LC1D09ED

IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48VDC coil, open style





Main

Mairi	
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4 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	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	48 V DC

Complementary

Motor power kW	2.2 KW at 220230 V AC 50/60 Hz (AC-3)	
Wiotor power KVV	4 KW at 380400 V AC 50/60 Hz (AC-3)	
	4 KW at 415440 V AC 50/60 Hz (AC-3)	
	5.5 KW at 500 V AC 50/60 Hz (AC-3)	
	5.5 KW at 660690 V AC 50/60 Hz (AC-3)	
	2.2 KW at 400 V AC 50/60 Hz (AC-4)	
	2.2 KW at 220230 V AC 50/60 Hz (AC-3e)	
	4 KW at 380400 V AC 50/60 Hz (AC-3e)	
	4 KW at 415440 V AC 50/60 Hz (AC-3e)	
	5.5 KW at 500 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	1 Hp at 230/240 V AC 50/60 Hz for 1 phase motors	
-	2 Hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	2 Hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	5 Hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	7.5 Hp at 575/600 V AC 50/60 Hz for 3 phase motors	
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M4	
Protective cover	With	
[Ith] conventional free air thermal current	25 A (at 140 °F (60 °C)) for power circuit	
	10 A (at 140 °F (60 °C)) for signalling 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	-

[Icw] rated short-time withstand current	105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit 30 A 104 °F (40 °C) - 10 min for power circuit 61 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 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 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		
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	30 Mcycles		
Electrical durability	0.6 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V		
Control circuit type	DC standard		
Coil technology	Built-in bidirectional peak limiting diode suppressor		
Control circuit voltage limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC 0.71.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC		
Inrush power in W	5.4 W 68 °F (20 °C))		
Hold-in power consumption in W	5.4 W 68 °F (20 °C)		
Operating time	63 ±15 % ms closing 20 ±20 % ms opening		
Time constant	28 ms		
Maximum operating rate	3600 cyc/h 140 °F (60 °C)		
Connections - terminals	Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without 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 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: solid without 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 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm		
Tightening torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 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 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2		

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	Rail Plate	

Environment

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Ordering and shipping details

0 11 0	
Category 22355-CTR,TESYS D,OPEN,9-38A DC	
Discount Schedule	l12
GTIN	03389110353174
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.05 in (5.200 cm)
Package 1 Width	3.66 in (9.300 cm)
Package 1 Length	4.53 in (11.500 cm)
Package 1 Weight	18.38 oz (521.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
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	17.81 lb(US) (8.078 kg)
Unit Type of Package 3	P06

Number of Units in Package 3	120
Package 3 Height	17.72 in (45.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	160.11 lb(US) (72.624 kg)

Offer Sustainability

Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxi & Antimony trioxide, which is known to the State of California to cause cancer. more information go to www.P65Warnings.ca.gov	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant with Exemptions	
Mercury free	Yes	
China RoHS Regulation	[™] China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	[™] End Of Life Information	
PVC free	Yes	

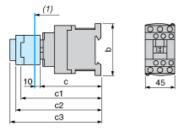
Contractual warranty

141		
Warrantv	18 months	
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Product data sheet Dimensions Drawings

LC1D09ED

Dimensions



(1) Minimum electrical clearance

LC1		D09D18	D093D123	D099D129
b		77	99	80
С	without cover or add-on blocks	93	93	93
with cover, without add-on blocks	95	95	95	
c1	with LAD N or C (2 or 4 contacts)	126	126	126
c2	with LA6 DK10	138	138	138
с3	with LAD T, R, S	146	146	146
with LAD T, R, S and sealing cover	150	150	150	

Wiring

