Product Data Sheet Characteristics



Metasol Contactor

MC-18a

General

Product code	1328000700
Product description	MC-18a AC220V 50/60Hz SCREW 1a (Metasol) EXP (MC18A-30-10-M7-S-E)
Main contact	3NO
Auxiliary contact	1NO
Control voltage	AC220V 50/60Hz
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]	50/60Hz
Maximum operating rate in operating cycles per hour(AC3)	50/60Hz

Mechanical durability (mil. operations)	50/60Hz
Electrical durability (mil. operations)	50/60Hz
Rated operational current (AC-1)	32A
Power (AC-1)	-
	-
	-
	-
Current (AC-1)	-
	-
	-
	-
Motor power (AC-3)	4.5kW at 200/240V
	7.5kW at 380/440V
	7.5kW at 500/550V
	7.5kW at 690V
	-
Motor power (AC-4)	3.7kW at 200/240V
	4kW at 380/440V
Rated operational current (AC-3)	18A at 200/240V
	18A at 380/440V
	13A at 500/550V
	9A at 690V
	-
Rated operational current (AC-4)	16A at 200/240V
	11A at 380/440V
Rated operational current (DC-3,5)	-
	-

	-
Rated operational current (DC-1)	-
Type 2 Coordination	-
Motor power (UL/CSA)	1hp at 110~220V for 1 phase motors
	3hp at 220~240V for 1 phase motors
	7.5hp at 200~208V for 3 phase motors
	7.5hp at 220~240V for 3 phase motors
	10hp at 440~480V for 3 phase motors
	15hp at 550~600V for 3 phase motors
NEMA size	15hp at 550~600V for 3 phase motors
Rated Short-time withstand current	300A at 1s
	130A at 10s
	85A at 30s
	70A at 1min
	50A at 3min
	40A at 10min
	30A at =15min
Conductor size (AWG)	14~8
Conductor size (mm2)	2.5~10
The max. number of conductor	2.5~10
Conductor type	Solid, Stranded
Conductor charateristic	65/75? Cu-wire only
Main terminal size	M3.5
Crimp terminal (mm)	M3.5
Torque (lb-in)	M3.5
Torque (Nm)	M3.5
Torque (kgf.cm)	M3.5

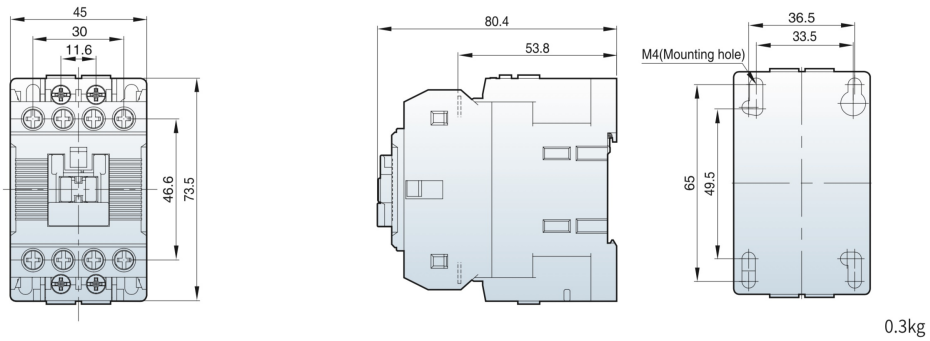
Environment

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	80.4mm / 3.17inch

MC-6a~18a AC
1NO or 1NC



Control coil

Control voltage	AC220V 50/60Hz
Control voltage limit [Uc]	85~110%
Consumption at 20℃	70VA at inrush
Consumption at 20℃	9VA at holding

Heat dissipation	2.3W at holding
Operating time	15~30ms at closing
Operating time	4~19ms at opening

Applicable Accessories

Accessories

