

Single-phase Overcurrent/Undercurrent Relay K8DT-AW

**Detect errors in motors and other equipment through current changes.
Monitor for overcurrents and undercurrents simultaneously with one Relay.**



- Monitor AC or DC currents with one Relay.
- Use with commercially available CTs (CT secondary side: 0 to 1 A or 0 to 5 A).
- Width of 17.5 mm to reduce space required in panels.
- Push-In Plus Terminal that reduce wiring work.

The use of cage clamps enables wiring with bare stranded wires.
Double-insertion holes for crossover wiring (all terminals).

- UL listed for easy shipping to North America.
- Models added with transistor outputs for superior contact reliability.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



Refer to *Safety Precautions* on page 10.
Refer to page 9 for commonly asked questions.


Ordering Information

Single-phase Overcurrent/Undercurrent Relay


Setting range	Power supply voltage	Output	Model
2 to 20 mA AC/DC 10 to 100 mA AC/DC 50 to 500 mA AC/DC	24 VAC/DC	Relay: SPDT contact output	K8DT-AW1CD
		Transistor	K8DT-AW1TD
	100 to 240 VAC	Relay: SPDT contact output	K8DT-AW1CA
		Transistor	K8DT-AW1TA
0.1 to 1 A AC/DC 0.5 to 5 A AC/DC	24 VAC/DC	Relay: SPDT contact output	K8DT-AW2CD
		Transistor	K8DT-AW2TD
	100 to 240 VAC	Relay: SPDT contact output	K8DT-AW2CA
		Transistor	K8DT-AW2TA
10 to 100 A AC * 20 to 200 A AC *	24 VAC/DC	Relay: SPDT contact output	K8DT-AW3CD
		Transistor	K8DT-AW3TD
	100 to 240 VAC	Relay: SPDT contact output	K8DT-AW3CA
		Transistor	K8DT-AW3TA

* The K8DT-AW3□□ is designed to be used in combination with an OMRON K8AC-CT200L Current Transformer (CT). (Direct input is not possible.)

OMRON CT

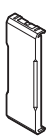
Appearance	Input range	Applicable Relay	Model
	10 to 100 A AC, 20 to 200 A AC	K8DT-AW3	K8AC-CT200L

Commercially Available CTs *

Appearance	CT current on secondary side	Applicable Relay
	0 to 1 A AC, 0 to 5 A AC	K8DT-AW2

* If you use a commercially available CT, do not exceed the overload capacity of the K8DT-AW2.

Options (Order Separately) Front Cover

Appearance	Model
	Y92A-D1A

K8DT-AW

Ratings and Specifications

Input Range

Model	Range #1	Connection terminals	Setting range	Input impedance	Input type	Overload capacity
K8DT-AW1□□	20 mA AC/DC	I1-COM	2 to 20 mA AC/DC	Approx. 5 Ω	Direct input	Continuous input at 120% of maximum input. 1 s at 150%
	100 mA AC/DC	I2-COM	10 to 100 mA AC/DC	Approx. 1 Ω		
	500 mA AC/DC	I3-COM	50 to 500 mA AC/DC	Approx. 0.2 Ω		
K8DT-AW2□□	1 A AC/DC	I1-COM	0.1 to 1 A AC/DC	Approx. 0.12 Ω (Load: 0.5 VA)	Direct input or commercially available CT	
	5 A AC/DC	I2-COM	0.5 to 5 A AC/DC	Approx. 0.02 Ω (Load: 1.5 VA)		
K8DT-AW3□□	100 A AC	I2-COM	10 to 100 A AC *2	---	OMRON CT	
	200 A AC	I3-COM	20 to 200 A AC *2	---		

*1. The range is selected using connected terminals.

*2. The K8DT-AW3 is designed to be used in combination with an OMRON K8AC-CT200L Current Transformer (CT). (Direct input is not possible.)