

# Product data sheet

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

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

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	8.0 cm
Package 1 Width	8.0 cm
Package 1 Length	9.0 cm
Package 1 Weight	135.0 g
Unit Type Of Package 2	CAR

Number Of Units In Package 2	4
Package 2 Height	8.0 cm
Package 2 Width	8.0 cm
Package 2 Length	9.0 cm
Package 2 Weight	540.0 g

## Contractual warranty

Warranty	18 months
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## Sustainability





**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

## Well-being performance

 Reach Free Of Svhc	
 Toxic Heavy Metal Free	
 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
<b>Reach Regulation</b>	<a href="#">REACH Declaration</a>
<b>Eu Rohs Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>China Rohs Regulation</b>	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
<b>Weee</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins