

IEC contactor, TeSys Deca, nonreversing, 38A, 20HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, low consumption 24VDC coil

LC1D38BL

Product availability: Stock - Normally stocked in distribution facility

Price*: 289.20 USD

Main

Range	TeSys TeSys Deca
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
[le] rated operational current	50 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 38 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 38 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Motor power kW	18.5 kW at 500 V AC 50/60 Hz (AC-3)
	18.5 kW at 660690 V AC 50/60 Hz (AC-3)
	7.5 kW at 400 V AC 50/60 Hz (AC-4)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3)
	9 kW at 220230 V AC 50/60 Hz (AC-3)
	18.5 kW at 415440 V AC 50/60 Hz (AC-3)
	18.5 kW at 500 V AC 50/60 Hz (AC-3e)
	18.5 kW at 660690 V AC 50/60 Hz (AC-3e)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	9 kW at 220230 V AC 50/60 Hz (AC-3e)
	18.5 kW at 415440 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	10 hp at 230/240 V AC 50/60 Hz for 3 phase motors
	10 hp at 200/208 V AC 50/60 Hz for 3 phase motors
	5 hp at 240 V AC 50/60 Hz for 1 phase motors
	20 hp at 480 V AC 50/60 Hz for 3 phase motors
	25 hp at 600 V AC 50/60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With

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

[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 50 A (at 140 °F (60 °C)) for power circuit	
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 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	60 A 104 °F (40 °C) - 10 min for power circuit 430 A 104 °F (40 °C) - 1 s for power circuit 150 A 104 °F (40 °C) - 1 min for power circuit 310 A 104 °F (40 °C) - 10 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 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2 mOhm - Ith 50 A 50 Hz for power circuit	
Power dissipation per pole	5 W AC-1 3 W AC-3 3 W AC-3e	
[Ui] rated insulation voltage	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 Power circuit 690 V IEC 60947-4-1	
Overvoltage category	III	
Overvoltage category Pollution degree	3	
Pollution degree [Uimp] rated impulse withstand	3	
Pollution degree [Uimp] rated impulse withstand voltage	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V 1.4 Mcycles 38 A AC-3e <= 440 V	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V DC low consumption	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V 1.4 Mcycles 38 A AC-3e <= 440 V DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V 1.4 Mcycles 38 A AC-3e <= 440 V DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V 1.4 Mcycles 38 A AC-3e <= 440 V DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 2.4 W 68 °F (20 °C))	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W Hold-in power consumption in W	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.4 Mcycles 50 A AC-1 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V 1.4 Mcycles 38 A AC-3 <= 440 V DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 2.4 W 68 °F (20 °C)) 2.4 W 68 °F (20 °C) 77 ±15 % ms closing	

Connections - terminals	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 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 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 Power circuit: screw clamp terminals 1 0.0040.02 in² (2.510 mm²) - cable	
	stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 0.0020.02 in² (110 mm²) - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable	
	stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.02 in² (1.510 mm²) - cable	
	stiffness: solid without cable end	
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness: solid without cable end	
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 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 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 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
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	Rail	
	Plate	
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) 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 closed 15 Gn for 11 ms) Shocks contactor open 8 Gn for 11 ms)	
Height	3.3 in (85 mm)	
Width	1.8 in (45 mm)	
Depth	4.0 in (101 mm)	
Product Weight	1.19 lb(US) (0.54 kg)	

Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
GTIN	3389110361896
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	3.62 in (9.200 cm)
Package 1 Length	4.41 in (11.200 cm)
Package 1 Weight	20.952 oz (594.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
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	20.168 lb(US) (9.148 kg)

Contractual warranty

Warranty 18 months

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.

How this information helps you >

Carbon footprint (kg CO2 eq, Total Life cycle)	32
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4- a369-50d0dea6e592
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS 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

Circularity Profile End of Life Information The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. Take-back No

LC1D38BL

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Product data sheet

LC1D38BL

Image of product / Alternate images

Alternative





