# LC1D188ED

IEC contactor, TeSys Deca, nonreversing, 32A resistive, 4 pole, 2 NO and 2 NC, 48VDC coil, open style





#### Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Poles description	4P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz
[le] rated operational current	32 A (at <140 $^{\circ}$ F (60 $^{\circ}$ C)) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	48 V DC

### Complementary

Complementary	
Compatibility code	LC1D
Pole contact composition	2 NO + 2 NC
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 32 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 60947-5-1 300 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
[lcw] rated short-time withstand current	145 A 104 °F (40 °C) - 10 s for power circuit 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
[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 Mcycles 32 A AC-1 <= 440 V

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. This documentation is not integrated to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Control circuit type	DC standard
Coil technology	With integral suppression device
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
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)
Connections - terminals	Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.000.02 in² (2.510 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.000.02 in² (2.510 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.000.02 in² (2.510 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.000.02 in² (2.510 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.000.02 in² (2.516 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.000.02 in² (2.516 mm²) - cable stiffness: solid without cable end
Tightening torque	Stiffness: solid without cable end  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 15.93 lbf.in (1.8 N.m) screw clamps terminals flat Ø 6 mm Power circuit 15.93 lbf.in (1.8 N.m) screw clamps terminals Philips No 2
Auxiliary contact composition	Power circuit 15.93 lbf.in (1.8 N.m) screw clamp terminals pozidriv No 2  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	Plate Rail
Environment	
	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Standards	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Standards Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-5-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]UKCA[RETURN]CB[RETURN]
Environment Standards  Product Certifications  IP degree of protection  Protective treatment	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-5-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4  UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]UKCA[RETURN]CB[RETURN RO-MR by DNV-GL

Permissible ambient air temperature around the	-40140 °F (-4060 °C)	
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	3.58 in (91 mm)	
Width	1.77 in (45 mm)	
Depth	4.21 in (107 mm)	
Net Weight	1.29 lb(US) (0.585 kg)	

# Ordering and shipping details

Category	US10I1222355	
Discount Schedule	0112	
GTIN	3389110420432	
Returnability	No	
Country of origin	ID	

## Packing Units

1
0.47 :- (5.5)
2.17 in (5.5 cm)
3.74 in (9.5 cm)
4.72 in (12 cm)
22.26 oz (631 g)
S02
15
5.91 in (15 cm)
11.81 in (30 cm)
15.75 in (40 cm)
22.27 lb(US) (10.1 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	☐ China RoHS Declaration
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes

### Contractual warranty

Contractadi Wallanty		
Warranty	18 months	