

## Metasol Thermal Overload Relay

### MT-95/2H



#### General

|                     |                                                |
|---------------------|------------------------------------------------|
| Product code        | 1312001200                                     |
| Product description | MT-95 83A 2H SCREW EXP (MT95-2H-83-S-E)        |
| Heater type         | 2H (Non differential 2-heater, Trip class 10A) |
| Current range       | 83(70~95A)                                     |
| Type of terminal    | Screw                                          |
| Local/Export        | Export                                         |
| Standards           | IEC 60947-4-1, IEC 60947-5-1, UL508            |
| Certificates        | CE, UL                                         |
|                     | 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 (°C)  | -5°C ~ 40°C     |
| Functions                      | Trip indicating |
|                                | Stop            |
|                                | Test            |
|                                |                 |

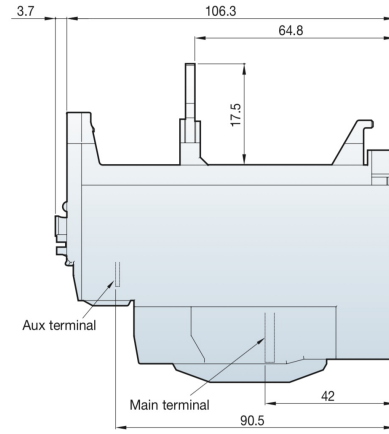
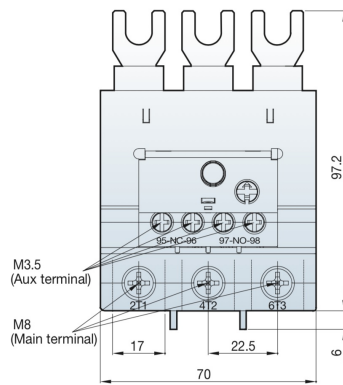
|                                            |                        |
|--------------------------------------------|------------------------|
|                                            | Manual/Automatic Reset |
| Type 2 Coordination with MCCB & TOR (440V) | See the Type 2 table   |
| Conductor size (AWG)                       | 18~3                   |
| Conductor size (mm <sup>2</sup> )          | 25~35                  |
| Conductor characteristic                   | 65/75°C Cu-wire only   |
| Main terminal size                         | M8                     |
| Torque (lb-in)                             | 53                     |
| Torque (Nm)                                | 6                      |
| Torque (kgf.cm)                            | 60.7                   |

#### Environment

|                                                             |                            |
|-------------------------------------------------------------|----------------------------|
| Degree of protection                                        | IP20                       |
| Ambient air temperature                                     | -30°C ~ +65°C at storage   |
|                                                             | -25°C ~ +60°C at operation |
| Mounting position                                           | Vertical plane             |
| Shock resistance (1/2 sin wave=11ms)                        | 15gn - 11ms                |
| Vibration resistance<br>(Conforming to IEC68-2-6) (5~300Hz) | 6G                         |
| REACH                                                       | Yes                        |
| RoHS                                                        | Yes                        |
| WEEE                                                        | Yes                        |

#### Dimensions

|             |                    |
|-------------|--------------------|
| Weight (kg) | 0.47               |
| Size width  | 70mm / 2.88inch    |
| Size height | 103.2mm / 4.25inch |
| Size depth  | 110mm / 4.53inch   |



474g

### 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 (mm <sup>2</sup> ) | 1                          |
| Conductor characteristic          | 65/75°C Cu-wire only       |

### Characteristic Curve

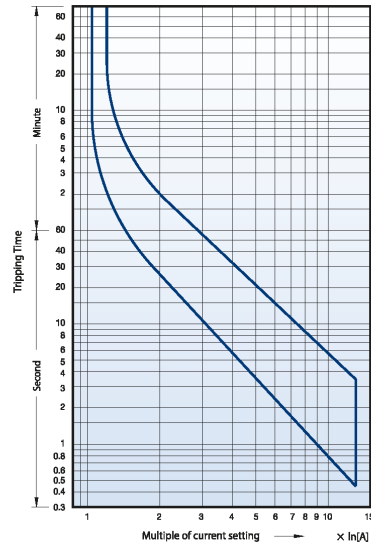
## Class 10A, 100AF

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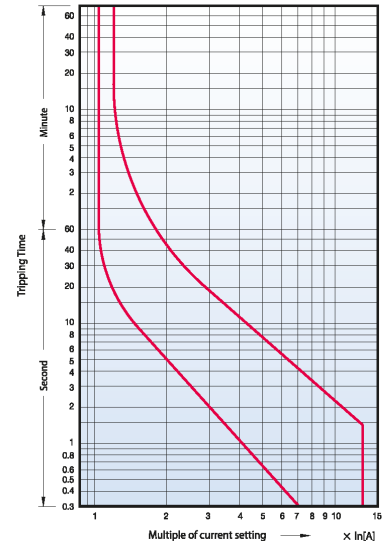
MT-95/3H

MT-95/3K

Cold starting



Hot starting



LS ELECTRIC