Product datasheet

Specifications

Modular contactor, TeSys GC, AC-7a, 100A, 2NO, 220 to 240VAC 50Hz coil

GC10020M5

Main

Range	TeSys
Product name	TeSys GC
Product or component type	Modular contactor
Device short name	GC100
Contactor application	Lighting Motor control Heating

Complementary

Utilisation category	AC-7A
Poles description	2P
power pole contact composition	2 NO
[Ue] rated operational voltage	<= 250 V AC
[Ie] rated operational current	100 A AC-7A
Operating position	30°/vertical
Control circuit type	AC at 50 Hz
[Uc] control circuit voltage	220...240 V AC 50 Hz
[Uimp] rated impulse withstand voltage	4 kV
[Ith] conventional free air thermal current	100 A (at 50 °C) for power circuit
[Icw] rated short-time withstand current	800 A 40 °C - 10 s for power circuit 250 A 40 °C - 30 s for power circuit
Associated fuse rating	100 A gL at <= 440 V for power circuit
Average impedance	1 mOhm - Ith 100 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: 30000 cycles
Power dissipation per pole	10 W
Control type	Remote control
Mounting mode	Clip-on
Mounting support	DIN rail
Standards	IEC 60947-5 IEC 61095

Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 35 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 35 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 35 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 10 mm²solid without cable end 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
Tightening torque	Control circuit: 0.8 N.m - on screw clamp terminals Power circuit: 3.5 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	53 VA 50 Hz (at 20 °C)
Hold-in power consumption in VA	6.5 VA 50 Hz (at 20 °C)
Heat dissipation	2.1 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	3
Height	85 mm
Width	54 mm
Depth	62.5 mm
Net weight	0.68 kg
Quantity per set	Set of 4
Colour	White

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.400 cm
Package 1 Width	6.800 cm
Package 1 Length	8.400 cm
Package 1 Weight	310.000 g
Unit Type of Package 2	BB1

Number of Units in Package 2	4
Package 2 Height	8.200 cm
Package 2 Width	9.900 cm
Package 2 Length	23.200 cm
Package 2 Weight	1.304 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**602f090b-0363-4125-8a1d-b0ae6265eeec**
Halogen-free status	**Halogen free plastic parts product**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

End of life manual availability	**No need of specific recycling operations**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**