Product data sheet
Characteristics

LC1D95G7
IEC contactor, TeSys Deca, nonreversing, 95A, 60HP at 480VAC, 3 phase, 3 pole, 3 NO, 120VAC 50/60Hz coil, open style

Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-3e AC-4 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	95 A 140 °F (60 °C)) <= 440 V AC-3 power circuit 125 A 140 °F (60 °C)) <= 690 V AC-1 power circuit 95 A 140 °F (60 °C)) <= 440 V AC-3e power circuit
[Uc] control circuit voltage	120 V AC 50/60 Hz

Complementary

Motor power kW	25 KW 220...230 V AC 50 Hz AC-3) 45 KW 380...400 V AC 50 Hz AC-3) 45 KW 415...440 V AC 50 Hz AC-3) 55 KW 500 V AC 50 Hz AC-3) 45 KW 660...690 V AC 50 Hz AC-3) 15 KW 400 V AC 50 Hz AC-4) 25 KW 220...230 V AC 50 Hz AC-3e) 45 KW 380...400 V AC 50 Hz AC-3e) 45 KW 415...440 V AC 50 Hz AC-3e) 55 KW 500 V AC 50 Hz AC-3e) 45 kW 660...690 V AC 50 Hz AC-3e)
Maximum Horse Power Rating	7.5 Hp 120 V at AC 60 Hz for 1 phase 15 Hp 230/240 V at AC 60 Hz for 1 phase 30 Hp 200/208 V at AC 60 Hz for 3 phase 30 Hp 230/240 V at AC 60 Hz for 3 phase 60 Hp 460/480 V at AC 60 Hz for 3 phase 60 hp 575/600 V at AC 60 Hz for 3 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M11
Protective cover	With
[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	1100 A 440 V AC 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	1100 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	1100 A 104 °F (40 °C) - 1 s power circuit 800 A 104 °F (40 °C) - 10 s power circuit 400 A 104 °F (40 °C) - 1 min power circuit 135 A 104 °F (40 °C) - 10 min power circuit 140 A - 100 ms signalling circuit 120 A - 500 ms signalling circuit 100 A - 1 s 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.
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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	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e
[Ui] rated insulation voltage	Power circuit 1000 V IEC 60947-4-1 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
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 1.3 Mcycles contactor with nominal load EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	4 Mcycles
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e
Control circuit type	AC 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.8...1.1 Uc -40…131 °F (-40…55 °C) operational AC 50 Hz 0.85...1.1 Uc -40…131 °F (-40…55 °C) operational AC 60 Hz 0.3...0.6 Uc -40…158 °F (-40…70 °C) drop-out AC 50/60 Hz 1...1.1 Uc 131…158 °F (55…70 °C) operational AC 50/60 Hz
Inrush power in VA	245 VA 60 Hz 0.75 68 °F (20 °C)) 245 VA 50 Hz 0.75 68 °F (20 °C))
Hold-in power consumption in VA	26 VA 60 Hz 0.3 68 °F (20 °C)) 26 VA 50 Hz 0.3 68 °F (20 °C))
Heat dissipation	6…10 W 50/60 Hz
Operating time	20...35 ms closing 6...20 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible with cable end Control circuit screw clamp terminals 1 0.00…0.00 in² (1…2.5 mm²) flexible with cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) flexible without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) solid without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²) solid without cable end Power circuit connector 1 0.01…0.08 in² (4…50 mm²) flexible without cable end Power circuit connector 2 0.01…0.04 in² (4…25 mm²) flexible without cable end Power circuit connector 1 0.01…0.08 in² (4…50 mm²) flexible with cable end Power circuit connector 2 0.01…0.02 in² (4…16 mm²) flexible with cable end Power circuit connector 1 0.01…0.08 in² (4…50 mm²) solid without cable end Power circuit connector 2 0.01…0.04 in² (4…25 mm²) solid without cable end
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 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	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 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product Certifications	IECEE CB Scheme UL CSA CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL
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	-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) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5...300 Hz) Shocks contactor closed 10 Gn for 11 ms)
Height	5.00 in (127 mm)
Width	3.35 in (85 mm)
Depth	5.12 in (130 mm)
Net Weight	3.55 lb(US) (1.61 kg)

Ordering and shipping details

Category	22359-CTR,TESYS D,OPEN,80-150A AC&DC
Discount Schedule	I12
GTIN	3389110451269
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.10 in (15.5 cm)
Package 1 Width	3.74 in (9.5 cm)
Package 1 Length	5.31 in (13.5 cm)
Package 1 Weight	3.53 lb(US) (1.6 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
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