

## Monitoring relay - EMD-BL-PTC - 2906252

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Temperature monitoring of the motor winding (maximum 6 PTCs) for temperature sensors according to DIN 44081 and DIN 44082 with short-circuit monitoring of the thermistor circuit, with screw connection.

### Product Description

Safety and system availability requirements are constantly on the increase – across all industries. Processes are becoming more and more complex, not only in machine building and the chemical industry but also in building technology. The demands placed on energy technology are also constantly on the rise.

It is only by continuously monitoring key network and system parameters that error-free and therefore cost-effective operation can be achieved. Electronic monitoring relays from the EMD series are available for a wide range of monitoring tasks so that the consequences of errors can be avoided or kept within limits.

The operating states are signaled via color LEDs and any errors that occur can be sent to a controller via a floating contact or can shut down a section of the system. All device versions are equipped with response delays so that measured values outside the set monitoring range can be briefly tolerated.



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 055626 053738 |
| GTIN                                 | 4055626053738                                                                                           |
| Weight per Piece (excluding packing) | 83.500 g                                                                                                |
| Custom tariff number                 | 85364900                                                                                                |
| Country of origin                    | Austria                                                                                                 |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 17.5 mm |
| Height | 88 mm   |
| Depth  | 65.5 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -25 °C ... 55 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

# Monitoring relay - EMD-BL-PTC - 2906252

## Technical data

### Input data

|                                 |                                |
|---------------------------------|--------------------------------|
| Maximum temperature coefficient | < 0.05 %/K                     |
| Function                        | Winding temperature monitoring |
| Basic accuracy                  | ± 10 % (of scale end value)    |
| Total cold resistance           | ≤ 1.5 kΩ                       |
| Response value                  | ≥ 3.6 kΩ (Relay drops out)     |
| Release value                   | ≤ 1.6 kΩ (Relay picks up)      |
| Short-circuit detection         | < 20 Ω                         |
| Recovery time                   | > 300 ms                       |

### Contact side

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Contact type                          | 1 floating PDT                        |
| Maximum switching voltage             | 250 V AC (in acc. with IEC 60947-5-1) |
| Interrupting rating (ohmic load) max. | 1250 VA (5 A / 250 V AC)              |
| Output fuse                           | 5 A (fast-blow)                       |

### Power supply

|                      |                            |
|----------------------|----------------------------|
| Supply voltage       | 230 V AC (-15 % ... +10 %) |
| Supply voltage range | 195.5 V AC ... 253 V AC    |

### General

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Mechanical service life       | 15 x 10 <sup>6</sup> cycles                            |
| Operating mode                | 100% operating factor                                  |
| Mounting position             | any                                                    |
| Assembly instructions         | on standard DIN rail NS 35 in accordance with EN 60715 |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU              |
| Overvoltage category          | III (IEC 60947-5-1)                                    |
| Housing insulation material   | Polyamide PA 6.6, self-extinguishing                   |
| Color                         | gray                                                   |
| Conformance                   | CE-compliant                                           |

### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section solid min.    | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 14                  |
| Stripping length                      | 8 mm                |
| Connection method                     | Screw connection    |

### Standards and Regulations

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission                | EN 61000-6-3                              |

## Monitoring relay - EMD-BL-PTC - 2906252

### Technical data

#### Standards and Regulations

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Noise immunity        | EN 61000-6-2                                                                                                    |
| Low Voltage Directive | Conformance with Low Voltage Directive 2006/95/EC (valid until 2016-04-19) / 2014/35/EU (valid from 2016-04-20) |
| Conformance           | CE-compliant                                                                                                    |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371810 |
| eCl@ss 5.1 | 27371810 |
| eCl@ss 6.0 | 27371810 |
| eCl@ss 7.0 | 27371810 |
| eCl@ss 8.0 | 27371810 |
| eCl@ss 9.0 | 27371810 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001446 |
| ETIM 3.0 | EC001446 |
| ETIM 4.0 | EC001446 |
| ETIM 5.0 | EC002568 |
| ETIM 6.0 | EC001446 |

### Approvals

#### Approvals

#### Approvals

#### EAC

#### Ex Approvals

#### Approval details

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01082 |
|-----|-------------------------------------------------------------------------------------|--------------------------|