

3 Pole Power Contactors [8536]

3 Pole Power Contactors - Type MNX

Features

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

MNX 22

MNX 40

MNX 80

MNX 140

MNX 250

MNX 650

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9	1 NO	CS94106	1050	20
				1 NC	CS94107	1050	20
	12	30	MNX 12	1 NO	CS94108	1210	20
				1 NC	CS94109	1210	20
	18	30	MNX 18	1 NO	CS94100	1440	20
				1 NC	CS94101	1440	20
22	32	MNX 22	1 NO	CS94980	1640	20	
			1 NC	CS94981	1640	20	
Fr 2	25	45	MNX 25	#	CS94110	1670	20
	32	55	MNX 32	#	CS94111	3550	20
	40	55	MNX 40	#	CS94190	5510	20
Fr 3	50	85	MNX 50	#	CS97075	7640	1
	70	100	MNX 70	#	CS97076	10660	1
	80	100	MNX 80	#	CS97077	13310	1
Fr 4	95	160	MNX 95	2 NO + 2 NC	CS94136	20150	1
	110	160	MNX 110	2 NO + 2 NC	CS94137	24480	1
	140	160	MNX 140	2 NO + 2 NC	CS94138	31230	1
Fr 5	185	250	MNX 185	2 NO + 2 NC	CS94139	37130	1
	225	300	MNX 225	2 NO + 2 NC	CS94140	40870	1
	250	300	MNX 250	2 NO + 2 NC	CS94141	46070	1
Fr 6	300	400	MNX 300	2 NO + 2 NC	CS90280	55640	1
	400	425	MNX 400	2 NO + 2 NC	CS94144	79610	1
	550	650	MNX 550	2 NO + 2 NC	CS94145	116920	1
	650	800	MNX 650	2 NO + 2 NC	CS96327	178290	1

Notes:

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

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

3 Pole Power Contactors - Type MO

Features

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

MO 18

MO 45

MO 70

MO 110

MO 140

MO 250

Size	AC 4 Rating (A)	AC 3e Rating (A)	AC 1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 0	9	9	30	MO 9	1 NO+1 NC	CS94833	1800	10
	12	12	32	MO 12	1 NO+1 NC	CS94834	2010	10
	18	18	32	MO 18	1 NO+1 NC	CS94835	2280	10
Fr 1	25	25	45	MO 25	#	CS94567	2530	10
	32	32	50	MO 32	#	CS94568	5310	10
	40	40	50	MO 40	#	CS94569	7990	10
	45	45	50	MO 45 ▲	#	CS94570	10250	10
	50	50	100	MO 50	#	CS94572	11030	1
Fr 2	60	60	100	MO 60	#	CS94573	12200	1
	70	70	100	MO 70	#	CS94574	14950	1
	80	80	125	MO 80	#	CS94576	18940	1
Fr 3	95	95	125	MO 95	#	CS94577	21510	1
	110	110	140	MO 110	#	CS94578	25850	1
	140	140	250	MO 140	2 NO+2 NC	CS95000	35600	1
Fr 4	185	185	275	MO 185	2 NO+2 NC	CS95001	41570	1
	225	225	275	MO 225	2 NO+2 NC	CS95002	46330	1
	140	140	250	MO 140	2 NO+2 NC	CS95042	48510	1
Fr 4+	185	185	275	MO 185	2 NO+2 NC	CS95047	60180	1
	225	225	275	MO 225	2 NO+2 NC	CS95052	64130	1
	250	250	400	MO 250	2 NO+2 NC	CS94441	52220	1
Fr 5	300	300	500	MO 300	2 NO+2 NC	CS94440	62920	1
	250	250	400	MO 250	2 NO+2 NC	CS94456	70300	1
Fr 5+	300	300	500	MO 300	2 NO+2 NC	CS94464	81390	1

