

### 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	96 A (<= 40 °C) - short time current duration: 10 s 48 A (<= 40 °C) - short time current duration: 30 s 320 A (<= 40 °C) - short time current duration: 1 s
Operating position	+/- 90° to vertical plane
Control circuit type	AC 50/60 Hz
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 VDE 0110 400 V - conforming to IEC 60947-5-1
[Uimp] rated impulse withstand voltage	4 kV in enclosure
Connections - terminals	Power circuit : screw clamp terminals 2 cable 0.5...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable 0.5...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable 0.5...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable 0.5...6 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable 0.5...6 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable 0.5...6 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable 2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable 1.5 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable 1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable 2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable 2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable 1.5 mm <sup>2</sup> - cable stiffness: solid - without cable end
Tightening torque	Power circuit : 0.8 N.m - on screw clamp terminals Control circuit : 0.8 N.m - on screw clamp terminals
Operating time	70 ms opening 70 ms closing
Operating rate	<= 900 cyc/h

Control circuit voltage limits	0.85...1.1 U <sub>c</sub> at ≤ 50 °C 50/60 Hz
Impulse duration	≥ 70 ms
Average consumption	19 VA for AC network 50 Hz at U <sub>c</sub> at 20 °C
Power dissipation per pole	1 W
Mechanical durability	1 Mcycles
Electrical durability	200000 cycles on AC-21 100000 cycles on AC-22
Height	81 mm
Width	18 mm
Depth	64 mm
Product weight	0.11 kg
Quantity per set	Set of 12

## Environment

Standards	IEC 60669-1 IEC 60669-2 NF C 61-112
IP degree of protection	IP20 conforming to VDE 0106 IP40 in enclosure 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 closed 4 G <sub>n</sub> , 5...300 Hz Vibrations contactor open 4 G <sub>n</sub> , 5...300 Hz