## GF1611F7

## TeSys GF - impulse relay - 16 A - 1 NO + 1 NC - 110 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	2P
Pole contact composition	1 NO + 1 NC
[le] 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	110 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 0.54 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable 0.54 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable 0.54 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 0.56 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable 0.56 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable 0.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 2.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 1.5 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable 1.5 mm² - cable stiffness: flexible - with 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 1 cable 2.5 mm² - cable stiffness: flexible - without cable end
	with cable end Control circuit: screw clamp terminals 1 cable 1.5 mm² - 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	0.851.1 Uc at <= 50 °C 50/60 Hz
Impulse duration	>= 70 ms
Average consumption	19 VA for AC network 50 Hz at Uc at 20 °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	-2050 °C	
Ambient air temperature for storage	-4080 °C	
Operating altitude	<= 2000 m without derating	
Mechanical robustness	Vibrations contactor closed 4 Gn, 5300 Hz	
	Vibrations contactor open 4 Gn, 5300 Hz	

