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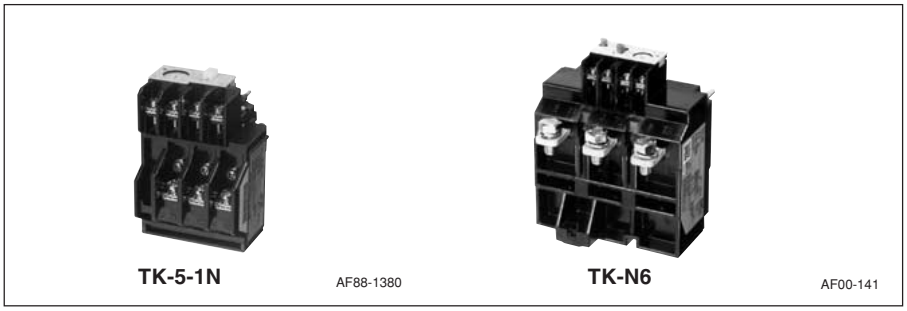
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Find the *Fuji Electric TK-0N 2.2-3.4* at our website: *Click HERE*

## Thermal overload relays with phase-loss protective device

### ■ Description

FUJI TK series consists of a 3-heater element thermal overload relay and an phase-loss protective device. These two elements are assembled to make the relay unit. The overload relay characteristics are designed to meet the thermal characteristics of a squirrel-cage motors at the time of overload. A FUJI ADL mechanism is also provided to protect from phase-loss. This ADL mechanism is incorporated with the overload relay.
The characteristics are coordinated with the temperature rise curve in stator winding at the time of motor phase-loss. They respond quickly to overloads.
Other features include the following.




A trip-free mechanism, wide-range dial ampere adjustment, manual/auto reset chageover lever, operating indicator, and ambient temperature compensators.
Types are available ranging from TK-0N to TK-N14.

### ■ Ordering information

Specify the following:
1. Ordering code
*See pages 01/98.*

### ■ Characteristics

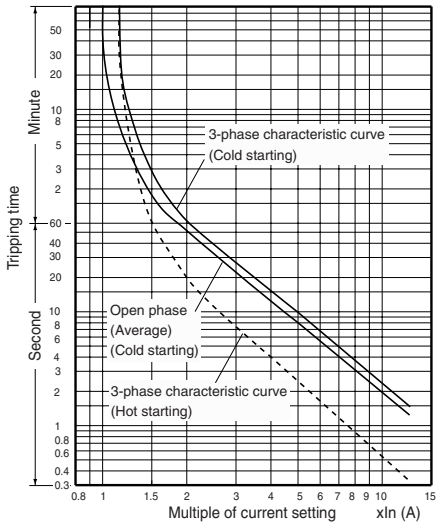
The operating characteristics of a thermal overload relays
represents its tripping time and response current starting from
cold or hot state.

**Cold starting characteristics**
In cold starting, tripping time is measured from the time when
the temperature of the thermal overload relay is equal to the
ambient temperature.

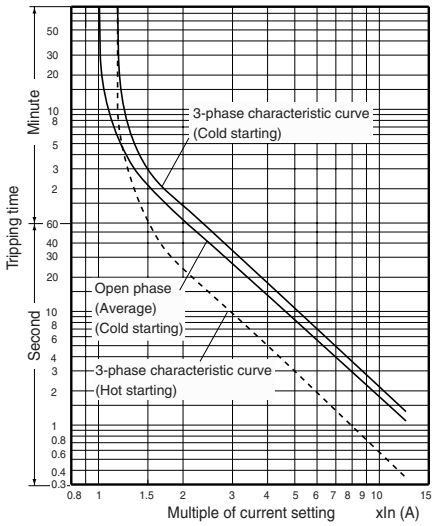
**Hot starting characteristics**
In hot starting, tripping time is measured from the time when
the thermal overload relay reaches the steady state after non-tripping current flows two hours.

| Standard | When all poles are equally energized | | | | When all poles are not equally energized | | | Ambient temp. |
|---|---|---|---|---|---|---|---|---|
| | Operating limit Non-tripping | Tripping | Overload (hot start) | Locked rotor (cold start) | Phase-loss protection | Operating limit Non-tripping | Tripping Hot start | |
| IEC 60947-4-1 | 105% Ie | 120% Ie (2h max.) | class 10A 150% Ie 2min max. | class 10A 720% Ie 2 to 10s max. | Not provided | 3-phase: 105% Ie | 2-phase: 132% Ie | 20˚C |
| | | | class 10 150% Ie 4min max. | class 10 720% Ie 4 to 10s max. | | | 1-phase: 0 2h max. | |
| | | | class 20 150% Ie 8min max.1-phase: | class 20 720% Ie 6 to 20s max. | Provided | 2-phase: 100% Ie | 2-phase: 115% Ie | |
| | | | class 30 150% Ie 12min max. | class 30 720% Ie 9 to 30s max. * | | 1-phase: 90% Ie | 1-phase: 0 2h max. | |

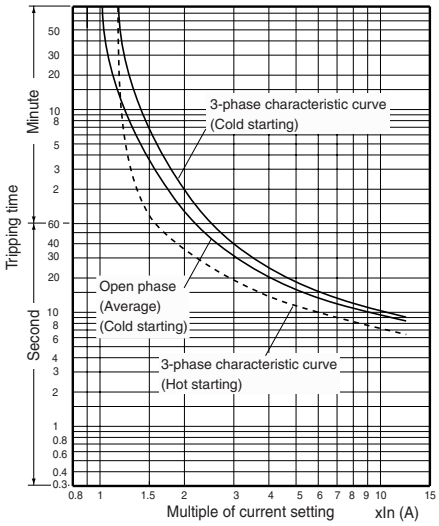
**TK-0N, 5-1N**
**TK-0NH, 5-1NH**




**TK-N2, N3, N5, N6, N7, N8**
**TK-N2H, N3H, N6H**




**TK-N10, N12, N14**
**TK-N10H, N12H, N14H**




### ■ Dimensions, mm

**TK-0N to N14 types:**
Same as standard types
*See pages 01/103, 01/104.*

### ■ Wiring diagrams

**TK-0N to N14 types:**
Same as standard 3-heater element types
*See pages 01/107.*

### ■ Ratings of auxiliary contact

Same as standard types.
*See Page 01/102.*

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