

## Product data sheet

### Characteristics

# GC4020M5

## TeSys GC - modular contactor - 40 A - 2 NO - coil 220...240 V AC



### Main

Range	TeSys
Product name	TeSys GC
Product or component type	Modular contactor
Device short name	GC40
Contactor application	Lighting Heating 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	40 A AC-7A 15 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	40 A (at 50 °C) for power circuit
Irms rated making capacity	120 A at 400 V AC for power circuit conforming to IEC 61095
Rated breaking capacity	120 A at 400 V for power circuit conforming to IEC 61095
[Icw] rated short-time withstand current	320 A 40 °C - 10 s for power circuit 100 A 40 °C - 30 s for power circuit
Associated fuse rating	40 A gL at <= 440 V for power circuit
Average impedance	2 mOhm - Ith 40 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	3.2 W
Control type	Remote control
Mounting mode	Clip-on
Mounting support	DIN rail
Standards	IEC 61095 IEC 60947-5

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Connections - terminals	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) 25 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 25 mm <sup>2</sup> solid without cable end Power circuit: screw clamp terminals 2 cable(s) 6 mm <sup>2</sup> solid without cable end
Tightening torque	Control circuit: 0.8 N.m - on screw clamp terminals Power circuit: 2 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 <sub>c</sub> at 50 Hz (at <50 °C) Operational: 0.85...1.1 U <sub>c</sub> 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
Product 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 Weight	226 g
Package 1 Height	8 cm
Package 1 width	9.5 cm
Package 1 Length	23 cm
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Weight	11.856 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	BB1
Number of Units in Package 3	6
Package 3 Weight	1.422 kg

Package 3 Height	2.9 cm
Package 3 width	30 cm
Package 3 Length	20 cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### Contractual warranty

Warranty	18 months
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