

EMG 45-DIO14M - Diode block

2950129

<https://www.phoenixcontact.com/us/products/2950129>

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Diode module, with 14 diodes, common anode, 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 | 2950129 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | C440 |
| Product key | DK66M1 |
| GTIN | 4017918083977 |
| Weight per piece (including packing) | 88.16 g |
| Weight per piece (excluding packing) | 88.16 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 | 14 diodes, common anode |
| 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 μ A |
| Conducting state voltage per diode | approx. 0.8 V |
| Conducting state current per diode | 0.7 A (with single load) 0.2 A (with simultaneous loads) |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| 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 |
|-------------|--------------|

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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 |

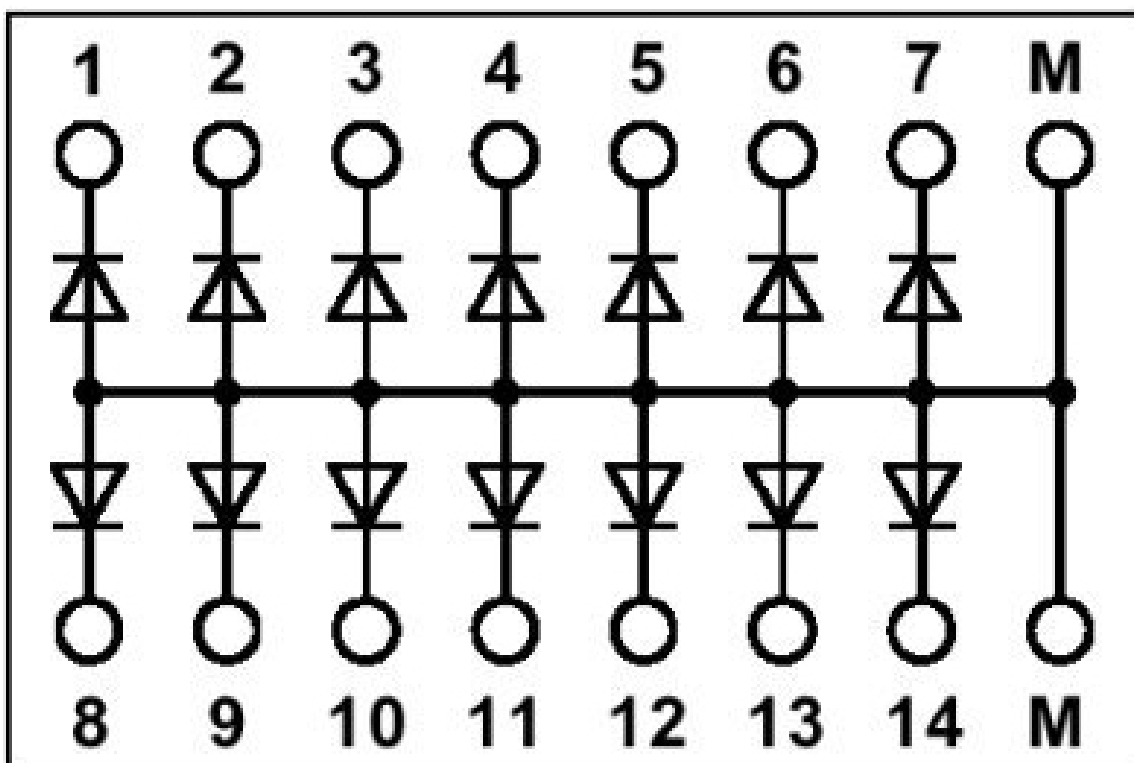
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Drawings

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 | 1ffd2a68-603d-4c8c-b39c-05cdf0844bad |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.199 kg CO2e |
|---------|---------------|

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