Product datasheet Characteristics

LC1D65008F6

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 80 A - 110 V AC 60 Hz coil

Price*: 295.52 GBP



Main		·
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load	
Utilisation category	AC-1	
Poles description	4P	
Power pole contact composition	2 NO + 2 NC	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
Control circuit type	AC at 60 Hz	
[Uc] control circuit voltage	110 V AC 60 Hz	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
Overvoltage category	III	
[lth] conventional free air thermal current	80 A (at 60 °C) for power circuit	
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 A 40 °C - 1 min for power circuit	
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit 125 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: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1	
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V	
Power dissipation per pole	9.6 W AC-1	
Safety cover	Without	
Mounting support	Rail	

	Plate	
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508	
Product certifications	UL CSA LROS (Lloyds register of shipping) DNV BV CCC GL GOST RINA	
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²solid without cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 125 mm² hexagonal screw head 4 mm	
Operating time	419 ms opening 1226 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	6 Mcycles	
Maximum operating rate	3600 cyc/h 60 °C	

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	Operational: 0.851.1 Uc AC 60 Hz (at 60 °C) Drop-out: 0.30.6 Uc AC 60 Hz (at 60 °C)
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	45 W at 60 Hz

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	V1 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: 10 Gn for 11 ms
Height	127 mm

Width	85 mm	
Depth	125 mm	
Product weight	1.45 kg	
Offer Sustainability		
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	

Contractual warranty

RoHS exemption information

China RoHS Regulation

Circularity Profile

WEEE

Yes

China RoHS declaration

never end up in rubbish bins

No need of specific recycling operations

Warranty	18 months

The product must be disposed on European Union markets following specific waste collection and