

# REVERSING CONTACTOR 575VAC 12A IEC

Local distributor code: 386285497 LC2D12BD

EAN Code: 3389110392258

#### Main

wain						
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	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					
Motor power kW	3 kW at 220230 V AC 50 Hz 5.5 kW at 380400 V AC 50 Hz 5.5 kW at 415440 V AC 50 Hz 7.5 kW at 500 V AC 50 Hz 7.5 kW at 660690 V AC 50 Hz					
Motor power HP (UL / CSA)	1 hp at 115 V AC 60 Hz for 1 phase motors 2 hp at 230/240 V AC 60 Hz for 1 phase motors 3 hp at 200/208 V AC 60 Hz for 3 phases motors 3 hp at 230/240 V AC 60 Hz for 3 phases motors 7.5 hp at 460/480 V AC 60 Hz for 3 phases motors 10 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 25 A (at 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					
[Icw] rated short-time withstand current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit					
Average impedance	2.5 mOhm - Ith 25 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	2 Mcycles 12 A AC-3 at Ue <= 440 V 0.8 Mcycles 25 A AC-1 at Ue <= 440 V					
Power dissipation per pole	1.56 W AC-1 0.36 W AC-3					
Front cover	With					
Interlocking type	Mechanical					
Mounting support	Plate Rail					
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 CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA					
Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²solid Power circuit: screw clamp terminals 2 cable(s) 14 mm²solid 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) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 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					
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 tachnology	Ruilt-in hidirectional neak limiting diode suppressor					

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	-40…60 °C 60…70 °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	1.027 kg						
Packing Units							
Unit Type of Package 1	PCE						
Number of Units in Package 1	1						
Package 1 Height	9.500 cm						
Package 1 Width	11.500 cm						
Package 1 Length	14.000 cm						
Package 1 Weight	1.132 kg						
Unit Type of Package 2	S02						
Number of Units in Package 2	6						
Package 2 Height	15 000 cm						

15.000 cm

30.000 cm

Package 2 Height

Package 2 Width

Package 2 Length	40.000 cm
Package 2 Weight	7.054 kg
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	120.864 kg

## Offer Sustainability

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

#### **Contractual warranty**

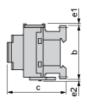
Warranty 18 months

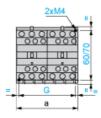
## **Product datasheet**

## LC2D12BD

**Dimensions Drawings** 

#### **Dimensions**





LC2 or 2 x LC1	а	b	c <sup>(1)</sup>	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
	1					

e1 and e2: including cabling.

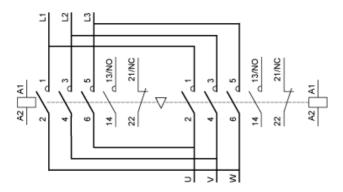
(1) With safety cover, without add-on block.

# **Product datasheet**

# LC2D12BD

Connections and Schema

#### Wiring



Recommended replacement(s)