AC-15

AC-30A

AC-60B

AC-4

AC-6A

AC-15B

AC-6B

AC-1

2 Pole Power Contactors [8536]

2 Pole Power Contactors - Type MNX

Features

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

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9-2P	1 NO	CS90232	895	10
	12	30	MNX 12-2P	1 NO	CS90234	1030	10
	18	30	MNX 18-2P	1 NO	CS90236	1220	10
	22	32	MNX 22-2P	1 NO	CS90238	1390	10
Fr 2	25	45	MNX 25-2P	#	CS90240	1420	10
	32	55	MNX 32-2P	#	CS90241	3020	10
	40	55	MNX 40-2P	#	CS90242	4680	10
Fr 3	50	85	MNX 50-2P	#	CS94061	6490	1
	70	100	MNX 70-2P	#	CS94062	9060	1
	80	100	MNX 80-2P	#	CS94063	11300	1
Fr 4	95	160	MNX 95-2P	#	CS94064	17100	1
	110	160	MNX 110-2P	#	CS94065	20800	1
	140	160	MNX 140-2P	#	CS94066	26500	1
Fr 5	185	250	MNX 185-2P	2 NO + 2 NC	CS94978	31600	1
	225	300	MNX 225-2P	2 NO + 2 NC	CS94979	34700	1
	250	300	MNX 250-2P	2 NO + 2 NC	CS90301	39200	1
Fr 6	300	400	MNX 300-2P	2 NO + 2 NC	CS90346	47300	1
	400	425	MNX 400-2P	2 NO + 2 NC	CS94069	67700	1
	550	650	MNX 550-2P	2 NO + 2 NC	CS90243	99400	1
	650	800	MNX 650-2P	2 NO + 2 NC	CS90578	151500	1

3 Pole Power Contactors [8536]

3 Pole Power Contactors - Type MX Mini

Features

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

MX 06

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)						
6A	20A	MX 06	1 NO	CS94012	1260	10
6A	20A	MX 06	1 NC	CS94013	1260	10
9A	20A	MX 09	1 NO	CS94014	1300	10
9A	20A	MX 09	1 NC	CS94015	1300	10
12A	20A	MX 12	1 NO	CS94016	1430	10
12A	20A	MX 12	1 NC	CS94017	1430	10
For DC control (Std. Coil Voltage - 24, 110, 220V)						
6A	20A	MX 06	1 NO	CS94021	1960	10
6A	20A	MX 06	1 NC	CS94022	1960	10
9A	20A	MX 09	1 NO	CS94023	2080	10
9A	20A	MX 09	1 NC	CS94024	2080	10
12A	20A	MX 12	1 NO	CS94025	2330	10
12A	20A	MX 12	1 NC	CS94026	2330	10

3 Pole Power Contactors [8536]

3 Pole Power Contactors - Type MDX

Features

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

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1 (DC Control Coil)	9	25	MDX 9	1 NO	CS96564	2170	1
	12	28	MDX 12	1 NO	CS96565	2550	1
	18	32	MDX 18	1 NO	CS96566	3070	1
	25	32	MDX 25	1 NO	CS96567	4040	1
Fr 2 (DC Control Coil)	32	56	MDX 32	#	CS96552	7800	1
	38	56	MDX 38	#	CS96553	10970	1
Fr 3 (Electronic Coil-AC/DC)	50	90	MDX 50	#	CS91584	15930	1
	65	110	MDX 65	#	CS91585	18040	1
	80	125	MDX 80	#	CS91586	22370	1
	95	125	MDX 95	#	CS91857	26800	1
	115	125	MDX 115	#	CS91858	29860	1

Notes:

- 1) # Add-on blocks can be ordered separately.
- 2) For ordering MDX/MNX add-on aux contact blocks, please refer page No.8
- 3) For ordering MNX surge suppressor and MIL kit, please refer page No.9
- 4) For ordering Suffix, please refer page No.10
- 5) Standard coil voltage: MDX - 24V, 48V, 110V and 220V DC
- 6) Standard coil voltage: MNX 2P - 240V, 50Hz
- 7) For DC power ratings refer catalogue
- 8) For MDX side add-on and top add-on can not be mounted together

3 Pole Power Contactors - Type ML

Features

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

ML 1.5

ML 3

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	25	25	ML 1.5	2 NO + 2 NC	SS91851	4940	1
Fr 2	32	40	ML 2	2 NO + 2 NC	SS90701	9170	1
	40	45	ML 3	2 NO + 2 NC	SS90721	13530	1
Fr 3	70	100	ML 4	2 NO + 2 NC	SS90910	22110	1
	110	125	ML 6	2 NO + 2 NC	SS90921	34980	1
Fr 4	300	400	ML 12	2 NO + 2 NC	SS91010	79200	1

Notes:

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

4 Pole Power Contactors [8536]

4 Pole Power Contactors - Type MCX

Features

- › Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- › Range from 18A - 900A
- › Wide operating band up to 130A AC-1

Size	MCX 22		MCX 34		MCX 47	
	AC-1 Rating (A)	Type	Aux Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	18	MCX 01	#	CS97009	1270	10
	25	MCX 02	#	CS97010	1320	10
	32	MCX 03	#	CS97011	1430	10
	40	MCX 04	#	CS97012	2010	10
Fr 2	55	MCX 11	#	CS97013	2660	1
	63	MCX 12	#	CS97014	5320	1
	80	MCX 13	#	CS97015	8220	1
Fr 3	105	MCX 22	#	CS97017	11070	1
	130	MCX 23	#	CS97018	13120	1
Fr 4	160	MCX 32	2 NO + 2 NC	CS97020	21630	1
	200	MCX 33	2 NO + 2 NC	CS97021	26440	1
	255	MCX 34	2 NO + 2 NC	CS97022	32490	1
Fr 5	325	MCX 41	2 NO + 2 NC	CS97023	52780	1
	360	MCX 42	2 NO + 2 NC	CS97024	57680	1
	400	MCX 43	2 NO + 2 NC	CS97025	66950	1
	560	MCX 44	2 NO + 2 NC	CS97026	84770	1
	600	MCX 45	2 NO + 2 NC	CS97027	100320	1
	700	MCX 46	2 NO + 2 NC	CS97028	112580	1
	900	MCX 47	2 NO + 2 NC	CS94291	158400	1

Control Relays (Auxiliary Contactors) [8536]

Type MX0 AC

Features

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

MX0 22E

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94018	1500	10
	MX0 31E (3 NO + 1 NC)	CS94019	1500	10
	MX0 22E (2 NO + 2 NC)	CS94020	1500	10
	MX0 13E (1 NO + 3 NC)	CS94041	1500	10
	MX0 04E (4 NC)	CS94042	1500	10

Type MX0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94027	1970	10
	MX0 31E (3 NO + 1 NC)	CS94028	1970	10
	MX0 22E (2 NO + 2 NC)	CS94029	1970	10
	MX0 13E (1 NO + 3 NC)	CS94043	1970	10
	MX0 04E (4 NC)	CS94044	1970	10

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

AST System Components [9032]

Automatic Transfer Controllers (ATC)

AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 Controller	ATC20000000	33200	1
AuXC-2100 Controller** with Optional RS485	ATC21000000	66200	1
RS485 Module for AuXC-2100 Controller**	ETACONRS485	13200	1

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

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

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



Notes for MCX:

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

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

Type MO0 AC

Features

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

MO0 AC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MO0 40E (4NO)	CS91623	955	10
	MO0 31E (3NO + 1NC)	CS91624	955	10
	MO0 22E (2NO + 2NC)	CS91625	955	10

Note: 6NC & above combination is not recommended for MO0 AC

For ordering add-on contact blocks of MX0, MO0, please refer page no.8

Type MO0 DC

Features

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

MO0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 48, 110, 220				
AC-15 4A at 415V	MO0 40E (4NO)	CS90045	2130	10
	MO0 31E (3NO + 1NC)	CS90046	2130	10
	MO0 22E (2NO + 2NC)	CS90047	2130	10

Note: 5NC & above combination is not recommended for MO0 DC

For ordering add-on contact blocks of MX0, MO0, please refer page no.8

Capacitor Duty Contactors [8536]

Capacitor Duty Contactors - Type MO C

Size	MO C50		MOC100		M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	kVAr Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.		
Fr 1	3	MO C3	1NO	CS96146	2240	1
	5	MO C5	1NO	CS96127	2340	1
	8.5	MO C8.5	1NO	CS96320	2660	1
	10	MO C10	1NO	CS96156	2840	1
	12.5	MO C12.5	1NO	CS96321	3030	1
	15	MO C15	1NO	CS90019	3940	1
	20	MO C20	1NO	CS90021	4580	1
	25	MO C25▲	1NO	CS96322	5180	1
Fr 2	30	MO C30 [§]	1NO	CS96148	7990	1
	40	MO C40	1NO	CS96147	13420	1
	50	MO C50	1NO	CS96324	14340	1
Fr 3	60	MO C60 [§]	1NO	CS96149	16190	1
	75	MO C75	1NO	CS96150	19050	1
	85	MO C85	1NO	CS96157	19200	1
	100	MO C100 [§]	1NO	CS96158	19800	1

Features

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

**For Power Quality Solutions,
please refer page No. 84-92**

Note:

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

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

Definite Purpose Contactors [8536]

Single Pole Contactors - Type MR

Features

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

AC3 Rating (A)	MR 11W (Wide band coil)		MR 13		MR 11NW SPN (Wide band coil)	
	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)		
25A	MR 11W	CS94176	1320	10		
25A	MR 11NW	CS94178	1410	10		
40A	MR 13	CS94992	1440	40		

Note:

- 1) Ordering Suffix B000 - 240V, 50Hz
- 2) For ordering add-on aux. contact block, please refer page No.9

Two Pole Contactors - Type MU-2P

Features

- › Wide band potted coil
- › Neutral isolation

AC3 Rating (A)	MU 16-2P		M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	Type	Cat. No.		
16A	MU16-2P	CS90117	1050	10
25A	MU25-2P	CS90118	1280	10
40A	MU40-2P	CS90119	1630	10

