

Product data sheet

Specifications



TeSys D changeover contactor - 4P(4 NO) - AC-1 - \leq 440 V 25 A - 110 V AC coil

LC2DT25F7V

⚠ Discontinued on: Jan 18, 2021

⚠ Discontinued

Main

Range	TeSys
Product name	TeSys D
Product or component type	Changeover contactor
Device short name	LC2D
Contactors application	Resistive load
Utilisation category	AC-1
Device presentation	Preassembled, with prewired power connections
Poles description	4P
power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit \leq 690 V AC 25...400 Hz Power circuit \leq 300 V DC
[Ie] rated operational current	25 A (at 140°F (60°C)) at \leq 440 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Oversvoltage category	III
[Ith] conventional free air thermal current	10 A (at 140°F (60°C)) for signalling circuit 25 A (at 140°F (60°C)) for power circuit
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	30 A 104°F (40°C) - 10 min for power circuit 61 A 104°F (40°C) - 1 min for power circuit 105 A 104°F (40°C) - 10 s for power circuit 210 A 104°F (40°C) - 1 s 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 40 A gG at \leq 690 V coordination type 1 for power circuit 25 A gG at \leq 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit

[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	0.8 Mcycles 25 A AC-1 <= 440 V
Power dissipation per pole	1.56 W AC-1
Front cover	With
Interlocking type	Electrical and mechanical
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	RINA BV UL CSA GL CCC GOST DNV LROS (Lloyds register of shipping)
Connections - terminals	Power circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Power circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Power circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Power circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Power circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid Power circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²)solid Control circuit screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²)solid
Tightening torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
Operating time	12...22 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	15 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Complementary	
Coil technology	Without built-in suppressor module

Control circuit voltage limits	0.3...0.6 U _c (-40...158 °F (-40...70 °C));drop-out AC 50/60 Hz 0.8...1.1 U _c (-40...140 °F (-40...60 °C));operational AC 50 Hz 0.85...1.1 U _c (-40...140 °F (-40...60 °C));operational AC 60 Hz 1...1.1 U _c (140...158 °F (60...70 °C));operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	2...3 W 50/60 Hz
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V 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
Insulation resistance	> 10 MOhm for signalling circuit

Environment

IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Operating altitude	0...3000 m
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	3.3 in (85 mm)
Width	3.5 in (90 mm)
Depth	3.5 in (90 mm)
Net weight	1.61 lb(US) (0.73 kg)

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 Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

PVC free

Yes

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