

Product datasheet

Specifications



Modular contactor, TeSys GC, AC-7a, 25A, 3NO, 220 to 240VAC 50Hz coil

GC2530M5

Main

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

Complementary

Utilisation category	AC-7A AC-7B
Poles description	3P
power pole contact composition	3 NO
[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	220...240 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

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

Standards	IEC 61095 IEC 60947-5
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 Uc at 50 Hz (at <50 °C) Operational: 0.85...1.1 Uc at 50 Hz (at <50 °C)
Inrush power in VA	34 VA 50 Hz (at 20 °C)
Hold-in power consumption in VA	4.6 VA 50 Hz (at 20 °C)
Heat dissipation	1.6 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	2
Height	85 mm
Width	36 mm
Depth	62.5 mm
Net weight	0.23 kg
Quantity per set	Set of 6
Colour	White

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.600 cm
Package 1 Width	6.900 cm

Package 1 Length	8.400 cm
Package 1 Weight	196.000 g
Unit Type of Package 2	P06
Number of Units in Package 2	384
Package 2 Height	60.000 cm
Package 2 Width	76.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	96.283 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 >](#)

Environmental footprint

Total lifecycle Carbon footprint	58 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	57 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
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
EU RoHS Directive	Compliant
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
Halogen-free status	Halogen free plastic parts product

Use Again

Repack and remanufacture

Recyclability potential, in %	62
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