

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and closely spaced, with a consistent blue color throughout.

Automatización Eléctrica
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)



3-phase voltage relay

Monitors overvoltages and undervoltages for 3-phase 3-wire or 4-wire power supplies, in one unit. Switch setting for 3-phase 3-wire or 3-phase 4-wire power supply.

- Overvoltages or undervoltages: Operation time setting from 0.1 to 30 s
- Relay warning status can easily be monitored using the LED indicator
- Separate outputs possible for overvoltages and undervoltages
- Reset method: Automatic
- Power ON lock: 1 s or 5 s

Ordering information

Rated input		Order code
3-phase 3-wire mode	200, 220, 230, 240 VAC	K8AB-PW1
3-phase 4-wire mode	115, 127, 133, 138 VAC	
3-phase 3-wire mode	380, 400, 415, 480 VAC	K8AB-PW2
3-phase 4-wire mode	220, 230, 240, 277 VAC	

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.
Voltage fluctuation rang		85 to 110% of rated input voltage
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
Crimp terminals		Two solid wires of 2.5 mm ² , two crimp terminals of 1.5 mm ² with insulation sleeves, can be tightened together
Degree of protection		Terminal section: IP20, rear case: IP40
Case colour		Munsell 5Y8/1 (ivory)
Case material		ABS resin (self-extinguishing resin) UL94-V0
Weight		200 g
Rated input voltage	K8AB-PW1	3-phase, 3-wire mode: 200, 220, 230, 240 VAC, 3-phase, 4-wire mode: 115, 127, 133, 138 VAC
	K8AB-PW2	3-phase, 3-wire mode: 380, 400, 415, 480 VAC, 3-phase, 4-wire mode: 220, 230, 240, 277 VAC
Operation (overvoltage and undervoltage)	Operating value setting range	Overvoltage = -30 to 25% of maximum rated input voltage ^{*1} Undervoltage = -30 to 25% of maximum rated input voltage ^{*1}
	Operating value	100% operation at set value
Reset (HYS.)	Hysteresis	5% of operating value (fixed)
	Resetting method	Automatic reset
Operating time (T)	Overvoltage/undervoltage	0.1 to 30 s (value when input rapidly changes from 0 to 120%)
Power ON lock (LOCK)		1 s or 5 s (value when input rapidly changes from 0 to 100%. The operating time is the shortest at this point)
Setting accuracy		\pm 10% of full scale
Time error		\pm 10% of set value (minimum error: 50 ms)
Input frequency		45 to 65 Hz
Input impedance		100 k Ω min.
Indicators		Power (PWR): Green LED, relay output (RY): Yellow LED, alarm outputs (ALM 1/2): Red LED
Output relays		Two SPDT relays (6 A at 250 VAC, resistive load), normally closed operation (normally ON) (separate outputs possible for overvoltages and undervoltages)
Size in mm (HxWxD)		90x22.5x100

^{*1} The rated input voltage is switched with a switch



Automatización Eléctrica
Especialistas en Automatización

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
Output unit, 8x transistor outputs, PNP, 0.5A, 24 VDC, screw terminal	103466		Buy on EAN