Product datasheet





REVERSING CONTACTOR 575VAC 9A IEC

LC2D093G7

! Discontinued on: 10 Oct 2020

EAN Code: 3389110659542

① Discontinued

Main

Mani	
Range	TeSys
Product name	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	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	16 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	2.2 kW at 220230 V AC 50 Hz
	4 kW at 380400 V AC 50 Hz
	4 kW at 415440 V AC 50 Hz
	5.5 kW at 500 V AC 50 Hz
	5.5 kW at 660690 V AC 50 Hz
motor power HP (UL / CSA)	0.5 hp at 115 V AC 60 Hz for 1 phase motors
	1 hp at 230/240 V AC 60 Hz for 1 phase motors
	2 hp at 200/208 V AC 60 Hz for 3 phases motors
	2 hp at 230/240 V AC 60 Hz for 3 phases motors
	5 hp at 460/480 V AC 60 Hz for 3 phases motors
	7.5 hp at 575/600 V AC 60 Hz for 3 phases motors
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	120 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	16 A (at 60 °C) for power circuit
current	10 A (at 60 °C) for signalling circuit
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947
5 . ,	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

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[lcw] 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	25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	2.5 mOhm - Ith 16 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	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V
Power dissipation per pole	0.2 W AC-3 1.56 W AC-1
Front cover	With
Interlocking type	Mechanical
Mounting support	Rail Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	CCC GL RINA UL DNV GOST LROS (Lloyds register of shipping) CSA BV
Connections - terminals	Power circuit: spring terminals 1 cable(s) 2.5 mm²flexible without cable end Power circuit: spring terminals 2 cable(s) 2.5 mm²flexible without cable end Control circuit: spring terminals 1 cable(s) 2.5 mm²flexible without cable end Control circuit: spring terminals 2 cable(s) 2.5 mm²flexible without cable end
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	degree 3	
Ambient air temperature for operation	-4060 °C 6070 °C with derating	
Ambient air temperature for storage		
Operating altitude	03000 m	
re resistance 850 °C conforming to IEC 60695-2-1		
lame 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	99 mm	
Width	90 mm	
Depth	86 mm	
Net weight	0.687 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.4 cm
Package 1 Width	11.4 cm
Package 1 Length	11 cm
Package 1 Weight	730 g

Contractual warranty

Warranty	18 months
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RoHS/REACh

Well-being performance

9	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Mana	The product must be disposed on European Union markets following excelling waste.
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins