

OMRON Controllers and Monitoring Relays



RoHS Compliant This page of product is compliant.

OMRON K8AB-PH SERIES: THREE-PHASE, SEQUENCE AND LOSS MONITORING RELAYS

Specifications:

- Input load: 15VA max.
- Reset method: Automatic reset
- Output relays: 1 SPDT relay (NC operation)
- Mounting: DIN track or via M4 screws
- Dimensions: 22.5 x 90.0 x 100.0mm (W x H x D)

Features:

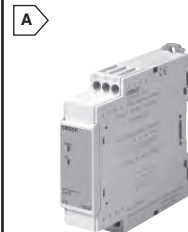
- Prevents reverse motor rotation due to incorrect wiring
- Distinguishes between positive phases, reversed phases, and phase loss when power is turned ON
- Voltage detection method enables application for any load current
- Output status can be monitored using LED indicator



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Input Voltage	Price Each		
				1	5	10
653-K8AB-PH1	K8AB-PH1	A	Three-phase, three-wire mode, 200 to 500VAC	43.90	42.19	40.30

DIMENSIONS: mm



OMRON K8AB-PW SERIES: THREE-PHASE VOLTAGE RELAYS

Specifications:

- Input load: 45VA max.
- Reset method: Automatic reset
- Output relays: 2 SPDT relays (NC operation)
- Mounting: DIN track or via M4 screws
- Dimensions: 22.5 x 90.0 x 100.0mm (W x H x D)

Features:

- Ideal for monitoring 3-phase power supplies for industrial equipment
- Monitors over and undervoltages for 3-phase, 3 or 4-wire power supplies
- DIP switch setting for 3-phase/3-wire or 3-phase/4-wire power supplies
- Simultaneous upper and lower monitoring
- Separate outputs possible for over and undervoltages



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MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Input Voltage	Price Each		
				1	5	10
653-K8AB-PW2	K8AB-PW2	B	Three-phase, three-wire mode 380, 400, 415, 480VAC Three-phase, four-wire mode 220, 230, 240, 277VAC	96.78	93.75	89.56



OMRON K8AB-TH SERIES: TEMPERATURE MONITORING RELAYS

Specifications:

- Output form: 1 SPDT relay
- Power consumption: 100-240VAC
100-240VAC 50/60Hz: 5VA max.
24VAC 50/60Hz: 4VA max.
24VDC: 2W max.
- Dimensions: 22.5 x 90.0 x 100.0mm (W x H x D)

Features:

- Compact and slim design
- Ideal for temperature monitoring and alarms
- Prevents excessive increases and monitors abnormal temperatures
- Simple function settings using DIP switch
- Selectable output relay with non-fail safe or fail safe
- Alarm status identification with LED indicator



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MOUSER STOCK NO.	Omron Part No.	Fig.	Supply Voltage	Input Type	Setting Unit	Temperature Setting Range	Price Each		
							1	5	10
653-K8ABTH11S100240	K8AB-TH11S AC100-240	C	100 to 240VAC	Thermocouple/PT100	1°C/F	0 to 399°C/F	147.27	142.11	135.00
653-K8AB-TH12SACDC24	K8AB-TH12S AC/DC24	C	24VAC/VDC	Thermocouple	10°C/F	0 to 1700°C/0 to 3200°F	130.65	120.90	112.50



OMRON E5CSV SERIES: 1/16 DIN SIZE DIGITAL TEMPERATURE CONTROLLERS

Specifications:

- Number of alarms: 1
- Power supply voltage: 100-240VAC
- Power consumption: 5VA
- Control output rating:
Relay output: SPST-NO, 250VAC, 3A
Voltage output for driving SSR: 12VDC, 21mA
- Dimensions: 48.0 x 48.0 x 78.0mm (W x H x D)

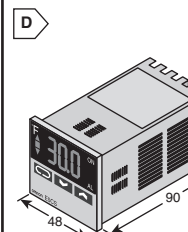
Features:

