

# Product datasheet

Specifications



## TeSys GF - impulse relay - 16 A - 2 NO - 110 V AC 50/60 Hz coil

Local distributor code:

380920525

GF1620F7

 **Discontinued on:** 15 Jun 2023

**EAN Code:** 3389110725179

 **Discontinued**

### 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       | 2 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   | 110 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 mm² solid without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 2.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 2.5 mm² flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm² flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1.5 mm² solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 2.5 mm² flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm² flexible with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm² flexible without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm² solid without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm² flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm² flexible without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm² 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

|                                |                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------|
| 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>NF C 61-112<br>IEC 60669-2                                                    |
| 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 derating                                                                   |
| Mechanical robustness                 | Vibrations contactor open: 4 Gn, 5...300 Hz<br>Vibrations contactor closed: 4 Gn, 5...300 Hz |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 8.0 cm  |
| Package 1 Width              | 9.4 cm  |
| Package 1 Length             | 23.0 cm |
| Package 1 Weight             | 118.0 g |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 12      |
| Package 2 Height             | 8.0 cm  |
| Package 2 Width              | 9.4 cm  |
| Package 2 Length             | 23.0 cm |

|                              |          |
|------------------------------|----------|
| Package 2 Weight             | 1.425 kg |
| Unit Type of Package 3       | S02      |
| Number of Units in Package 3 | 48       |
| Package 3 Height             | 15.0 cm  |
| Package 3 Width              | 30.0 cm  |
| Package 3 Length             | 40.0 cm  |
| Package 3 Weight             | 6.066 kg |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

| Materials and Substances               |                                      |
|----------------------------------------|--------------------------------------|
| Packaging made with recycled cardboard | Yes                                  |
| Packaging without single use plastic   | No                                   |
| SCIP Number                            | 361e1245-bdfb-4c55-bca5-ee0430c46917 |
| Halogen-free status                    | Halogen free plastic parts product   |

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture        |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |