

Product datasheet

Specifications



reversing contactor TeSys LC2-D - 4 poles - AC-1 440V 80 A - coil 220 V AC

LC2D65004M7

! Discontinued

Main

Range of product	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contactors application	Resistive load
Utilisation category	AC-1
Control circuit type	AC
Coil type	Standard
Poles description	4P
Pole contact composition	4 NO
[Ie] rated operational current	Power circuit: 80 A AC AC-1 (at <60 °C)
[Uc] control circuit voltage	220 V AC 50/60 Hz
Connections - terminals	Control circuit: 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: 1 cable(s) 1...4 mm ² solid without cable end Control circuit: 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: 2 cable(s) 1...4 mm ² solid without cable end Power circuit: 1 cable(s) 1...35 mm ² flexible with cable end Power circuit: 1 cable(s) 1...35 mm ² flexible without cable end Power circuit: 1 cable(s) 1...35 mm ² solid without cable end Power circuit: 2 cable(s) 1...25 mm ² flexible with cable end Power circuit: 2 cable(s) 1...25 mm ² flexible without cable end Power circuit: 2 cable(s) 1...25 mm ² solid without cable end Power circuit: 2 cable(s) 1...35 mm ² flexible with cable end Power circuit: 2 cable(s) 1...35 mm ² flexible without cable end Power circuit: 2 cable(s) 1...35 mm ² solid without cable end

Complementary

Assembly style	Ready assembled
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
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
Interlocking type	Mechanical
Control circuit voltage limits	Drop-out: 0.3...0.6 U _c at 50/60 Hz (at <55 °C) Operational: 0.8...1.1 U _c at 50 Hz (at <55 °C) Operational: 0.85...1.1 U _c at 50/60 Hz (at <55 °C) Operational: 0.85...1.1 U _c at 60 Hz (at <55 °C)

[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-1 Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
Mounting support	Rail Plate
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit: 1.7 N.m - cable 1...2.5 mm ² - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - cable 1...2.5 mm ² - with screwdriver Philips No 2 Control circuit: 1.7 N.m - cable 1...4 mm ² - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - cable 1...4 mm ² - with screwdriver Philips No 2 Power circuit: 5 N.m - cable 1...25 mm ² hexagonal screw head Power circuit: 8 N.m - cable 1...35 mm ² hexagonal screw head
[Ue] rated operational voltage	Power circuit: ≤ 690 V AC 25...400 Hz
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 80 A (at 60 °C) for power circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 125 A gG at ≤ 690 V coordination type 2 for power circuit 160 A gG at ≤ 690 V coordination type 1 for power circuit
Average impedance	- Ith 80 A 50 Hz for power circuit
Power dissipation per pole	6.3 W AC-3 - Ith 80 A
Inrush power in VA	200 VA cos phi 0.75 (at 20 °C) 220 VA cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 20 °C) 22 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C) 26 VA 60 Hz cos phi 0.3 (at 20 °C)
Operating time	12...26 ms closing 4...19 ms opening
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	6000000 cycles
Maximum operating rate	3600 cyc/h 60 °C
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
Height	138 mm
Width	182 mm
Depth	133 mm
Net weight	3.2 kg

Environment

Standards	IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 IEC 60947-4-1 EN 60947-5-1 UL 508
Product certifications	DNV RINA CSA GOST GL LROS (Lloyds register of shipping) BV UL CCC
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Protective treatment	TH (pollution degree 3) conforming to IEC 60068
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at U _c
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	10 gn contactor closed 8 gn contactor opened
Vibration resistance	2 gn 5...300 Hz contactor opened 3 gn 5...300 Hz contactor closed
Heat dissipation	6...10 W at 50/60 Hz for control circuit

Contractual warranty

Warranty (in months)	18
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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 >](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins