

# 16 Series Thermal Circuit Breaker

## Hi Amp Thermal Circuit Breaker

# KUOYUH

### Description

Hi Amp ; Single Pole  
Thermal circuit breaker

### Typical applications

Transformers, Motors, Battery chargers, Power supplies, appliances, extra low voltage systems, machinery, Power tools

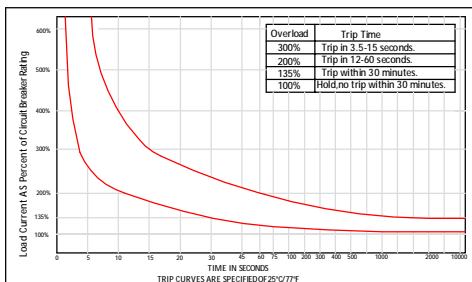
### Technical data

- Current rating range: 25-250A
- Input voltage rating: 12/24/32/48 VDC
- Interrupting Capacity: 2,000A / 32VDC. Type I  
2,000A / 14VDC. Type III  
1,500A / 48VDC. Type III
- Typical life: 1,000 operations at 150% overload.
- Dielectric Strength: > 1,500VAC/min.
- Insulation Resistance: >100MOHM (DC 500V)
- Degree of protection: Terminal area IP00, operating area IP66
- Reset-Time: <60sec
- Overload: UL / CSA: min. 50trips @ 1.5 x Ir
- Operating Temperature Rating: -30°C to 80°C
- Storage Temperature Rating: -30°C to 140°C
- Material: UL-Rated 94V-0 Thermosetting plastics body.  
Nickel-plated copper alloy stud.
- Meet SAE J1625; J1171; UL1500
- Torque rating :10 N.m (Max)
- Stud size: 1/4"-28t 25A-150A  
3/8"-16t 160A-250A

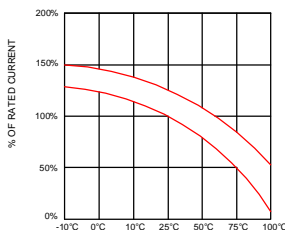
### Trip Time

- 100% of rated current: Hold, no trip within 30 minutes.
- 135% of rated current: Trip within 30 minutes.
- 200% of rated current: Trip in 12-60 seconds.
- 300% of rated current: Trip in 3.5-15 seconds.

### Trip Time Curves



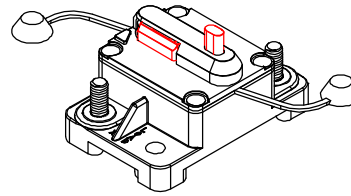
### Temperature Derating Curves



The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping, please multiply the current breaker current ratings by the derating factor shown below.

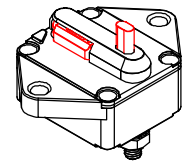
Ambient Temperature	-10°C	0°C	10°C	25°C	40°C	50°C	60°C
Multiplication Factor	1.25	1.15	1.05	1.00	0.9	0.8	0.7

### Surface Mount

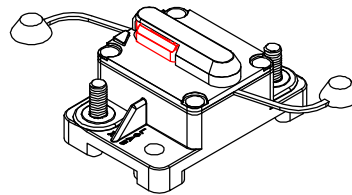


16-8F=Type III+Switch  
(Switchable/Manual)

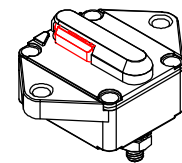
### Panel Mount



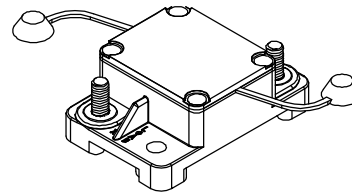
16-8P=Type III+Switch  
(Switchable/Manual)



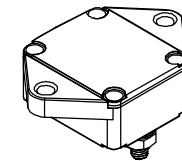
16-3F=Type III  
(Manual Reset)



16-3P=Type III  
(Manual Reset)



16-1F=Type I  
(Auto Reset)



16-1P=Type I  
(Auto Reset)

## 16- 8 F - 100- S R W

Actuation Model Fixed Model Amp Rating Size Button Color Customer code

R=Red  
Y=Yellow  
1=Button Red  
Lever Yellow  
2=Button Yellow  
Lever Red

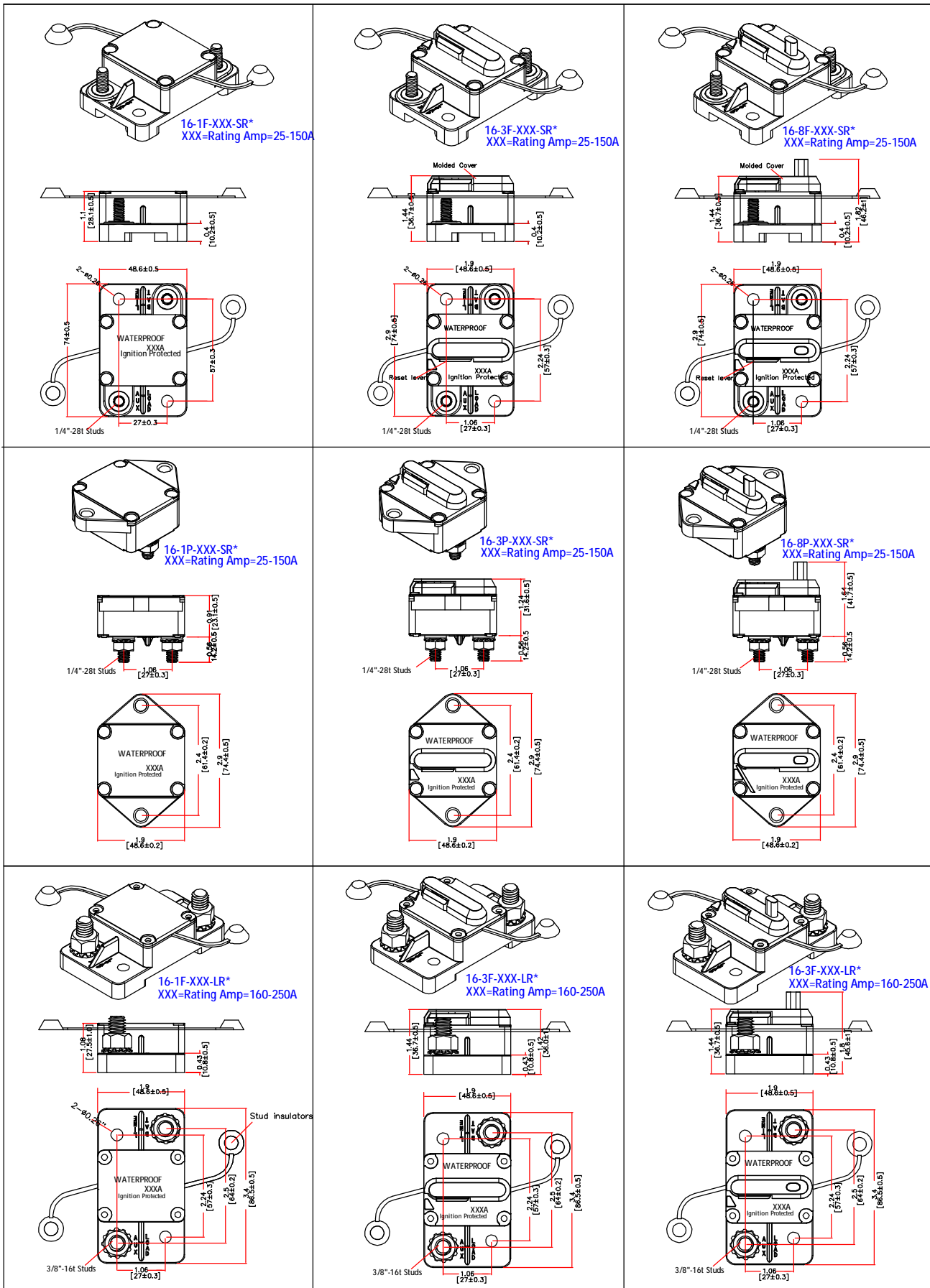
S= Small size (30A-150A)  
L= Large size (160A-250A)  
P= Panel Mount (30A-150A)

For S P size		L size
025= 25A	090= 90A	160=160A
030= 30A	100=100A	180=180A
040= 40A	110=110A	200=200A
050= 50A	120=120A	250=250A
060= 60A	130=130A	
070= 70A	140=140A	
080= 80A	150=150A	

F=Surface Mount  
(表面固定)  
P=Panel Mount  
(面板固定)

1 = Type I (Auto Reset)  
3 = Type III (Manual Reset)  
8 = Type III+Switch (witchable/Manua)

\* The specification subject to change without notice. The drawing is for reference only.



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