

# Product datasheet

Specifications



## TeSys GF - impulse relay - 16 A - 1 NO - 24 V AC 50/60 Hz coil

GF1610B7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys   |
| Product Name                   | TeSys GF  |
| Product Or Component Type      | Impulse relay   |
| Device Short Name              | GF16  |
| Utilisation Category           | AC-1  |
| Poles Description              | 1P  |
| Pole Contact Composition       | 1 NO  |
| [Ie] Rated Operational Current | 16 A AC-1   |
| [Ue] Rated Operational Voltage | 250 V AC 50/60 Hz                                     |
| Permissible Short-Time Rating  | 320 A 40 °C 1 s<br>48 A 40 °C 30 s<br>96 A 40 °C 10 s |
| Operating Position             | +/- 90° to vertical plane                             |
| Control Circuit Type           | AC at 50/60 Hz  |
| [Uc] Control Circuit Voltage   | 24 V AC 50/60 Hz                                      |
| Mounting Mode                  | Clip-on   |
| Mounting Support               | 35 mm symmetrical DIN rail                            |

### Complementary

|   |  |
|---|--|
| [Ith] Conventional Free Air Thermal Current | 16 A (at 50 °C)  |
| Average Impedance                           | 4 mOhm at 50 Hz - Ith 16 A   |
| [Ui] Rated Insulation Voltage               | 400 V conforming to IEC 60947-5-1<br>400 V conforming to VDE 0110  |
| [Uimp] Rated Impulse Withstand Voltage      | 4 kV in enclosure  |
| Connections - Terminals                     | Control circuit: screw clamp terminals 1 cable(s) 1.5 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 2.5 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm <sup>2</sup> solid without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm <sup>2</sup> flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm <sup>2</sup> flexible without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm <sup>2</sup> solid without cable end |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

|                                       |  |
|---------------------------------------|--|
| <b>Tightening Torque</b>              | Control circuit: 0.8 N.m - on screw clamp terminals<br>Power circuit: 0.8 N.m - on screw clamp terminals |
| <b>Operating Time</b>                 | 70 ms closing<br>70 ms opening   |
| <b>Maximum Operating Rate</b>         | 900 cyc/h  |
| <b>Control Circuit Voltage Limits</b> | 0.85...1.1 Uc 50 °C 50/60 Hz   |
| <b>Impulse Duration</b>               | >= 70 ms   |
| <b>Average Consumption</b>            | 19 VA AC 50 Hz at at Uc at 20 °C   |
| <b>Power Dissipation Per Pole</b>     | 1 W  |
| <b>Mechanical Durability</b>          | 1 Mcycles  |
| <b>Electrical Durability</b>          | 100000 cycles AC-22<br>200000 cycles AC-21   |
| <b>9 Mm Pitches</b>                   | 2  |
| <b>Height</b>                         | 81 mm  |
| <b>Width</b>                          | 18 mm  |
| <b>Depth</b>                          | 64 mm  |
| <b>Net Weight</b>                     | 0.11 kg  |
| <b>Quantity Per Set</b>               | Set of 12  |

## Environment

|  |  |
|--|--|
| <b>Standards</b>                             | IEC 60669-2<br>IEC 60669-1<br>NF C 61-112  |
| <b>Ip Degree Of Protection</b>               | IP40 conforming to VDE 0106 (in enclosure)<br>IP20 conforming to VDE 0106                    |
| <b>Protective Treatment</b>                  | TC   |
| <b>Ambient Air Temperature For Operation</b> | -20...50 °C  |
| <b>Ambient Air Temperature For Storage</b>   | -40...80 °C  |
| <b>Operating Altitude</b>                    | <= 2000 m without derating   |
| <b>Mechanical Robustness</b>                 | Vibrations contactor open: 4 Gn, 5...300 Hz<br>Vibrations contactor closed: 4 Gn, 5...300 Hz |

## Packing Units

|                                     |         |
|-------------------------------------|---------|
| <b>Unit Type Of Package 1</b>       | PCE     |
| <b>Number Of Units In Package 1</b> | 1       |
| <b>Package 1 Height</b>             | 8 cm    |
| <b>Package 1 Width</b>              | 9.3 cm  |
| <b>Package 1 Length</b>             | 22.8 cm |
| <b>Package 1 Weight</b>             | 112 g   |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## Sustainability

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RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

Halogen Free Plastic Parts Product

## Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Compliant with Exemptions

China Rohs Regulation

[China RoHS declaration](#)

Product out of China RoHS scope. Substance declaration for your information

Weee

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile

No need of specific recycling operations