Product datasheet Characteristics

LC1D326BDS207

TeSys D contactor S207 - 3P (3NO) AC-3 32A <=440V - coil 24V DC





Main

Main	
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[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
Motor power kW	7.5 kW at 220/230 V AC 50 Hz (AC-3) 15 kW at 380/400 V AC 50 Hz (AC-3) 15 kW at 415 V AC 50 Hz (AC-3) 15 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)
[Uc] control circuit voltage	24 V DC
Coil type	Standard
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
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	100 A - 1 s for signalling circuit

	120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 260 A 40 °C - 10 s for power circuit 430 A 40 °C - 1 s for power circuit 60 A 40 °C - 10 min for power circuit 138 A 40 °C - 1 min for power 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 Signalling circuit: 690 V conforming to IEC 60947-1
Electrical durability	1.65 Mcycles 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V
Power dissipation per pole	2 W AC-3 5 W AC-1
Safety cover	With
Mounting support	Rail Plate
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
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
Operating time	5575 ms closing 1632 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	30 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

Complementary

With integral suppression device	
0.10.25 Uc 60 °C drop-out DC	
0.71.1 Uc -4070 °C operational DC	
0.71.25 Uc -4070 °C operational DC >8 mm	
0.71.25 Uc -2550 °C operational DC	
28 ms	
5.4 W at 20 °C	
5.4 W at 20 °C	
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1	
type mirror contact 1 NC conforming to IEC 60947-4-1	
25400 Hz	
5 mA for signalling circuit	
17 V for signalling circuit	
1.5 ms on de-energisation between NC and NO contact	
1.5 ms on energisation between NC and NO contact	
> 10 MOhm for signalling circuit	
	0.10.25 Uc 60 °C drop-out DC 0.71.1 Uc -4070 °C operational DC 0.71.25 Uc -4070 °C operational DC >8 mm 0.71.25 Uc -2550 °C operational DC 28 ms 5.4 W at 20 °C 5.4 W at 20 °C type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 5 mA for signalling circuit 17 V for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-2560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V0 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	45 mm
Depth	101 mm
Net weight	0.375 kg

Offer Sustainability

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
Environmental Disclosure	Product Environmental Profile
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Mercury free	Yes
Toxic heavy metal free	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
REACh free of SVHC	Yes
REACh Regulation	REACh Declaration
Sustainable offer status	Green Premium product

Contractual warranty

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Warranty	18 months