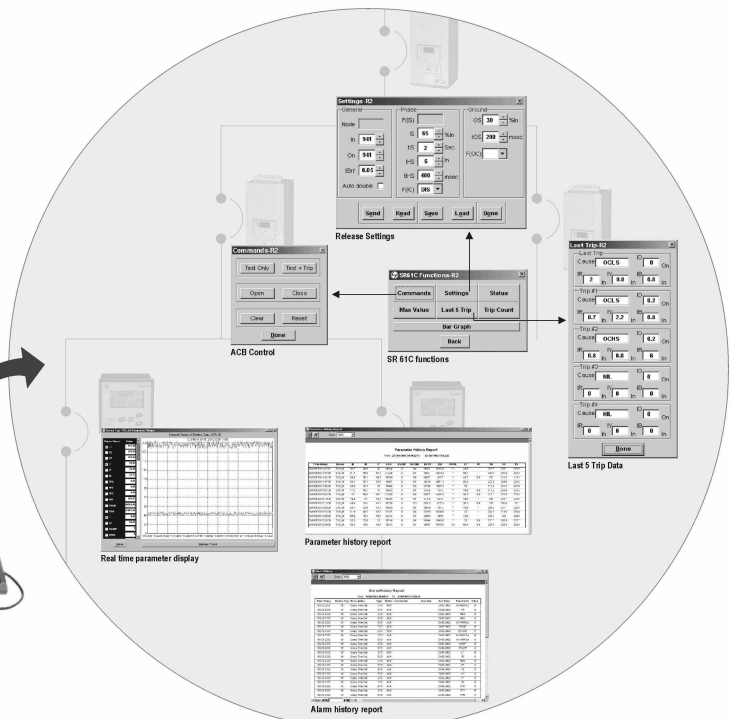
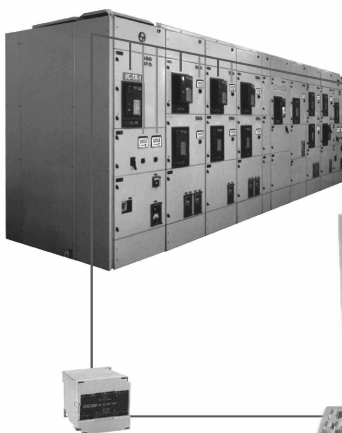
Software to integrate Breaker Control and Powerflow monitoring

ComManager facilitates integration of following devices on a RS485 network:

- ~ "SR61C", protection and control unit in C-POWER ACBs
- ~ "UNRS3", "UNRS2GC", "UNRS2.5GC", protection and control units in U-POWER ACBs
- ~ "RC20", protection and control unit in dsine MCCBs
- ~ Intelligent panel Meter "Quasar"
- ~ Maximum Demand Controller "ER300D"
- ~ Power Navigator, "ER300N"
- ~ Communication module, "UNCO"



Description	Cat. No.	Price per unit (Rs.)
ComManager Software	LH990010000	40000
SCM 16 (RS232 - RS 485 Converter for 16 devices)	LH990020016	15000
SCM 32 (RS232 - RS 485 Converter for 32 devices)	LH990020032	22500



ELECTRONIC METERING DEVICES

1 PHASE kWh Base Mounting Meter

MODEL EM101B CLASS 1

Description	Cat No.	Price / unit (Rs.)
1PH, kWh Meter with ELT 240V, 2.5-10A	WM101BC2D00	1250
1PH, kWh Meter with ELT 240V, 5-20A	WM101BC4D00	1250
1PH, kWh Meter with ELT 240V, 10-40A	WM101BC6D00	1500
1PH Meter Dir. Base mtg. 240V, 10-60A	WM101BC7D01	1900

