Specifications





IEC contactor, TeSys Deca, nonreversing, 18A, 10HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open

LC1D18BD

Product availability: Stock - Normally stocked in distribution facility

Price*: 170.00 USD

Main

Range of Product TeSys Deca Product or Component Type Contactor Device short name LC1D Contactor application Motor control Resistive load Utilisation category AC-4 AC-1 AC-3 AC-3e Poles description 3P [Ue] rated operational voltage Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC		
Device short name LC1D Contactor application Motor control Resistive load Utilisation category AC-4 AC-1 AC-3 AC-3e Poles description 3P [Ue] rated operational voltage Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC [le] rated operational current 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	Range of Product	TeSys Deca
Contactor application Motor control Resistive load Utilisation category AC-4 AC-1 AC-3 AC-3e Poles description 3P [Ue] rated operational voltage Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC	Product or Component Type	Contactor
Resistive load Utilisation category AC-4 AC-1 AC-3 AC-3e Poles description 3P [Ue] rated operational voltage Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC [Ie] rated operational current 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	Device short name	LC1D
AC-1 AC-3 AC-3e Poles description 3P [Ue] rated operational voltage Power circuit <= 690 V AC 25400 Hz	Contactor application	
[Ue] rated operational voltage Power circuit <= 690 V AC 25400 Hz	Utilisation category	AC-1 AC-3
Power circuit <= 300 V DC	Poles description	3P
32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	[Ue] rated operational voltage	
[Uc] control circuit voltage 24 V DC	[le] rated operational current	32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
	[Uc] control circuit voltage	24 V DC

Complementary

Motor power kW	4 kW at 220230 V AC 50/60 Hz (AC-3)		
	7.5 kW at 380400 V AC 50/60 Hz (AC-3)		
	9 kW at 415440 V AC 50/60 Hz (AC-3)		
	10 kW at 500 V AC 50/60 Hz (AC-3)		
	10 kW at 660690 V AC 50/60 Hz (AC-3)		
	4 kW at 400 V AC 50/60 Hz (AC-4)		
	4 kW at 220230 V AC 50/60 Hz (AC-3e)		
	7.5 kW at 380400 V AC 50/60 Hz (AC-3e)		
	9 kW at 415440 V AC 50/60 Hz (AC-3e)		
	10 kW at 500 V AC 50/60 Hz (AC-3e)		
	10 kW at 660690 V AC 50/60 Hz (AC-3e)		
Maximum Horse Power Rating	1 hp at 115 V AC 50/60 Hz for 1 phase motors		
	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors		
	5 hp at 200/208 V AC 50/60 Hz for 3 phase motors		
	5 hp at 230/240 V AC 50/60 Hz for 3 phase motors		
	10 hp at 460/480 V AC 50/60 Hz for 3 phase motors		
	15 hp at 575/600 V AC 50/60 Hz for 3 phase motors		
Compatibility code	LC1D		
Pole contact composition	3 NO		
Protective cover	With		
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit		
current	32 A (at 140 °F (60 °C)) for power circuit		

32 A (at 140 °F (60 °C)) for power circuit

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

Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1			
	250 A DC for signalling circuit conforming to IEC 60947-5-1			
	300 A at 440 V for power circuit conforming to IEC 60947			
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947			
[Icw] rated short-time withstand	145 A 104 °F (40 °C) - 10 s for power circuit			
current	240 A 104 °F (40 °C) - 1 s for power circuit			
	40 A 104 °F (40 °C) - 10 min for power circuit			
	84 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			
	50 A gG at <= 690 V coordination type 1 for power circuit			
	35 A gG at <= 690 V coordination type 2 for power circuit			
Average impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit			
Power dissipation per pole	2.5 W AC-1			
	0.8 W AC-3			
	0.8 W AC-3e			
[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	1.65 Mcycles 18 A AC-3 <= 440 V			
	1 Mcycles 32 A AC-1 <= 440 V			
	1.65 Mcycles 18 A AC-3e <= 440 V			
Control circuit type	DC standard			
Coil technology	With integral suppression device			
Control circuit voltage limits	0.10.25 Uc -40158 °F (-4070 °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 140 °F (60 °C)			
Maximum operating rate	3600 cyc/h at 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 without cable end			
	Control circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable			
	stiffness: solid without cable end			
	Power circuit: screw clamp terminals 1 0.0020.009 in ² (1.56 mm ²) - cable			
	stiffness: flexible without cable end			
	Power circuit: screw clamp terminals 2 0.0020.009 in ² (1.56 mm ²) - cable stiffness: flexible without cable end			
	Power circuit: screw clamp terminals 1 0.0020.009 in ² (16 mm ²) - cable stiffness:			
	flexible with cable end			
	Power circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness:			
	flexible with cable end			
	Power circuit: screw clamp terminals 1 0.0020.009 in ² (1.56 mm ²) - cable			
	stiffness: solid without cable end			
	Power circuit: screw clamp terminals 2 0.0020.009 in ² (1.56 mm ²) - cable			
	stiffness: solid without cable end			
Fightening 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			
	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 contact composition	1 NO + 1 NC			
A				
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 temperature around the device	-40140 °F (-4060 °C) ce 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	3.03 in (77 mm)	
Width	1.8 in (45 mm)	
Depth	3.7 in (95 mm)	
Net Weight	1.08 lb(US) (0.49 kg)	

Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
GTIN	3389110354775
Returnability	Yes
Country of origin	MX

Packing Units

-	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	4.331 in (11.000 cm)
Package 1 Weight	18.430 oz (522.500 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
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	17.875 lb(US) (8.108 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	302.210 lb(US) (137.080 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 >



Yes

Sustainable Packaging Transparency RoHS/REACh

Resource performance

Sustainable Packaging

Well-being performance

Mercury Free

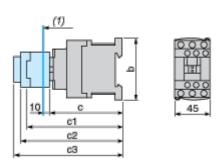
Rohs Exemption Information

Certifications & Standards

Reach Regulation	REACh Declaration Compliant with Exemptions		
Eu Rohs Directive			
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
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		

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1	1	D09D18	D093D123	D099D129
b		77	99	80
	without cover or add-on blocks	93	93	93
c	with cover, without add-on blocks	95	95	95
c1	with LAD N or C (2 or 4 contacts)	126	126	126
c2	with LA6 DK10	138	138	138
~ 2	with LAD T, R, S	146	146	146
c3	with LAD T, R, S and sealing cover	150	150	150

Connections and Schema

Wiring

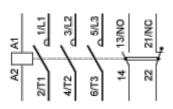


Image of product / Alternate images

Alternative





