Product data sheet Characteristics

LC1D956SWS207

TeSys D contactor S207 - 3P (3NO) AC-3 95A <=440V - coil 72V DC wide



Main
Range

Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-1	
Poles description	3P	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25400 Hz	
[le] rated operational current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 95 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	25 kW at 220/230 V AC 50 Hz (AC-3) 45 kW at 380/400 V AC 50 Hz (AC-3) 45 kW at 415 V AC 50 Hz (AC-3) 45 kW at 440 V AC 50 Hz (AC-3) 55 kW at 500 V AC 50 Hz (AC-3) 45 kW at 660/690 V AC 50 Hz (AC-3) 45 kW at 1000 V AC 50 Hz (AC-3)	
[Uc] control circuit voltage	72 V DC	
Coil type	Wide range	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Overvoltage category	III	
[lth] conventional free air thermal current	125 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit	
Irms rated making capacity	1100 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	1100 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	135 A 40 °C - 10 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 1100 A 40 °C - 1 s for power circuit 400 A 40 °C - 1 min for power circuit	

800 A 40 °C - 10 s for power circu	300	A 40	°C -	10	s for	nower	circu	ıi
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	000 A 40 C - 10 s for power circuit		
Associated fuse rating	200 A gG at <= 690 V coordination type 1 for power circuit 160 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	0.8 mOhm - Ith 125 A 50 Hz for power circuit		
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1		
Electrical durability	1.2 Mcycles 95 A AC-3 at Ue <= 440 V 1.3 Mcycles 125 A AC-1 at Ue <= 440 V		
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3		
Safety cover	With		
Mounting support	Plate Rail		
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		
Connections - terminals	Control circuit: lugs-ring terminals (external diameter: 8 mm) Power circuit: lugs-ring terminals (external diameter: 17 mm) Power circuit: bars 1 cable(s) - busbar cross section: 3 x 16 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: 9 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 9 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 9 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 9 N.m - on bars hexagonal screw head 10 mm M6		
Operating time	95130 ms closing 2035 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	10 Mcycles		
Maximum operating rate	3600 cyc/h 60 °C		

Complementary

Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.10.3 Uc 55 °C drop-out DC Uc -4070 °C operational DC 0.751.2 Uc -560 °C operational DC	
Time constant	75 ms	
Inrush power in W	22 W at 20 °C	
Hold-in power consumption in W	22 W at 20 °C	
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	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-560 °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 Shocks contactor closed: 15 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor open: 8 Gn for 11 ms	
Height	127 mm	
Width	85 mm	
Depth	186 mm	
Net weight	2.61 kg	