

# Product datasheet

Specifications



## Modular contactor, TeSys GC, AC-7a, 16A, 2NO, 42VAC 50/60Hz coil

GC1620D7

⚠ Discontinued on: 24 Apr 2023

⚠ Discontinued

### Main

Range	TeSys
Product name	TeSys GC
Product or component type	Modular contactor
Device short name	GC16
Contactor application	Heating Lighting Motor control

### Complementary

Utilisation category	AC-7B AC-7A
Poles description	2P
power pole contact composition	2 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	42 V AC 50/60 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 - Ith 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

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

<b>Mounting support</b>	DIN rail
<b>Standards</b>	IEC 61095
<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 2.5 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1.5 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> solid without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.5 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm <sup>2</sup> solid without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> solid without cable end
<b>Tightening torque</b>	Control circuit: 0.8 N.m - on screw clamp terminals Power circuit: 0.8 N.m - on screw clamp terminals
<b>Operating time</b>	10...25 ms opening 10...30 ms closing
<b>Mechanical durability</b>	1000000 cycles
<b>Maximum operating rate</b>	300 cyc/h 50 °C
<b>Control circuit voltage limits</b>	Drop-out: 0.2...0.75 U <sub>c</sub> at 50 Hz (at <50 °C) Operational: 0.85...1.1 U <sub>c</sub> at 50 Hz (at <50 °C)
<b>Inrush power in VA</b>	15 VA 50 Hz (at 20 °C)
<b>Hold-in power consumption in VA</b>	3.8 VA 50 Hz (at 20 °C)
<b>Heat dissipation</b>	1.3 W at 50/60 Hz

## Environment

<b>IP degree of protection</b>	IP40 conforming to VDE 0106 (in enclosure) IP20 conforming to VDE 0106
<b>Protective treatment</b>	TC
<b>Ambient air temperature for operation</b>	-5...50 °C
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Operating altitude</b>	<= 3000 m
<b>Mechanical robustness</b>	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
<b>Total number of 18 mm modules</b>	1
<b>Height</b>	81 mm
<b>Width</b>	17.5 mm
<b>Depth</b>	62.5 mm
<b>Net weight</b>	0.11 kg
<b>Quantity per set</b>	Set of 12
<b>Colour</b>	White

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.0 cm
<b>Package 1 Width</b>	9.5 cm

<b>Package 1 Length</b>	23.0 cm
<b>Package 1 Weight</b>	128.0 g
<b>Unit Type of Package 2</b>	CAR
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	8.0 cm
<b>Package 2 Width</b>	9.5 cm
<b>Package 2 Length</b>	23.0 cm
<b>Package 2 Weight</b>	1.542 kg

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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## 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 >](#)

### Use Better



#### Materials and Substances

SCIP Number

361e1245-bdfb-4c55-bca5-ee0430c46917

EU RoHS Directive

[Compliant By Exemption](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins