

Schneider Service Manual

LC1G1504KUEN

1. Description

Schneider Electric LC1G1504KUEN Contactor, 100/250 V ac/dc Coil, 4-Pole, 275 A 100 to 250 V ac, 1 NO/1 NC, 1000V Specifications

3. Product Information

Schneider Electric LC1G1504KUEN Contactor, 100/250 V ac/dc Coil, 4-Pole, 275 A 100 to 250 V ac, 1 NO/1 NC, 1000V Specifications

Brand

Schneider Electric

Coil Voltage

100/250 V ac/dc

Product Type

Contactor

Number of Poles

4

Contact Voltage

1000V

Contact Current

275A

Series

LC1G150

Function

Load Control

Normal State Configuration

1 NO/1 NC

Auxiliary Contact Configuration

1 NO/1 NC

Control Circuit Voltage U_c

100 to 250 V ac

Operational Current I_e

275A

Minimum Operating Temperature

-25°C

Contactor Application

Power Switching

Maximum Operating Temperature

60°C

Width

140 mm

Depth

193mm

Length

193mm

Standards/Approvals

EN/IEC 60947-4-1, CSA C22.2 No 60947-4-1, UL 60947-4-1, JIS C8201-5-1, JIS C8201-4-1, EN/IEC 60947-5-1

Better World Product

Yes

Pole and Throw Configuration

4 NO

Country of Origin

China

Main

Range TeSys

Range of product TeSys Giga

Product or component type Contactor

Device short name LC1G

Contactor application Power switching

Utilisation category AC-3

AC-3e

AC-1

AC-5a

AC-5b

AC-6a

AC-6b

DC-1

DC-3

DC-5

Poles description 4P

[Ue] rated operational voltage ≤ 1000 V AC 50/60 Hz

≤ 460 V DC

[Ie] rated operational current 150 A (at ≤ 60 °C) at ≤ 440 V AC-3

275 A (at ≤ 40 °C) at ≤ 1000 V AC-1

[Uc] control circuit voltage 100...250 V AC 50/60 Hz

100...250 V DC

Control circuit voltage limits Operational: 0.8 Uc Min...1.1 Uc Max (at ≤ 60 °C)

Drop-out: 0.1 Uc Max...0.45 Uc Min (at ≤ 60 °C)

Complementary

[Uimp] rated impulse withstand voltage

8 kV

Overvoltage category III

[Ith] conventional free air thermal current

275 A (at 40 °C)

Rated breaking capacity 1280 A at 440 V

[Icw] rated short-time withstand current

1.2 kA - 10 s

0.7 kA - 30 s

0.6 kA - 1 min

0.45 kA - 3 min

0.35 kA - 10 min

Associated fuse rating 160 A aM at ≤ 440 V for motor

160 A aM at ≤ 690 V for motor

315 A gG at ≤ 690 V

Average impedance 0.00018 Ohm

[Ui] rated insulation voltage 1000 V

Power dissipation per pole 10 W AC-1 - Ith 275 A

5 W AC-3 - Ith 150 A

Compatibility code LC1G

Pole contact composition 4 NO

Auxiliary contact composition 1 NO + 1 NC

Irms rated making capacity 1890 A at 440 V

Coil technology Built-in bidirectional peak limiting

Safety reliability level B10d = 400000 cycles contactor with nominal load conforming to EN/ISO 13849-1

B10d = 3000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1

Mechanical durability 8 Mcycles

inrush power in VA (50/60 Hz, AC) 540 VA

inrush power in W (DC) 380 W

hold-in power consumption in VA (50/60 Hz, AC)

12.4 VA

hold-in power consumption in W (DC)

7.8 W

Operating time 40...70 ms closing

15...50 ms opening

Maximum operating rate 600 cyc/h AC-3

600 cyc/h AC-3e

300 cyc/h AC-1

Connections - terminals Power circuit: bar 2 - busbar cross section: 25 x 6 mm

Power circuit: lugs-ring terminals 1 185 mm²

Control circuit: push-in 1 0.2...2.5 mm² - cable stiffness: solid stranded without cable

end

Control circuit: push-in 1 0.25...2.5 mm² - cable stiffness: flexible with cable end

Control circuit: push-in 2 0.5...1.0 mm² with cable end

Control circuit: push-in 0.75...2.5 mm² - cable stiffness: solid stranded without cable

end

Control circuit: push-in 0.75...2.5 mm² - cable stiffness: flexible with cable end

Connection pitch 35 mm

Mounting support Plate

Standards EN/IEC 60947-4-1

EN/IEC 60947-5-1

UL 60947-4-1

CSA C22.2 No 60947-4-1

JIS C8201-4-1

JIS C8201-5-1

UL 60335-1

UL 60335-2-40:Annex JJ

Product certifications CB Scheme

CCC

cULus

EAC

CE

UKCA

EU-RO-MR by DNV-GL

Tightening torque 18 N.m

Height 193 mm

Width 143 mm

Depth 193 mm

Net weight 4.4 kg

Environment

IP degree of protection IP2X front face with shrouds conforming to IEC 60529

IP2X front face with shrouds conforming to VDE 0106

Ambient air temperature for

operation

-25...60 °C

Ambient air temperature for

storage

-60...80 °C

Mechanical robustness Vibrations 5...300 Hz 2 gn contactor open

Vibrations 5...300 Hz 4 gn contactor closed

Shocks 10 gn 11 ms contactor open

Shocks 15 gn 11 ms contactor closed

Colour Dark grey

Protective treatment TH

Permissible ambient air

temperature around the device

-40...70 °C at U_c

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 26.000 cm

Package 1 Width 21.000 cm

Package 1 Length 32.000 cm

Package 1 Weight 5.466 kg