



Main

Range of product	TeSys GC
Product or component type	Contacteur
Device short name	Modular standard contactor
Contactor application	Heating Motor control
Utilisation category	AC-7A AC-7B
Control circuit type	AC
Poles description	4P
Pole contact composition	2 NO + 2 NC
[Uc] control circuit voltage	220...240 V AC 50 Hz
[Ith] conventional free air thermal current	40 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	0.2...0.75 U _c at ≤ 50 °C drop-out 50 Hz 0.85...1.1 U _c 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 1.5 mm ² - cable stiffness: solid - without cable end Auxiliary contact: connector 1 cable 2.5 mm ² - cable stiffness: flexible - with cable end Auxiliary contact: connector 1 cable 2.5 mm ² - cable stiffness: flexible - without cable end Auxiliary contact: connector 2 cable 1.5 mm ² - cable stiffness: flexible - with cable end Auxiliary contact: connector 2 cable 1.5 mm ² - cable stiffness: solid - without cable end Auxiliary contact: connector 2 cable 2.5 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable 16 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable 25 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable 25 mm ² - cable stiffness: solid - without cable end Power circuit: connector 2 cable 16 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable 4 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable 6 mm ² - cable stiffness: solid - without cable end
Tightening torque	Auxiliary contact: 0.8 N.m - on connector - cable 1.5 mm ² Auxiliary contact: 0.8 N.m - on connector - cable 2.5 mm ² Power circuit: 3.5 N.m - on connector - cable 16 mm ² Power circuit: 3.5 N.m - on connector - cable 25 mm ² Power circuit: 3.5 N.m - on connector - cable 4 mm ² Power circuit: 3.5 N.m - on connector - cable 6 mm ²
[Ue] rated operational voltage	≤ 250 V AC for auxiliary contacts ≤ 415 V AC 400 Hz for power circuit

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Irms rated making capacity	120 A at 400 V AC for power circuit conforming to IEC 61095
Permissible short-time rating	100 A (<= 40 °C) - short time current duration: 30 s - for power circuit 320 A (<= 40 °C) - short time current duration: 10 s - for power circuit
Average impedance	2 mOhm at 50 Hz - lth 40 A for power circuit
Power dissipation per pole	3.2 W AC-7A 3.2 W AC-7B
Inrush power in VA	53 VA at 20 °C
Hold-in power consumption in VA	6.5 VA at 20 °C 50 Hz
Operating time	10...25 ms opening 10...30 ms closing
Mechanical durability	1000000 cycles
Operating rate	300 cyc/h at <= 50 °C
Height	81 mm
Width	52.5 mm
Depth	65 mm
Product weight	0.39 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	-5...50 °C
Ambient air temperature for storage	-40...70 °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	2 gn 5...300 Hz contactor open 3 gn 5...300 Hz contactor closed
Heat dissipation	2.1 W at 50/60 Hz for control circuit