Product data sheet





Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, <= 440V 12A, 24V AC coil

LC2D129B7

Main

IVIAIII	
Range	TeSys TeSys Deca
Product name	TeSys Deca TeSys Deca
Product or component type	Reversing contactor
Device short name	LC2D
contactor application	Motor control Resistive load
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	25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e 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 415 V AC 50 Hz 5.5 kW at 440 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 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Auxiliary contact composition 1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current 10 A (at 140 °F (60 °C)) for signalling circuit 25 A (at 140 °F (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

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Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit 210 A 104 °F (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 IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	2 Mcycles 12 A AC-3 <= 440 V 0.8 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 12 A AC-3e <= 440 V
Power dissipation per pole	1.56 W AC-1 0.36 W AC-3 0.36 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	DNV CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA
Connections - terminals	Power circuit Faston terminals 2 Control circuit Faston terminals 1
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
Operating time	1222 ms closing 419 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	15 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Complementary	

Complementary

Coil technology Without built-in suppressor module

Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz	
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat dissipation	23 W 50/60 Hz	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1	
Signalling circuit frequency	equency 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

IP degree of protection	pn IP20 front face IEC 60529	
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D	
Protective treatment	TH IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Ambient air temperature for storage		
Operating altitude	03000 m	
re resistance 1562 °F (850 °C) IEC 60695-2-1		
Flame retardance	V1 UL 94	
Mechanical robustness	Vibrations contactor open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms	
Height	3.03 in (77 mm)	
Width	3.5 in (90 mm)	
Depth	3.4 in (86 mm)	
Net weight	1.537 lb(US) (0.697 kg)	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	3.7 in (9.5 cm)	
Package 1 Width	5.5 in (14.0 cm)	
Package 1 Length	4.5 in (11.5 cm)	
Package 1 Weight	27.02 oz (766.0 g)	
Unit Type of Package 2	S06	

Number of Units in Package 2	125	
Package 2 Height	28.9 in (73.5 cm)	
Package 2 Width	23.6 in (60.0 cm)	
Package 2 Length	31.5 in (80.0 cm)	
Package 2 Weight	239.75 lb(US) (108.75 kg)	

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Toxic Heavy Metal Free	
②	Mercury Free	
②	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