

Metasol Contactor  
MC-100a



General

Product code	1384007700
Product description	MC-100a AC240V 50/60Hz LUG 1a1b (Metasol) EXP (MC100A-30-11-U7-L-E)
Main contact	3NO
Auxiliary contact	1NO 1NC
Control voltage	AC240V 50/60Hz
Type of terminal	Lug
Local/Export	Export
Standards	IEC 60947-4-1, IEC 60947-5-1, UL508
Certificates	CE, UL, CCC
	KR, LR, BV, DNV, ABS, NK, RINA

Characteristics

Number of poles	3P
Rated operational voltage [Ue]	1000V
Rated insulation voltage [Ui]	1000V
Rated withstand voltage [Uimp]	8kV
Rated frequency [Hz]	50/60Hz
Maximum operating rate in operating cycles per hour(AC3)	1200

Mechanical durability (mil. operations)	12
Electrical durability (mil. operations)	1
Rated operational current (AC-1)	160A
Power (AC-1)	-
	-
	-
	-
Current (AC-1)	-
	-
	-
	-
Motor power (AC-3)	30kW at 200/240V
	55kW at 380/440V
	55kW at 500/550V
	55kW at 690V
	37kW at 1000V
Motor power (AC-4)	19kW at 200/240V
	27kW at 380/440V
Rated operational current (AC-3)	105A at 200/240V
	105A at 380/440V
	85A at 500/550V
	65A at 690V
	28A at 690V
Rated operational current (AC-4)	80A at 200/240V
	75A at 380/440V
Rated operational current (DC-3,5)	-
	-
	-

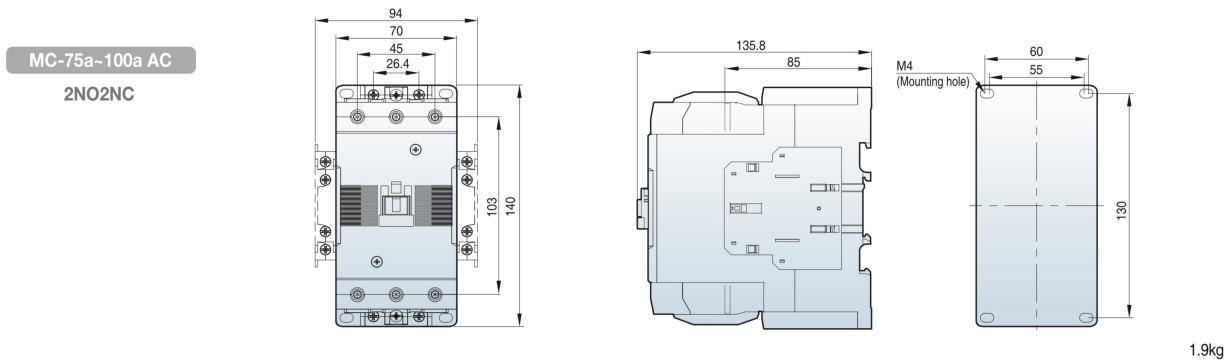
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Rated operational current (DC-1)	-
Type 2 Coordination	See the Type 2 Coordination Table in the catalog
Motor power (UL/CSA)	10hp at 110~220V for 1 phase motors
	20hp at 220~240V for 1 phase motors
	30hp at 200~208V for 3 phase motors
	40hp at 220~240V for 3 phase motors
	75hp at 440~480V for 3 phase motors
	75hp at 550~600V for 3 phase motors
NEMA size	-
Rated Short-time withstand current	1320A at 1s
	900A at 10s
	500A at 30s
	400A at 1min
	270A at 3min
	180A at 10min
	160A at =15min
Conductor size (AWG)	8~00
Conductor size (mm2)	10~70
The max. number of conductor	10~70
Conductor type	Solid, Stranded
Conductor characteristic	65/75? Cu-wire only
Main terminal size	M8
Crimp terminal (mm)	M8
Torque (lb-in)	M8
Torque (Nm)	M8
Torque (kgf.cm)	M8

#### Environment

Degree of protection	IP20
Ambient air temperature	-30? ~ +65? at storage
	-5? ~ +55? at operation (AC type)
Operating altitude	3000m(8900ft)
Shock resistance (1/2 sin wave=11ms)	8G at opened
	10G at closed
Vibration resistance (Conforming to IEC68-2-6) (5~300Hz)	2G at opened
	4G at closed
Flame resistance	V0 at conforming to UL94
	960? at conforming to IEC695-2-1
REACH	Yes
RoHS	Yes
WEEE	Yes

### Dimensions

Weight	1.9kg
Size width	82mm / 3.23inch
Size height	140mm / 5.51inch
Size depth	135.8mm / 5.35inch



### Control coil

Control voltage	AC240V 50/60Hz
Control voltage limit [Uc]	85~110%
Consumption at 20°C	240VA at inrush
Consumption at 20°C	17VA at holding

Heat dissipation	5.4W at holding
Operating time	15~30ms at closing
Operating time	10~30ms at opening

### Applicable Accessories

Metasol MS

### Accessories