Note:

- 1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
- 2) Ordering suffix for wide band coil of MU-2P is N000
- 3) For ordering add-on aux. contact block, please refer page No.8

Accessories - Add-on Auxiliary Contact Blocks [8538]

	MNX 9-80	MNX 95-650	MO 9-110	MO 140-300	ML	MX	MDX 9-110	MCX 01-23	MCX 32-47	MXD	MOO	MOC	MR	MU-2P
Front add-on possible	Yes	No	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Side add-on possible	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No	No

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

Front Mounting Add-on aux. Contact Block

Front Mounting	MNX / MCX Front Add-on aux. contact Block	MO / MOO Front Add-on aux. contact Block	MDX Front Add-on aux. contact Block	MX Front Add-on aux. contact Block	MU-2P Front Add-on aux. contact Block					
	MNX 9-80 / MCX 01-23	M.R.P. (₹) Per Unit	MO 9-110 / MOO	M.R.P. (₹) Per Unit	MDX# 9-110	M.R.P. (₹) Per Unit	MX 0/6/9/12	M.R.P. (₹) Per Unit	MU-2P	M.R.P. (₹) Per Unit
4 NO	CS94112 [^]	655	CS94594 [^]	655	-	-	Cs94033 [^]	620	-	-
3 NO + 1 NC	CS94113 [^]	655	CS94595 [^]	655	-	-	CS94034 [^]	620	-	-
2 NO + 2 NC	CS94114 [^]	655	CS94596 [^]	655	CS96569 [~]	860	CS94035 [^]	620	-	-
1 NO + 3 NC	CS94115 [^]	655	CS94597 [^]	655	CS90906 [~]	860	CS94036 [^]	620	-	-
4 NC	CS94116 [^]	655	CS94598 [^]	655	-	-	CS94037 [^]	620	-	-
2 NO	CS94117 [^]	435	CS94591 ^{^^}	435	-	-	CS94030 [^]	400	CS90692 [^]	435
1 NO + 1 NC	CS94118 [^]	435	CS94592 ^{^^}	435	CS96568 [~]	505	CS94031 [^]	400	CS90693 [^]	435
2 NC	CS94119 [^]	435	CS94593 ^{^^}	435	-	-	CS94032 [^]	400	CS90694 [^]	435
1 NO	CS94120 [^]	225	CS94585 ^{^^}	225	CS96586 [~]	280	-	-	CS90695 [^]	225
1 NC	CS94121 [^]	225	CS94586 ^{^^}	225	-	-	-	-	CS90696 [^]	225

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

Side Mounting Add-on aux. Contact Block

Side Mounting	Aux Contact	MNX/MCX Side Add-on aux. contact Block				MO/MOC Left Add-on aux. contact Block			
		MNX 9-40 / MCX 01-04	M.R.P. (₹) Per Unit	MCX 11-13	M.R.P. (₹) Per Unit	MNX 50-80 / MCX 22-23	M.R.P. (₹) Per Unit	MO 9-110 / MOC 3-100	M.R.P. (₹) Per Unit
First left	1 NO+1 NC	CS94220 [^]	700	CS94201 [^]	750	CS94201 [^]	750	CS94580 [^]	700
First Right	1 NO+1 NC	CS94221 [^]	700	CS94202 [^]	750	CS94202 [^]	750	CS94581 [^]	700
Second Left	1 NO+1 NC	-	-	-	-	CS94203 [^]	750	CS94582 [^]	700
Second right	1 NO+1 NC	-	-	-	-	CS94204 [^]	750	CS94583 [^]	700

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

Side Mounting Add-on aux. Contact Block

Side Mounting	Aux Contact	MDX Side Add-on aux. contact Block					
		MNX 95-650 / MCX 32-47	M.R.P. (₹) Per Unit	MO 140-300	M.R.P. (₹) Per Unit	MDX# 9-110	M.R.P. (₹) Per Unit
First left	1 NO+1 NC	CS94205 [^]	855	CS95033 [^]	855	ST94985 [^]	1030
First Right	1 NO+1 NC	CS94206 [^]	855	CS95034 [^]	855		
Second Left	1 NO+1 NC	CS94207 [^]	855	CS95035 [^]	855	-	-
Second right	1 NO+1 NC	CS94208 [^]	855	CS95036 [^]	855	-	-

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

Accessories - Add-on Auxiliary Contact Blocks [8538]

