



### 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 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	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 60947-5-1 400 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

Tightening torque	Control circuit: 0.8 N.m - on screw clamp terminals Power circuit: 0.8 N.m - on screw clamp terminals
Operating time	70 ms closing 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 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 60669-2 NF C 61-112 IEC 60669-1
IP degree of protection	IP40 conforming to VDE 0106 (in enclosure) 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 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 <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> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
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
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