

# EMG 90-DIO 17E - Diode block

2954895

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



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 documentation. Our general terms of use for downloads are valid.



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            |

# EMG 90-DIO 17E - Diode block

2954895

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



## 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)          |
|                                    | 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 |

# EMG 90-DIO 17E - Diode block



2954895

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

|      |              |
|------|--------------|
| 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                       |

# EMG 90-DIO 17E - Diode block

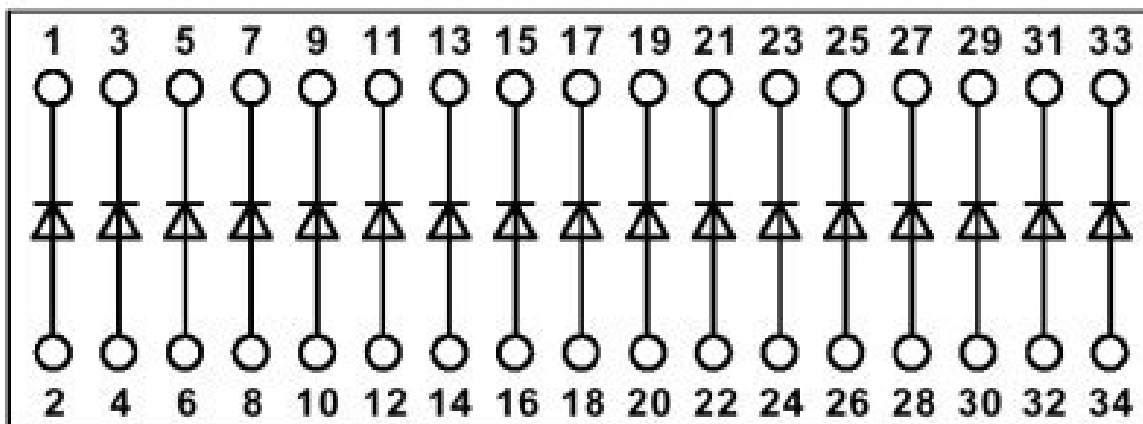
2954895

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



## Drawings

### Circuit diagram



# EMG 90-DIO 17E - Diode block

2954895

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



## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2954895>



**EAC**

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

# EMG 90-DIO 17E - Diode block

2954895

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



## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000683 |
|----------|----------|

### UNSPSC

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

# EMG 90-DIO 17E - Diode block



2954895

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

## 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 |

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)