EOCR, EUCR

Current monitoring relay with 2 current inputs
DIN Rail mounting according to DIN 43 880

Type: EOCR-AR-… / … V (Over current), EUCR-BR-… / … V (Under current)
AC current monitoring relay for 1 or 3 phase lines, 1 change over alarm contact 3 A / 250 V
Integrated current transformer coupling system, 6 A, 30 A, 60 A types

Monitoring function

The EOCR-AR and the EUCR-BR monitor over-current and undercurrent on AC power circuits. One or two current paths can be monitored directly up to 60 (75) A, by means of the integrated current loop transformers. The adjustable alarm delay (t0) and the automatic alarm resetting (tR) permit universal usage in motor and transformer protection systems, monitoring of electrical heating elements and in the control of pumps, ventilation systems, suction and feed devices.

Measuring circuit data

- Setting ranges: 0.5 … 6 A / 3 … 30 A / 5 … 60 A
- Frequency range: 48 … 62 Hz
- Accuracy: 2.5 %
- Hysteresis: 3 % from set value
- Max. continuous current: 60 A / 90 A / 120 A
- Peak current (1 sec): 3 kA / 5 kA / 5 kA

Time data

- Alarm delay time adjustment range: 0.3 … 30 s
- Reset time adjustment range: 0.5 … 150 s
- Response time, power on, on A1: 80 … 150 ms

Contacts

- Type / Material: 1 CO, micro disconnection / AgNi
- Rated operational current: 3 A
- Max. switching voltage, AC-1: 250 V
- Max. AC load: 750 VA
- Max. DC load: 90 W

Power supply

- Nominal voltage (UC = AC/DC)
  - UC 24 V: 19 … 30
  - AC 115 V: 88 … 130
  - AC 230 V: 184 … 264
- Operation voltage range [V]: 1.5
- Power consumption [W]: 50 / 60
- Frequency [Hz]: 50 / 60

Insulation

- Test voltage between contacts and supply inp.: 2 kVrms 1 minute
- Test voltage between curr. transf. and other circuits: 4 kVrms 1 minute

General specifications

- Ambient temperature storage /operation: -25 … 85 °C / -20 … 60 °C
- Ingress protection degree: Housing: IP 40, terminals: IP 20
- Max. screw torque: 0.8 Nm
- Weight: 120 g

Standard types

Current [x] 05/30/60

<table>
<thead>
<tr>
<th>Over current</th>
<th>Under current</th>
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<tbody>
<tr>
<td>EOCR-AR-x/UC24V</td>
<td>EUCR-BR-x/UC24V</td>
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<tr>
<td>EOCR-AR-x/AC115V</td>
<td>EUCR-BR-x/AC115V</td>
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<tr>
<td>EOCR-AR-x/AC230V</td>
<td>EUCR-BR-x/AC230V</td>
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</tbody>
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Accessories

Current transformer for expanded current values, 50, 100, 250, 500 A
SRCT-35-…/5A

Technical approvals, conformities

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.