IEC contactor, TeSys Deca, nonreversing, 80A, 60HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D80BD

Product availability: Stock - Normally stocked in distribution

acility

TeSvs

Price*: 447.00 USD

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Protective cover

TeSys
TeSys Deca
Contactor
LC1D
Motor control Resistive load
AC-1 AC-4 AC-3 AC-3e
3P
Power circuit <= 300 V DC 25400 Hz Power circuit <= 690 V AC
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 80 A 140 °F (60 °C)) <= 440 V AC-3e power circuit
24 V DC
22 kW 220230 V AC 50/60 Hz AC-3) 37 kW 380400 V AC 50/60 Hz AC-3) 45 kW 415440 V AC 50/60 Hz AC-3) 55 kW 500 V AC 50/60 Hz AC-3) 45 kW 660690 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)
7.5 hp 120 V at AC 50/60 Hz for 1 phase 15 hp 230/240 V at AC 50/60 Hz for 1 phase 30 hp 200/208 V at AC 50/60 Hz for 3 phase 30 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
LC1D
3 NO
M9

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 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	
[lcw] 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	
Power dissipation per pole	5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e	
[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	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	8 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	4 Mcycles	
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V 1.5 Mcycles 80 A AC-3 <= 440 V 1.5 Mcycles 80 A AC-3e <= 440 V	
Control circuit type	DC standard	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.851.1 Uc -40131 °F (-4055 °C) operational DC 11.1 Uc 131158 °F (5570 °C) operational DC	
Inrush power in W	22 W 68 °F (20 °C))	
Hold-in power consumption in W	22 W 68 °F (20 °C)	
Operating time	95130 ms closing 2035 ms opening	
Time constant	75 ms	
Maximum operating rate	3600 cyc/h 140 °F (60 °C)	
Connections - terminals	Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 1 0.000.00 in² (12.5 mm²) flexible with cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²) flexible without cable end	
	Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²) solid without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²) solid without cable end Power circuit connector 1 0.010.08 in² (450 mm²) flexible without cable end Power circuit connector 2 0.010.04 in² (425 mm²) flexible without cable end Power circuit connector 1 0.010.08 in² (450 mm²) flexible with cable end Power circuit connector 2 0.010.02 in² (416 mm²) flexible with cable end Power circuit connector 1 0.010.08 in² (450 mm²) solid without cable end Power circuit connector 2 0.010.04 in² (425 mm²) solid without cable end	

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 signalling circuit
Minimum switching current	5 mA signalling circuit
Insulation resistance	> 10 MOhm 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

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	GOST RINA GL DNV CSA CCC UL LROS (Lloyds register of shipping) BV
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 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) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5300 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	l12
GTIN	3389110439977
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	4.33 in (11.000 cm)
Package 1 Width	6.38 in (16.200 cm)
Package 1 Length	8.54 in (21.700 cm)
Package 1 Weight	5.69 lb(US) (2.579 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	2
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	12.05 lb(US) (5.466 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	32
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	215.39 lb(US) (97.700 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		
REACh free of SVHC	Yes		
EU RoHS Directive	Compliant EU RoHS Declaration		
Toxic heavy metal free	Yes		
Mercury free	Yes		
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)		
RoHS exemption information	Yes		
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.		
PVC free	Yes		

Contractual warranty

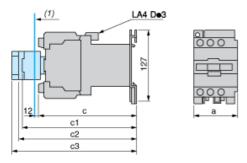
Warranty 18 months

Product data sheet

LC1D80BD

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

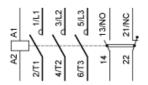
LC1		D80 and D95
а		85
b1	with LAD 4BB3	-
	with LA4 DF, DT	-
С	without cover or add-on blocks	181
	with cover, without add-on blocks	186
c1	with LAD N (1 contact)	204
	with LAD N or C (2 or 4 contacts)	210
c2	with LA6 DK10	221
с3	with LAD T, R, S	229
	with LAD T, R, S and sealing cover	233

Product data sheet

LC1D80BD

Connections and Schema

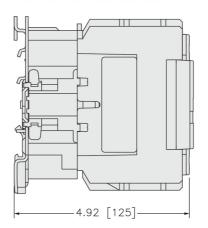
Wiring

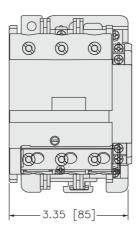


Technical Illustration

Dimensions

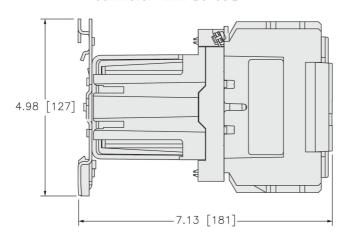
CONTACTOR WITH AC COIL

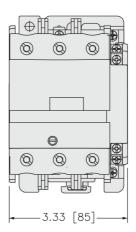




in. [mm]

CONTACTOR WITH DC COIL





ALL DIMENSIONS ARE APPROXIMATE. REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORMATION.

Recommended replacement(s)