- Simple to set and operate
- Clearly visible digital display with character height of 13.5mm
- Deviation indicator makes monitoring more effective
- Setting change protection prohibits tampering
- 8-mode alarm output and sensor error detection
- Accuracy ±0.5% of value
- Water-resistant front panel rated NEMA 4X/IP66



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MOUSER STOCK NO.	Omron Part No.	Fig.	Output Type	Input Type	Case Color	Price Each		
						1	2	5
653-E5CSV1PWA100240	E5CSV-R1P-W AC100-240	D	Platinum resistance thermometer	Relay	Light gray	244.86	228.75	221.50
653-E5CSV1KJWAC1002	E5CSV-R1K-JW AC100-240	D	Thermocouple	Relay	Light gray	234.87	213.53	195.73
* 653-E5CSV1TFAC100	E5CSV-R1TF-AC100-240	D	Thermocouple/platinum resistance thermometer (multi-input)	Relay	Black	234.87	213.53	195.73
* 653-E5CSVQ1TFAC	E5CSV-Q1T-F AC100-240	D	Thermocouple/platinum resistance thermometer (multi-input)	Voltage for driving SSR	Black	234.87	213.53	195.73



OMRON E5C2 SERIES: ANALOG-SET TEMPERATURE CONTROLLERS

Specifications:

- Power consumption: Approximately 3VA
- Control output rating:
Relay output: SPDT, 250VAC, 3A
- Overall dimensions: 48 x 48mm

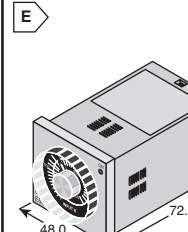
Features:

- Compact and low-cost
- Incorporates proportional control and reset adjustment function
- Consecutive mounting possible using mounting adapter
- Plug-in socket makes DIN track and flush mounting possible



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MOUSER STOCK NO.	Omron Part No.	Fig.	Input Thermocouple	Power Supply Voltage	Control Method	Price Each		
						1	2	5
653-E5C2R20J	E5C2-R20J-0-200C-32-392F-AC120	E	J-Type	100-120VAC	ON-OFF	159.35	155.22	151.10
653-E5C2R40J	E5C2-R40J-0-200C-32-392F-AC120	E	J-Type	100-120VAC	Proportional	137.99	125.46	115.00
653-E5C2R20K240	E5C2-R20K-32/1112F-AC240	E	K-Type	200-240VAC	ON-OFF	159.35	155.22	151.10



OMRON E5GN SERIES: BASIC-TYPE DIGITAL TEMPERATURE CONTROLLERS

Specifications:

- Control mode: Standard or heating/cooling
- Number of auxiliary outputs: 1
- Input type: Universal thermocouple/platinum resistance thermometer input
- Terminal type: With screw terminal blocks
- Case color: Black
- Overall dimensions: 48 x 35mm
- Panel display dimensions: 48 x 24mm

Features:

- Indication accuracy: Thermocouple input ±0.3% of PV
Pt input: ±0.2% of PV
Analog input: ±0.2% FS
- Switch the PV display between three colors
- Eleven-segment displays
- A status display function can be set to alternate between displaying the status (auto/manual, RUN/STOP, and alarms) of controller and the PV or SV



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MOUSER STOCK NO.	Omron Part No.	Fig.	Power Supply Voltage	Control Output	Price Each		
					1	10	25
653-E5GN-R1TDACDC24	E5GN-R1TD ACDC24	F	24VAC/DC	Relay	297.58	290.96	280.92
653-E5GN-Q1TDACDC24	E5GN-Q1TD AC/DC24	F	24VAC/DC	Voltage for driving SSR	297.58	280.92	270.89
653-E5GN-R1TAC100240	E5GN-R1T AC100-240	F	100-240VAC	Relay	213.47	184.47	203.20
653-E5GNQ1TAC100240	E5GN-Q1T-AC100-240	F	100-240VAC	Voltage for driving SSR	280.92	256.84	249.80
* 653-E5GNQ103TFLKAC12	E5GN-Q103T-FLK AC100-240	F	100-240VAC	Voltage for driving SSR	339.24	308.81	293.30

