

# LC1D80ED

IEC contactor, TeSys D, nonreversing, 80A, 60HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48VDC coil, open style

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



Price\* : 447.00 USD



## Main

Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 300 V DC 25...400 Hz Power circuit <= 690 V AC
[Ie] rated operational current	125 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 80 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit
Motor power kW	22 kW 220...230 V AC 50/60 Hz AC-3) 37 kW 380...400 V AC 50/60 Hz AC-3) 45 kW 415...440 V AC 50/60 Hz AC-3) 55 kW 500 V AC 50/60 Hz AC-3) 45 kW 660...690 V AC 50/60 Hz AC-3) 45 kW 1000 V AC 50/60 Hz AC-3) 15 kW 400 V AC 50/60 Hz AC-4)
Motor power HP (UL / CSA)	20 hp 200/208 V at AC 50/60 Hz for 3 phase 7.5 hp 115 V at AC 50/60 Hz for 1 phase 15 hp 230/240 V at AC 50/60 Hz for 1 phase 25 hp 230/240 V at AC 50/60 Hz for 3 phase 60 hp 460/480 V at AC 50/60 Hz for 3 phase 60 hp 575/600 V at AC 50/60 Hz for 3 phase
Control circuit type	DC standard

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

[Uc] control circuit voltage	48 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 125 A 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 1100 A 440 V power circuit IEC 60947
Rated breaking capacity	1100 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	640 A 104 °F (40 °C) - 10 s power circuit 990 A 104 °F (40 °C) - 1 s power circuit 135 A 104 °F (40 °C) - 10 min power circuit 320 A 104 °F (40 °C) - 1 min power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 200 A gG ≤ 690 V type 1 power circuit 160 A gG ≤ 690 V type 2 power circuit
Average impedance	0.8 mOhm - Ith 125 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	0.8 Mcycles 125 A AC-1 ≤ 440 V 1.5 Mcycles 80 A AC-3 ≤ 440 V
Power dissipation per pole	5.1 W AC-3 12.5 W AC-1
Front cover	With
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	UL CSA GOST LROS (Lloyds register of shipping) DNV GL BV RINA CCC
Connections - terminals	Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Power circuit connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )flexible without cable end Power circuit connector 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> )flexible without cable end Power circuit connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )flexible with cable end Power circuit connector 2 0.01...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> )flexible with cable end Power circuit connector 1 0.01...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )solid without cable end Power circuit connector 2 0.01...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> )solid without cable end
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)
Operating time	95...130 ms closing 20...35 ms opening

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	4 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

### Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.1...0.3 Uc -40...158 °F (-40...70 °C) drop-out DC 0.85...1.1 Uc -40...131 °F (-40...55 °C) operational DC 1...1.1 Uc 131...158 °F (55...70 °C) operational DC
Time constant	75 ms
Inrush power in W	22 W 68 °F (20 °C))
Hold-in power consumption in W	22 W 68 °F (20 °C)
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V 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
Insulation resistance	> 10 MOhm for signalling circuit

### Environment

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Operating altitude	0...9842.52 ft (0...3000 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, 5...300 Hz Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5...300 Hz Shocks contactor closed: 10 Gn for 11 ms
Height	5.00 in (127 mm)
Width	3.35 in (85 mm)
Depth	7.32 in (186 mm)
Net Weight	5.71 lb(US) (2.59 kg)

### Ordering and shipping details

Category	22359 - CTR, TESYS D, OPEN, 80-150A AC&DC
Discount Schedule	I12
GTIN	03389110440331
Nbr. of units in pkg.	1
Package weight(Lbs)	5.74 lb(US) (2.602 kg)
Returnability	No
Country of origin	CZ

### Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.33 in (11 cm)
Package 1 width	8.50 in (21.6 cm)

Package 1 Length	6.22 in (15.8 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Weight	12.07 lb(US) (5.473 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	48
Package 3 Weight	298.71 lb(US) (135.492 kg)
Package 3 Height	30.31 in (77 cm)
Package 3 width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)

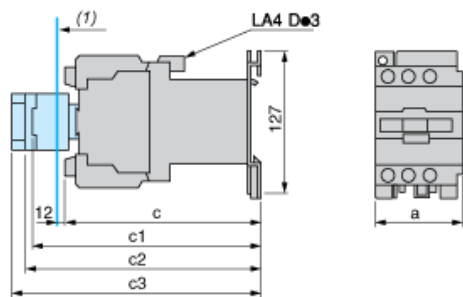
## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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Dimensions



(1) Minimum electrical clearance

LC1		D80 and D95
a		85
b1	with LAD 4BB3	–
	with LA4 DF, DT	–
c	without cover or add-on blocks	181
	with cover, without add-on blocks	186
c1	with LAD N (1 contact)	204
	with LAD N or C (2 or 4 contacts)	210
c2	with LA6 DK10	221
c3	with LAD T, R, S	229
	with LAD T, R, S and sealing cover	233

Wiring

