

NEW

OMRON

Phase-sequence/ Phase-loss Relay Fixed Asymmetry K8DS-PH1/K8AK-PH1

Easy to set, Slim 3-phase Monitoring.



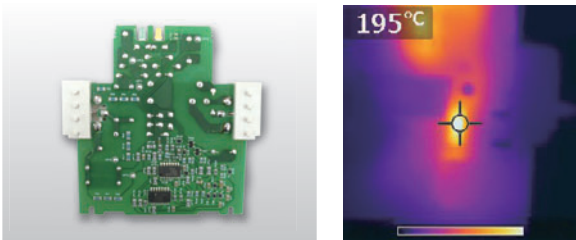
OMRON's unique reliable design that contributes to reduce maintenance cost

Reliable, Safe and Long-life

Reliable, safe operation is possible: Adoption of advanced power design technology prevents overheat caused by high-frequency noise effects. Internal electrolytic capacitor gets less deterioration because there will be no heat caused by high-frequency noise. This realized long-life and contributes to reduce your maintenance cost.

Conventional General Phase-sequence/Phase-loss Relay

Conventional General Power Design Technology (capacitor voltage-dividing system)

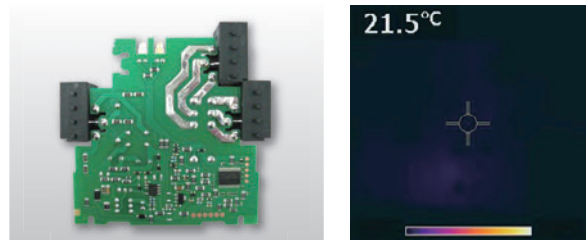


*This is a thermography from our inverter test result

Conventional general Phase-sequence/Phase-loss Relays adopt capacitor voltage-dividing circuit system. The relays get heated due to effects including inverter noise.

K8AK / K8DS

Advanced Power Design Technology (Switch Mode system)



*This is a thermography from our inverter test result

All of the models of K8AK series and K8DS-PH adopted expensive switch mode power supply system. They do not get heated due to effects including inverter noise (under a condition when 300V P-P noise is applied) for reliable and safe operation.

Standard marks



realizing

Contribute to reduce number of stock models

A single K8DS/K8AK can support industrial voltages all around the world.

Supply voltage: 200 to 480VAC (free)

Ordering Information

K8AK-PH / K8DS-PH (Phase-sequence Phase-loss Relay)

Model	Rated input voltage*	Output relays	Function	Dimensions
K8DS-PH1	200 to 480 VAC	1c x 1	Phase sequence and phase loss monitoring (*Supports phase loss detection when the motor is operating.)	17.5×80×73mm
K8AK-PH1	200 to 480 VAC	2c x 1		22.5×90×100mm

* The power supply is shared with the rated input voltage.

Ratings

Model	K8DS-PH1	K8AK-PH1
Output relays	1c x 1(NC operation)	2c x 1(NC operation)
Reversed phase and phase loss operating time	0.1 s max.	
Reset method	Automatic reset	
Indicators	Power (PWR): Green, Relay output (RY): Yellow	
Output relay ratings	Rated load Resistive load 5 A at 250 VAC 5 A at 30 VDC	
Ambient operating temperature	-20 to 60°C (with no condensation or icing)	
Mounting	Mounts to DIN Track.	

Line up of the K8AK/K8DS Series

K8AK/K8DS series has a selection of Phase-sequence/ -loss relay, Phase-asymmetry, Voltage-monitoring relay, Current-monitoring relay, Conductive level controller, and Temperature monitoring relay.

Detection function	For monitoring										
	For Three-phase					For Single-phase				Conductive level control	Temperature alarms
	K8DS-PH	K8AK-PH	K8AK-PA	K8AK-PM	K8AK-PW	K8AK-VS	K8AK-VW	K8AK-AS	K8AK-AW	K8AK-LS	K8AK-TH
Phase-sequence	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—
Phase-loss	Yes	Yes	Yes	Yes	—	—	—	—	—	—	—
Over voltage	—	—	—	Yes	Yes	Yes (Switchable)	Yes (Simultaneous Monitoring)	—	—	—	—
Under voltage	—	—	—	Yes	Yes	Yes (Switchable)	—	—	—	—	—
Phase-asymmetry	Yes (Fixed)	Yes (Fixed)	Yes (Adjust)	—	—	—	—	—	—	—	—
Over current	—	—	—	—	—	—	—	Yes (Switchable)	Yes (Simultaneous Monitoring)	—	—
Under current	—	—	—	—	—	—	—	Yes (Switchable)	—	—	—
Liquid level	—	—	—	—	—	—	—	—	—	Yes	—
Temperature alarms	—	—	—	—	—	—	—	—	—	—	Yes
Output relay	1c	2c	1c	1c×2	1c×2	1c	1c×2	1c	1c×2	1c	1c

*For details, refer to the K8AK/K8DS Series datasheet (Cat. No. N172-E1-02).

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