Product data sheet Characteristics

LC1D150MD

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 150A, 220V DC standard coil, screw clamp terminals





Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-3 AC-1 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC
[le] 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 150 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	220 V DC

Complementary

50/60 Hz (AC-3)
C 50/60 Hz (AC-3)
C 50/60 Hz (AC-3)
60 Hz (AC-3)
AC 50/60 Hz (AC-3)
/60 Hz (AC-3)
60 Hz (AC-4)
C 50/60 Hz (AC-3e)
C 50/60 Hz (AC-3e)
C 50/60 Hz (AC-3e)
60 Hz (AC-3e)
AC 50/60 Hz (AC-3e)
/60 Hz (AC-3e)
60/60 Hz for 3 phases motors
50/60 Hz for 3 phases motors
50/60 Hz for 3 phases motors
50/60 Hz for 3 phases motors
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Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1250 A DC for signalling circuit conforming to IEC 60947-5-11660 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	250 A 40 °C - 10 min for power circuit 580 A 40 °C - 1 min for power circuit 1200 A 40 °C - 10 s for power circuit 1400 A 40 °C - 1 s for power circuit 1400 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.6 MOhm - Ith 200 A 50 Hz for power circuit
Power dissipation per pole	24 W AC-1 13.5 W AC-3 13.5 W AC-3e
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 KV conforming to IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming- to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming- to EN/ISO 13849-1
Mechanical durability	8 Mcycles
Electrical durability	0.85 Mcycles 150 A AC-3 at Ue <= 440 V 1 Mcycles 200 A AC-1 at Ue <= 440 V 0.85 Mcycles 150 A AC-3e at Ue <= 440 V
Control circuit type	DC standard
Coil technology	With integral suppression device
Control circuit voltage limits	0.751.2 Uc (-4055 °C):operational DC 0.150.4 Uc (-4070 °C):drop-out DC 11.2 Uc (5570 °C):operational DC
Inrush power in W	270365 W (at 20 °C)
Hold-in power consumption in W	2.45.1 W at 20 °C
Operating time	2035 ms closing 4075 ms opening
Time constant	25 Ms
Maximum operating rate	1200 Cyc/H 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with-cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible-with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible-without cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible-without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid with-out cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: solid with-out cable end Power circuit: connector 1 10120 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2



Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
Signalling circuit frequency	25400 Hz
Minimum switching voltage	17 V for signalling circuit
Minimum switching current	5 MA for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contact1.5 Ms on energisation between NC and NO contact
Mounting support	Plate Rail

Environment

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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	CSA UL DNV GOST LROS (Lloyds register of shipping) RINA BV GL CCC UKCA CE
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Climatic withstand	Conforming to IACS E10 exposure to damp heat
Permissible ambient air temperature around the device	-4060 °C 6070 °C with derating
Operating altitude	03000 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms)
Height	158 Mm
Width	120 Mm
Depth	136 Mm
Net weight	2.5 Kg

Packing Units

3		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	16.8 Cm	
Package 1 Width	18.5 Cm	
Package 1 Length	20.8 Cm	
Package 1 Weight	2.42 Kg	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EEU 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

Product Life Status : Commercialised

