ABILITY
Technical Datasheet

MT-225

LS ELECTRIC — Metasol Thermal Overload Relay



GENERAL	
Product code	**1377000100**
Product description	**MT-225 80A 2H SCREW EXP (MT225-2H-80-B-E)**
Product type	**Metasol Thermal Overload Relay**
Product name	**MT-225/2H**
Heater type	**2H (Non differential 2-heater, Trip class 10A)**
Current range	**80(65~100A)**
Type of terminal	**Bolt**
Local/Export	**Export**
Standards	**IEC 60947-4-1, IEC 60947-5-1, UL508**
Certificates	**CE, UL**
Certificates	**KR, LR, BV, DNV, ABS, NK, RINA**
CHARACTERISTICS	
Poles description	**3P**
Trip class	**10A**
Rated operational voltage [Ue]	**690V**
Rated insulation voltage [Ui]	**690V**
Rated withstand voltage [Uimp]	**6kV**
Rated frequency [Hz]	**50/60Hz**
Temperature compensation (℃)	**-5°C ~ 40°C**
Functions	**Trip indicating**
Functions	**Stop**
Functions	**Test**
Functions	**Manual/Automatic Reset**
Type 2 Coordination with MCCB & TOR (440V)	**See the Type 2 table**
Conductor size (AWG)	**6~250**
Conductor size (mm2)	**120**
Conductor charateristic	**65/75°C Cu-wire only**
Main terminal size	**M10**
Torque (lb-in)	**130**
Torque (Nm)	**14.7**
Torque (kgf.cm)	**150**
ENVIRONMENT	
Degree of protection	**IP00**
Ambient air temperature	**-30°C ~ +65°C at storage**
Ambient air temperature	**-25°C ~ +60°C at operation**
Mounting position	**Vertical plane**
Shock resistance (1/2 sin wave=11ms)	**15gn - 11ms**
Vibration resistance (Conforming to IEC68-2-6) (5~300Hz)	**6G**
REACH	**Yes**

RoHS	**Yes**
WEEE	**Yes**
DIMENSIONS	
Weight (kg)	**2.5**
Size width	**147mm / 6.05inch**
Size height	**141mm / 5.8inch**
Size depth	**184mm / 7.57inch**
Drawings	**MT-225.png**
AUXILIARY CONTACTS	
Composition	**1NO+1NC**
Rated thermal current	**5A**
Rated operation current	**C600,R300**
Rated operation current	**1.5A at 120V (AC15 duty)**
Rated operation current	**0.75A at 240V (AC15 duty)**
Rated operation current	**0.47A at 380V (AC15 duty)**
Rated operation current	**0.375A at 480V (AC15 duty)**
Rated operation current	**0.35A at 500V (AC15 duty)**
Rated operation current	**0.3A at 600V (AC15 duty)**
Rated operation current	**0.22A at 120V (DC13 duty)**
Rated operation current	**0.1A at 240V (DC13 duty)**
Conductor size (AWG)	**18**
Conductor size (mm2)	**1**
Conductor charateristic	**65/75°C Cu-wire only**
CHARACTERISTIC CURVE	
Characteristic Curve	**Class 10A, 225AF.png**