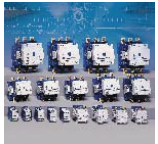


Three Pole Power Contactors - Type MNX



- Range from 9-650A AC3
- Coil on top for 95A and above
- Built-in 2NO + 2NC auxiliary contacts for 45A & above
- Click fit type construction upto 40A
- Clear terminal marking
- Entire range is UL listed



Technical Data

Catalogue No.	MNX 9	MNX 12	MNX 18	MNX 22	MNX 25	MNX 32	MNX 40	MNX 45	MNX 50	MNX 70	MNX 80	MNX 95	MNX 110	MNX 140	MNX 165	MNX 225	MNX 265	MNX 325	MNX 400	MNX 550	MNX 650
Conformance to standards	IS/IEC 60947-4-1 & IEC 60947-4-1, BSEN 60947-4-1																				
Power Contacts																					
No. of poles	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Rated insulation voltage, U _i	690V	690V	690V	690V	690V	690V	690V	690V	690V	690V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Rated impulse withstand voltage, U _{imp}	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV
Rated making capacity - (Amp)	450	450	450	450	480	550	550	900	900	900	1680	1680	1800	2200	2400	4000	4000	4500	4500	5500	6500A
Rated breaking capacity - (Amp)	200	250	250	250	400	500	500	750	750	1400	1400	1600	1800	2200	2400	3200	3200	4000	4000	4500	5200A
Rated operational current, I _n At 55°C	9A	12A	18A	22A	25A	32A	40A	45A	50A	70A	80A	95A	110A	140A	185A	225A	265A	325A	400A	550A	650A
Motor duty : 30, 415V, 50Hz	4 kW / 5.5hp / 9A	5.5 kW / 7.5hp / 12A	9.3 kW / 12.5hp / 18A	11 kW / 15hp / 22A	11 kW / 15hp / 25A	17 kW / 22.5hp / 32A	22.5 kW / 30hp / 40A	25 kW / 34hp / 45A	26 kW / 35hp / 50A	37 kW / 50hp / 70A	40 kW / 54hp / 80A	45 kW / 60hp / 95A	55 kW / 75hp / 110A	75 kW / 100hp / 140A	90 kW / 120hp / 185A	110 kW / 150hp / 225A	147 kW / 198hp / 265A	180 kW / 245hp / 325A	200 kW / 270hp / 400A	315 kW / 425hp / 550A	355 kW / 475hp / 650A
Operational current I _n for AC-4 Utilization category at 415V, 50Hz for 2,00,000 operating cycles	5.5A	7.1A	8A	8.5A	13.5A	16A	20A	24A	24A	28.5A	43A	53A	58A	66A	90A	100A	120A	140A	150A	150A	**
Capacitor switching delta connected: 415V, 50Hz ***	6 kVAr	7.5 kVAr	9 kVAr	9 kVAr	15 kVAr	20 kVAr	20 kVAr	30 kVAr	30 kVAr	35 kVAr	40 kVAr	65 kVAr	65 kVAr	70 kVAr	100 kVAr	125 kVAr	150 kVAr	175 kVAr	175 kVAr	250 kVAr	300 kVAr
Max. Permissible peak in-rush current, I _r for capacitor switching	570A	680A	750A	750A	1400A	2000A	2000A	3000A	3000A	3500A	4000A	6500A	6500A	7000A	10000A	12500A	15000A	17500A	17500A	25000A	30000A
DC ratings (with 3 poles in series) and AC coil operation	DC 1 - 110V 9A	DC 1 - 120V 12A	DC 1 - 180V 18A	DC 1 - 220V 22A	DC 1 - 250V 25A	DC 1 - 320V 32A	DC 1 - 400V 40A	DC 1 - 450V 45A	DC 1 - 500V 50A	DC 1 - 630V 63A	DC 1 - 800V 80A	DC 1 - 950V 95A	DC 1 - 1100V 110A	DC 1 - 1400V 140A	DC 1 - 1850V 185A	DC 1 - 2250V 225A	DC 1 - 2650V 265A	DC 1 - 3250V 325A	DC 1 - 4000V 400A	DC 1 - 5500V 550A	DC 1 - 6500V 650A
Mechanical life, No. of operating cycles	15 x 10 ⁷	15 x 10 ⁷	15 x 10 ⁷	15 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷	10 x 10 ⁷
Max. frequency of operations: Operating cycles/hr	7200 3000	7200 3000	7200 3000	7200 3000	7200 3000	7200 3000	7200 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	3600 3000	1200 750	1200 750
Service temperature	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C	-20°C to +55°C
Main terminal capacity	Lug (mm ²) 1 x 6	Lug (mm ²) 1 x 6	Lug (mm ²) 1 x 6	Lug (mm ²) 1 x 6	Lug (mm ²) 1 x 10	Lug (mm ²) 1 x 10	Lug (mm ²) 1 x 10	Lug (mm ²) 1 x 35	Lug (mm ²) 1 x 35	Lug (mm ²) 1 x 35	Lug (mm ²) 1 x 35	Lug (mm ²) 2 x 25mm x 3mm	Lug (mm ²) 2 x 25mm x 3mm	Lug (mm ²) 2 x 25mm x 3mm	Lug (mm ²) 2 x 25mm x 3mm	Lug (mm ²) 2 x 30mm x 5mm	Lug (mm ²) 2 x 30mm x 5mm	Lug (mm ²) 2 x 50mm x 5mm	Lug (mm ²) 2 x 50mm x 5mm	Lug (mm ²) 2 x 50mm x 5mm	Lug (mm ²) 2 x 60mm x 5mm
Auxiliary Contacts	1NO or 1NC	1NO or 1NC	1NO or 1NC	1NO or 1NC	#	#	#	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC	2NO + 2NC
No. of built-in auxiliary contacts	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A
Conventional thermal current, I _n at 55°C	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
AC-15 rating at 415V, 50Hz	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5
Terminal capacity (Solid or multi strand conductors (mm ²))	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5
Coil																					
Voltage available for 50Hz	U _c (V)																				
Pick-up	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525	24, 42, 110, 220, 240, 415, 525
Hold-on	68	68	68	68	68	68	68	190	190	190	190	550	550	550	960	960	2100	2100	2100	1000	1000
Limits of operation	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.77	0.77	0.77	0.77	0.64	0.64	0.3	0.21	0.21	0.21	0.21	0.21	-	-
Drop-off (%U _c)	11	11	11	11	11	11	11	21	21	21	21	36	36	36	56	56	95	95	95	25	25
Watts	4	4	4	4	4	4	4	5.5	5.5	5.5	5.5	10	10	10	16	16	35	35	35	10	10
Pick-up (%U _c)	65 - 120	65 - 120	65 - 120	65 - 120	65 - 120	65 - 120	65 - 120	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110	80 - 110
Drop-off (%U _c)	35 - 50	35 - 50	35 - 50	35 - 50	35 - 50	35 - 50	35 - 50	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65	35 - 65

* With 1NC auxiliary contacts
 ** Data available on request
 *** For capacitor switching, please connect inductor in series

Add - on block can be ordered separately
 # 60Hz & 50/60Hz Coils available on request