Product datasheet Characteristics

LC1D80G7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 80 A - 120 V AC 50/60 Hz coil



Price*: 238.86 GBP



Main

		4
Range of product	TeSys D	
Range	TeSys	5
Product name	TeSys D	to the
Product or component type	Contactor	, <u>;</u>
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-4 AC-3 AC-1	mining entite
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC for power circuit <= 300 V DC 25400 Hz for power circuit	
[le] rated operational current	125 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 80 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	22 kW at 220230 V AC 50/60 Hz AC-3 37 kW at 380400 V AC 50/60 Hz AC-3 45 kW at 660690 V AC 50/60 Hz AC-3 45 kW at 415440 V AC 50/60 Hz AC-3 55 kW at 500 V AC 50/60 Hz AC-3 45 kW at 1000 V AC 50/60 Hz AC-3 15 kW at 400 V AC 50/60 Hz AC-4	dromantation is not infanded as a substitute for and is not to be used for determining suitability or reliability
Motor power hp	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	incommentation is not in
Control circuit type	AC 50/60 Hz	Discrete This S
[Uc] control circuit voltage	120 V AC 50/60 Hz	
[Go] control chock voltage	120 V AC 30/00 112	Ř

[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overvoltage category	III
[Ith] 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 power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 640 A <= 40 °C 10 s power circuit 990 A <= 40 °C 1 s power circuit 320 A <= 40 °C 1 min power circuit
Associated fuse rating	160 A gG at <= 690 V coordination type 2 for power circuit 200 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	0.8 mOhm at 50 Hz - Ith 125 A for power circuit
[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL
Electrical durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V
Power dissipation per pole	5.1 W AC-3 12.5 W AC-1
Protective cover	With
Mounting support	Plate Rail
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	BV RINA UL CCC DNV CSA GL LROS (Lloyds register of shipping) GOST
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end
	Control circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 425 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 416 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 425 mm² - cable stiffness: solid - without cable end
Tightening torque	Power circuit: 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 9 N.m - on connector hexagonal 4 mm
	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2

620	ms	opening
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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	4 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

Without built-in suppressor module
0.851.1 Uc operational at 55 °C, AC 60 Hz 0.30.6 Uc drop-out at 55 °C, AC 50/60 Hz 0.81.1 Uc operational at 55 °C, AC 50 Hz
245 VA at 20 °C (cos φ 0.75) 60 Hz 245 VA at 20 °C (cos φ 0.75) 50 Hz
26 VA at 20 °C (cos φ 0.3) 60 Hz 26 VA at 20 °C (cos φ 0.3) 50 Hz
610 W at 50/60 Hz
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
M11
LC1D

Environment

LITTION	
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 derating in temperature
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 Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5300 Hz Shocks contactor closed 10 Gn for 11 ms
Height	127 mm
Width	85 mm
Depth	130 mm
Product weight	1.59 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product environmental	

Product end of life instructions	Need no specific recycling operations
Contractual warranty	
Warranty period	18 months