

Product datasheet

Specifications



Modular contactor, TeSys GC, AC-7a, 25A, 2NC, 48VAC 50Hz coil

GC2502E5

⚠ Discontinued on: 9 Nov 2022

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Main

Range	TeSys
Product name	TeSys GC
Product or component type	Modular contactor
Device short name	GC25
Contactor application	Lighting Heating Motor control

Complementary

Utilisation category	AC-7A AC-7B
Poles description	2P
power pole contact composition	2 NC
[Ue] rated operational voltage	≤ 250 V AC
[Ie] rated operational current	25 A AC-7A 8.5 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	25 A (at 50 °C) for power circuit
Irms rated making capacity	68 A at 400 V AC for power circuit conforming to IEC 61095
Rated breaking capacity	68 A at 400 V for power circuit conforming to IEC 61095
[Icw] rated short-time withstand current	200 A 40 °C - 10 s for power circuit 62 A 40 °C - 30 s for power circuit
Associated fuse rating	25 A gL at ≤ 440 V for power circuit
Average impedance	2.5 mOhm - Ith 25 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	1.6 W
Control type	Remote control
Mounting mode	Clip-on

Mounting support	DIN rail
Standards	IEC 61095
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 2.5 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 2.5 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1.5 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1.5 mm ² solid without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm ² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm ² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.5 mm ² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 6 mm ² solid without cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm ² solid 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 U _c at 50 Hz (at <50 °C) Operational: 0.85...1.1 U _c 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	8.0 cm
Package 1 Width	9.5 cm

Package 1 Length	23.0 cm
Package 1 Weight	121.0 g
Unit Type of Package 2	CAR
Number of Units in Package 2	12
Package 2 Height	8.0 cm
Package 2 Width	9.5 cm
Package 2 Length	23.0 cm
Package 2 Weight	1.463 kg
Unit Type of Package 3	S03
Number of Units in Package 3	96
Package 3 Height	30.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	12.329 kg

Contractual warranty

Warranty (in months)	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