Side Mounting Add-on aux. Contact Block - ML

ML Add-on aux. contact Block

Side Mounting	Aux Contact	Suitable for			
		ML 4/6	M.R.P. (₹) Per Unit	ML 12	M.R.P. (₹) Per Unit
Left	1 NO + 1 NC	SS91494*	1060	-	-
Right	1 NO + 1 NC	-	-	SS91474*	1060

Note: Ordering Suffix for Add-on aux. contact blocks : 0000

Add-on aux. Contact Block - MR

MR 1NO

Description	For Contactor	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit
Top add-on single pole	MR	1 NO	CS94179*	330

~ Standard Packing is 1 *Standard Packing is 10 **Standard Packing is 20

Accessories - Surge Suppressors [8538]

For MX, MNX, MCX, MO & MO C

MX - S1

Ordering Suffix * 110-240V: B000, 415V: D000

110V: A000, 220-240V: B000, 360-525V: D000

^ 110V: A000, 220-320V: B000, 360-415V: D000

MDX 9-110, MNX 550-650, MCX 45-47, MX DC, MX0 DC & MO0 DC have built in surge suppressor

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0 AC (S1)	CS94039*	555	10
MNX 9 - 40 / MCX 01 - 04 (S1)	CS94166*	560	10
MNX 50 - 80 / MCX 11 - 23 (S3)	CS94163*	625	10
MNX 95 - 250 / MCX 32 - 34 (S4)	CS94164#	2060	10
MNX 300 - 400 / MCX 41 - 44 (S6)	CS94165#	2780	10
MO Frame 0/1, MO C Frame 1, MO0 Control	CS91706^	560	10
MO/MO C - Frame 2	CS91707^	625	10
MO/MO C - Frame 3	CS91708^	2060	10
MO Frame - 4/5	CS91854^	2780	10

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

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

MCX M3 (MCX 22)

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0	CS94038	555	10
MO 9 - 110*	CS94584	790	10
MDX 9 - 38	CS96572	655	1
MDX 50 - 110	CS96573	2000	1
MNX 9 - 40	CS94126	450	10
MNX 50 - 80	CS94197	3180	1
MNX 95 - 140	CS94198	4950	1
MNX 185 - 250	CS94199	5640	1
MNX 300 - 650	CS94200	6380	1
MCX 01 - 04	CS94126	450	10
MCX 11 - 13	ST50540	895	10
MCX 22 - 23	CS93095	4200	1
MCX 32 - 34	SS94992	4340	1
MCX 41 - 47	CS94301	7160	1

Note:

1) Ordering Suffix for Mechanical Interlock Kits : 0000

2) *MO MIL Kit contains inbuilt 2 NC Contacts

3) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors

4) MIL kit for MNX 50-80 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC

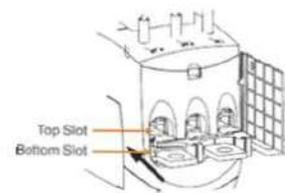
5) MIL kit for MCX 22/23 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC

MO / MO C Spreader Link Kit

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9 - 45 / MOC 3 - 30	CS94274	525	10
MO 50 - 70 / MOC 40 - 60	CS94093	830	10
MO 80 - 110 / MOC 75 - 100	CS94094	1200	1
MO 140 - 225	CS91057	3360	1
MO 250 - 300	CS90940	5240	1

Note:

- 1) If using 16 sq mm cable for MO 45/ MO C25 use of spreader link is mandatory
- 2) Spreader Link Kit consists of six terminals along with phase barrier (Not applicable for MO 250-300)
- 3) In MO C 30, MO C 60 & MO C 100 spreader link is included in packing
- 4) Ordering Suffix: 0000
- 5) **Insert spreader link in top slot only**



Accessories - Connecting Links [8538]

DOL Starter - Link

Contactor MMS Link			
Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90396 #	435	10
MOG H1/S1 with MO 25-45	CS90391 #	435	10

Star Delta Starter - Link

Reversing / star delta Link	Paralleling Link	Contactor MMS Link	Shorting Link
Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90549 #	1310	10
MOG H1/S1 with MO 25-45	CS90547 #	1310	10

*Ordering Suffix 0000

Reversing DOL Starter - Link

Reversing Starter	Paralleling Link	Contactor MMS Link	
Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90548 #	1090	10
MOG H1/S1 with MO 25-45	CS90546 #	1090	10

Example of Star Delta Starter Connection with Link

MMS
MMS

Accessories - Mechanical Latch [8538]

Mechanical Latch

Features

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

Suitable For	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9-70A, MO 0 control	Mechanical Latch	CS90136	2920	10

For Ordering Suffix refer below table

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

Ordering Suffix for Standard Coil Voltages

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

Ordering suffix for Electronic coil Contactor		
AC / DC control		
Voltage (V)	Suffix	Contactor
20-48	J000	MDX 50-110
60-110	A000	MDX 50-110
110-240	B000	MDX 50-110 & MO 140-300
240-415	D000	MO 140-300

