



REVERSING CONTACTOR 575VAC 18A IEC

Local distributor code: 381823029 LC2D18BD

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Range	TeSys TeSys Deca			
Product name	TeSys D TeSys Deca			
Product or component type	Reversing contactor			
Device short name	LC2D			
Contactor application	Motor control Resistive load			
Utilisation category	AC-1 AC-3			
Device presentation	Preassembled with reversing power busbar			
Poles description	3P			
Power pole contact composition	3 NO			
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC			
[le] rated operational current	18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit			
Motor power kW	4 kW at 220230 V AC 50 Hz 7.5 kW at 380400 V AC 50 Hz 9 kW at 415440 V AC 50 Hz 10 kW at 500 V AC 50 Hz 10 kW at 660690 V AC 50 Hz			
Motor power HP (UL / CSA)	1 hp at 115 V AC 60 Hz for 1 phase motors 3 hp at 230/240 V AC 60 Hz for 1 phase motors 5 hp at 200/208 V AC 60 Hz for 3 phases motors 5 hp at 230/240 V AC 60 Hz for 3 phases motors 10 hp at 460/480 V AC 60 Hz for 3 phases motors 15 hp at 575/600 V AC 60 Hz for 3 phases motors			
Control circuit type	DC standard			
[Uc] control circuit voltage	24 V DC			
Auxiliary contact composition	1 NO + 1 NC			
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947			
Overvoltage category	III			
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 32 A (at 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 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947			

Potod brooking consoity	300 A at 440 V for power circuit conforming to IEC 60047
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	40 A 40 °C - 10 min for power circuit 84 A 40 °C - 1 min for power circuit
	145 A 40 °C - 10 s for power circuit 240 A 40 °C - 1 s 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 50 A gG at <= 690 V coordination type 1 for power circuit
	35 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
[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
Electrical durability	1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1 Mcycles 32 A AC-1 at Ue <= 440 V
Power dissipation per pole	0.8 W AC-3
	2.5 W AC-1
Front cover	With
Interlocking type	Mechanical
Mounting support	Rail Plate
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	DNV
Product certifications	CSA
	CCC UL
	GL LROS (Lloyds register of shipping)
	BV
	RINA GOST
	UKCA
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid Power circuit: screw clamp terminals 1 cable(s) 1.56 mm²flexible without cable end
	Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²flexible without cable end
	Power circuit: screw clamp terminals 1 cable(s) 16 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 1.56 mm²solid Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²solid
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: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Operating time	53.5572.45 ms closing 1624 ms opening
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
Mechanical durability	30 Mcycles
Maximum operating rate	3600 cyc/h 60 °C
Complementary	
Coil technology	Built-in bidirectional peak limiting diode suppressor

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			
Time constant	28 ms			
Inrush power in W	5.4 W (at 20 °C)			
Hold-in power consumption in W	5.4 W at 20 °C			
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1			
Signalling circuit frequency	25400 Hz			
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			
Insulation resistance	> 10 MOhm for signalling circuit			
Environment				
IP degree of protection	IP20 front face conforming to IEC 60529			
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D			
Protective treatment	TH conforming to IEC 60068-2-30			
Pollution degree	3			
Ambient air temperature for operation	-4060 °C 6070 °C with derating			
Ambient air temperature for storage	-6080 °C			
Operating altitude	03000 m			
Fire resistance	850 °C conforming to 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 open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms			
Height	77 mm			
Width	90 mm			
Depth	95 mm			
Net weight	1.037 kg			
Packing Units				
Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Weight	1.131 kg			
Package 1 Height	9.5 cm			
Package 1 width	11.5 cm			
Package 1 Length	14 cm			
Unit Type of Package 2	S02			
Number of Units in Package 2	6			
Package 2 Weight	7.192 kg			
Package 2 Height	15 cm			

Package 2 width	30 cm
Package 2 Length	40 cm
Offer Sustainability	
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
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
PVC free	Yes

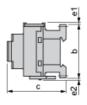
Warranty	18 months	
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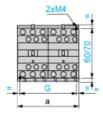
Product datasheet

LC2D18BD

Dimensions Drawings

Dimensions





LC2 or 2 x LC1	а	b	c ⁽¹⁾	e1	e2	G
D09 to D18 (AC)	90	77	86	4	1.5	80
D093 to D123 (AC)	90	99	86	-	-	80
D09 to D18 (DC)	90	77	95	4	1.5	80
D093 to D123 (DC)	90	99	95	-	-	80
D25 to D38 (AC)	90	85	92	9	5	80
D183 to D383 (AC)	90	99	92	-	-	80
D25 to D32 (DC)	90	85	101	9	5	80
D183 to D383 (DC)	90	99	101	-	-	80

e1 and e2: including cabling.

(1) With safety cover, without add-on block.

Product datasheet

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Connections and Schema

Wiring