3 PHASE kWh Flush Mount Meter - 96x96 SIZE

MODEL AURUX CLASS 1

3PH, 4W, kWh METER, 240V, 1A	WM301FC1C10	4250
3PH, 4W, kWh METER, 240V, 5A	WM301FC3C10	4000
3PH, 4W, kWh METER, 63.5V, 1A	WM301FA1C11	4250
3PH, 4W, kWh METER, 63.5V, 5A	WM301FA3C11	4250
3PH, 4W, kWh METER, 63.5V [(415/1.732) / (110/1.732)-RATIO], 1A	WM301FA1C10	4250
3PH, 4W, kWh METER, 63.5V [(415/1.732) / (110/1.732)-RATIO], 5A	WM301FA3C10	4250
3PH, 3W, kWh METER, 415V, 1A	WM201FD1C10	4250
3PH, 3W, kWh METER, 415V, 5A	WM201FD3C10	4250
3PH, 3W, kWh METER, 110V, 1A	WM201FB1C10	4250
3PH, 3W, kWh METER, 110V, 5A	WM201FB3C10	4250

3 PHASE 3 WIRE kWh Base Mount Meter

MODEL EM201B CLASS 1

3PH, 3W, kWh, CT Op. Base Mtg. 110V, 1-2A	WM201BB1C00	3900
3PH, 3W, kWh, CT Op. Base Mtg. 110V, 5-10A	WM201BB3C00	3900
3PH, 3W, kWh, CT Op. Base Mtg. 415V, 5-10A	WM201BD3C00	3900

3 PHASE 4 WIRE kWh Base Mount Meter

MODEL EM301B CLASS 1

3PH, 4W, kWh, CT Op, Base Mtg. 240V,1-2A	WM301BC1C00	3900
3PH, 4W, kWh, CT Op, Base Mtg. 240V, 5-10A	WM301BC3C00	3500
3PH, 4W, kWh, Dir. Base Mtg. 240V, 5-20A sleek	WM301BC4D20	3500
3PH, 4W, kWh, Dir. Base Mtg. 240V, 10-40A sleek	WM301BC6D20	3500
3PH, 4W, kWh, Dir. Base Mtg. 240V, 50-100A	WM301BC8D10	5000

INTELLENT PANEL METER

MODEL QUASAR CLASS 1 (Flush Mounting) 96 x 96mm

3PH 4W IPM 240V(L-N) 1A CL1 FM	WI300FC1300	8000
3PH 4W IPM 240V(L-N) 5A CL1 FM	WI300FC5300	8000
3PH 3W IPM 110V(L-L) 1A CL1 FM	WI301FC1300	8000
3PH 3W IPM 110V(L-L) 5A CL1 FM	WI301FC5300	8000

MAXIMUM DEMAND CONTROLLER

MODEL ER300D CLASS 1 (Flush Mounting)

3PH 3W MD CONTROLLER 110V(L-L)1A CL1 FM	WD200FB1300	27000
3PH 3W MD CONTROLLER 110V(L-L)5A CL1 FM	WD200FB5300	27000
3PH 4W MD CONTROLLER 240V(L-N)1A CL1 FM	WD300FC1300	27000
3PH 4W MD CONTROLLER 240V(L-N)5A CL1 FM	WD300FC5300	27000

POWER NAVIGATOR TRIVECTOR METER

MODEL ER300N CLASS 0.5 (Flush Mounting)

Description	Cat No.	Price / unit (Rs.)
3PH 3W TVM 110V(L-L) 1A CL0.5 FM	WR200FB1200	23500
3PH 3W TVM 110V(L-L) 5A CL0.5 FM	WR200FB5200	23500
3PH 4W TVM 110V(L-L) 1A CL0.5 FM	WR300FB1200	23500
3PH 4W TVM 110V(L-L) 5A CL0.5 FM	WR300FB5200	23500
3PH 4W TVM 240V(L-N) 1A CL0.5 FM	WR300FC1200	23500
3PH 4W TVM 240V(L-N) 5A CL0.5 FM	WR300FC5200	23500

POWER NAVIGATOR TRIVECTOR METER

MODEL ER300N CLASS 1 (Flush Mounting)

