LC1D65AED

TeSys Deca contactor, 3P(3 NO), AC-3, <= 440V, 65 A, 48V DC standard coil





Main

Range	TeSys
	TeSys Deca
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-1
	AC-3
Poles description	3P
[Ue] rated operational	Power circuit <= 690 V AC 25400 Hz
voltage	Power circuit <= 300 V DC
[le] rated operational	80 A 140 °F (60 °C)) <= 440 V AC AC-1 power
current	circuit
	65 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit
[Uc] control circuit	48 V DC
voltage	

Complementary

Motor power kW	11 KW 400 V AC 50/60 Hz AC-4)
•	18.5 KW 220230 V AC 50/60 Hz AC-3)
	30 KW 380400 V AC 50/60 Hz AC-3)
	37 KW 500 V AC 50/60 Hz AC-3)
	37 kW 660690 V AC 50/60 Hz AC-3)
Maximum Horse Power Rating	40 Hp 460/480 V at AC 50/60 Hz for 3 phase
	5 Hp 115 V at AC 50/60 Hz for 1 phase
	10 Hp 230/240 V at AC 50/60 Hz for 1 phase
	20 Hp 200/208 V at AC 50/60 Hz for 3 phase
	20 Hp 230/240 V at AC 50/60 Hz for 3 phase
	50 hp 575/600 V at AC 50/60 Hz for 3 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M4
Protective cover	With
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit
	80 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
	1000 A 440 V power circuit IEC 60947
Rated breaking capacity	1000 A 440 V power circuit IEC 60947
[lcw] rated short-time withstand current	520 A 104 °F (40 °C) - 10 s power circuit
	900 A 104 °F (40 °C) - 1 s power circuit
	110 A 104 °F (40 °C) - 10 min power circuit
	260 A 104 °F (40 °C) - 1 min 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
	125 A gG <= 690 V type 1 power circuit
	125 A gG <= 690 V type 2 power circuit
Average impedance	1.5 mOhm - Ith 80 A 50 Hz power circuit
Power dissipation per pole	9.6 W AC-1
	6.3 W AC-3

[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	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 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	10 Mcycles	
Electrical durability	0.5 Mcycles 80 A AC-1 <= 440 V 1.45 Mcycles 65 A AC-3 <= 440 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC	
Inrush power in W	19 W 68 °F (20 °C))	
Hold-in power consumption in W	7.4 W 68 °F (20 °C)	
Operating time	42.557.5 ms closing 1624 ms opening	
Time constant	34 ms	
Maximum operating rate	3600 cyc/h 140 °F (60 °C)	
	cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²) flexible without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²) flexible without cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²) flexible with cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²) solid without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²) solid without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²) solid without cable end Power circuit screw connection 1 0.000.05 in² (135 mm²) flexible without cable end Power circuit screw connection 2 0.000.04 in² (125 mm²) flexible with cable end Power circuit screw connection 2 0.000.04 in² (125 mm²) flexible with cable end Power circuit screw connection 2 0.000.04 in² (125 mm²) flexible with cable end Power circuit screw connection 1 0.000.05 in² (135 mm²) solid without cable	
Tightening torque	end Power circuit screw connection 2 0.000.04 in² (125 mm²) solid without cable end Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors Philips No 2 Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in² (2535 mm²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in² (125 mm²) hexagonal 0.16 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors pozidriv No	
Auxiliany contact composition	Power circuit 22.13 lbf.in (2.5 N.m) EverLink BTR screw connectors pozidriv No 2	
Auxiliary contact composition Auxiliary contacts type	1 NO + 1 NC Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1	
Signalling circuit frequency	25400 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	
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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	
	IEC 60335-1	
Product Certifications	UL	
	GOST	
	CSA	
	CCC	
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	-40140 °F (-4060 °C)	
device	140158 °F (6070 °C) with derating	
Operating altitude	09842.52 ft (03000 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, 5300 Hz)	
	Vibrations contactor closed 4 Gn, 5300 Hz)	
	Shocks contactor closed 15 Gn for 11 ms)	
	Shocks contactor open 10 Gn for 11 ms)	
Height	4.80 in (122 mm)	
Width	2.17 in (55 mm)	
Depth	4.72 in (120 mm)	
Net Weight	2.06 lb(US) (0.935 kg)	

Ordering and shipping details

Category	22358-CTR,TESYS D,OPEN,40-65A DC
Discount Schedule	l12
GTIN	3389119409100
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.44 in (6.200 cm)
Package 1 Width	5.39 in (13.700 cm)
Package 1 Length	5.98 in (15.200 cm)
Package 1 Weight	2.24 lb(US) (1.015 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	22.71 lb(US) (10.300 kg)

Offer Sustainability

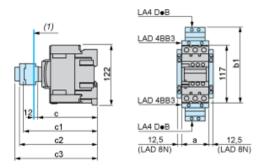
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant E 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	
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	

Warranty	18 months

Product data sheet Dimensions Drawings

LC1D65AED

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
а		55
b1	with LAD 4BB3	136
with LA4 DF, DT	157	
С	without cover or add-on blocks	118
with cover, without add-on blocks	120	
c1	with LAD N (1 contact)	-
with LAD N or C (2 or 4 contacts)	150	
c2	with LA6 DK10	163
с3	with LAD T, R, S	171
with LAD T, R, S and sealing cover	175	

Wiring

