

"ORANGE LINE" THERMAL OVERLOAD RELAYS

Selection Guide

FEATURES

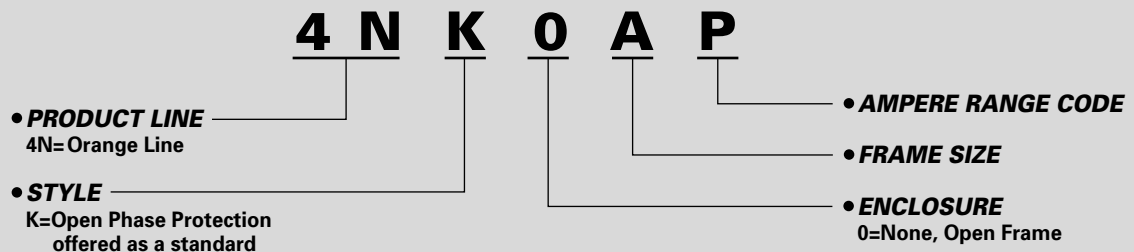
- 1NO+1NC alarm contact (Automatic reset available.)
- Provided with a built-in heater, thus ensuring accurate operations.
- Calibrated Rated Current Dial.
- With manual trip device.
- With open-phase protection device.



THERMAL OVERLOAD RELAYS UL File No.E44592 CSA File No.LR20479

Overload Part#	Adjustable Ampere Range	Used on Contactor Frames	Japanese Part Number for Overload
4NK0A A B C D E F G H J K L M N P Q S	0.1 – 0.15 0.15 – 0.24 0.24 – 0.36 0.36 – 0.54 0.48 – 0.72 0.64 – 0.96 0.8 – 1.2 0.95 – 1.45 1.4 – 2.2 1.7 – 2.6 2.2 – 3.4 2.8 – 4.2 4 – 6 5 – 8 6 – 9 7 – 11	0A, 0F, 0G	TK-0N
4NK0H A B C D E F G H J K L M N P Q S T V	0.1 – 0.15 0.15 – 0.24 0.24 – 0.36 0.36 – 0.54 0.48 – 0.72 0.64 – 0.96 0.8 – 1.2 0.95 – 1.45 1.4 – 2.2 1.7 – 2.6 2.2 – 3.4 2.8 – 4.2 4 – 6 5 – 8 6 – 9 7 – 11 9 – 13 12 – 18	0Q, 0R, 0H	TK-5-1N

EXPLANATION OF PART NUMBER SYSTEM

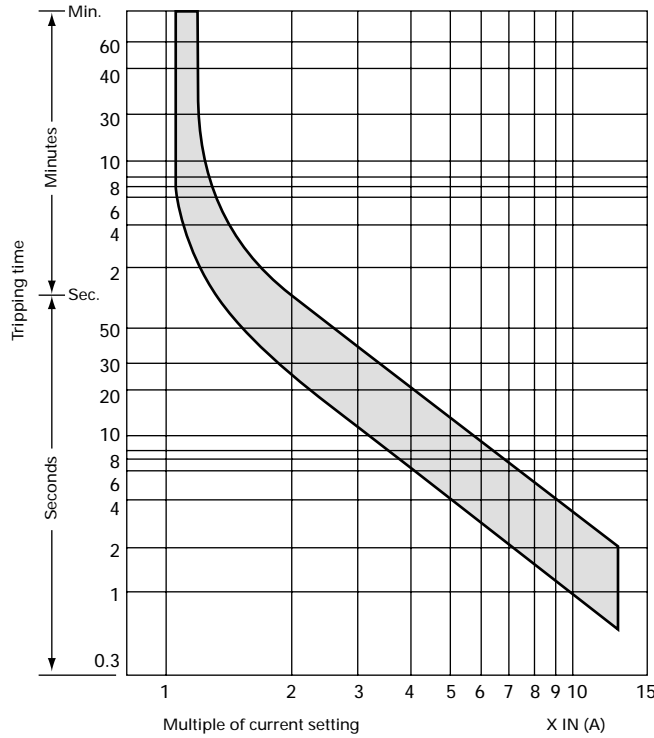


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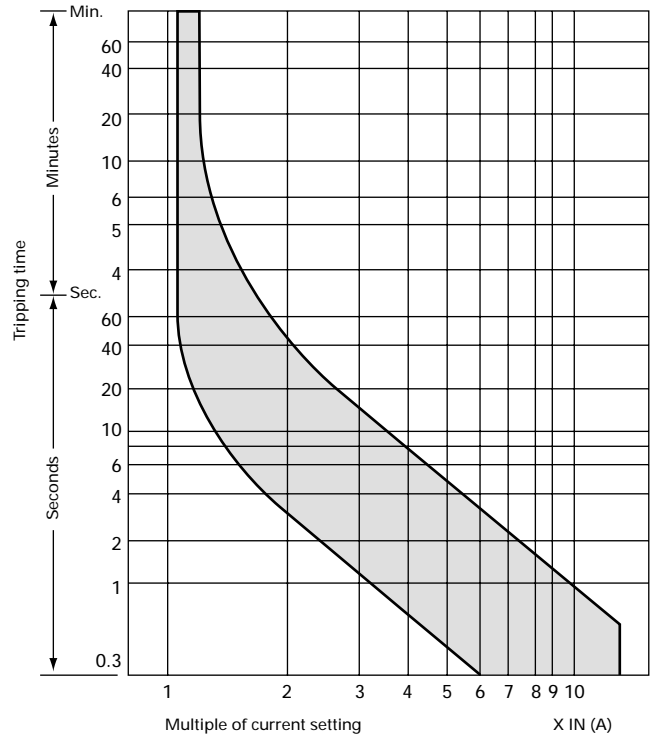
Overload Trip Curves

■ THERMAL OVERLOAD RELAYS/OPEN-PHASE PROTECTION TYPE K

Cold Start



Hot Start

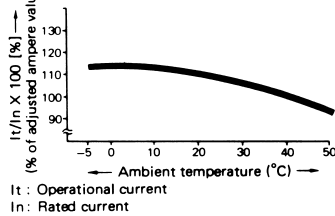


Cat. No.: 4NK0A*, 4NK0H*
FUJI type: TK-0N, TK-5-1N

■ AMBIENT TEMPERATURE COMPENSATOR

FUJI overload relays are provided with an ambient temperature compensator. Their characteristics limit ampere value changes to approx. 10% as the ambient temperature changes between -5°C and 40°C.

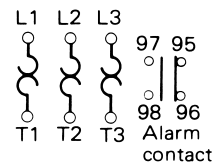
Compensation characteristics (Average value)



It: Operational current
In: Rated current

■ WIRING DIAGRAMS

(4NK0A* through 2NK4Q*)

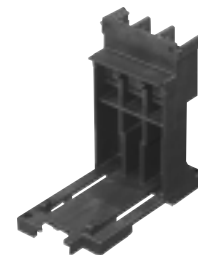


Independent mounting of Orange Line thermal overload relays is possible through the use of an additional mounting bracket.

For 4NK0A* overloads, use mounting bracket part # SZ-HB
For 4NK0H* overloads, use mounting bracket part # SZ-HC

■ ALARM CONTACT RATINGS

Contact rating Code Designation	Continuous Ampere Rating	Current-Make/Break (A)			
		110 to 120V	220 to 240V	440 to 480V	550 to 600V
C600	2.5	15/1.5	7.5/0.75	3.75/0.375	3.0/0.3



Base unit for separate mounting