Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



REVERSING CONTACTOR 575VAC 18A IEC

Local distributor code:

381823113 LC2D18F7

EAN Code: 3389110386387

Main

Range	TeSys
	TeSys Deca
product name	TeSys D
	TeSys Deca
Product or component type	Reversing contactor
Device short name	LC2D
Contactor application	Resistive load
	Motor control
Utilisation category	AC-1
	AC-3
	AC-3e
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
	18 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
Motor power kW	4 kW at 220230 V AC 5060 Hz
	7.5 kW at 380400 V AC 5060 Hz
	9 kW at 415 V AC 5060 Hz
	9 kW at 440 V AC 5060 Hz
	10 kW at 500 V AC 5060 Hz
	10 kW at 660690 V AC 5060 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	AC at 50/60 Hz
[Uc] control circuit voltage	110 V AC 50/60 Hz
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	10 A (at 60 °C) for signalling circuit
current	32 A (at 60 °C) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1
5 . ,	250 A DC for signalling circuit conforming to IEC 60947-5-1
	300 A at 440 V for power circuit conforming to IEC 60947

Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand	40 A 40 °C - 10 min for power circuit
current	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
	1.65 Mcycles 18 A AC-3e at Ue <= 440 V
Power dissipation per pole	0.8 W AC-3
por	2.5 W AC-1
	0.8 W AC-3e
ront cover	With
nterlocking 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	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
ightening torque	
ngmening 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 Philips No 2
	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver halt b o min 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
	<u> </u>
Operating time	1222 ms closing
	419 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	15 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

Complementary

Coil technology	Without built-in suppressor module				
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz				
	0.81.1 Uc (-4060 °C):operational AC 50 Hz				
	0.851.1 Uc (-4060 °C):operational AC 60 Hz				
	11.1 Uc (6070 °C):operational AC 50/60 Hz				
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 20 °C)				
	70 VA 50 Hz cos phi 0.75 (at 20 °C)				
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C)				
	7 VA 50 Hz cos phi 0.3 (at 20 °C)				
Heat dissipation	23 W at 50/60 Hz				
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	86 mm					
Net weight	0.707 kg					

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.000 cm
Package 1 Width	9.500 cm
Package 1 Length	11.300 cm
Package 1 Weight	811.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.256 kg

Logistical informations

Country of origin

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∅ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	42
Environmental Disclosure	Product Environmental Profile

Use Better

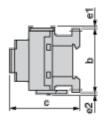
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
PVC free	Yes

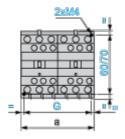
Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions





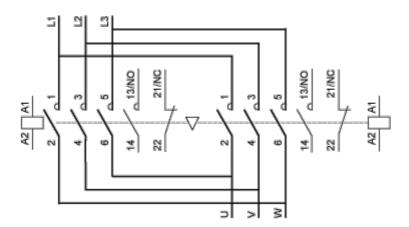
LC2 or 2 x LC1	а	b	c ⁽¹⁾	e1	e2	G
D09 to D18 (AC)	90	77	86	4	1.5	80
D093 to D123 (AC)	90	99	86	_	_	80
D09 to D18 (DC)	90	77	95	4	1.5	80
D093 to D123 (DC)	90	99	95	_	_	80
D25 to D38 (AC)	90	85	92	9	5	80
D183 to D383 (AC)	90	99	92	_	-	80
D25 to D32 (DC)	90	85	101	9	5	80
D183 to D383 (DC)	90	99	101	_	-	80

e1 and e2: including cabling.

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

Connections and Schema

Wiring



LC2D18F7

Technical Illustration

Assembly's dimensions

