Product data sheet

Specifications





IEC contactor, TeSys Deca Green, nonreversing, 80A resistive, 4 pole, 4 NO, 24/60VAC/VDDC coil, open style

LC1DT80ABNE

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 642.00 USD

Main

Range	TeSys TeSys Deca
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
[le] rated operational current	80 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit
[Uc] control circuit voltage	2460 V AC 50/60 Hz 2460 V DC

Complementary

Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	With
[lth] conventional free air thermal current	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit
Irms rated making capacity	1000 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	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit 520 A 104 °F (40 °C) - 10 s for power circuit 900 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	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	1.6 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	10.2 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 Signalling circuit 690 V IEC 60947-1
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	6 Mcycles
Electrical durability	0.5 Mcycles 80 A AC-1 <= 440 V
Control circuit type	AC/DC 50/60 Hz AC/DC electronic
Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40158 °F (-4070 °C) drop-out AC/DC 0.851.1 Uc -40140 °F (-4060 °C) operational AC 0.81.1 Uc -40140 °F (-4060 °C) operational DC 11.1 Uc 140158 °F (6070 °C) operational AC/DC
Inrush power in VA	15 VA 50/60 Hz (at 68 °F (20 °C))
Inrush power in W	16 W 68 °F (20 °C))
Hold-in power consumption in VA	1 VA 50/60 Hz (at 68 °F (20 °C))
Hold-in power consumption in W	0.7 W 68 °F (20 °C)
Heat dissipation	0.7 W at 50/60 Hz
Operating time	5565 ms closing 2080 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.0020.004 in ² (12.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: solid Control circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: solid Control circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 1 0.0020.05 in ² (135 mm ²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.0020.05 in ² (135 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.05 in ² (135 mm ²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: solid
Tightening torque	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 Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ² (25
	35 mm²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in² (1 25 mm²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2
Auxiliary contact composition	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in ² (1 25 mm ²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) pozidriv No 2
Auxiliary contact composition Auxiliary contacts type	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in ² (1 25 mm ²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2

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	EN/IEC 60947-4-1
	EN/IEC 60947-5-1
	UL 60947-4-1
	CSA C22.2 No 60947-4-1
	IEC 60335-1
Product Certifications	CCC
	CSA
	EAC
	UL
	KC
	NC DNV-GL
	LROS (Lloyds register of shipping)
	UKCA
IP degree of protection	IP20 front face IEC 60529
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
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)
Height	4.8 in (122 mm)
Width	2.8 in (70 mm)
Depth	4.7 in (120 mm)
Net Weight	2.844 lb(US) (1.290 kg)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
GTIN	3606489493479
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.098 in (7.870 cm)

Package 1 Width	5.402 in (13.720 cm)
Package 1 Length	6.000000000 in (15.240 cm)
Package 1 Weight	2.668 lb(US) (1.210 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	13.305 lb(US) (6.035 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Halogen Free Plastic Parts & Cables Product

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information