Product datasheet

Specification





TeSys D contactor S207 - 3P (3NO) AC-3 38A <=440V - coil 72V DC

LC1D386SDS207

Main

Range	TeSys TeSys Deca	
Range of product	TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3 AC-3e	
poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	50 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 38 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 38 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	

Complementary

Motor power kW	9 kW at 220/230 V AC 50 Hz (AC-3)
	18.5 kW at 380/400 V AC 50 Hz (AC-3)
	18.5 kW at 415 V AC 50 Hz (AC-3)
	18.5 kW at 440 V AC 50 Hz (AC-3)
	18.5 kW at 500 V AC 50 Hz (AC-3)
	18.5 kW at 660/690 V AC 50 Hz (AC-3)
	9 kW at 220/230 V AC 50 Hz (AC-3e)
	18.5 kW at 380/400 V AC 50 Hz (AC-3e)
	18.5 kW at 415 V AC 50 Hz (AC-3e)
	18.5 kW at 440 V AC 50 Hz (AC-3e)
	18.5 kW at 500 V AC 50 Hz (AC-3e)
	18.5 kW at 660/690 V AC 50 Hz (AC-3e)
Pole contact composition	3 NO
Protective cover	With
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
Auxiliary contact composition	1 NO + 1 NC
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-1
[Uimp] rated impulse withstand	6 kV conforming to IEC 60947
voltage	
Overvoltage category	III
[Ith] conventional free air thermal	40 A /-+ 00 90) for alima Illiana signalit
current	10 A (at 60 °C) for signalling 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	
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947	
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	
Time constant	28 ms	
Control circuit type	DC standard	
Coil technology	With integral suppression device	
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4070 °C):operational DC with spacing >8 mm 0.71.25 Uc (-4050 °C):operational DC 0.71.1 Uc (5070 °C):operational DC	
Average impedance	2 mOhm - Ith 50 A 50 Hz for power circuit	
Power dissipation per pole	5 W AC-1 3 W AC-3 3 W AC-3e	
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	
Operating time	63 ±15 % ms closing 20 ±20 % ms opening	
Maximum operating rate	3600 cyc/h 60 °C	
Inrush power in W	5.4 W (at 20 °C)	
Hold-in power consumption in W	5.4 W at 20 °C	
Insulation resistance	> 10 MOhm for signalling circuit	
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 12 mm	
Tightening torque	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M4	
mounting support	Plate Rail	
Electrical durability	1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.4 Mcycles 38 A AC-3 at Ue <= 440 V 1.4 Mcycles 38 A AC-3e at Ue <= 440 V	
Mechanical durability	30 Mcycles	
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	
Operating altitude	03000 m	
Compatibility code	LC1D	
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 EN 45545: R22 HL3 EN 45545: R26 HL3 DIN 5510-2	

Product certifications	IEC		
	CCC		
	EAC		
	UA		
	TR		
	UKCA		
	СВ		

Environment

Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Ambient air temperature for storage	-6080 °C	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Height	85 mm	
Width	45 mm	
Depth	101 mm	
Net weight	0.38 kg	
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)	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.3 cm
Package 1 Width	9.3 cm
Package 1 Length	5.2 cm
Package 1 Weight	604.0 g



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Certifications & Standards

Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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	No need of specific recycling operations