Product data sheet Characteristics

LC1D506FWS207

TeSys D contactor S207 - 3P (3NO) AC-3 50A <=440V - coil 110V DC wide



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: <= 1000 V AC 25400 Hz	
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	15 kW at 220/230 V AC 50 Hz (AC-3) 22 kW at 380/400 V AC 50 Hz (AC-3) 25 kW at 415 V AC 50 Hz (AC-3) 30 kW at 440 V AC 50 Hz (AC-3) 30 kW at 500 V AC 50 Hz (AC-3) 33 kW at 660/690 V AC 50 Hz (AC-3) 30 kW at 1000 V AC 50 Hz (AC-3)	
[Uc] control circuit voltage	110 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	80 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit	
Irms rated making capacity	900 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	900 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 400 A 40 °C - 10 s for power circuit 810 A 40 °C - 1 s for power circuit 84 A 40 °C - 10 min for power circuit	

208	Α	40	°C -	1	min	for	power	circu	ıit

Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit				
Average impedance	1.5 mOhm - Ith 80 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	1.45 Mcycles 50 A AC-3 at Ue <= 440 V 1.1 Mcycles 80 A AC-1 at Ue <= 440 V				
Power dissipation per pole	9.6 W AC-1 3.7 W AC-3				
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				
Connections - terminals	Control circuit: lugs-ring terminals (external diameter: 8 mm) Power circuit: lugs-ring terminals (external diameter: 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: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M6 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver Philips No 3 M6				
Operating time	2035 ms opening 85110 ms closing				
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	20 Mcycles				
Maximum operating rate	3600 cyc/h 60 °C				

Complementary

Without built-in suppressor module	
0.10.3 Uc 55 °C drop-out DC Uc -4070 °C operational DC 0.751.2 Uc -560 °C operational DC	
65 ms	
22 W at 20 °C	
22 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	
	0.10.3 Uc 55 °C drop-out DC Uc -4070 °C operational DC 0.751.2 Uc -560 °C operational DC 65 ms 22 W at 20 °C 22 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 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	-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 Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 8 Gn for 11 ms Shocks contactor closed: 10 Gn for 11 ms			
Height	127 mm			
Width	75 mm			
Depth	176 mm			
Net weight	2.185 kg			