Product datasheet

Specifications





Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, <=440V, 32A, 220V AC 50/60Hz coil, screw clamp terminals

LC2D32M7

Main

Mani						
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	32 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 50 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-3e for power circuit					
Motor power kW	7.5 kW at 220230 V AC 5060 Hz 15 kW at 380400 V AC 5060 Hz 15 kW at 415 V AC 5060 Hz 15 kW at 440 V AC 5060 Hz 18.5 kW at 500 V AC 5060 Hz 18.5 kW at 660690 V AC 5060 Hz					
motor power HP (UL / CSA)	2 hp at 115 V AC 60 Hz for 1 phase motors 5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 20 hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors					
Control circuit type	AC at 50/60 Hz					
[Uc] control circuit voltage	220 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					
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 50 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 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947					

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Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947				
[lcw] rated short-time withstand current	60 A 40 °C - 10 min for power circuit 138 A 40 °C - 1 min for power circuit 260 A 40 °C - 10 s for power circuit 430 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 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit				
Average impedance	2 mOhm - Ith 50 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 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.65 Mcycles 32 A AC-3e at Ue <= 440 V				
Power dissipation per pole	2 W AC-3 5 W AC-1 2 W AC-3e				
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	UL CSA RINA GOST CCC DNV LROS (Lloyds register of shipping) GL BV UKCA CB				
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 1 cable(s) 14 mm²solid Power circuit: screw clamp terminals 1 cable(s) 2.510 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm²solid Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²solid				
Tightening torque	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 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 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 -6080 °C storage				
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 closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms			
Height	85 mm			
Width 90 mm				
Depth 92 mm				
net weight	0.797 kg			

Packing Units

9	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14 cm
Package 1 Width	11.5 cm
Package 1 Length	11.5 cm
Package 1 Weight	939 g
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.038 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Reach Free Of Svhc	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

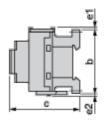
Certifications & Standards

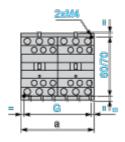
Reach Regulation	REACh Declaration				
Eu Rohs Directive	Compliant				
	EU RoHS Declaration				
China Rohs Regulation	China RoHS declaration				
	Pro-active China RoHS declaration (out of China RoHS legal scope)				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
Circularity Profile	End of Life Information				

LC2D32M7

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

