



Main

|                                |   |
|--------------------------------|---|
| Range                          | TeSys   |
| Product name                   | TeSys GF  |
| Product or component type      | Impulse relay   |
| Device short name              | GF16  |
| Utilisation category           | AC-1  |
| Poles description              | 2P  |
| Pole contact composition       | 1 NO + 1 NC   |
| [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   | 48 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 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Control circuit: screw clamp terminals 2 cable(s) 2.5 mm<sup>2</sup> flexible without cable end  
 Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm<sup>2</sup> flexible with cable end  
 Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm<sup>2</sup> flexible without cable end  
 Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm<sup>2</sup> solid without cable end  
 Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm<sup>2</sup> flexible with cable end  
 Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm<sup>2</sup> flexible without cable end  
 Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm<sup>2</sup> solid without cable end

|                                |  |
|--------------------------------|--|
| Tightening torque              | Control circuit: 0.8 N.m - on screw clamp terminals<br>Power circuit: 0.8 N.m - on screw clamp terminals |
| Operating time                 | 70 ms closing<br>70 ms opening   |
| Maximum operating rate         | 900 cyc/h  |
| Control circuit voltage limits | 0.85...1.1 Uc 50 °C 50/60 Hz   |
| Impulse duration               | >= 70 ms   |
| Average consumption            | 19 VA AC 50 Hz at at Uc at 20 °C   |
| Power dissipation per pole     | 1 W  |
| Mechanical durability          | 1 Mcycles  |
| Electrical durability          | 100000 cycles AC-22<br>200000 cycles AC-21   |
| 9 mm pitches                   | 2  |
| Height                         | 81 mm  |
| Width                          | 18 mm  |
| Depth                          | 64 mm  |
| Net weight                     | 0.11 kg  |
| Quantity per set               | Set of 12  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60669-1<br>IEC 60669-2<br>NF C 61-112  |
| IP degree of protection               | IP40 conforming to VDE 0106 (in enclosure)<br>IP20 conforming to VDE 0106                    |
| Protective treatment                  | TC   |
| Ambient air temperature for operation | -20...50 °C  |
| Ambient air temperature for storage   | -40...80 °C  |
| Operating altitude                    | <= 2000 m without  |
| Mechanical robustness                 | Vibrations contactor open: 4 Gn, 5...300 Hz<br>Vibrations contactor closed: 4 Gn, 5...300 Hz |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|