

LC1D50A6BBE

IEC contactor, TeSys Deca Green, nonreversing, 50A, 40HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VDC coil, open style



Main

Range	TeSys TeSys Deca
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	80 A 140 °F (60 °C) <= 440 V AC-1 power circuit 50 A 140 °F (60 °C) <= 440 V AC-3 power circuit 50 A 140 °F (60 °C) <= 440 V AC-3e power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Motor power kW	15 kW 220...230 V AC 50 Hz AC-3) 22 kW 380...400 V AC 50 Hz AC-3) 25 kW 415 V AC 50 Hz AC-3) 30 kW 440 V AC 50 Hz AC-3) 30 kW 500 V AC 50 Hz AC-3) 33 kW 660...690 V AC 50 Hz AC-3) 15 kW 220...230 V AC 50 Hz AC-3e) 22 kW 380...400 V AC 50 Hz AC-3e) 25 kW 415 V AC 50 Hz AC-3e) 30 kW 440 V AC 50 Hz AC-3e) 30 kW 500 V AC 50 Hz AC-3e) 33 kW 660...690 V AC 50 Hz AC-3e)
Maximum Horse Power Rating	3 Hp 115 V at AC 60 Hz for 1 phase 7.5 Hp 230/240 V at AC 60 Hz for 1 phase 15 Hp 200/208 V at AC 60 Hz for 3 phase 15 Hp 230/240 V at AC 60 Hz for 3 phase 40 Hp 460/480 V at AC 60 Hz for 3 phase 40 hp 575/600 V at AC 60 Hz for 3 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	80 A 140 °F (60 °C) power circuit 10 A 140 °F (60 °C) signalling circuit
Irms rated making capacity	900 A 440 V power circuit IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1
Rated breaking capacity	900 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	84 A 104 °F (40 °C) - 10 min power circuit 208 A 104 °F (40 °C) - 1 min power circuit 400 A 104 °F (40 °C) - 10 s power circuit 810 A 104 °F (40 °C) - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit

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 intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator 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.

Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 100 A gG ≤ 690 V type 1 power circuit 100 A gG ≤ 690 V type 2 power circuit
Average impedance	1.5 mOhm - lth 80 A 50 Hz power circuit
Power dissipation per pole	9.6 W AC-1 3.7 W AC-3 3.7 W AC-3e
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
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	1.8 Mcycles 42 A AC-3 ≤ 440 V 0.5 Mcycles 80 A AC-1 ≤ 440 V 1.8 Mcycles 42 A AC-3e ≤ 440 V
Control circuit type	DC DC low consumption
Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	≤ 0.1 Uc -40...158 °F (-40...70 °C) drop-out DC 0.8...1.2 Uc -40...140 °F (-40...60 °C) operational DC 1...1.2 Uc 140...158 °F (60...70 °C) operational DC
Inrush power in W	11 W 68 °F (20 °C))
Hold-in power consumption in W	0.5 W 68 °F (20 °C)
Heat dissipation	0.5 W
Operating time	55...65 ms closing 20...80 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Power circuit lugs-ring terminals 0.65 in (16.5 mm) Control circuit lugs-ring terminals 0.31 in (8 mm)
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 53.10 lbf.in (6 N.m) lugs-ring terminals hexagonal 0.39 in (10 mm) M6 Power circuit 53.10 lbf.in (6 N.m) lugs-ring terminals pozidriv No 2 M4 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5
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	25...400 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	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1
Product Certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA
IP degree of protection	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	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
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) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
Height	4.80 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.72 in (120 mm)
Net Weight	2.20 lb(US) (0.997 kg)







Ordering and shipping details

Category	22357-CTR, TESYS D, OPEN, 40-65A AC
Discount Schedule	I12
GTIN	3606489493615
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.50 in (6.35 cm)
Package 1 Width	5.40 in (13.72 cm)
Package 1 Length	6.00 in (15.24 cm)
Package 1 Weight	2.18 lb(US) (0.99 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant  EU RoHS Declaration
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.
Halogen content performance	Halogen free plastic parts & cables product

Contractual warranty

Warranty	18 months
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