Product data sheet Characteristics

LC1D406FWS207

TeSys D contactor S207 - 3P (3NO) AC-3 40A <=440V - coil 110V DC wide



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Range	TeSys	- tecilo
Product name	TeSys D	
Product or component type	Contactor	— <u>a</u>
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	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	11 kW at 220/230 V AC 50 Hz (AC-3) 18.5 kW at 380/400 V AC 50 Hz (AC-3) 22 kW at 415 V AC 50 Hz (AC-3) 22 kW at 440 V AC 50 Hz (AC-3) 22 kW at 500 V AC 50 Hz (AC-3) 30 kW at 660/690 V AC 50 Hz (AC-3) 22 kW at 1000 V AC 50 Hz (AC-3)	Disclaimer. This documentation is not intended as a suffettints for and is not to be used for determining suitability of these products for snearfic user applications.
[Uc] control circuit voltage	110 V DC	
Coil type	Wide range	<u></u> .
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	60 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit	0
Irms rated making capacity	800 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	c
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	— i
[lcw] rated short-time withstand current	72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit 320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit	This document

140 A -	100	ms for	signalling	circuit
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Associated fuse rating	80 A gG at <= 690 V coordination type 1 for power circuit 80 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	1.5 mOhm - Ith 60 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	1.4 Mcycles 60 A AC-1 at Ue <= 440 V 1.5 Mcycles 40 A AC-3 at Ue <= 440 V
Power dissipation per pole	5.4 W AC-1 2.4 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: 13 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 M5 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M5
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

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	