LC1D65AD7

IEC contactor, TeSys Deca, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 42VAC 50/60Hz coil, open





Main Range TeSys TeSys Deca Range of Product TeSys Deca Product or Component Contactor Device short name LC1D Contactor application Motor control Resistive load Utilisation category AC-4 AC-1 AC-3 AC-3e Poles description Power circuit <= 690 V AC 25...400 Hz [Ue] rated operational voltage Power circuit <= 300 V DC 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for [le] rated operational current power circuit .65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit [Uc] control circuit 42 V AC 50/60 Hz

Complementary

Motor power kW	11 KW at 400 V AC 50/60 Hz (AC-4)	
	18.5 KW at 220230 V AC 50/60 Hz (AC-3)	
	30 KW at 380400 V AC 50/60 Hz (AC-3)	
	37 KW at 500 V AC 50/60 Hz (AC-3)	
	37 KW at 660690 V AC 50/60 Hz (AC-3)	
	18.5 KW at 220230 V AC 50/60 Hz (AC-3e)	
	30 KW at 380400 V AC 50/60 Hz (AC-3e)	
	37 KW at 500 V AC 50/60 Hz (AC-3e)	
	37 kW at 660690 V AC 50/60 Hz (ÁC-3e)	
Maximum Horse Power Rating	40 Hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	5 Hp at 115 V AC 50/60 Hz for 1 phase motors	
	10 Hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	20 Hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	20 Hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	50 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit	
	80 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
	1000 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	

voltage

[lcw] rated short-time withstand current	640 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit 110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit 100 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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
Power dissipation per pole	9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e	
[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	6 Mcycles	
Electrical durability	1.4 Mcycles 80 A AC-1 <= 440 V 1.45 Mcycles 65 A AC-3 <= 440 V 1.45 Mcycles 65 A AC-3e <= 440 V	
Control circuit type	AC 50/60 Hz	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz	
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat dissipation	45 W at 50/60 Hz	
Operating time	419 ms opening 1226 ms closing	
Maximum operating rate Connections - terminals	3600 cyc/h 140 °F (60 °C) Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable	
	stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: screw connection 1 0.000.05 in² (135 mm²) - cable stiffness: flexible without cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: screw connection 2 0.000.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: screw connection 1 0.000.05 in² (135 mm²) - cable stiffness: solid without cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: solid without cable end Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: solid without cable end	

Tightening torque	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 2 Power circuit 22.13 lbf.in (2.5 N.m) EverLink BTR screw connectors 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	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	Rail Plate

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
	IEC 60335-1
Product Certifications	CCC[RETURN]CSA[RETURN]UL[RETURN]GOST
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	1.90 lb(US) (0.86 kg)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
GTIN	3389119408950
Returnability	No

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.44 in (6.2 cm)	
Package 1 Width	5.39 in (13.7 cm)	
Package 1 Length	5.98 in (15.2 cm)	
Package 1 Weight	32.70 oz (927.0 g)	
Unit Type of Package 2	S02	

Number of Units in Package 2	10	
Package 2 Height	5.91 in (15.0 cm)	
Package 2 Width	11.81 in (30.0 cm)	
Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	21.25 lb(US) (9.637 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

Contractual warranty

Contractada warranty	
Warranty	18 months