

IEC contactor, TeSys Deca, nonreversing, 20A resistive, 4 pole, 2 NO and 2 NC, 24VDC coil, open style

LC1D098BD

Product availability: Stock - Normally stocked in distribution facility

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 Power circuit <= 250 V DC
[le] rated operational current	20 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Compatibility code	LC1D	
Pole contact composition	2 NO + 2 NC	
Protective cover	With	
[Ith] conventional free air thermal	20 A (at 140 °F (60 °C)) for power circuit	
current	10 A (at 140 °F (60 °C)) for signalling 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	
[lcw] rated short-time withstand	105 A 104 °F (40 °C) - 10 s for power circuit	
current	210 A 104 °F (40 °C) - 1 s for power circuit	
	30 A 104 °F (40 °C) - 10 min for power circuit	
	61 A 104 °F (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	
	25 A gG at <= 690 V coordination type 1 for power circuit	
	20 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit	
Power dissipation per pole	1.56 W AC-1	

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

[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	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
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	30 Mcycles	
Electrical durability	0.3 Mcycles 20 A AC-1 <= 690 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.25 Uc (-40140 °F (-4060 °C)):drop-out DC 0.71.25 Uc (-40140 °F (-4060 °C)):operational DC 11.25 Uc (140158 °F (6070 °C)):operational DC	
Inrush power in W	5.4 W 68 °F (20 °C))	
Hold-in power consumption in W	5.4 W 68 °F (20 °C)	
Operating time	63 ±15 % ms closing 20 ±20 % ms opening	
Time constant	28 ms	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end	
Tightening torque Auxiliary contact composition	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 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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	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 60947-4-1	
	IEC 60335-1:Clause 30.2	
	IEC 60335-2-40:Annex JJ	
	UL 60335-2-40:Annex JJ	
	CSA C22.2 No 60947-4-1	
Product Certifications	UL	
	CCC	
	CSA	
	Marine	
	UKCA	
	EAC	
	CB Scheme	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	
Climatic withstand	IACS E10 exposure to damp heat	
	IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible ambient air	-40140 °F (-4060 °C)	
temperature around the device	140158 °F (6070 °C) with derating	
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Operating altitude	09842.52 ft (03000 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, 5300 Hz)	
	Vibrations contactor closed 4 Gn, 5300 Hz)	
	Shocks contactor open 10 Gn for 11 ms)	
	Shocks contactor closed 15 Gn for 11 ms)	
-	Shocks contactor closed to Office 11 ms)	
Height	3.3 in (85 mm)	
Width	1.8 in (45 mm)	
Depth	3.9 in (99 mm)	
Net Weight	1 157 lb/(152) (0 525 kg)	
iver vveight	1.157 lb(US) (0.525 kg)	

Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
GTIN	3389110334104
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE

Nbr. of units in pkg.	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	3.74 in (9.500 cm)
Package 1 Length	4.72 in (12.000 cm)
Package weight(Lbs)	19.541 oz (554.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	16
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	20.640 lb(US) (9.362 kg)

Contractual warranty

Warranty 18 months



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	45
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4-a369-50d0dea6e592
REACh Regulation	REACh Declaration
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	
Circularity Profile	End of Life Information
Take-back	No

Product data sheet

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Image of product / Alternate images

Alternative







Technical Illustration

Assembly's dimensions



