

Product datasheet

Specifications



TeSys GC - modular contactor - 16 A - 1 NO - coil 48 V AC

GC1610E5

Main

Range	TeSys
Product Name	TeSys GC
Product Or Component Type	Modular contactor
Device Short Name	GC16
Contactor Application	Lighting Motor control Heating

Complementary

Utilisation Category	AC-7A AC-7B
Poles Description	1P
Power Pole Contact Composition	1 NO
[Ue] Rated Operational Voltage	<= 250 V AC
[Ie] Rated Operational Current	16 A AC-7A 5 A AC-7B
Operating Position	30°/vertical
Control Circuit Type	AC at 50 Hz
[Uc] Control Circuit Voltage	48 V AC 50 Hz
[Uimp] Rated Impulse Withstand Voltage	4 kV
[Ith] Conventional Free Air Thermal Current	16 A (at 50 °C) for power circuit
Irms Rated Making Capacity	40 A at 400 V AC for power circuit conforming to IEC 61095
Rated Breaking Capacity	40 A at 400 V for power circuit conforming to IEC 61095
[Icw] Rated Short-Time Withstand Current	128 A 40 °C - 10 s for power circuit 40 A 40 °C - 30 s for power circuit
Associated Fuse Rating	16 A gL at <= 440 V for power circuit
Average Impedance	2.5 mOhm - lth 16 A 50 Hz for power circuit
[Ui] Rated Insulation Voltage	500 V conforming to IEC 61095 500 V conforming to VDE 0110
Electrical Durability	AC-7A: 100000 cycles AC-7B: 100000 cycles
Power Dissipation Per Pole	0.65 W
Control Type	Remote control
Mounting Mode	Clip-on

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

Mounting Support	DIN rail
Standards	IEC 61095 IEC 60947-5
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 2.5 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 2.5 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 2.5 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1.5 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm²solid 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	10...25 ms opening 10...30 ms closing
Mechanical Durability	1000000 cycles
Maximum Operating Rate	300 cyc/h 50 °C
Control Circuit Voltage Limits	Drop-out: 0.2...0.75 Uc at 50 Hz (at <50 °C) Operational: 0.85...1.1 Uc at 50 Hz (at <50 °C)
Inrush Power In Va	15 VA 50 Hz (at 20 °C)
Hold-In Power Consumption In Va	3.8 VA 50 Hz (at 20 °C)
Heat Dissipation	1.3 W at 50/60 Hz

Environment

Ip Degree Of Protection	IP40 conforming to VDE 0106 (in enclosure) IP20 conforming to VDE 0106
Protective Treatment	TC
Ambient Air Temperature For Operation	-5...50 °C
Ambient Air Temperature For Storage	-40...70 °C
Operating Altitude	<= 3000 m
Mechanical Robustness	Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 3 Gn, 5...300 Hz
Total Number Of 18 Mm Modules	1
Height	81 mm
Width	17.5 mm
Depth	62.5 mm
Net Weight	0.11 kg
Quantity Per Set	Set of 12
Colour	White

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8 cm

Package 1 Width	9.5 cm
Package 1 Length	23 cm
Package 1 Weight	116 g

Contractual warranty

Warranty	18 months
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