MC-32a

LS ELECTRIC — Metasol Magnetic Contactor
Brand: LS ELECTRIC | Series: Metasol



GENERAL	
Product code	**1336010900**
Product description	**MC-32a AC100V 50Hz 110V 60Hz SCREW 1a1b (Metasol) EXP (MC32A-30-11-HF7-S-E)**
Product type	**Metasol Contactor**
Product name	**MC-32a**
Main contact	**3NO**
Auxiliary contact	**1NO 1NC**
Control voltage	**AC100V 50Hz / 110V 60Hz**
Type of terminal	**Screw**
Local/Export	**Export**
Standards	**IEC 60947-4-1, IEC 60947-5-1, UL508**
Certificates	**CE, UL, CCC**
Certificates	**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]	**60Hz**
Maximum operating rate in operating cycles per hour(AC3)	**60Hz**
Mechanical durability (mil. operations)	**60Hz**
Electrical durability (mil. operations)	**60Hz**
Rated operational current (AC-1)	**55A**
Motor power (AC-3)	**7.5kW at 200/240V**
Motor power (AC-3)	**15kW at 380/440V**
Motor power (AC-3)	**18.5kW at 500/550V**
Motor power (AC-3)	**18.5kW at 690V**
Motor power (AC-3)	**22kW at 1000V**
Motor power (AC-4)	**4.5kW at 200/240V**
Motor power (AC-4)	**7.5kW at 380/440V**
Rated operational current (AC-3)	**32A at 200/240V**
Rated operational current (AC-3)	**32A at 380/440V**
Rated operational current (AC-3)	**28A at 500/550V**
Rated operational current (AC-3)	**20A at 690V**
Rated operational current (AC-3)	**17A at 690V**
Rated operational current (AC-4)	**20A at 200/240V**
Rated operational current (AC-4)	**17A at 380/440V**
Type 2 Coordination	**See the Type 2 Coordination Table in the catalog**

Motor power (UL/CSA)	**2hp at 110~220V for 1 phase motors**
Motor power (UL/CSA)	**5hp at 220~240V for 1 phase motors**
Motor power (UL/CSA)	**7.5hp at 200~208V for 3 phase motors**
Motor power (UL/CSA)	**10hp at 220~240V for 3 phase motors**
Motor power (UL/CSA)	**20hp at 440~480V for 3 phase motors**
Motor power (UL/CSA)	**25hp at 550~600V for 3 phase motors**
NEMA size	**1P**
Rated Short-time withstand current	**600A at 1s**
Rated Short-time withstand current	**260A at 10s**
Rated Short-time withstand current	**160A at 30s**
Rated Short-time withstand current	**100A at 1min**
Rated Short-time withstand current	**70A at 3min**
Rated Short-time withstand current	**55A at 10min**
Rated Short-time withstand current	**50A at =15min**
Conductor size (AWG)	**8~6**
Conductor size (mm2)	**10~16**
The max. number of conductor	**10~16**
Conductor type	**Solid, Stranded**
Conductor charateristic	**65/75? Cu-wire only**
Main terminal size	**M5**
Crimp terminal (mm)	**M5**
Torque (lb-in)	**M5**
Torque (Nm)	**M5**
Torque (kgf.cm)	**M5**
ENVIRONMENT	
Degree of protection	**IP20**
Ambient air temperature	**-30? ~ +65? at storage**
Ambient air temperature	**-5? ~ +55? at operation (AC type)**
Operating altitude	**3000m(8900ft)**
Shock resistance (1/2 sin wave=11ms)	**8G at opened**
Shock resistance (1/2 sin wave=11ms)	**10G at closed**
Vibration resistance (Conforming to IEC68-2-6) (5~300Hz)	**2G at opened**
Vibration resistance (Conforming to IEC68-2-6) (5~300Hz)	**4G at closed**
Flame resistance	**V0 at conforming to UL94**
Flame resistance	**960? at conforming to IEC695-2-1**
REACH	**Yes**
RoHS	**Yes**
WEEE	**Yes**
DIMENSIONS	
Weight	**0.5kg**
Size width	**57mm / 2.24inch**
Size height	**83mm / 3.27inch**
Size depth	**90mm / 3.54inch**
Drawings	**MC-32a~40a AC.png**
CONTROL COIL	
Control voltage	**AC100V 50Hz / 110V 60Hz**
Control voltage limit [Uc]	**85~110%**
Consumption at 20℃	**90VA at inrush**
Consumption at 20℃	**9VA at holding**
Heat dissipation	**2.7W at holding**
Operating time	**15~30ms at closing**
Operating time	**4~19ms at opening**
APPLICABLE ACCESSORIES	

Applicable Accessories	**Metasol MS_35.png**