TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 25 A - 48 V AC coil

Local distributor code: 386024056 LC1D128E7

Main

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Range	TeSys TeSys Deca	
Product name	TeSys D TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load	
Utilisation category	AC-1	
Poles description	4P	
Power pole contact composition	2 NO + 2 NC	
[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	
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	25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling 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	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min 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 0.8 Mcycles 25 A AC-1 at Ue <= 440 V 1.56 W AC-1 With Rail Plate 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 CSA UL DNV CCC RINA LROS (Lloyds register of shipping) GL BV GOST **UKCA** Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end

Connections - terminals

Electrical durability

Mounting support

Product certifications

Front cover

Standards

Power dissipation per pole

Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end

Tightening torque

Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat \varnothing 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 \varnothing 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

12...22 ms closing 4...19 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

Without built-in suppressor module

Complementary

Coil technology

Coll 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		
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	85 mm		
Width	45 mm		
Depth	92 mm		
Net weight	0.365 kg		
Dooking Unite			
Packing Units Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Weight	391.0 g		
Package 1 Height	5.8 cm		
Package 1 width	9.5 cm		
Package 1 Length	12 cm		
Unit Type of Package 2	S02		
Number of Units in Package 2	16		
Package 2 Weight	6.917 kg		
Package 2 Height	15 cm		
Package 2 width	30 cm		
Package 2 Length	40 cm		
Unit Type of Package 3	P06		
Number of Units in Package 3	256		
Package 3 Weight	116.98 kg		
Package 3 Height	77 cm		
Package 3 width	80 cm		
Package 3 Length	60 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	
Contractual warranty		
Warranty	18 months	

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