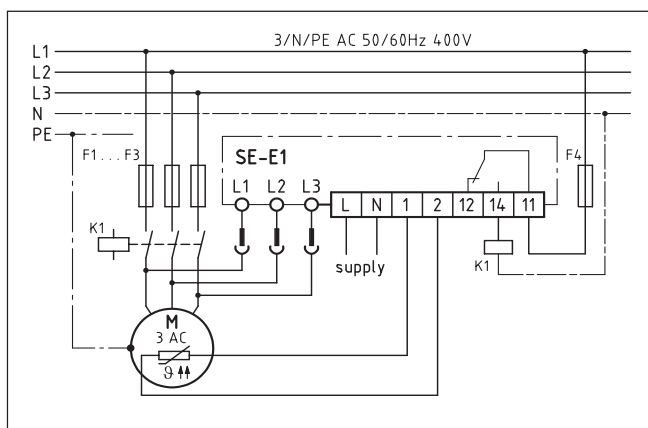


SE-E1 Motor protector

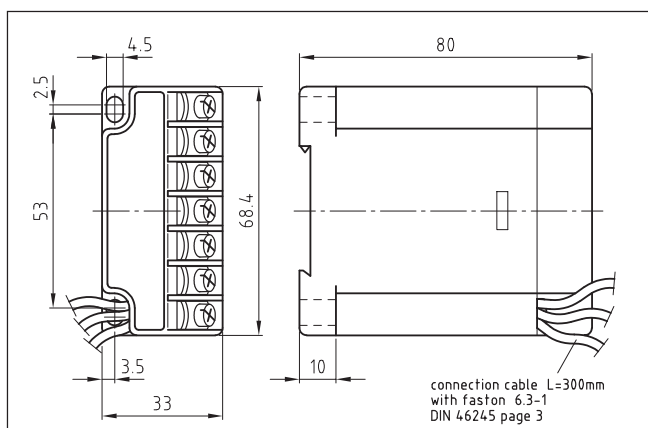
Dual voltage and AC 24V



SE-E1



Connection diagram



Dimensions in mm

Application:

The motor protector SE-E1 device is especially developed for applications with motor tem-

perature, phase sequence and missing phase monitoring functions.



The unit must be connected by trained electrical personnel. All valid standards for connecting electrical equipment must be observed. Maximum values for supply voltage of this

unit may not be exceeded. Protect the complete installation by a suitable dimensional design and install an isolating switch. If the device is opened, all claims for warranty expire.

Functional description:

- 1...9 PTC thermistors (DIN 44081/082) can be connected in series to the thermistor input terminals (1/2) to monitor several temperature limits. If any thermistor exceeds its response temperature, its resistance increases above trip level and the output relay locks out.
- Phase sequence and missing phase monitoring functions are active during a 5s window after compressor start.
- After the tenth missing phase trip within a 24 hour periode the SE-E1 locks out.
- In case of three trips on missing phase within 12min the SE-E1 also locks out.
- The lockout can be cancelled by mains reset for 5s.
- The relay is fed out as a dry change-over contact. Under good conditions the relay is pulled in.
- Sensor, supply and mains circuits are galvanically isolated.

Technical data

Supply

- dual voltage

AC 50/60Hz 115/230V

-15...+10% 3VA

- or

AC 50/60Hz 24V

-15...+10% 3VA

Ambient temperature range

-30...+60°C

Temperature monitoring

- Type

PTC acc. to DIN 44081/082

- Number of sensors

1...9 in series

- $R_{25, \text{total}}$

< 1.8kΩ

- R_{trip}

11.4kΩ ± 20%

- R_{reset}

2.95kΩ ± 20%

After cool down

- Reset

mains interrupt for 5s

Phase monitoring

3 AC 50/60Hz 200...632V
active for 5s after compressor start

After response

of phase monitoring

- Phase sequence

lockout

- Phase missing

automatic reset after 6min ± 1min
On the tenth trip within 24h or third trip within 12min → lockout

- Reset / cancel lockout

mains interrupt for 5s

Relay

AC 240V, max. 2.5A, C300

Mechanical service life

approx. 1 mio. switching cycles

Protection class

IP00

Approval

UL File No. E75899

Connection

6.3mm connectors and screw terminals

Housing

PA66 GF25

Mounting

snap-on 35mm standard rail acc. to EN 50022 or screw-mounted

Dimensions

68.4 x 33 x 80mm

Weight

approx. 200g

Ordering information

SE-E1 dual voltage

22 A 285

SE-E1 AC 24V

31 A 285

Subject to technical modifications without notice