Product data sheet

Specifications



Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, IEC, <=440V, 50A, 120V AC 60Hz coil

LC2D50G7

Product availability: Stock - Normally stocked in distribution facility

Main

Product or Component Type	Reversing contactor
Device short name	LC2D
Contactor application	Motor control
Utilisation category	AC-2 AC-3 AC-4
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for control circuit 80 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	- Ith 80 A 50 Hz for power circuit
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
Front cover	With
Interlocking type	Mechanical
Mounting Support	Plate Rail
Product Certifications	GL UL RINA GOST CSA LROS (Lloyds register of shipping) CCC DNV BV UKCA

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Connections - terminals	Control circuit 1 0.002…0.006 in² (1…4 mm²)flexible with cable end Control circuit 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit 1 0.002…0.006 in² (1…4 mm²)solid without cable end Control circuit 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit 2 0.002…0.006 in² (1…4 mm²)solid without cable end Power circuit 1 0.002…0.05 in² (1…35 mm²)flexible with cable end Power circuit 1 0.002…0.05 in² (1…35 mm²)flexible without cable end Power circuit 1 0.002…0.05 in² (1…35 mm²)solid without cable end Power circuit 2 0.002…0.04 in² (1…25 mm²)flexible with cable end Power circuit 2 0.002…0.04 in² (1…25 mm²)flexible without cable end Power circuit 2 0.002…0.04 in² (1…25 mm²)solid without cable end Power circuit 2 0.002…0.05 in² (1…35 mm²)flexible with cable end Power circuit 2 0.002…0.05 in² (1…35 mm²)flexible without cable end Power circuit 2 0.002…0.05 in² (1…35 mm²)solid without cable end
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) 0.002…0.004 in² (1…2.5 mm²) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) 0.002…0.004 in² (1…2.5 mm²) Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) 0.002…0.006 in² (1…4 mm²) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) 0.002…0.006 in² (1…4 mm²) Philips No 2 Power circuit 44.3 lbf.in (5 N.m) 0.002…0.04 in² (1…25 mm²) hexagonal Power circuit 70.8 lbf.in (8 N.m) 0.002…0.05 in² (1…35 mm²) hexagonal
Operating time	12...26 ms closing 4...19 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	6000000 cycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Inrush power in VA	200 VA cos phi 0.75 (at 68 °F (20 °C)) 220 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 26 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 26 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm for control circuit

Environment

Ambient Air Temperature for Storage	-76…176 °F (-60…80 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Height	5.2 in (132 mm)
Width	6.5 in (165 mm)
Depth	5.6 in (142 mm)
Net Weight	5.3 lb(US) (2.4 kg)

Ordering and shipping details

Category	US1CTR121252
Discount Schedule	CTR1
GTIN	3389110456677
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.100 in (18.034 cm)
Package 1 Width	7.500 in (19.050 cm)
Package 1 Length	9.800 in (24.892 cm)
Package weight(Lbs)	7.101 lb(US) (3.221 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**108 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**12 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.3 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**91 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**5 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov**
PVC free	**Yes**

Use Again

Repack and remanufacture

Recyclability potential, in %	**76**
Circularity Profile	**No need of specific recycling operations**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**