



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 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 mm² solid without cable end Control circuit: screw clamp terminals 1 cable(s) 2.5 mm² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 2.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm² solid without cable end

	Control circuit: screw clamp terminals 2 cable(s) 2.5 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm ² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 0.5...6 mm ² solid without cable end Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm ² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm ² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 0.5...4 mm ² 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 60669-1 IEC 60669-2 NF C 61-112
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	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
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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