

Product Category
[Power Supplies / In Addition](#)
[Measuring / Motor Protective Relays](#)
[Component Protective Components](#)
[Heater burnout detection](#)
K2CU
Product Category
[Cautions](#)
[Item A to Z Index](#)
[Correction Notice](#)

Heater Element Burnout Detector

K2CU

Accurate Detection of Heater Element Burnout Regardless of Heater Capacities


[Item list of K2CU](#)
Related Contents
[Common \(4\)](#)
[Measuring / Motor Protective Relays \(2\)](#)
[Features](#)
[Lineup](#)
[Specifications](#)
[Dimensions](#)
[Catalog](#)

last update: September 24, 2012

Ratings

Item	K2CU-F	K2CU-P
Control supply voltage	100, 110, 200, 220 VAC	100/200, 110/220 VAC
Rated frequency	50/60 Hz	
Carry current	1.25 times as large as each model's maximum operating current	2.5 A for K2CU-P0.5A-A/-B; 5A
Operating voltage range	85% to 110% of control supply voltage	
Voltage fluctuation compensation range	85% to 110% of control supply voltage	85% to 110% of control supply voltage (applicable only on models with voltage fluctuation compensation)
Operating current	4 to 10 A, 8 to 20 A, 16 to 40 A, 32 to 80 A (continuously variable)	0.25 to 0.5 A, 0.5 to 1 A, 1 to 2 A, 2 to 4 A (continuously variable)
Releasing current	105% max. of operating current	110% max. of operating current
Operate time	0.5 s max. (when current changes from 150% to 0%)	
Gate input voltage range (for models with gate input terminals)	5 to 30 VDC	---
Control output	2 A at 220 VAC, SPDT (cos Φ = 0.4)	
Power consumption	Input: 0.5 VA max. Power supply: 5 VA max.	Input: 1 VA max. Power supply: 4 VA max.

Characteristics

Setting accuracy	±7% max.
Repeat accuracy	±3% max.
Influence of temperature	±10% max. (at 20°C±30°C)
Influence of voltage	Models without voltage fluctuation compensation: ±3% max. of the value measured at the control supply voltage, on condition that the voltage fluctuation is 85% to 110% of the control supply voltage Models with voltage fluctuation compensation: ±5% max. of the logical value, on condition that the voltage fluctuation is 85% to 110% of the

Influence of frequency	control supply voltage ±5% max. (at 15% of rated frequency) (see note)
Insulation resistance	10 MΩ min. (at 500 VDC) between electric circuits and mounting panel
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min between electric circuits and mounting panel
Overcurrent	20 times of max. set value of operating current for 2 s
Vibration resistance	Destruction: 16.7 Hz, 1-mm double amplitude for 10 min each in X, Y, and Z directions
Shock resistance	Destruction: 98 m/s ² (approx. 10G)
Ambient temperature	Operating: -10°C to 55°C (with no icing)
Ambient humidity	Operating: 45% to 85%
Weight	K2CU-F: approx. 390 g; K2CU-P: approx. 300 g

Note: The logical value is an operating value within a range of 0.85 to 1.1 with a voltage fluctuation of 85% to 110%, based on the value at the control supply voltage measured as 1.

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[▲ Top of Page](#)

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