

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and rounded, with the 'O' being a simple circle. The entire logo is set against a light yellow rectangular background.

Automatización Eléctrica
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3-phase sequence, phase loss relay

The K8AB-PH1 monitoring relay is designed to monitor 3-phase 3-wire supplies. It simultaneously monitors phase sequence and phase loss during start up as well as phase loss during operation. The output relay releases when alarm conditions are detected, and the warning status can easily be monitored using the LED indicator. Suitable for industrial facilities and equipment.

- Monitors phase sequence and phase-loss simultaneously
- Measuring range: 200 to 500 VAC
- Power supply voltage is the same as measuring voltage
- Operation reaction time: 0.1 s maximum

Ordering information

Rated input voltage	Order code
200 to 500 VAC	K8AB-PH1

Specifications

Ambient operating temperature	-20 to 60°C (with no condensation or icing)	
Storage temperature	-40 to 70°C (with no condensation or icing)	
Altitude	2,000 m max.	
Input frequency	50/60 Hz \pm 5 Hz (AC power supply)	
Output relays	Resistive load	6 A at 250 VAC ($\cos\phi = 1$), 6 A at 30 VDC (L/R = 0 ms)
	Inductive load	1 A at 250 VAC ($\cos\phi = 0.4$), 1 A at 30 VDC (L/R = 7 ms)
	Minimum load	10 mA at 5 VDC
	Maximum contact voltage	250 VAC
	Maximum contact current	6 A AC
	Maximum switching capacity	1,500 VA
	Mechanical life	10,000,000 operations
Electrical life	Make: 50,000 times, break: 30,000 times	
Terminal screw tightening torque	0.54 N·m	
Degree of protection	Finger protection	
Case colour	Munsell 5Y8/1 (ivory)	
Case material	ABS resin (self-extinguishing resin) UL94-V0	
Weight	110 g	
Mounting	Mounted to DIN-rail or via M4 screws (tightening torque: 1.2 N·m)	
Rated input voltage	Three-phase, three-wire mode, 200 to 500 VAC	
Reversed phase and phase loss operating time	0.1 s max.	
Resetting method	Automatic reset	
Input frequency range	45 to 65 Hz	
Overload capacity	Continuous input: 115% of maximum input, 10 s max.: 125% of maximum input	
Fixed Phase Asymmetry Monitoring	Output relay releases when one phase-phase voltage drops below 80% of the other phase-phase voltage	
Indicators	Power (PWR): Green LED, relay output (RY): Yellow LED	
Output relays	One SPDT relay (6 A at 250 VAC, resistive load)	
Size in mm (HxWxD)	90x22.5x100	



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