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Product data sheet
Characteristics

LC1D150U7
TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 150 A - 240 V AC 50/60 Hz coil

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Main

Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
Motor power kW	40 KW 220...230 V AC 50/60 Hz AC-3) 75 KW 380...400 V AC 50/60 Hz AC-3) 80 KW 415...440 V AC 50/60 Hz AC-3) 90 KW 500 V AC 50/60 Hz AC-3) 100 KW 660...690 V AC 50/60 Hz AC-3) 75 KW 1000 V AC 50/60 Hz AC-3) 22 kW 400 V AC 50/60 Hz AC-4)
Motor power HP (UL / CSA)	40 Hp 200/208 V AC 50/60 Hz 3 phase 50 Hp 230/240 V AC 50/60 Hz 3 phase 100 Hp 460/480 V AC 50/60 Hz 3 phase 125 hp 575/600 V AC 50/60 Hz 3 phase
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	240 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 A (at 60 °C) for power circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 1660 A 440 V power circuit IEC 60947
Rated breaking capacity	1400 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	250 A 40 °C - 10 min for power circuit 580 A 104 °F (40 °C) - 1 min power circuit 1200 A 104 °F (40 °C) - 10 s power circuit 1400 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	10 A gG signalling circuit IEC 60947-5-1 315 A gG <= 690 V type 1 power circuit 250 A gG <= 690 V type 2 power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[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
Electrical durability	0.85 Mcycles 150 A AC-3 at Ue <= 440 V 1 Mcycles 200 A AC-1 <= 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3

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Front cover	With
Mounting support	Plate Rail
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 GOST RINA BV GL UL CCC LROS (Lloyds register of shipping) CSA
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 cable(s) 1…2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1…2.5 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1…2.5 mm²solid without cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)solid without cable end Power circuit: connector 1 cable(s) 10…120 mm²flexible without cable end Power circuit: connector 2 cable(s) 10…50 mm²flexible without cable end Power circuit: connector 1 cable(s) 10…120 mm²flexible with cable end Power circuit: connector 2 cable(s) 10…50 mm²flexible with cable end Power circuit: connector 1 cable(s) 10…120 mm²solid without cable end Power circuit: connector 2 cable(s) 10…50 mm²solid 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 hexagonal 0.16 in (4 mm)
Operating time	20...35 ms closing 40...75 ms opening
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
Maximum operating rate	1200 cyc/h 140 °F (60 °C)

Complementary

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 cos phi 0.9 (at 20 °C) 280…350 VA 50 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	2…18 VA 60 Hz cos phi 0.9 (at 20 °C) 2…18 VA 50 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	3…4.5 W at 50/60 Hz
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 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
Insulation resistance	> 10 MOhm signalling circuit
Contact compatibility	M13
Compatibility code	LC1D

Environment

IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating
Ambient air temperature for storage	-76…176 °F (-60…80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
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 open6 Gn for 11 ms
Height	6.22 in (158 mm)
Maximum 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	00785901697633
Nbr. of units in pkg.	1
Package weight(Lbs)	5.43 lb(US) (2.46 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	6.89 in (17.5 cm)
Package 1 width	7.48 in (19 cm)
Package 1 Length	8.39 in (21.3 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
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

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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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