LC1D40AG7

IEC contactor, TeSys Deca, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 120VAC 50/60Hz coil, open





Main Range TeSys TeSys Deca Range of Product TeSys Deca Product or Component Contactor Device short name LC1D Contactor application Motor control Resistive load Utilisation category AC-4 AC-1 AC-3 AC-3e Poles description Power circuit <= 690 V AC 25...400 Hz [Ue] rated operational voltage Power circuit <= 300 V DC 60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for [le] rated operational current power circuit .40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit

power circuit

120 V AC 60 Hz

40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for

Complementary

Complementary		
Motor power kW	18.5 KW at 380400 V AC 50/60 Hz (AC-3) 11 KW at 220230 V AC 50/60 Hz (AC-3) 22 KW at 415440 V AC 50/60 Hz (AC-3) 22 KW at 500 V AC 50/60 Hz (AC-3) 30 KW at 660690 V AC 50/60 Hz (AC-3) 9 KW at 400 V AC 50/60 Hz (AC-4) 18.5 KW at 380400 V AC 50/60 Hz (AC-3e) 11 KW at 220230 V AC 50/60 Hz (AC-3e) 22 KW at 415440 V AC 50/60 Hz (AC-3e) 22 KW at 500 V AC 50/60 Hz (AC-3e) 30 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	5 Hp at 230/240 V AC 50/60 Hz for 1 phase motors 10 Hp at 230/240 V AC 50/60 Hz for 3 phase motors 30 Hp at 575/600 V AC 50/60 Hz for 3 phase motors 10 Hp at 200/208 V AC 50/60 Hz for 3 phase motors 3 Hp at 115 V AC 50/60 Hz for 1 phase motors 30 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 60 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 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	

[Uc] control circuit

voltage

[lcw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 10 min for power circuit 165 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1 2.4 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
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	1.4 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 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 140 °F (60 °C)
Connections - terminals	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: 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 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 connection 1 0.000.05 in² (135 mm²) - cable stiffness: flexible without cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: screw connection 2 0.000.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: screw connection 1 0.000.05 in² (135 mm²) - cable stiffness: solid without cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: solid without cable end Power circuit: screw connection 2 0.000.05 in² (135 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 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in² (2535 mm²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in² (125 mm²) hexagonal 0.16 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.13 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 contact1.5 ms on energisation between NC and NO contact	
Mounting Support	Rail Plate	

Environment

CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
CSA[RETURN]GOST[RETURN]UL[RETURN]CCC
IP20 front face IEC 60529
THIEC 60068-2-30
IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
09842.52 ft (03000 m)
1562 °F (850 °C) IEC 60695-2-1
V1 conforming to UL 94
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)
4.80 in (122 mm)
2.17 in (55 mm)
4.72 in (120 mm)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
GTIN	3389119408370
Returnability	Yes
Country of origin	FR

Packing Units

PCE
1
2.52 in (6.4 cm)
5.43 in (13.8 cm)
6.10 in (15.5 cm)
32.10 oz (910.0 g)
S02
10
5.91 in (15.0 cm)
11.81 in (30.0 cm)
15.75 in (40.0 cm)
21.77 lb(US) (9.873 kg)

Offer Sustainability

Warranty

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 EPEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

18 months