ABILITY
Technical Datasheet

MC-22b

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



GENERAL	
Product code	**1347004700**
Product description	**MC-22b AC100V 50Hz 110V 60Hz SCREW 1a1b (Metasol) EXP (MC22B-30-11-HF7-S-E)**
Product type	**Metasol Contactor**
Product name	**MC-22b**
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]	**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)	**45A**
Motor power (AC-3)	**5.5kW at 200/240V**
Motor power (AC-3)	**11kW at 380/440V**
Motor power (AC-3)	**15kW at 500/550V**
Motor power (AC-3)	**15kW at 690V**
Motor power (AC-4)	**3.7kW at 200/240V**
Motor power (AC-4)	**5.5kW at 380/440V**
Rated operational current (AC-3)	**22A at 200/240V**
Rated operational current (AC-3)	**22A at 380/440V**
Rated operational current (AC-3)	**20A at 500/550V**
Rated operational current (AC-3)	**18A at 690V**
Rated operational current (AC-4)	**18A at 200/240V**
Rated operational current (AC-4)	**13A 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)	**3hp 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)	**15hp at 440~480V for 3 phase motors**
Motor power (UL/CSA)	**20hp at 550~600V for 3 phase motors**
Rated Short-time withstand current	**400A at 1s**
Rated Short-time withstand current	**186A at 10s**
Rated Short-time withstand current	**130A at 30s**
Rated Short-time withstand current	**90A at 1min**
Rated Short-time withstand current	**60A at 3min**
Rated Short-time withstand current	**50A at 10min**
Rated Short-time withstand current	**45A 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	**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**
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	**0.3kg**
Size width	**45mm / 1.77inch**
Size height	**73.5mm / 2.89inch**
Size depth	**87.4mm / 3.44inch**
Drawings	**MC-9b~22b AC.png**
CONTROL COIL	
Control voltage	**AC100V 50Hz / 110V 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	
Applicable Accessories	**Metasol MS_33.png**