



Main

Range	TeSys
Product name	TeSys SK
Product or component type	Mini contactor
Device short name	LC1SKGC
Contactors application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Power pole contact composition	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit 690 V AC <= 400 Hz for signalling circuit
[Ie] rated operational current	20 A (<= 50 °C) AC AC-1 9 A at <= 400 V AC AC-3
Motor power kW	4 kW at 380...415 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 1.1 kW at 220...230 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Auxiliary contact composition	1 NC
[Ith] conventional free air thermal current	20 A at <= 55 °C for power circuit 10 A at <= 55 °C for signalling circuit
Irms rated making capacity	85 A AC conforming to NF C 63-110 85 A AC conforming to IEC 60947
Rated breaking capacity	68 A at <= 400 V conforming to NF C 63-110 68 A at <= 400 V conforming to IEC 60947
[Icw] rated short-time withstand current	60 A <= 55 °C power circuit
Associated fuse rating	20 A gI at <= 440 V for power circuit 10 A gI for signalling circuit conforming to IEC 60947 10 A gI for signalling circuit conforming to VDE 0660
Average impedance	4 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	690 V for power circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to BS 5424 690 V for power circuit conforming to IEC 60947 690 V for power circuit conforming to UL 508 690 V for power circuit conforming to VDE 0110 group C

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Mounting support	Panel Rail
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	cULus
Connections - terminals	Connector 1 cable(s) 1.5...6 mm ² - cable stiffness: solid Connector 2 cable(s) 1.5...4 mm ² - cable stiffness: solid Connector 1 cable(s) 0.5...6 mm ² - cable stiffness: flexible - without cable end Connector 2 cable(s) 0.35...2.5 mm ² - cable stiffness: flexible - without cable end Connector 1 cable(s) 0.35...6 mm ² - cable stiffness: flexible - with cable end Connector 2 cable(s) 0.35...1.5 mm ² - cable stiffness: flexible - with cable end
Tightening torque	Power circuit : 0.8 N.m - on connector - with screwdriver pozidriv No 1
Operating time	6...8 ms coil de-energisation and NO opening 7...14 ms coil energisation and NO closing 8...16 ms coil energisation and NC opening 8...10 ms coil de-energisation and NC closing
Mechanical durability	10 Mcycles
Operating rate	1200 cyc/h

Complementary

Control circuit voltage limits	0.85...1.1 Uc at <= 55 °C operational 50/60 Hz 0.2...0.75 Uc at <= 55 °C drop-out 50/60 Hz
Inrush power in VA	23 VA at 20 °C 50/60 Hz
Hold-in power consumption in VA	4.9 VA at 20 °C 50/60 Hz
Heat dissipation	1.5 W at 50/60 Hz
Signalling circuit frequency	<= 400 Hz

Environment

IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50015
Ambient air temperature for operation	-20...50 °C
Ambient air temperature for storage	-50...70 °C
Operating altitude	2000 m without derating
Height	58 mm
Width	45 mm
Depth	56 mm
Product weight	0.175 kg

Contractual warranty

Warranty period	18 months
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