Note:

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

2) For other coil voltages please contact nearest branch office

Spare Contact Kit and Spare Coil

ML Spare Kits

ML Spare Kits				
Spare Contact kit			Spare Coil	
Type	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	SS95305 [^]	2435	SS90873 [^]	970
ML 2	SS95307 [^]	4450	SS90545 [^]	1790
ML 3	SS95309 [^]	7865		
ML 4	SS95311 [^]	11655	SS91258 [~]	3510
ML 6	SS95313 [^]	21560		
ML 10	SS95315 [~]	42000	SS91011 [~]	7480
ML 12	SS95317 [~]	45255		
MR	-	-	CS94102 [^]	735
MU16-2P	CS90217 [^]	320		
MU25-2P	CS90218 [^]	420	CS90793 [^]	405
MU40-2P	CS90219 [^]	605		
MO 0 AC	-	-	CS94841 [^]	540

Note:

- 1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
- 2) Ordering suffix for wide band coil of MU-2P is N000

MO C Spare Coils

Type	Cat. No.	M.R.P. (₹) Per Unit
MO C3 - 30	CS96317 [^]	670
MO C40 - 60	CS96318 [^]	2060
MO C75 - 100	CS96319 [^]	3560

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

Front housing and moving bridge kit		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	ST28734 [~]	925
ML 2/ ML 3	ST23866 [~]	1270
ML 4/ ML 6	ST28735 [~]	2300
Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	SS90650 [~]	4150

Note:

- 1) Ordering Suffix for Spare Contact kit - 0000
- 2) For Spare Coil Ordering Suffix refer page No. 10

- ~ Standard Packing is 1
- [^] Standard Packing is 5
- [^] Standard Packing is 10
- ~ Standard Packing is 50

Spare Contact Kit and Spare Coil

MX Spare Coils

MCX Spare Kits

	Spare Contact kit		Spare Coil			
	Type	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
MO Contactors	MO 9 (1 NO + 1 NC)	CS94843 [^]	600	CS94841 [^]	540	
	MO 12 (1 NO + 1 NC)	CS94844 [^]	780			
	MO 18 (1 NO + 1 NC)	CS94845 [^]	855			
	MO 9	CS96380 [~]	600	CS96317 [^]	670	
	MO 12	CS96381 [~]	780			
	MO 18	CS96382 [~]	855			
	MO 25	CS96383 [~]	975			
	MO 32	CS96384 [~]	2215			
	MO 40	CS96385 [~]	3735			
	MO 45	CS96386 [~]	3780	CS96318 [^]	2060	
	MO 50	CS96387 [~]	3895			
	MO 60	CS96388 [~]	5040			
	MO 70	CS96389 [~]	5600			
	MO 80	CS96390 [~]	7700			
	MO 95	CS96391 [~]	9715			
	MO 110	CS96392 [~]	14190	CS96319 [^]	3560	
	MO 140	CS90357 [~]	17050			
	MO 185	CS90358 [~]	20460			
MO 225	CS90359 [~]	23430				
MO 250	CS94444 [~]	28160				
MO 300	CS94443 [~]	31790				
MO 140 (electronic coil)	CS90357 [~]	17050	CS94442 [~]	12300		
MO 185 (electronic coil)	CS90358 [~]	20460				
MO 225 (electronic coil)	CS90359 [~]	23430				
MO 250 (electronic coil)	CS94444 [~]	28160				
MO 300 (electronic coil)	CS94443 [~]	31790				
MVO	MVO	-			CS90174 [~]	33600
MNX Contactors	MNX 9	CS94123 [^]	555	CS94105 [^]	525	
	MNX 12	CS94124 [^]	720			
	MNX 18	CS94125 [^]	790			
	MNX 22	CS94269 [^]	885			
	MNX 25	CS94127 [^]	905			
	MNX 32	CS94128 [^]	2110			
	MNX 40	CS94147 [^]	3565	CS94192 [^]	1930	
	MNX 50	CS94150 [^]	3645			
	MNX 70	CS94151 [^]	5395			
	MNX 80	CS94152 [^]	7420			
	MNX 95	CS94153 [~]	9535			
	MNX 110	CS94154 [~]	13930			
	MNX 140	CS94155 [~]	16740	CS94196 [~]	3400	
	MNX 185	CS94156 [~]	19345			
	MNX 225	CS94157 [~]	22365			
	MNX 250	CS90310 [~]	26625			
	MNX 300	CS90283 [~]	29765			
	MNX 400	CS94161 [~]	44520			
MNX 550	CS94162 [~]	59815	CS94195 [~]	11550		
MNX 650	CS96336 [~]	92555				
MCX 01-04	-	-			CS94105 [^]	525
MCX 11	CS94077 [^]	1800			CS94009 [^]	695
MCX 12	CS94078 [^]	3530				
MCX 13	CS90307 [^]	5465				
MCX 22	CS94331 [~]	6595	ST91291 [~]	1730		
MCX 23	CS90078 [~]	8170				
MCX 32	CS94082 [^]	12485	CS94196 [~]	3400		
MCX 33	CS94083 [^]	16140				
MCX 34	CS94084 [^]	18900				
MCX 41	CS94295 [~]	28380				
MCX 42	CS94296 [~]	33000				
MCX 43	CS94297 [~]	39600				
MCX 44	CS94298 [~]	50060	CS94195 [~]	11550		
MCX 45	CS94299 [~]	52835				
MCX 46	CS94300 [~]	61405				
MCX 47	CS90308 [~]	85470				
MCX 45	CS94299 [~]	52835			CS94193 [~]	24300
MCX 46	CS94300 [~]	61405				

