

Product data sheet

Specifications



Contactors, TeSys Deca, 4P (2NO+2NC), AC-1 ≤ 440 V 125 A, 12 V AC 50 Hz coil, ring-lug terminals

LC1D800086J5

⚠ Discontinued

Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
Contactors application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	Power circuit ≤ 300 V DC 25...400 Hz Power circuit ≤ 690 V AC
[Ie] rated operational current	125 A (at <140 °F (60 °C)) at ≤ 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	12 V AC 50 Hz

Complementary

Compatibility code	LC1D
Pole contact composition	2 NO + 2 NC
Protective cover	Without
[Ith] conventional free air thermal current	125 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit 135 A 104 °F (40 °C) - 10 min for power circuit 320 A 104 °F (40 °C) - 1 min for power circuit
Associated fuse rating	200 A gG at ≤ 690 V coordination type 1 for power circuit 160 A gG at ≤ 690 V coordination type 2 for power circuit
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
Power dissipation per pole	12.5 W AC-1
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV IEC 60947

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

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	10 Mcycles
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V
Control circuit type	AC 50 Hz
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 Hz 0.85...1.1 U _c (-40...131 °F (-40...55 °C)):operational AC 50 Hz 1...1.1 U _c (131...158 °F (55...70 °C)):operational AC 50 Hz
Inrush power in VA	200 VA 50 Hz 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))
Heat dissipation	6...10 W at 50 Hz
Operating time	20...35 ms closing 6...20 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals flat Ø 8 mm M6 Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals hexagonal 0.4 in (10 mm) M6 Power circuit 44.3 lbf.in (5 N.m) bars flat Ø 8 mm M6 Power circuit 44.3 lbf.in (5 N.m) bars hexagonal 0.4 in (10 mm) M6
Mounting Support	Plate Rail

Environment

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	UL BV CSA CCC RINA GOST DNV LROS (Lloyds register of shipping) GL
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat
Permissible ambient air temperature around the device	-76...176 °F (-60...80 °C) storage -40...140 °F (-40...60 °C) operation 140...158 °F (60...70 °C) with derating
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5...300 Hz) Shocks contactor closed 10 Gn for 11 ms)

Height	5 in (127 mm)
Width	3.8 in (96 mm)
Depth	5.5 in (140 mm)
Net Weight	4.06 lb(US) (1.84 kg)

Ordering and shipping details

Category	22359-CTR, TESYS D, OPEN, 80-150A AC&DC
Discount Schedule	I12
GTIN	3389110452921
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

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