Product data sheet
Characteristics

GC4020M6
Modular contactor, TeSys GC, AC-7a, 40A, 2NO, 220 to 240VAC 50Hz coil



Main

Range	TeSys
Product name	TeSys GC
Product or component type	Modular contactor
Device short name	GC40
Contactor application	Lighting Motor control Heating

Complementary

Utilisation category	AC-7B AC-7A
Poles description	2P
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 60 Hz
[Uc] control circuit voltage	220...240 V AC 60 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 60947-5 IEC 61095

Connections - terminals	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 Power circuit: screw clamp terminals 1 cable(s) 25 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 16 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 4 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 25 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 6 mm²solid 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 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	8 Cm
Package 1 Width	9.5 Cm
Package 1 Length	23 Cm
Package 1 Weight	233 G
Unit Type of Package 2	BB1
Number of Units in Package 2	6
Package 2 Height	8 Cm
Package 2 Width	9.5 Cm
Package 2 Length	23 Cm
Package 2 Weight	1.401 Kg
Unit Type of Package 3	S03
Number of Units in Package 3	48
Package 3 Height	30 Cm
Package 3 Width	30 Cm

Package 3 Length	40 Cm
Package 3 Weight	11.897 Kg

Offer Sustainability

Recyclability potential, in %	62
Total lifecycle Carbon footprint	73 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.3651161307098656
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.04529794733824364
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.008102932977053945
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	70.8155190551142
Carbon footprint of the use phase [B2, B3, B4, B6]	71 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.41871300834538727
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	73
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	602f090b-0363-4125-8a1d-b0ae6265eeec
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony tr
Halogen-free status	Halogen free plastic parts product
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised