

> EIL

> Monitoring Relays

> Current Monitoring Relays

> 24 VDC / 24 VAC / 48 VAC / 120 VAC / 220 VAC

- > Current transformer fitted by passing a cable through the front
- > AC current threshold adjustable from 1 to 20 A AC (30 Hz to 400 Hz) via button on front
- > Relay output 5 A - 250 V AC - 1 N/O contact
- > Multivoltage power supply : 100 to 230 V AC 50-60 Hz
- > 24 V AC / DC



| Specifications | | |
|-------------------|----------------|----------|
| Measurement range | Supply voltage | Code |
| 2 →500 mA | 24 V DC | 84871020 |
| 2 →500 mA | 24 V AC | 84871021 |
| 2 →500 mA | 48 V AC | 84871022 |
| 2 →500 mA | 120 V AC | 84871023 |
| 2 →500 mA | 230 V AC | 84871024 |

| Supply | |
|--------------------------------|---|
| Supply voltage Un | 24 VDC / 24 VAC / 48 VAC / 120 VAC / 220 VAC |
| Voltage supply tolerance | -15 % / +15 % limited to -15 % / +10 % if products are mounted without space between them |
| Operating range | 0.85 →1.15 Un |
| Power consumption at Un | 3 VA AC 1 W DC |
| Immunity from micro power cuts | 10 ms |

| Inputs and measuring circuit | |
|--|------------------------------------|
| Frequency of measured signal | 40 →500 Hz |
| Threshold adjustment | 10 →100 % of the measurement range |
| Adjustable hysteresis | 5 →50 % of the displayed threshold |
| Display precision | ± 10 % |
| Repetition accuracy with constant parameters | ± 0.1 % |
| Measuring error with voltage drift | ± 0,1 % (± 10 % Un) |
| Measuring error with temperature drift | ± 0,02 % |

| Timing | |
|--|--------------------|
| Delays on power up (Ti) | 0.1 s →20 s ± 10 % |
| Delay on threshold crossing Tt | 0.1 s →3 s ± 10 % |
| Repetition accuracy with constant parameters | ± 0.1 % |
| Reset time | 500 ms |
| Delay on pick-up | 500 ms |

| Output | |
|---|--|
| Type of output | 1 changeover AgNi, 8A AC max |
| Type of contacts | No cadmium |
| Maximum breaking voltage | 250 V AC/DC |
| Max. breaking current | 8 AAC max. |
| Min. breaking current | 100 mA AC/DC |
| Electrical life (number of operations) | AC 12 : 2000 VA - 10□ AC 15 : Cos φ = 0,3 - 6000 DC 13 : L/R = 300 ms - 6000 |
| Breaking capacity (V resistive) | 2000 VA AC |
| Maximum rate | 360 operations/hour at full load |
| Operating categories acc. to IEC/EN 60947-5-1 | AC12, AC15, DC13 |
| Mechanical life (operations) | 5 x 10□ |

| Insulation | |
|--|--|
| Insulation coordination (IEC/EN 60664-1) | Overvoltage category III : degree of pollution 2 |
| Rated impulse withstand voltage (IEC/EN 60664-1) | 4 kV (1,2 / 50 μs) |
| Dielectric strength (IEC/EN 60664-1) | 2,5 kV AC 50 Hz 1 min. |
| Insulation resistance (IEC/EN 60664-1) | > 100 MOhm(s) / 500 VDC |

| General characteristics | |
|---|---|
| Display power supply | Green LED |
| Display relay | Yellow LED |
| Casing | 22,5 mm |
| Mounting | On 35 mm symmetrical DIN rail, IEC/EN 60715 |
| Mounting position | All positions |
| Material : enclosure plastic type VO to UL94 standard | Enclosure plastic type VO to UL94 standard |
| Protection (IEC/EN 60529) | Terminal block : IP 20 Casing : IP 50 |
| Weight | 140 g |
| Connecting capacity IEC/EN 60947-1 | Rigid : 1 x 4 ² - 2 x 2.5 ² mm ² 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules : 1 x 2.5 ² - 2 x 1.5 ² mm ² 1 x 14 AWG - 2 x 16 AWG |
| Max. tightening torques IEC/EN 60947-1 | 0,6 mN / 5,3 Lbf.In |
| Operating temperature IEC/EN 60068-2 | -20 → +50 |
| Storage temperature IEC/EN 60068-2 | -30 → +70 |
| Humidity IEC/EN 60068-2-30 | 93 % RH max. without condensation |
| Vibrations according to IEC/EN60068-2-6 | 10 → 55 Hz, A = 0,35 mm |

| Standards | |
|--|--|
| Product standard | IEC/EN 60255-1 |
| Electromagnetic compatibility (EMC) | IEC/EN 61000-6-1, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 61000-6-4 |
| Certifications | UL, CSA |
| Marking | CE (DBT) 2006/95/EC - EMC 2004/108/EC |
| Conformity with environmental directives | RoHS |

Dimensions

EIL / EIH / EIT

Curves

Connections

EIL / EIH