Product data sheet
Characteristics

LC1D1156G7
IEC contactor, TeSys Deca, nonreversing, 115A, 75HP 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-4 AC-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	200 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 115 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit 115 A 140 °F (60 °C)) AC AC-3e power circuit
[Uc] control circuit voltage	120 V AC 50/60 Hz

Complementary

Motor power kW	30 KW 220...230 V AC 50/60 Hz AC-3) 55 KW 380...400 V AC 50/60 Hz AC-3) 59 KW 415...440 V AC 50/60 Hz AC-3) 75 KW 500 V AC 50/60 Hz AC-3) 80 KW 660...690 V AC 50/60 Hz AC-3) 65 KW 1000 V AC 50/60 Hz AC-3) 18.5 KW 400 V AC 50/60 Hz AC-4) 30 KW 220...230 V AC 50/60 Hz AC-3e) 55 KW 380...400 V AC 50/60 Hz AC-3e) 59 KW 415...440 V AC 50/60 Hz AC-3e) 75 KW 500 V AC 50/60 Hz AC-3e) 80 KW 660...690 V AC 50/60 Hz AC-3e) 65 kW 1000 V AC 50/60 Hz AC-3e)
Maximum Horse Power Rating	30 Hp 200/208 V at AC 50/60 Hz for 3 phase 40 Hp 230/240 V at AC 50/60 Hz for 3 phase 75 Hp 460/480 V at AC 50/60 Hz for 3 phase 100 hp 575/600 V at AC 50/60 Hz for 3 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M13
Protective cover	With
[Ith] conventional free air thermal current	200 A 140 °F (60 °C) power circuit
Irms rated making capacity	1260 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	1100 A 440 V power circuit IEC 60947

[Icw] rated short-time withstand current	250 A 104 °F (40 °C) - 10 min power circuit 550 A 104 °F (40 °C) - 1 min power circuit 950 A 104 °F (40 °C) - 10 s power circuit 1100 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
Associated fuse rating	250 A gG <= 690 V type 1 power circuit 200 A gG <= 690 V type 2 power circuit 10 A gG signalling circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz power circuit
Power dissipation per pole	24 W AC-1 7.9 W AC-3 7.9 W AC-3e
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 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 = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	8 Mcycles
Electrical durability	0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V
Control circuit type	AC 50/60 Hz
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 Uc -40…158 °F (-40…70 °C) drop-out AC 50/60 Hz 0.8...1.15 Uc -40…131 °F (-40…55 °C) operational AC 50/60 Hz 1...1.15 Uc 131…158 °F (55…70 °C) operational AC 50/60 Hz
Inrush power in VA	280…350 VA 60 Hz 0.8 68 °F (20 °C)) 280…350 VA 50 Hz 0.8 68 °F (20 °C))
Hold-in power consumption in VA	2…18 VA 60 Hz 0.3 68 °F (20 °C)) 2…18 VA 50 Hz 0.3 68 °F (20 °C))
Heat dissipation	3…8 W 50/60 Hz
Operating time	6...20 ms opening 20...50 ms closing
Maximum operating rate	2400 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit lugs-ring terminals 0.31 in (8 mm) Power circuit lugs-ring terminals 0.98 in (25 mm) Power circuit bars 1 5 x 25 mm
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 106.21 lbf.in (12 N.m) lugs-ring terminals hexagonal 0.51 in (13 mm) M8 Power circuit 106.21 lbf.in (12 N.m) bars hexagonal 0.51 in (13 mm) M8 Control circuit 10.62 lbf.in (1.2 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	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	DNV UL CSA LROS (Lloyds register of shipping) GOST GL BV CCC RINA UKCA CE
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
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 closed 15 Gn for 11 ms) Shocks contactor open 6 Gn for 11 ms)
Height	6.22 in (158 mm)
Width	4.72 in (120 mm)
Depth	5.35 in (136 mm)
Net Weight	5.51 lb(US) (2.5 kg)

Ordering and shipping details

Category	22359-CTR,TESYS D,OPEN,80-150A AC&DC
Discount Schedule	I12
GTIN	3389110380927
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.61 in (16.8 cm)
Package 1 Width	8.19 in (20.8 cm)
Package 1 Length	7.28 in (18.5 cm)
Package 1 Weight	4.65 lb(US) (2.11 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
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.
PVC free	Yes

Contractual warranty

Warranty	18 months