

Product data sheet

Characteristics

LC1D40AG7

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



Product availability: Stock - Normally stocked in distribution facility



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Main

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

Complementary

Motor power kW	18.5 KW 380...400 V AC 50/60 Hz AC-3) 11 KW 220...230 V AC 50/60 Hz AC-3) 22 KW 415...440 V AC 50/60 Hz AC-3) 22 KW 500 V AC 50/60 Hz AC-3) 30 KW 660...690 V AC 50/60 Hz AC-3) 9 KW 400 V AC 50/60 Hz AC-4) 18.5 KW 380...400 V AC 50/60 Hz AC-3e) 11 KW 220...230 V AC 50/60 Hz AC-3e) 22 KW 415...440 V AC 50/60 Hz AC-3e) 22 KW 500 V AC 50/60 Hz AC-3e) 30 KW 660...690 V AC 50/60 Hz AC-3e)
Maximum Horse Power Rating	5 Hp 230/240 V at AC 50/60 Hz for 1 phase 10 Hp 230/240 V at AC 50/60 Hz for 3 phase 30 Hp 575/600 V at AC 50/60 Hz for 3 phase 10 Hp 200/208 V at AC 50/60 Hz for 3 phase 3 Hp 115 V at AC 50/60 Hz for 1 phase 30 Hp 460/480 V at AC 50/60 Hz for 3 phase
Pole contact composition	3 NO
Contact compatibility	M2
Protective cover	With
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[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
[Uimp] rated impulse withstand voltage	6 KV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 60 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 60947-5-1 800 A 440 V power circuit IEC 60947
Rated breaking capacity	800 A 440 V power circuit IEC 60947
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 80 A gG ≤ 690 V type 1 power circuit 80 A gG ≤ 690 V type 2 power circuit
Control circuit type	AC 60 Hz

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 60 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 60 Hz
Average impedance	1.5 MOhm - lth 60 A 50 Hz power circuit
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1 2.4 W AC-3e
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
Maximum operating rate	3600 Cyc/H 140 °F (60 °C)
Inrush power in VA	140 VA 60 Hz 0.75 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz 0.3 68 °F (20 °C))
Insulation resistance	> 10 MOhm signalling circuit
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 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.00...0.04 in ² (1...25 mm ²) 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
Mounting Support	Rail Plate
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
Mechanical durability	6 Mcycles
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
Operating altitude	0...9842.52 ft (0...3000 m)
Compatibility code	LC1D
Product Certifications	CSA GOST UL CCC

Environment

Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open10 Gn for 11 ms
Height	4.80 In (122 mm)
Width	2.17 In (55 mm)
Depth	4.72 In (120 mm)
Net Weight	1.87 Lb(US) (0.85 kg)

Ordering and shipping details

Category	22357-CTR, TESYS D, OPEN, 40-65A AC
Discount Schedule	I12
GTIN	3389119408370
Nbr. of units in pkg.	1
Package weight(Lbs)	32.10 Oz (910.0 g)

Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.52 In (6.4 cm)
Package 1 width	5.43 In (13.8 cm)
Package 1 Length	6.10 In (15.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Weight	21.77 Lb(US) (9.873 kg)
Package 2 Height	5.91 In (15.0 cm)
Package 2 width	11.81 In (30.0 cm)
Package 2 Length	15.75 In (40.0 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 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
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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

Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**