3PH 3W TVM 110V (L-L) 1A CL1 FM	WR200FB1300	22000
3PH 3W TVM 110V (L-L) 5A CL1 FM	WR200FB5300	22000
3PH 4W TVM 110V (L-L) 1A CL1 FM	WR300FB1300	22000
3PH 4W TVM 110V (L-L) 5A CL1 FM	WR300FB5300	22000
3PH 4W TVM 240V (L-N) 1A CL1 FM	WR300FC1300	22000
3PH 4W TVM 240V (L-N) 5A CL1 FM	WR300FC5300	22000

TRIVECTOR METER

MODEL ER300P CLASS 0.2 (Base Mounting)

3PH 3W TVM 110V(L-L) 1A CL0.2S BM	WR200BB1100	36500
3PH 3W TVM 110V(L-L) 5A CL0.2S BM	WR200BB5100	36500
3PH 4W TVM 110V(L-L) 1A CL0.2S BM	WR300BB1100	36500
3PH 4W TVM 110V(L-L) 5A CL0.2S BM	WR300BB5100	36500
3PH 4W TVM 240V(L-N) 1A CL0.2S BM	WR300BC1100	36500
3PH 4W TVM 240V(L-N) 5A CL0.2S BM	WR300BC5100	36500
3P 4W 240V AC 5A CL0.2 WITH RS 485 PORT	WR300BC51RS	38500
3PH 4W TVM 110V(L-L) 1A CL0.2S BM RS485	WR300BB11RS	38500
3PH 4W TVM 110V(L-L) 5A CL0.2S BM RS485	WR300BB51RS	38500

TRIVECTOR METER

MODEL ER300P CLASS 0.5 (Base Mounting)

3PH 3W TVM 110V(L-L) 1A CL0.5S BM	WR200BB1200	16500
3PH 3W TVM 110V(L-L) 5A CL0.5S BM	WR200BB5200	16500
3PH 4W TVM 110V(L-L) 1A CL0.5S BM	WR300BB1200	16500
3PH 4W TVM 110V(L-L) 5A CL0.5S BM	WR300BB5200	16500
3PH 4W TVM 240V(L-N) 1A CL0.5S BM	WR300BC1200	16500
3PH 4W TVM 240V(L-N) 5A CL0.5S BM	WR300BC5200	16500
3PH 3W TVM 110V(L-L) 1A CL0.5S BM RS485	WR200BB12RS	19500
3PH 3W TVM 110V(L-L) 5A CL0.5S BM RS485	WR200BB52RS	19500
3PH 4W TVM 110V(L-L) 1A CL0.5S BM RS485	WR300BB12RS	19500
3PH 4W TVM 110V(L-L) 5A CL0.5S BM RS485	WR300BB52RS	19500
3PH 4W TVM 240V(L-N) 1A CL0.5S BM RS485	WR300BC12RS	19500
3PH 4W TVM 240V(L-N) 5A CL0.5S BM RS485	WR300BC52RS	19500

TRIVECTOR METER

MODEL ER300P CLASS 1 (Base Mounting)

3PH 3W TVM 110V (L-L) 1A CL1 BM	WR200BB1300	12750
3PH 3W TVM 110V (L-L) 5A CL1 BM	WR200BB5300	12750
3PH 4W TVM 110V (L-L) 1A CL1 BM	WR300BB1300	12750
3PH 4W TVM 110V (L-L) 5A CL1 BM	WR300BB5300	12750
3PH 4W TVM 240V (L-N) 1A CL1 BM	WR300BC1300	12750
3PH 4W TVM 240V (L-N) 5A CL1 BM	WR300BC5300	12750

DIGITAL PROTECTIVE RELAYS

3 PHASE OVER CURRENT + EARTH FAULT RELAY

Model	Aux. Supply (V)	Output Contacts	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
MC31A	20 - 110 V AC/DC	4 NO	MC31AAXX000	14000	1
MC31A	20 - 110 V AC/DC	2 NO + 2 NC	MC31AAXX001	14000	1
MC31A	88 - 264 V AC/DC	4 NO	MC31ABXX000	14000	1
MC31A	88 - 264 V AC/DC	2 NO + 2 NC	MC31ABXX001	14000	1

3 PHASE OVER CURRENT + EARTH FAULT RELAY WITH HIGH SET

Model	Aux. Supply (V)	Output Contacts	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
MC61A	20 - 110 V AC/DC	4 NO	MC61AAXX000	19000	1
MC61A	20 - 110 V AC/DC	2 NO + 2 NC	MC61AAXX001	19000	1
MC61A	88 - 264 V AC/DC	4 NO	MC61ABXX000	19000	1
MC61A	88 - 264 V AC/DC	2 NO + 2 NC	MC61ABXX001	19000	1

3 PHASE OVER CURRENT + EARTH FAULT RELAY WITH HIGH SET & RS- 485

Model	Aux. Supply (V)	C.T. Secondary (A)		Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
		In	On			
MC61C	20 - 110 V AC/DC	1	1	MC61CA11000	31000	1
MC61C	20 - 110 V AC/DC	1	5	MC61CA15000	31000	1
MC61C	20 - 110 V AC/DC	5	1	MC61CA51000	31000	1
MC61C	20 - 110 V AC/DC	5	5	MC61CA55000	31000	1
MC61C	88 - 264 V AC/DC	1	1	MC61CB11000	31000	1
MC61C	88 - 264 V AC/DC	1	5	MC61CB15000	31000	1
MC61C	88 - 264 V AC/DC	5	1	MC61CB51000	31000	1
MC61C	88 - 264 V AC/DC	5	5	MC61CB55000	31000	1

MINI MOTOR PROTECTION RELAY

Model	Thermal O/L Range (A)	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
MPR 300	1 - 2.75	MPR300BE010	4500	1
MPR 300	2 - 5.5	MPR301BE020	4500	1
MPR 300	4 - 11	MPR302BE040	4500	1
MPR 300	8 - 22	MPR303BE080	4500	1
MPR 300	16 - 44	MPR304BE160	4500	1
MPR 300	32 - 88	MPR305BE320	4500	1

NEUTRAL DISPLACEMENT RELAY

Model	Aux. Supply (V)	Cat. No.	Price per unit (Rs.)	Std. pkg. (nos.)
MND11	20 - 110 V	MND11A00000	8200	1
MND11	88 - 264 V	MND11B00000	8200	1

CONTROL & SUPERVISORY RELAY

Model	Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (nos.)
PTF03	PT FUSE FAILURE RELAY	MTF03X00000	6500	1
PFC8	EIGHT STAGE APFC RELAY	MPF08X00000	10500	1
PFC14	FOURTEEN STAGE APFC RELAY	MPF14X00000	12500	1
PFR8	INTELLIGENT POWER FACTOR CONTROLLER	MPFR8X00000	13000	1
MVP01	VOLTAGE & PF MONITORING RELAY	MVP01X00000	12000	1
TCS01	TRIP CKT. SUPERVISION RELAY 20 - 110 V AC/DC	MCS01A00000	7500	1
TCS01	TRIP CKT. SUPERVISION RELAY 88 - 264 V AC/DC	MCS01B00000	7500	1

SINGLE POLE OVER CURRENT OR EARTH FAULT RELAY

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
MC12A	20 - 110 V AC/DC	1 A	MC12AA10X00	7500	1
MC12A	20 - 110 V AC/DC	5 A	MC12AA50X00	7500	1
MC12A	88 - 264 V AC/DC	1 A	MC12AB10X00	7500	1
MC12A	88 - 264 V AC/DC	5 A	MC12AB50X00	7500	1

SINGLE POLE SENSITIVE EARTH FAULT RELAY

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
ME12A	20 - 110 V AC/DC	1 A	ME12AA10000	7500	1
ME12A	20 - 110 V AC/DC	5 A	ME12AA50000	7500	1
ME12A	88 - 264 V AC/DC	1 A	ME12AB10000	7500	1
ME12A	88 - 264 V AC/DC	5A	ME12AB50000	7500	1

SINGLE PHASE UNDER VOLTAGE OR OVER VOLTAGE RELAY

Model	Aux. Supply (V)	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
MV12A	20 - 110 V AC/DC	MV12AA00X00	7500	1
MV12A	88 - 264 V AC/DC	MV12AB00X00	7500	1

INSTANTANEOUS EARTH FAULT RELAY

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

Model	C.T. Secondary (A)	Range	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
SC14S	1	10 - 40 %	MC14SX10100	6700	1
SC14S	1	20 - 80 %	MC14SX10200	6700	1
SC14S	5	10 - 40 %	MC14SX50100	6700	1
SC14S	5	20 - 80 %	MC14SX50200	6700	1

REVERSE POWER RELAY

Model	Aux. Supply (V)	C.T. Secondary (A)	Cat. no.	Price per unit (Rs.)	Std. pkg. (Nos.)
MRP11	20 - 110 V AC/DC	1 A	MRP11AA10X00	17000	1
MRP11	20 - 110 V AC/DC	5 A	MRP11AA50X00	17000	1
MRP11	88 - 264 V AC/DC	1 A	MRP11AB10X00	17000	1
MRP11	88 - 264 V AC/DC	5 A	MRP11AB50X00	17000	1

DIGITAL PROTECTIVE RELAYS

OTHER RELAYS

Model	Description	Device Code	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
DM30	3PH O/C & E/F RELAY 20 - 110 V (DIRECTIONAL)	67 RYBN	EDM30AXX000	230000	1
DM30	3PH O/C & E/F RELAY 88 - 264 V (DIRECTIONAL)	67 RYBN	EDM30BXX000	230000	1
UFD34	FREQUENCY RELAY 20 - 110 V	81, 27, 59	EFD34A00000	95000	1
UFD34	FREQUENCY RELAY 88 - 264 V	81, 27, 59	EFD34B00000	95000	1
MM30	MOTOR PROTECTION RELAY 20 - 110 V	49, 51LR, 46, 37, 50/51, 64, St No, Itr	EMM30AXX000	52500	1
MM30	MOTOR PROTECTION RELAY 88 - 264 V	49, 51LR, 46, 37, 50/51, 64, St No, Itr	EMM30BXX000	52500	1
MM30W	MOTOR PROTECTION RELAY 20 - 110 V WITH POWER MONITORING	12/14, 27/59, 37, 46, 47, 48, 49, 50/51, 51LR, 55, 64, 66, 68, 81	EMM30WAX002	66000	1
MM30W	MOTOR PROTECTION RELAY 88 - 264 V WITH POWER MONITORING	12/14, 27/59, 37, 46, 47, 48, 49, 50/51, 51LR, 55, 64, 66, 68, 81	EMM30WBX002	66000	1
MG30	GENERATOR PROTECTION RELAY 20 - 110 V	50/51, 64S, 46, 32, 40	EM30GAXX000	175000	1
MG30	GENERATOR PROTECTION RELAY 88 - 264 V	50/51, 64S, 46, 32, 40	EM30GBXX000	175000	1
MD32G	DIFFERENTIAL RELAY FOR GENERATOR 20 - 110 V	87, 50/51, 87N	ED32GAXX000	220000	1
MD32G	DIFFERENTIAL RELAY FOR GENERATOR 88 - 264 V	87, 50/51, 87N	ED32GBXX000	220000	1
MD32T	DIFFERENTIAL RELAY FOR TRANSFORMER 20 - 110 V	87, 87N	ED32TAXX000	176000	1
MD32T	DIFFERENTIAL RELAY FOR TRANSFORMER 88 - 264 V	87, 87N	ED32TBXX000	176000	1
IM30T	3PH O/C & E/F RELAY FOR TRANSFORMER 20 - 110 V	50/51, 46, 49	EM30TAXX000	95000	1
IM30T	3PH O/C & E/F RELAY FOR TRANSFORMER 88 - 264 V	50/51, 46, 49	EM30TBXX000	95000	1
SCM21	SYNCHROCHECK RELAY 20 - 110 V	25, 59, 27	ESC21A00000	92500	1
SCM21	SYNCHROCHECK RELAY 88 - 264 V	25, 59, 27	ESC21B00000	92500	1
SPM21	AUTO SYNCHRONISING RELAY 20 - 110 V	25	EPM21A00000	148000	1
SPM21	AUTO SYNCHRONISING RELAY 88 - 264 V	25	EPM21B00000	148000	1
UM30	U/V RELAY WITH NEUTRAL MONITORING 20 - 110 V	59, 81, 27	EUM30A00000	92000	1
UM30	U/V RELAY WITH NEUTRAL MONITORING 88 - 264 V	59, 81, 27	EUM30B00000	92000	1
MW33	POWER MANAGEMENT RELAY 20 - 110 V	81, 27, 59, 32	EMW33AXX000	135000	1
MW33	POWER MANAGEMENT RELAY 88 - 264 V	81, 27, 59, 32	EMW33BXX000	135000	1
MU30	MEASURING RELAY 20 - 110 V	-	EMU30AXX000	105000	1
MU30	MEASURING RELAY 88 - 264 V	-	EMU30BXX000	105000	1
RRS	LOAD SHARING RELAY 20 - 110 V	95	ESRRSAXX000	77000	1
RRS	LOAD SHARING RELAY 88 - 264 V	95	ESRRSBXX000	77000	1
CPSC	RS 232 - RS 485 CONVERTER	-	99CPSC00	25000	1
MSCOM	COMMUNICATION SOFTWARE	-	99MSCOMOO	140000	1

