

GC10040M5

TeSys GC - modular contactor - 100 A - 4 NO - coil 220...240 V AC



Main

Range	TeSys
Product name	TeSys GC
Product or component type	Modular contactor
Device short name	GC100
Contactor application	Heating Motor control Lighting
Utilisation category	AC-7A
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	<= 250 V AC
[Ie] rated operational current	100 A AC-7A
Operating position	30°/Vertical
Control circuit type	AC 50 Hz
Control circuit voltage	220...240 V AC 50 Hz
Control type	Remote control
Mounting mode	Clip-on
Mounting support	DIN rail
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1.5 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 1.5 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 2.5 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 2.5 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 10 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 35 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 35 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 35 mm ² - cable stiffness: flexible - without cable end
Tightening torque	Power circuit : 3.5 N.m - on screw clamp terminals Control circuit : 0.8 N.m - on screw clamp terminals

Complementary

[Uimp] rated impulse withstand voltage	4 kV
[Ith] conventional free air thermal current	100 A at <= 50 °C for power circuit
[Icw] rated short-time withstand current	250 A <= 40 °C 30 s power circuit 800 A <= 40 °C 10 s power circuit
Associated fuse rating	100 A gL at <= 440 V for power circuit
Average impedance	1 mOhm at 50 Hz - Ith 100 A for power circuit
[Ui] rated insulation voltage	500 V conforming to VDE 0110 500 V conforming to IEC 61095
Electrical durability	AC-7B : 30000 cycles AC-7A : 30000 cycles

Standards	IEC 60947-5 IEC 61095
Operating time	10...30 ms closing 10...25 ms opening
Mechanical durability	1000000 cycles
Operating rate	300 cyc/h at $\leq 50\text{ }^{\circ}\text{C}$
Control circuit voltage limits	0.85...1.1 U_c at $\leq 50\text{ }^{\circ}\text{C}$ operational 50 Hz 0.2...0.75 U_c at $\leq 50\text{ }^{\circ}\text{C}$ drop-out 50 Hz
Hold-in power consumption in VA	13 VA at $20\text{ }^{\circ}\text{C}$ 50 Hz
Heat dissipation	4.2 W at 50/60 Hz

Environment

IP degree of protection	IP20 conforming to VDE 0106 IP40 in enclosure conforming to VDE 0106
Protective treatment	TC
Ambient air temperature for operation	-5...50 $^{\circ}\text{C}$
Ambient air temperature for storage	-40...70 $^{\circ}\text{C}$
Operating altitude	$\leq 3000\text{ m}$
Mechanical robustness	Vibrations contactor closed 3 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms
Total number of 18 mm modules	6
Height	85 mm
Width	108 mm
Depth	62.5 mm
Product weight	0.78 kg
Quantity per set	Set of 2
Colour	White