

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 40 A - 110 V DC coil

Local distributor code: 386076512 LC1D258FD

EAN Code: 3389110432664

Main

Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V DC

Complementary

Complementary	
Compatibility code	LC1D
Pole contact composition	2 NO + 2 NC
Contact compatibility	M7
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2 mOhm - Ith 40 A 50 Hz for power circuit
Power dissipation per pole	3.2 W AC-1
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified

Signalling circuit: 690 V conforming to IEC 60947-1

Power circuit: 600 V UL certified

	Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
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	30 Mcycles
Electrical durability	1.4 Mcycles 40 A AC-1 at Ue <= 440 V
Control circuit type	DC standard
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.25 Uc (-4060 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC
Inrush power in W	5.4 W (at 20 °C)
Hold-in power consumption in W	5.4 W at 20 °C
Operating time	53.5572.45 ms closing 1624 ms opening
Time constant	28 ms
Maximum operating rate	3600 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on connector - with screwdriver flat Ø 6 mm Power circuit: 1.8 N.m - on connector - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
Signalling circuit frequency	25400 Hz
Minimum switching voltage	17 V for signalling circuit
Minimum switching current	5 mA for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Mounting support	Rail Plate
Environment	
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product certifications	UL

CSA CCC EAC UKCA CB EU-RO-MR by DNV-GL

IP degree of protection IP20 front face conforming to IEC 60529

Protective treatment TH conforming to IEC 60068-2-30

Climatic withstand conforming to IACS E10 exposure to damp heat

conforming to IEC 60947-1 Annex Q category D exposure to damp heat

Permissible ambient air -40...60 °C

temperature around the device 60...70 °C with derating

Operating altitude 0...3000 m

Fire resistance 850 °C conforming to IEC 60695-2-1

Flame retardance V1 conforming to UL 94

Mechanical robustness

Vibrations contactor open (2 Gn, 5...300 Hz)

Vibrations contactor closed (4 Gn, 5...300 Hz)

Shocks contactor closed (15 Gn for 11 ms)

Shocks contactor open (8 Gn for 11 ms)

Height 91 mm

Width 45 mm

Depth 107 mm

Net weight 0.585 kg

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1 1

Package 1 Height 5.5 cm

Package 1 Width 9.5 cm

Package 1 Length 12.0 cm

Package 1 Weight 630.0 g

Unit Type of Package 2 S02

Number of Units in Package 2 15

Package 2 Height 15.0 cm

Package 2 Width 30.0 cm

Package 2 Length 40.0 cm

Package 2 Weight 9.92 kg

Unit Type of Package 3 P06

Number of Units in Package 3 240

Package 3 Height 77.0 cm

Package 3 Width 80.0 cm

Package 3 Length 60.0 cm

Package 3 Weight 151.44 kg

Offer Sustainability

Sustainable offer status Green Premium product

REACh Regulation REACh Declaration

EU RoHS Directive Compliant

EU RoHS Declaration

Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
PVC free	Yes

Contractual warranty

Warranty 18 months

Recommended replacement(s)