

# EMG 90-DIO 17E - Diode block

2954895

<https://www.phoenixcontact.com/us/products/2954895>

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Diode module, with 17 diodes, individually wired, diode type 1N 4007

## Your advantages

- Electrical decoupling of messages in fault reporting systems
- Spark-suppression diodes for limiting surge voltages of inductive loads

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2954895       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C440          |
| Product key                          | DK66M1        |
| GTIN                                 | 4017918085179 |
| Weight per piece (including packing) | 166.34 g      |
| Weight per piece (excluding packing) | 166.34 g      |
| Customs tariff number                | 85411000      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | Diode module |
|--------------|--------------|

### Insulation characteristics

|                  |   |
|------------------|---|
| Pollution degree | 2 |
|------------------|---|

### Input data

#### Diode

|                                    |   |
|------------------------------------|---|
| Description of the input           | 17 diodes, individually connected                           |
| Diode type                         | 1 N 4007  |
| Max. operating voltage $U_{max}$   | 250 V AC  |
| Peak reverse voltage per diode     | 1300 V  |
| Reverse current per diode          | 5 $\mu$ A   |
| Conducting state voltage per diode | approx. 0.8 V   |
| Conducting state current per diode | 0.7 A (with single load)<br>0.5 A (with simultaneous loads) |

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 12                                   |

### Dimensions

|        |       |
|--------|-------|
| Width  | 90 mm |
| Height | 75 mm |
| Depth  | 55 mm |

### Material specifications

|       |                  |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

### Environmental and real-life conditions

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

### Approvals

#### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

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|      |              |
|------|--------------|
| Note | and EN 61326 |
|------|--------------|

## Standards and regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

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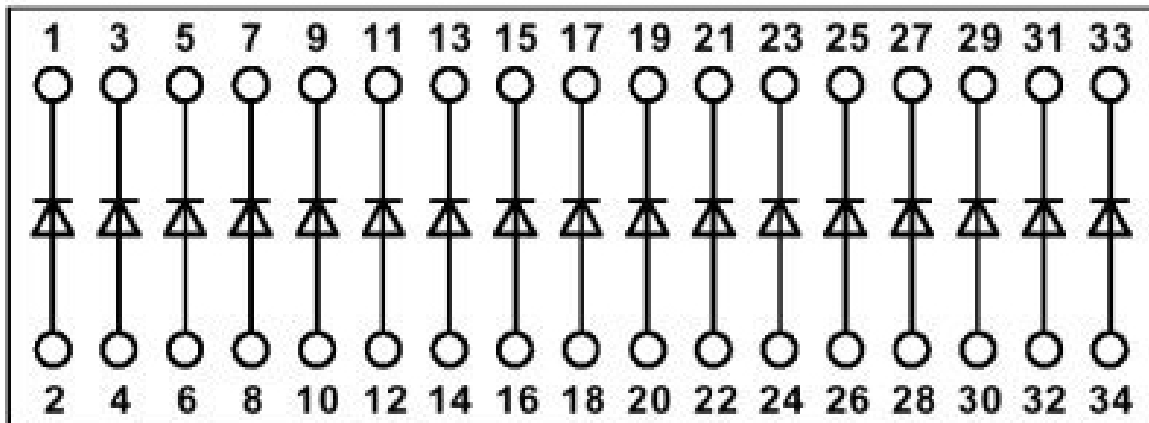


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## Drawings

### Circuit diagram



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## Approvals

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**EAC**

Approval ID: RU\*DE\*08.B.01841/19

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371010 |
| ECLASS-15.0 | 27371010 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000683 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 1afb451c-0075-4e6d-a550-51c8316e7542 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.944 kg CO2e |
|---------|---------------|

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