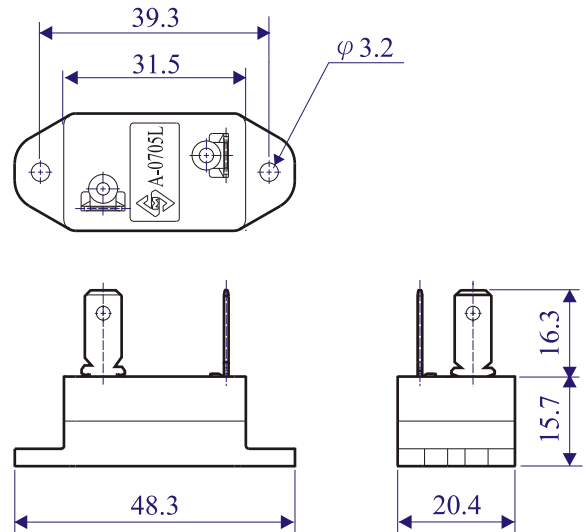




# SERIES A-0705L

Circuit Breaker | Overload Protector | No-Fuse Breaker

Sang Mao



DIMENSION IN mm

### SPECIFICATIONS:

- \* STANDARD RATING : **5 - 30 AMPERE** .
- \* INPUT POWER : **12 - 24 VDC / 125 - 250 VAC** .
- \* DIELECTRIC STRENGTH : **1800 VAC × 1 SEC** .
- \* INTERRUPT CAPACITY : **24 VDC × 100A ; 125 VAC × 500A** .
- \* RATED CONDITIONAL SHORT-CIRCUIT CURRENT : **IEC-934 "PC.1 1000A" WITH " FUSE 16A Lg 6g "**
- \* INSULATION RESISTANCE : **> 100 MΩ**
- \* CALIBRATION :
  - 5 °C (41 °F)** ➡ CARRIED **120%** OF RATED CURRENT .
  - 15 °C (59 °F)** ➡ CARRIED **105%** OF RATED CURRENT .
  - 25 °C (77 °F)** ➡ CARRIED **100%** OF RATED CURRENT .
  - ➡ CARRIED **135%** OF RATED CURRENT ➡ TRIP WITHIN **30" - 3600"** .
  - ➡ CARRIED **200%** OF RATED CURRENT ➡ TRIP WITHIN **4" - 30"** .
  - ➡ CARRIED **300%** OF RATED CURRENT ➡ TRIP WITHIN **2" - 10"** .
  - ➡ CARRIED **400%** OF RATED CURRENT ➡ TRIP WITHIN **1" - 6"** .
  - ➡ CARRIED **500%** OF RATED CURRENT ➡ TRIP WITHIN **.5" - 3"** .
  - 40 °C (104 °F)** ➡ CARRIED **80%** OF RATED CURRENT .
  - 50 °C (122 °F)** ➡ CARRIED **55%** OF RATED CURRENT .
- \* ENDURANCE CYCLES : **24 VDC × 200%** OF RATED CURRENT ➡ **1000 CYCLES** .
- \* METHOD OF OPERATION : **AUTOMATIC INTERRUPTION AND AUTOMATIC RESETTING** .
- \* **IEC - 934** METHOD OF TRIPPING : **" TO "** = **THERMAL** .
- \* REFERENCE DOCUMENTS : **SAE J553**
- \* RESET METHOD : **AUTO RESET** .

| DERATING FACTOR |               |               |
|-----------------|---------------|---------------|
| TEMP            | 5A ~ 11A      | 12A ~ 30A     |
| 50 °C           | × 0.57        | × 0.50        |
| 45 °C           | × 0.65        | × 0.60        |
| 40 °C           | × 0.82        | × 0.75        |
| 35 °C           | × 0.90        | × 0.90        |
| 30 °C           | × 0.96        | × 0.96        |
| <b>25 °C</b>    | <b>× 1.00</b> | <b>× 1.00</b> |
| 20 °C           | × 1.05        | × 1.05        |
| 15 °C           | × 1.10        | × 1.10        |
| 10 °C           | × 1.15        | × 1.15        |
| 5 °C            | × 1.20        | × 1.20        |

(FOR REFERENCE ONLY)

| MAX. INTERNAL RESISTANCE |                |
|--------------------------|----------------|
| <b>5.0A-7.0A</b>         | <b>0.120 Ω</b> |
| <b>7.1A- 10A</b>         | <b>0.100 Ω</b> |
| <b>10.1A- 12A</b>        | <b>0.075 Ω</b> |
| <b>12.1A- 14A</b>        | <b>0.050 Ω</b> |
| <b>14.1A- 16A</b>        | <b>0.030 Ω</b> |
| <b>16.1A- 20A</b>        | <b>0.025 Ω</b> |
| <b>20.1A- 25A</b>        | <b>0.020 Ω</b> |
| <b>25.1A- 30A</b>        | <b>0.015 Ω</b> |

