



TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 12 A - 48 V DC coil

Local distributor code: 381802095 LC1D12ED

EAN Code: 3389110353891

Main

Range	TeSys TeSys Deca
Range of product	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-4 AC-3 AC-3e
Poles description	3P
Je] rated operational voltage Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit

3 kW at 220230 V AC 50/60 Hz (AC-3)		
5.5 kW at 380400 V AC 50/60 Hz (AC-3) 5.5 kW at 415440 V AC 50/60 Hz (AC-3)		
7.5 kW at 660690 V AC 50/60 Hz (AC-3)		
3.7 kW at 400 V AC 50/60 Hz (AC-4)		
3 kW at 220230 V AC 50/60 Hz (AC-3e)		
5.5 kW at 380400 V AC 50/60 Hz (AC-3e)		
5.5 kW at 415440 V AC 50/60 Hz (AC-3e)		
7.5 kW at 500 V AC 50/60 Hz (AC-3e)		
7.5 kW at 660690 V AC 50/60 Hz (AC-3e)		
0.5 hp at 115 V AC 50/60 Hz for 1 phase motors		
2 hp at 230/240 V AC 50/60 Hz for 1 phase motors		
3 hp at 200/208 V AC 50/60 Hz for 3 phases motors		
3 hp at 230/240 V AC 50/60 Hz for 3 phases motors		
7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors		
10 hp at 575/600 V AC 50/60 Hz for 3 phases motors		
3 NO		
M4		
With		
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1		
type mirror contact 1 NC conforming to IEC 60947-4-1		
1 NO + 1 NC		
	5.5 kW at 380400 V AC 50/60 Hz (AC-3) 5.5 kW at 415440 V AC 50/60 Hz (AC-3) 7.5 kW at 500 V AC 50/60 Hz (AC-3) 7.5 kW at 660690 V AC 50/60 Hz (AC-3) 3.7 kW at 400 V AC 50/60 Hz (AC-4) 3 kW at 220230 V AC 50/60 Hz (AC-3e) 5.5 kW at 380400 V AC 50/60 Hz (AC-3e) 5.5 kW at 415440 V AC 50/60 Hz (AC-3e) 7.5 kW at 500 V AC 50/60 Hz (AC-3e) 7.5 kW at 660690 V AC 50/60 Hz (AC-3e) 7.5 kW at 660690 V AC 50/60 Hz (AC-3e) 0.5 hp at 115 V AC 50/60 Hz for 1 phase motors 2 hp at 230/240 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 3 phases motors 7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 10 hp at 575/600 V AC 50/60 Hz for 3 phases motors 3 NO M4 With type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	

[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified		
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947		
Overvoltage category	III		
[Ith] conventional free air thermal current	25 A (at 60 °C) for power circuit 10 A (at 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		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit		
Time constant	28 ms		
Control circuit type	DC standard		
Coil technology	With integral suppression device		
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC		
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit		
Power dissipation per pole	0.36 W AC-3 1.56 W AC-1 0.36 W AC-3e		
Minimum switching current	5 mA for signalling circuit		
Minimum switching voltage	17 V 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		
Maximum operating rate	3600 cyc/h 60 °C		
Inrush power in W	5.4 W (at 20 °C)		
Hold-in power consumption in W	5.4 W at 20 °C		
Insulation resistance	> 10 MOhm for signalling circuit		
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2		
Mounting support	Rail Plate		
Electrical durability	2 Mcycles 12 A AC-3 at Ue <= 440 V 0.8 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 12 A AC-3e at Ue <= 440 V		
Mechanical durability	30 Mcycles		
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1		
Operating altitude	03000 m		
Compatibility code	LC1D		
Product certifications	GL CCC LROS (Lloyds register of shipping) DNV CSA RINA UL BV		

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Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Ambient air temperature for storage	-6080 °C	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Mechanical robustness	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	
Height	77 mm	
Width	45 mm	
Depth	95 mm	
Net weight	0.485 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	526 g
Package 1 Height	5 cm
Package 1 width	9.2 cm
Package 1 Length	11.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	8.084 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	120
Package 3 Weight	74.5 kg
Package 3 Height	45 cm
Package 3 width	60 cm
Package 3 Length	80 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure Product Environmental Profile	

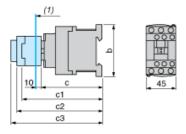
Circularity Profile	End of Life Information	
PVC free	Yes	
Contractual warranty		
Warranty	18 months	

Product datasheet

LC1D12ED

Dimensions Drawings

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

Product datasheet

LC1D12ED

Connections and Schema

Wiring

