

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

LC2D12E7

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					
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	AC at 50/60 Hz					
[Uc] control circuit voltage	48 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 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						
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	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) 12 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	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	0.697 kg					
Packing Units						
Unit Type of Package 1	PCE					
Number of Units in Package 1	1					
Package 1 Weight	816.9 g					
Package 1 Height	11.5 cm					
Package 1 width	9.5 cm					
Package 1 Length	14.0 cm					
Unit Type of Package 2	S02					
Number of Units in Package 2	6					
Package 2 Weight	5.234 kg					

Package 2 Height	15.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Weight	94.788 kg
Package 3 Height	77.0 cm
Package 3 width	60.0 cm
Package 3 Length	80.0 cm

Offer Sustainability

Sustainable offer status	Green Premium product					
REACh Regulation	REACh Declaration					
REACh free of SVHC	Yes					
EU RoHS Directive	Compliant EU RoHS Declaration					
Toxic heavy metal free	Yes					
Mercury free	Yes					
RoHS exemption information	Yes					
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)					
Environmental Disclosure	Product Environmental Profile					
Circularity Profile	End of Life Information					
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins					
PVC free	Yes					
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov					

Contractual warranty

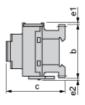
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Warranty	18 months		

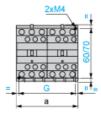
Product data sheet

LC2D12E7

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
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e1 and e2: including cabling.

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

Life Is On Schneider

Product data sheet

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Connections and Schema

Wiring

