

# EMG 45-DIO 8E - Diode block

2950103

<https://www.phoenixcontact.com/us/products/2950103>



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Diode module, with 8 diodes, individually wired, diode type 1N 4007

## Your advantages

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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2950103             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 5 pc                |
| Sales key                            | C440                |
| Product key                          | CK4M11              |
| Catalog page                         | Page 266 (C-5-2019) |
| GTIN                                 | 4017918083953       |
| Weight per piece (including packing) | 85.88 g             |
| Weight per piece (excluding packing) | 85.88 g             |
| Customs tariff number                | 85411000            |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

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

### Input data

#### Diode

|                                    |                                                             |
|------------------------------------|-------------------------------------------------------------|
| Description of the input           | 8 diodes, individually wired                                |
| 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  | 45 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 |
| Note        | and EN 61326 |

### Standards and regulations

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|                       |              |
|-----------------------|--------------|
| 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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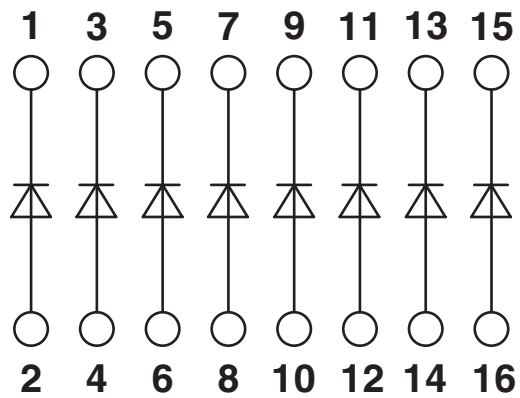
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## Drawings

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2950103>



**EAC**

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371010 |
| ECLASS-12.0 | 27371010 |
| ECLASS-13.0 | 27371010 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002278 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 6(c), 7(a)                                                                                                                                                                                                                        |
| 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                                    | 6775ab93-ab49-4201-a93b-d7058a6cd60a                                                                                                                                                                                              |

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## Accessories

### EMG-GKS 12 - Marking material

2947035

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Device marking label, width: 12 mm, area: 12 x 8 mm, e.g. for EML(10x7) R adhesive marking material

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