* Ordering Suffix for 240V AC - F000, 415V AC - R000

Type MN - Suitable for MNX Contactor

Features

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

MN 2	MN 5	MN 12	MN 12L	
Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN 2 (Directly Operated)	Direct Mounting on MNX 9 - 40			
	0.2 - 0.33	SS9414100EO	1740	10
	0.3 - 0.5	SS9414100GO	1740	10
	0.45 - 0.75	SS9414100JO	1740	10
	0.6 - 1	SS9414100KO	1740	10
	0.9 - 1.5	SS9414100MO	1750	10
	1.4 - 2.3	SS9414100PO	1750	10
	2 - 3.3	SS9414100QO	1750	10
	3 - 5	SS9414100SO	1750	10
	4.5 - 7.5	SS9414100UO	1750	10
	6 - 10	SS9414200VO	1750	10
	9 - 15	SS9414200BO	1810	10
	14 - 23	SS9414400DO	1960	10
	20 - 33	SS9414500EO	2890	10
24 - 40	SS9414500FO	3040	10	
MN 5 (Directly Operated)	Direct Mounting on MNX 50 - 80			
	9 - 15	SS9413500BO	3600	10
	14 - 23	SS9413500DO	3600	10
	20 - 33	SS9413600EO	3600	10
	30 - 50	SS9413600GO	4490	10
	36 - 60	SS9413600TO	4770	10
MN 12 (CT Operated)	Separate Mounting			
	28 - 46.5	SB9421100GO	8540	1
	42 - 69	SS9413800HO	8540	1
	60 - 100	SS9413800KO	8540	1
	90 - 150	SS9413800MO	8540	1
	135 - 225	SS9413800PO	10300	1
MN 12L # (CT Operated)	Separate Mounting			
	42 - 69	SS9412700HO	27320	1
	60 - 100	SS9412700KO	27320	1
	90 - 150	SS9412700MO	27320	1
	135 - 225	SS9412700PO	27320	1
	180 - 300	SS9412700QO	27320	1
340 - 570	SS9412700SO	27320	1	

For motors with longer starting time (Trip class 30)

Type RTO - Suitable for MO Contactor

Features

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

RTO 1	RTO 2	RTO 3		
Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO - 1 (Directly Operated)	Direct Mounting on MO 9 - 45			
	0.23 - 0.41	CS9635500FO	2440	10
	0.31 - 0.55	CS9635500GO	2440	10
	0.55 - 0.85	CS9635500JO	2440	10
	0.78 - 1.2	CS9635500LO	2440	10
	1.2 - 2.0	CS9635500NO	2440	10
	1.9 - 2.8	CS9635500PO	2470	10
	2.4 - 3.6	CS9635500QO	2470	10
	3.5 - 5.2	CS9635500SO	2470	10
	4.6 - 6.7	CS9635500TO	2470	10
	6.7 - 9.7	CS9635500VO	2470	10
	8.5 - 12.5	CS9635500AO	2510	10
	12.5 - 18.5	CS9635600CO	2510	10
	17 - 25.5	CS9635600DO	2680	10
25 - 37	CS9635600EO	3940	10	
35 - 45	CS9635600GO	4140	10	
RTO - 2 (Directly Operated)	Direct Mounting on MO 50 - 70			
	5 - 7.5	CS9636600UO	4760	1
	7 - 11	CS9636600VO	4760	1
	10.5 - 16	CS9636600BO	4760	1
	15 - 21	CS9636600CO	4760	1
	20 - 31	CS9636600EO	4960	1
RTO - 3 (Directly Operated)	Direct Mounting on MO 80 - 110			
	23 - 30	CS9087300EO	7780	1
	29 - 38	CS9630300QO	8080	1
	37 - 49	CS9630400GO	8330	1
	47 - 62	CS9631200TO	8490	1
	60 - 78	CS9631300JO	10000	1
75 - 110	CS9631400KO	10920	1	
RTO - 4 (CT Operated)	Separate Mounting			
	23.4 - 36	CS9709600GO	11770	1
	36 - 60	CS9709600JO	11770	1
	57 - 84	CS9709600KO	11770	1
	72 - 108	CS9709600LO	11770	1
	105 - 156	CS9709600MO	11770	1
	138 - 201	CS9709600NO	14450	1
	201 - 291	CS9709600QO	15090	1
255 - 375	CS9709600RO	18830	1	

