

H635021

Minikontaktor 12A AC3 400VAC

Partnumber: LC1K1210Q7

Wholesalernumber:

EAN 13 code: 3389110789768

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 380...400 V AC coil

Technical information

Usage / Application

contactor application

motor control

resistive load

Compatibility

associated fuse rating

25 A gG at <= 440 V for power circuit

25 A aM for power circuit

10 A gG for signalling circuit conforming to IEC 60947

10 A gG for signalling circuit conforming to VDE 0660

Functional

auxiliary contact composition

1 NO

operating rate

3600 cyc/h

auxiliary contacts type

type instantaneous (1 NO)

non overlap distance

0.5 mm

Electrical

utilisation category

AC-1

AC-3

AC-4

poles description

3P

pole contact composition

3 NO

[Ue] rated operational voltage

690 V AC 50/60 Hz for power circuit

<= 690 V AC 50/60 Hz for signalling circuit

[Ie] rated operational current

20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit

16 A (<= 70 °C) at 690 V AC AC-1 for power circuit

12 A at <= 440 V AC AC-3 for power circuit

motor power kW

3 kW at 220...230 V AC 50/60 Hz

4 kW at 480 V AC 50/60 Hz

4 kW at 500...600 V AC 50/60 Hz

4 kW at 660...690 V AC 50/60 Hz

5.5 kW at 380...415 V AC 50/60 Hz

5.5 kW at 440 V AC 50/60 Hz

control circuit type

AC 50/60 Hz

control circuit voltage

380...400 V AC 50/60 Hz

[Uimp] rated impulse withstand voltage

8 kV

overvoltage category

III

[Ith] conventional free air thermal current

20 A at <= 50 °C for power circuit

10 A at <= 50 °C for signalling circuit

Irms rated making capacity

110 A AC for signalling circuit conforming to IEC 60947

144 A AC for power circuit conforming to NF C 63-110

144 A AC for power circuit conforming to IEC 60947

[Icw] rated short-time withstand current

80 A 1 s signalling circuit

90 A 500 ms signalling circuit

110 A 100 ms signalling circuit

115 A <= 50 °C 1 s power circuit

105 A <= 50 °C 5 s power circuit

100 A <= 50 °C 10 s power circuit

75 A <= 50 °C 30 s power circuit

55 A <= 50 °C 1 min power circuit

50 A <= 50 °C 3 min power circuit

average impedance	25 A \leq 50 °C \geq 15 s power circuit
[Ui] rated insulation voltage	3 mOhm at 50 Hz - Ith 20 A for power circuit 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to CSA C22.2 No 14
control circuit voltage limits	0.2...0.75 Uc at \leq 50 °C drop-out 0.8...1.15 Uc at \leq 50 °C operational
inrush power in VA	30 VA at 20 °C
hold-in power consumption in VA	4.5 VA at 20 °C
signalling circuit frequency	\leq 400 Hz
minimum switching current	5 mA for signalling circuit
minimum switching voltage	17 V for signalling circuit
insulation resistance	$>$ 10 MOhm for signalling circuit
► Performance	
rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
electrical durability	0.3 Mcycles 20 A AC-1 at Ue \leq 440 V 1.3 Mcycles 12 A AC-3 at Ue \leq 440 V
operating time	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing
safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
mechanical durability	10 Mcycles cycles
► Connections	
connections - terminals	screw clamp terminals 1 cable(s) 1.5...4 mm ² - cable stiffness: solid screw clamp terminals 1 cable(s) 0.75...4 mm ² - cable stiffness: flexible - without cable end screw clamp terminals 1 cable(s) 0.34...2.5 mm ² - cable stiffness: flexible - with cable end screw clamp terminals 2 cable(s) 1.5...4 mm ² - cable stiffness: solid screw clamp terminals 2 cable(s) 0.75...4 mm ² - cable stiffness: flexible - without cable end screw clamp terminals 2 cable(s) 0.34...1.5 mm ² - cable stiffness: flexible - with cable end
► Installation	
mounting support	plate rail
► Product identification	
range of product	TeSys K
product or component type	contactor
device short name	LC1K
► Physical characteristics	
tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27
mechanical robustness	

	vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6
	vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6
height	58 mm mm
width	45 mm mm
depth	57 mm mm
product weight	0.18 kg kg
Environment	
heat dissipation	1.3 W
IP degree of protection	IP2x conforming to VDE 0106
protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
ambient air temperature for operation	-25...50 °C °C
ambient air temperature for storage	-50...80 °C °C
operating altitude	2000 m without derating in temperature
flame retardance	V1 conforming to UL 94 requirement 2 conforming to NF F 16-101 requirement 2 conforming to NF F 16-102
Certifications and standards	
standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
product certifications	CSA UL

Supplier information

Supplier: Schneider Electric Sverige AB
Address: Eskilstunavägen 7, 611 56 Nyköping

Fax: +46 155 26 54 91
Phone: +46 155 26 54 00

Web: <http://www.schneider-electric.se>
e-Mail: info@se.schneider-electric.com