Product data sheet
Characteristics

GF1620U7
impulse relay GF16 - coil 230...240 V 50/60Hz - 2 NO 16 A

Main

Range of product	GF
Product or component type	Impulse relay
Device short name	Modular impulse relay
Utilisation category	AC-1
Poles description	2P
Pole contact composition	2 NO
[Uc] control circuit voltage	12...240 V
[Ith] conventional free air thermal current	16 A at <= 50 °C
Quantity per set	Set of 12

Complementary

[In] rated current	16 A AC-1 for power circuit
Protection type	Circuit breaker protection GL fuse 16 A
Control circuit voltage limits	0.85...1.1 Uc at <= 50 °C 50/60 Hz
[Ui] rated insulation voltage	400 V - for power circuit - conforming to IEC 60947 400 V - for power circuit - conforming to VDE 0110
[Uimp] rated impulse withstand voltage	4 kV in enclosure
Impulse duration	>= 70 ms
Connections - terminals	Control circuit: screw terminals 1 cable 1.5 mm² - cable stiffness: solid - without cable end Control circuit: screw terminals 1 cable 2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw terminals 1 cable 2.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw terminals 2 cable 1.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw terminals 2 cable 1.5 mm² - cable stiffness: solid - without cable end Control circuit: screw terminals 2 cable 2.5 mm² - cable stiffness: flexible - without cable end Power circuit: screw terminals 1 cable 0.5...6 mm² - cable stiffness: flexible - with cable end Power circuit: screw terminals 1 cable 0.5...6 mm² - cable stiffness: flexible - without cable end Power circuit: screw terminals 1 cable 0.5...6 mm² - cable stiffness: solid - without cable end Power circuit: screw terminals 2 cable 0.5...4 mm² - cable stiffness: flexible - with cable end Power circuit: screw terminals 2 cable 0.5...4 mm² - cable stiffness: flexible - without cable end Power circuit: screw terminals 2 cable 0.5...4 mm² - cable stiffness: solid - without cable end
Tightening torque	Control circuit: 0.8 N.m - on screw terminals Power circuit: 0.8 N.m - on screw terminals
[Ue] rated operational voltage	250 V AC 50/60 Hz for power circuit
Permissible short-time rating	320 A (<= 40 °C) - short time current duration: 1 s - for power circuit 48 A (<= 40 °C) - short time current duration: 30 s - for power circuit 96 A (<= 40 °C) - short time current duration: 10 s - for power circuit
Average impedance	0.004 mOhm at 50/60 Hz - Ith 16 A for power circuit
Average consumption	19 VA for AC network 50 Hz at Uc at 20 ºC
Power dissipation per pole	1 W

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Operating time	70 ms closing 70 ms opening
Mechanical durability	1000000 cycles
Electrical durability	100000 cycles on AC-22 200000 cycles on AC-21
Operating rate	<= 900 cyc/mn at control circuit
Operating position	+/- 90° to vertical plane
Height	60 mm
Width	18 mm
Product weight	0.11 kg

Environment

Standards	IEC 60669-1 IEC 60669-2 NF C 61-112
Product certifications	NF
IP degree of protection	IP20 open state 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 in temperature
Vibration resistance	4 gn 5...300 Hz relay closed 4 gn 5...300 Hz relay open