## LC1D40A3BD

IEC contactor, TeSys Deca, nonreversing, 40A, 30HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VDC coil, open style





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 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	24 V DC

## Complementary

Motor power kW	18.5 KW at 380400 V AC 50/60 Hz (AC-3)	
	11 KW at 220230 V AC 50/60 Hz (AC-3)	
	22 KW at 415440 V AC 50/60 Hz (AC-3)	
	22 KW at 500 V AC 50/60 Hz (AC-3)	
	30 KW at 660690 V AC 50/60 Hz (AC-3)	
	9 KW at 400 V AC 50/60 Hz (AC-4)	
	18.5 KW at 380400 V AC 50/60 Hz (AC-3e)	
	11 KW at 220230 V AC 50/60 Hz (AC-3e)	
	22 KW at 415440 V AC 50/60 Hz (AC-3e)	
	22 KW at 500 V AC 50/60 Hz (AC-3e)	
	30 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	5 Hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	10 Hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	30 Hp at 575/600 V AC 50/60 Hz for 3 phase motors	
	10 Hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	3 Hp at 115 V AC 50/60 Hz for 1 phase motors	
	30 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M4	
Protective cover	With	
[lth] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit	
	60 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	
	800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	

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[lcw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 10 min for power circuit 165 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1 2.4 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	10 Mcycles
Electrical durability	0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 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)
Connections - terminals	Control circuit: spring terminals 1 0.000.00 in² (0.752.5 mm²) - cable stiffness: flexible without cable end Control circuit: spring terminals 2 0.000.00 in² (0.752.5 mm²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: solid without cable end
Tightening torque	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 (0.7525 mm²) hexagonal 0.16 in (4 mm)  Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2  Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals 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 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 IEC 60335-1
Product Certifications	UL[RETURN]CSA[RETURN]CCC[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 device	-40140 °F (-4060 °C) 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	2.04 lb(US) (0.925 kg)
Ordering and shipping details	
Category	22358-CTR,TESYS D,OPEN,40-65A DC
Discount Schedule	l12
GTIN	3389119408608
Returnability	Yes
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	34.39 oz (975.000 g)
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)

22.21 lb(US) (10.076 kg)

Package 2 Weight

## 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 EPEU 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.
Contractual warranty	
Warranty	18 months