MOTOR PROTECTION CIRCUIT BREAKER

Type MG1

Rating (A)	Recommended Motor Ratings at 415 V		Thermal Release (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
	kW	hp				
0.16	-	-	0.1 - 0.16	ST244100OBO	1620	1
0.24	0.06	0.08	0.16 - 0.24	ST244100ODO	1620	1
0.4	0.12	0.16	0.24 - 0.4	ST244100OFO	1620	1
0.6	0.18	0.24	0.4 - 0.6	ST244110OHO	1900	1
1	0.25	0.33	0.6 - 1.0	ST244120OKO	1900	1
1.6	0.55	0.75	1.0 - 1.6	ST244120OMO	1900	1
2.4	0.92	1.25	1.6 - 2.4	ST244120OPO	1900	1
3.2	1.10	1.50	2.0 - 3.2	ST244120OQO	1950	1
4	1.30	1.75	2.4 - 4.0	ST244130ORO	1950	1
5	1.50	2.00	3.2 - 5.0	ST244130OSO	1950	1
6	2.20	3.00	4.0 - 6.0	ST244130OTO	1950	1
8	3.70	5.00	5.0 - 8.0	ST244140OUO	1950	1
10	4.50	6.00	6.0 - 10.0	ST244150OVO	2050	1
13	5.50	7.50	8.0 - 13.0	ST244150OAO	2050	1
16	7.50	10.00	10.0 - 16.0	ST244150OBO	2250	1
20	9.30	12.50	14.0 - 20.0	ST244160OCO	2250	1
25	13.00	17.50	18.0 - 25.0	ST244170ODO	2700	1

Accessories for MG1 & MG2

Description	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
Auxiliary 1NO MG2	ST245010000	395	1
Auxiliary 1NO+1NC	ST245020000	400	1
SCSB 1NO+1NC	ST245030000	425	1
UV rel. 230V	ST24504K000	850	1
UV rel. 415V	ST24504P000	850	1
Shunt Release 230V	ST24506K000	850	1
Shunt Release 415V	ST24506P000	850	1
Shunt Release 24V	ST24506G000	850	1
Shunt Release 110-240V	ST24506Z000	850	1
Current Limiter	ST245080000	2660	1
Rotary operating Mechanism with pad lock and door interlock**			
For MG1	ST277630000	400	1
For MG2	ST277640000	450	1

