GC2502M5

contactor GC - 2 NC - 25 A - coil 220...240 V AC



Main

Range of product	TeSys GC
Product or component type	Contactor
Device short name	Modular standard contactor
Contactor application	Heating Motor control
Utilisation category	AC-7A AC-7B
Control circuit type	AC
Poles description	2P
Pole contact composition	2 NC
[Uc] control circuit voltage	220240 V AC 50 Hz
[lth] conventional free air thermal current	25 A at <= 50 °C for power circuit 5 A at <= 50 °C for auxiliary contact

Complementary	
Coil technology	Without built-in
Auxiliary contacts type	Type integrated in coil (1 NO)
Auxiliary contact composition	1 NO
Control circuit voltage limits	0.20.75 Uc at <= 50 °C drop-out 50 Hz 0.851.1 Uc at <= 50 °C operational 50 Hz
[Ui] rated insulation voltage	500 V for auxiliary contacts conforming to IEC 60947-5 500 V for auxiliary contacts conforming to VDE 0110 500 V for power circuit conforming to IEC 61095 500 V for power circuit conforming to VDE 0110
[Uimp] rated impulse withstand voltage	4 kV in enclosure
Mounting support	DIN rail
Connections - terminals	Auxiliary contact: connector 1 cable 2.5 mm² - cable stiffness: flexible - without cable end Auxiliary contact: connector 2 cable 1.5 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable 6 mm² - cable stiffness: solid - without cable end Power circuit: connector 1 cable 6 mm² - cable stiffness: flexible - with cable end Auxiliary contact: connector 1 cable 1.5 mm² - cable stiffness: solid - without cable end Auxiliary contact: connector 2 cable 1.5 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable 4 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable 2.5 mm² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable 4 mm² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable 1.5 mm² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable 2.5 mm² - cable stiffness: flexible - without cable end Auxiliary contact: connector 2 cable 2.5 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable 6 mm² - cable stiffness: flexible - without cable end
Tightening torque	Power circuit: 0.8 N.m - on connector - cable 4 mm² Auxiliary contact: 0.8 N.m - on connector - cable 2.5 mm² Power circuit: 0.8 N.m - on connector - cable 6 mm² Auxiliary contact: 0.8 N.m - on connector - cable 1.5 mm² Power circuit: 0.8 N.m - on connector - cable 1.5 mm²

<= 250 V AC 400 Hz for power circuit

68 A at 400 V AC for power circuit conforming to IEC 61095

<= 250 V AC for auxiliary contacts

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[Ue] rated operational voltage

Irms rated making capacity

Permissible short-time rating	62 A (<= 40 °C) - short time current duration: 30 s - for power circuit 200 A (<= 40 °C) - short time current duration: 10 s - for power circuit
Average impedance	2.5 mOhm at 50 Hz - Ith 25 A for power circuit
Power dissipation per pole	1.6 W AC-7A 1.6 W AC-7B
Inrush power in VA	15 VA at 20 °C
Hold-in power consumption in VA	3.8 VA at 20 °C 50 Hz
Operating time	1025 ms opening 1030 ms closing
Mechanical durability	1000000 cycles
Operating rate	300 cyc/h at <= 50 °C
Height	81 mm
Width	17.5 mm
Depth	65 mm
Product weight	0.11 kg

Environment

Standards	IEC 60947-5
	IEC 61095
	VDE 0637-3
Product certifications	NF
IP degree of protection	IP20 open state conforming to VDE 0106 IP40 in enclosure conforming to VDE 0106
Protective treatment	TC
Ambient air temperature for operation	-550 °C
Ambient air temperature for storage	-4070 °C
Operating altitude	<= 3000 m without derating in temperature
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	10 gn contactor opened
	15 gn contactor closed
Vibration resistance	3 gn 5300 Hz contactor closed
	2 gn 5300 Hz contactor open
Heat dissipation	1.3 W at 50/60 Hz for control circuit

