

## Metasol Contactor

### MC-12b



#### General

Product code	1345002300
Product description	MC-12b AC220V 50Hz SCREW 1a1b (Metasol) EXP (MC12B-30-11-M5-S-E)
Main contact	3NO
Auxiliary contact	1NO 1NC
Control voltage	AC220V 50Hz
Type of terminal	Screw
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]	690V
Rated insulation voltage [Ui]	690V
Rated withstand voltage [Uimp]	6kV
Rated frequency [Hz]	50Hz
Maximum operating rate in operating cycles per hour(AC3)	50Hz

Mechanical durability (mil. operations)	50Hz
Electrical durability (mil. operations)	50Hz
Rated operational current (AC-1)	27A
Power (AC-1)	-
	-
	-
	-
Current (AC-1)	-
	-
	-
	-
Motor power (AC-3)	3.5kW at 200/240V
	3.5kW at 380/440V
	7.5kW at 500/550V
	7.5kW at 690V
	-
Motor power (AC-4)	2.2kW at 200/240V
	4kW at 380/440V
Rated operational current (AC-3)	13A at 200/240V
	12A at 380/440V
	12A at 500/550V
	9A at 690V
	-
Rated operational current (AC-4)	11A at 200/240V
	19A 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)	0.75hp at 110~220V for 1 phase motors
	2hp at 220~240V for 1 phase motors
	3hp at 200~208V for 3 phase motors
	5hp at 220~240V for 3 phase motors
	7.5hp at 440~480V for 3 phase motors
	10hp at 550~600V for 3 phase motors
NEMA size	10hp at 550~600V for 3 phase motors
Rated Short-time withstand current	280A at 1s
	120A at 10s
	80A at 30s
	61A at 1min
	50A at 3min
	30A at 10min
	28A at =15min
Conductor size (AWG)	16~8
Conductor size (mm <sup>2</sup> )	1.5~10
The max. number of conductor	1.5~10
Conductor type	Solid, Stranded
Conductor characteristic	65/75? Cu-wire only
Main terminal size	M4
Crimp terminal (mm)	M4
Torque (lb-in)	M4
Torque (Nm)	M4
Torque (kgf.cm)	M4

## Environment

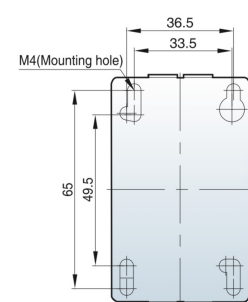
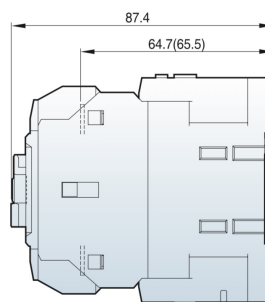
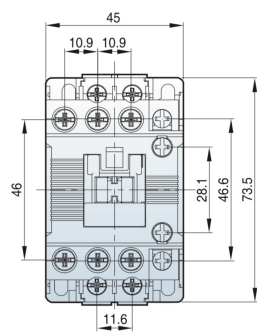
Degree of protection	IP20
Ambient air temperature	-30? ~ +65? at storage
	-5? ~ +55? at operation (AC type)
Operating altitude	3000m(8900ft)
Shock resistance (1/2 sin wave=11ms)	8G at opened
	10G at closed
Vibration resistance (Conforming to IEC68-2-6) (5~300Hz)	2G at opened
	4G at closed
Flame resistance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

## Dimensions

Weight	0.3kg
Size width	45mm / 1.77inch
Size height	73.5mm / 2.89inch
Size depth	87.4mm / 3.44inch

MC-9b~22b AC

1N01NC



\* ( ) MC-18b,22b

0.3kg

## Control coil

Control voltage	AC220V 50Hz
Control voltage limit [Uc]	85~110%
Consumption at 20°C	70VA at inrush

Consumption at 20°C	9VA at holding
Heat dissipation	2.3W at holding
Operating time	15~30ms at closing
Operating time	4~19ms at opening

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**Applicable Accessories**

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**LS<sup>➤</sup>ELECTRIC**

## Accessories