** Handle coupling suitable for FN32 or FN63 has to be separately ordered (Cat. No. SK 912570000)

Type MG2

Rating (A)	Recommended Motor Ratings at 415 V		Thermal Release (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
	kW	hp				
1.6	0.55	0.75	1 - 1.6	ST244500OMO	3750	1
2.4	0.92	1.25	1.6 - 2.4	ST244500OPO	3750	1
4	1.5	2	2.4 - 4	ST244500ORO	3750	1
6	2.2	3	4 - 6	ST244500OTO	3750	1
10	4.5	6	6 - 10	ST244500OVO	4200	1
16	7.5	10	10 - 16	ST244500OBO	4200	1
25	13	17.5	16 - 25	ST244500ODO	5500	1
32	17	22	20 - 32	ST244500OEO	5500	1
40	18	25	28 - 40	ST244500OFO	5500	1
52	26	35	36 - 52	ST244500OGO	5650	1
63	-	-	45 - 63	ST244500OHO	6100	1

Type MG - F1 (Fuse Monitoring)

Rating (A)	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
0.2	ST244200000	1900	1

MOTOR PROTECTION CIRCUIT BREAKER

Type MNX-G1

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (kW)	Thermal Release range (A)	Ordering Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
0.16	-	0.10 - 0.16	ST344130OBO	2200	1
0.25	0.06	0.16 - 0.25	ST344130ODO	2200	1
0.40	0.09	0.25 - 0.40	ST344130OFO	2200	1
0.63	0.12	0.40 - 0.63	ST344140OHO	2200	1
1.00	0.25	0.63 - 1.00	ST344150OKO	2200	1
1.60	0.55	1.00 - 1.60	ST344160OMO	2510	1
2.50	0.75	1.60 - 2.50	ST344160OPO	2510	1
4.00	1.50	2.50 - 4.00	ST344160ORO	2510	1
6.30	2.20	4.00 - 6.30	ST344160OTO	2510	1
10.00	4.00	6.30 - 10.00	ST344170OVO	2510	1
16.00	7.50	10.00 - 16.00	ST344180OBO	2700	1
20.00	9.00	16.00 - 20.00	ST344190OCO	3100	1
25.00	12.50	20.00-25.00	ST344200ODO	3100	1

Type MNX-G3

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (kW)	Thermal Release range (A)	Ordering Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
16	7.50	10 - 16	ST344210OBO	3800	1
25	12.50	16 - 25	ST344210ODO	3800	1
32	15.00	24 - 32	ST344220OEO	7100	1
40	20.00	32 - 40	ST344220OFO	7100	1
52	25.00	40 - 50	ST344220OGO	7100	1
58	30.00	50 - 58	ST344230OSO	7700	1
63	34.00	55 - 63	ST344230OHO	7700	1

Type MNX-G2

(with short circuit protection only)

Rating (A)	Recommended Motor Rating at 415V, 50 Hz (kW)	Thermal Release (A)	Ordering Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
6	2.20	88	ST344240OTO	2100	1
10	4.00	140	ST344250OVO	2500	1
16	7.50	224	ST344250OBO	2500	1

Accessories for MNX-G1, MNX-G2 & MNX-G3

Description	Cat. No.	Price per unit (Rs.)	Std. Pkg. (Nos.)
Auxiliary contacts 1NO+1NC (Front mounting type)	ST344340000	320	1
Auxiliary contacts 1NO+1NC (side mounting type)	ST344360000	380	1
Trip indicating auxiliary contacts 2 NO (side mounting type)	ST344420000	870	1
Shunt voltage release 230V AC	ST344440NOO	970	1
Under voltage release 230V AC	ST34445KOOO	970	1
Current Limiter (to be used with MNXG1 10 to 25 A rating)	ST344460000	1600	1
Door coupling handle including shaft	ST344390000	1150	1

ELECTRONIC CONTROL STATION

Type MP1

Model	Auxiliary	Cat. No.	Price per unit (Rs.)	Std. pkg. (Nos.)
MP1	AC 110/ 230 V	ST290010000	8600	1
MP1	DC 24 V	ST299520000	8600	1