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Product datasheet
Characteristics

GF1610U7
TeSys GF - impulse relay - 16 A - 1 NO - 230...240 V AC 50/60 Hz coil



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) - short time current duration: 1 s 48 A (<= 40 °C) - short time current duration: 30 s 96 A (<= 40 °C) - short time current duration: 10 s
Operating position	+/- 90° to vertical plane
Control circuit type	AC 50/60 Hz
Control circuit voltage	230...240 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 1.5 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable 2.5 mm² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable 2.5 mm² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable 1.5 mm² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable 1.5 mm² - cable stiffness: 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

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	Control circuit : screw clamp terminals 2 cable 2.5 mm² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable 0.5...6 mm² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable 0.5...6 mm² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable 0.5...6 mm² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable 0.5...4 mm² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable 0.5...4 mm² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable 0.5...4 mm² - cable stiffness: 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
Operating rate	<= 900 cyc/h
Control circuit voltage limits	0.85...1.1 Uc at <= 50 °C 50/60 Hz
Impulse duration	>= 70 ms
Average consumption	19 VA for AC network 50 Hz at Uc at 20 ºC
Power dissipation per pole	1 W
Mechanical durability	1 Mcycles
Electrical durability	100000 cycles on AC-22 200000 cycles on AC-21
9 mm pitches	2
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 open 4 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz

Contractual warranty

Warranty period	18 months