

# Product datasheet

Specifications



## TeSys GF - impulse relay - 16 A - 1 NO - 12 V AC 50/60 Hz coil

GF1610J7

⚠ Discontinued on: 1 Nov 2020

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### 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 48 A 40 °C 30 s 96 A 40 °C 10 s
Operating position	+/- 90° to vertical plane
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	12 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 60947-5-1 400 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 Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> solid without cable end 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

<b>Tightening torque</b>	Control circuit: 0.8 N.m - on screw clamp terminals Power circuit: 0.8 N.m - on screw clamp terminals
<b>Operating time</b>	70 ms closing 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 200000 cycles AC-21
<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>	NF C 61-112 IEC 60669-1 IEC 60669-2
<b>IP degree of protection</b>	IP40 conforming to VDE 0106 (in enclosure) 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 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>	9.4 cm
<b>Package 1 Length</b>	23 cm
<b>Package 1 Weight</b>	112 g

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



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