

(!) Discontinued

IEC contactor, TeSys Deca, nonreversing, 80A, 40HP at 480VAC, 3 phase, 3 pole, 3 NO, 480VAC 50/60Hz coil, open style

LC1D80AT7

! To be discontinued on: Aug 15, 2025

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

Main

Range	TeSys TeSys Deca
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 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	80 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit 66 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 66 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	480 V AC 60 Hz

Complementary

Motor power kW	22 kW at 220230 V AC 50/60 Hz (AC-3)
	37 kW at 380400 V AC 50/60 Hz (AC-3)
	37 kW at 415 V AC 50/60 Hz (AC-3)
	37 kW at 440 V AC 50/60 Hz (AC-3)
	37 kW at 500 V AC 50/60 Hz (AC-3)
	37 kW at 660690 V AC 50/60 Hz (AC-3)
	22 kW at 220230 V AC 50/60 Hz (AC-3e)
	37 kW at 380400 V AC 50/60 Hz (AC-3e)
	37 kW at 415 V AC 50/60 Hz (AC-3e)
	37 kW at 440 V AC 50/60 Hz (AC-3e)
	37 kW at 500 V AC 50/60 Hz (AC-3e)
	37 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	5 hp at 115 V AC 60 Hz for 1 phase motors
	10 hp at 230/240 V AC 60 Hz for 1 phase motors
	20 hp at 200/208 V AC 60 Hz for 3 phase motors
	20 hp at 230/240 V AC 60 Hz for 3 phase motors
	40 hp at 460/480 V AC 60 Hz for 3 phase motors
	50 hp at 575/600 V AC 60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	

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

Protective cover	With	
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 80 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 1000 A at 440 V AC for power circuit conforming to IEC 60947	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	640 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit 110 A 104 °F (40 °C) - 10 min for power circuit 260 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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
Power dissipation per pole	9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e	
[Ui] rated insulation voltage	Signalling circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-4-1	
Overvoltage category	Ш	
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	6 Mcycles	
Electrical durability	0.7 Mcycles 80 A AC-1 <= 440 V 1 Mcycles 66 A AC-3 <= 440 V 1 Mcycles 66 A AC-3e <= 440 V	
Control circuit type	AC 60 Hz	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc (-40158 °F (-4070 °C)):drop-out AC 60 Hz 0.851.1 Uc (-40140 °F (-4060 °C)):operational AC 60 Hz 11.1 Uc (140158 °F (6070 °C)):operational AC 60 Hz	
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat dissipation	45 W at 60 Hz	
Operating time	419 ms opening 1226 ms closing	
Maximum operating rate	3600 cyc/h at 60 °C	

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 with cable end Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable
stiffness: flexible with cable end
Power circuit: EverLink BTR screw connectors 2 0.0020.04 in ² (125 mm ²) - cable stiffness: flexible with cable end
Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable
stiffness: solid Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable
stiffness: solid
Power circuit: EverLink BTR screw connectors 1 0.0020.05 in ² (135 mm ²) - cable stiffness: solid
Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable
stiffness: solid Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable
stiffness: flexible Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable
stiffness: flexible
Power circuit: EverLink BTR screw connectors 1 0.0020.05 in ² (135 mm ²) - cable stiffness: flexible
Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible
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 liat 9 0 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ² (25
35 mm²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in² (1
25 mm²) hexagonal 0.2 in (4 mm)
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
1 NO + 1 NC
Mechanically linked 1 NO + 1 NC IEC 60947-5-1
Mirror contact 1 NC IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact1.5 ms on energisation between NC and NO contact
Rail
Plate
EN 60947-4-1
EN 60947-4-1 EN 60947-5-1
IEC 60947-4-1
IEC 60947-5-1
CSA C22.2 No 14 UL 60947-4-1
IEC 60335-2-40:Annex JJ
UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2
CCC
CSA
EAC
UL KC
DNV-GL
LROS (Lloyds register of shipping)
IP20 front face IEC 60529

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 10 Gn for 11 ms)	
Height	4.8 in (122 mm)	
Width	2.2 in (55 mm)	
Depth	4.7 in (120 mm)	
Product Weight	1.90 lb(US) (0.86 kg)	

Ordering and shipping details

Category	US10I1222357	
Discount Schedule	0112	
GTIN	3606481312204	
Returnability	Yes	
Country of origin	ID	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.44 in (6.2 cm)
Package 1 Width	5.51 in (14 cm)
Package 1 Length	6.10 in (15.5 cm)
Package 1 Weight	30.0 oz (850 g)

Contractual warranty

Warranty 18 months



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.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	38
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

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

LC1D80AT7

Technical Illustration

Assembly's dimensions