Thermal Overload Relays [8536]

Type RX

Features

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

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RX (Directly Operated)	0.23-0.41	CS9635700FO	1440	10
	0.45-0.78	CS9635700JO	1440	10
	0.78-1.2	CS9635700LO	1440	10
	1.2-1.9	CS9635700NO	1440	10
Direct Mounting on MX Contactors	1.8-2.8	CS9635700PO	1440	10
	2.6-3.6	CS9635700QO	1440	10
	3.6-5.2	CS9635700SO	1440	10
	4.8-7	CS9635700TO	1440	10
	6.4-9.7	CS9635700VO	1440	10
	8.2-12.1	CS9635700AO	1440	10

Type MU-2P (2 Pole)

MU-2P

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 2P (2 Pole)				
Direct Mounting on MU-2P Contactor	1 - 1.6A	CS9020700MO	760	1
	1.5 - 2.5A	CS9020700PO	760	1
	2.5 - 4A	CS9020700RO	760	1
	4 - 6.5A	CS9020700TO	760	1
	6 - 10A	CS9020700VO	760	1
	9 - 14A	CS9020700AO	760	1

Type ML

ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Direct Mounting on ML 1.5 Contactors				
ML 1 (Directly Operated)	0.15 - 0.25	SS9185800DO	3420	10
	0.25 - 0.4	SS9185800FO	3420	10
	0.4 - 0.65	SS9185800HO	3420	10
	0.6 - 1	SS9185800KO	3420	10
	1 - 1.6	SS9185800MO	3420	10
	1.5 - 2.5	SS9185800PO	3420	10
	2.5 - 4	SS9185800RO	3420	10
	4 - 6.5	SS9185800TO	3420	10
	6 - 10	SS9185800VO	3420	10
	10 - 16	SS9185800BO	3420	10
11 - 18	SS9185800CO	3420	10	
Direct Mounting on ML 2/3 Contactors				
ML 2 / ML 3 (Directly Operated)	9 - 14	SS9185900AO	5050	10
	13 - 21	SS9185900CO	5050	10
	20 - 32	SS9185900EO	5050	10
	28 - 42	SS9185900FO	5050	10

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 2P (2 Pole)				
Direct Mounting on MU-2P Contactor	11 - 18A	CS9020700CO	850	1
	13 - 22A	CS9020700DO	850	1
	16 - 26A	CS9020700BO	850	1
	20 - 32A	CS9020700EO	1060	1
	26 - 40A	CS9020700FO	1060	1

Accessories for Thermal Overload Relays [8538]

Accessories for Thermal Overload Relays



Relay Mounting Kit Kit for Mounting MN5 Relay Din Rail Mounting Kit MN2 Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button extrn. unit for MN 2 Relays	SS949680000	70	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS947010000	235	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS947000000	235	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS946380000	380	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS941510000	245	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS941520000	335	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS918870000	185	50

Separate Mounting Kit for RTO Relay

Relay Reset Cord for MN & RTO relay



400 mm 650 mm 900 mm 1200 mm

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN Relay reset cord - 400mm	SB942070000	860	1
MN Relay reset cord - 650mm	SB942080000	895	1
MN Relay reset cord - 900mm	SB942090000	920	1
MN Relay reset cord - 1200mm	SB942100000	1030	1
RTO Relay reset cord - 400mm	CS909410000	860	1
RTO Relay reset cord - 650mm	CS909420000	895	1
RTO Relay reset cord - 900mm	CS909430000	920	1
RTO Relay reset cord - 1200mm	CS909440000	1030	1

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO-1 Relay Separate Mounting Kit	CS963350000	320	1
RTO-2 Relay Separate Mounting Kit	CS963060000	760	1
RTO-3 Relay Separate Mounting Kit	CS963070000	1080	1