LC1D09BNE

IEC contactor, TeSys Deca Green, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24/60 VAC/VDC coil, open





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-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz
[le] rated operational current	9 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	2460 V AC 50/60 Hz 2460 V DC

Complementary

Motor power kW	2.2 KW at 220230 V AC 50 Hz (AC-3)	
Woldi powei kw	4 KW at 380400 V AC 50 Hz (AC-3)	
	4 KW at 415 V AC 50 Hz (AC-3)	
	4 KW at 440 V AC 50 Hz (AC-3)	
	5.5 KW at 500 V AC 50 Hz (AC-3)	
	5.5 KW at 660690 V AC 50 Hz (AC-3)	
	2.2 KW at 220230 V AC 50 Hz (AC-3e)	
	4 KW at 380400 V AC 50 Hz (AC-3e)	
	4 KW at 415 V AC 50 Hz (AC-3e)	
	4 KW at 440 V AC 50 Hz (AC-3e)	
	5.5 KW at 500 V AC 50 Hz (AC-3e)	
	5.5 kW at 660690 V AC 50 Hz (AC-3e)	
Maximum Horse Power Rating	0.33 Hp at 115 V AC 60 Hz for 1 phase motors	
	1 Hp at 230/240 V AC 60 Hz for 1 phase motors	
	2 Hp at 200/208 V AC 60 Hz for 3 phase motors	
	2 Hp at 230/240 V AC 60 Hz for 3 phase motors	
	5 Hp at 460/480 V AC 60 Hz for 3 phase motors	
	7.5 hp at 575/600 V AC 60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[lth] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit	
	25 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947	
	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947	

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[lcw] rated short-time withstand current	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	1.56 W AC-1 0.2 W AC-3 0.2 W AC-3e
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
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	15 Mcycles
Electrical durability	2.4 Mcycles 8 A AC-3 <= 440 V 0.6 Mcycles 25 A AC-1 <= 440 V 2.4 Mcycles 8 A AC-3e <= 440 V
Control circuit type	AC/DC 50/60 Hz AC/DC electronic
Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40158 °F (-4070 °C) drop-out AC/DC 0.851.1 Uc -40140 °F (-4060 °C) operational AC 0.81.1 Uc -40140 °F (-4060 °C) operational DC 11.1 Uc 140158 °F (6070 °C) operational AC/DC
Inrush power in VA	15 VA 50/60 Hz (at 68 °F (20 °C))
Inrush power in W	14 W 68 °F (20 °C))
Hold-in power consumption in VA	0.9 VA 50/60 Hz (at 68 °F (20 °C))
Hold-in power consumption in W	0.6 W 68 °F (20 °C)
Heat dissipation	0.6 W at 50/60 Hz
Operating time	4555 ms closing 2090 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Control circuit 15.05 lbf.in (1.7 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 contact1.5 ms on energisation between NC and NO contact	
Mounting Support	Rail Plate	

Environment

EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
IEC 60335-1
CCC[RETURN]CSA[RETURN]EAC[RETURN]UL[RETURN]KC[RETURN]DNV-GL[RETURN]LROS (Lloyds register of shipping)[RETURN]UKCA
IP20 front face IEC 60529
IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
09842.52 ft (03000 m)
1562 °F (850 °C) IEC 60695-2-1
V1 conforming to UL 94
Vibrations contactor open 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
3.03 in (77 mm)
1.8 in (45 mm)
3.4 in (86 mm)
0.811 lb(US) (0.368 kg)

Ordering and shipping details

Category	US10I1222356
Discount Schedule	0112
GTIN	3606480987632
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.205 in (5.600 cm)
Package 1 Width	3.780 in (9.600 cm)
Package 1 Length	4.724 in (12.000 cm)
Package 1 Weight	13.933 oz (395.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	13.834 lb(US) (6.275 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240

Package 3 Height	29.528 in (75.000 cm)	
Package 3 Width	23.622 in (60.000 cm)	
Package 3 Length	31.496 in (80.000 cm)	
Package 3 Weight	221.344 lb(US) (100.400 kg)	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
Sustainable packaging	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.
Halogen content performance	Halogen free plastic parts & cables product

Contractual warranty

Warranty	18 months