LC1D115M5 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 115 A - 220 V AC coil



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Main	
Range of product	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 25400 Hz for power circuit <= 690 V DC for power circuit
[le] rated operational current	115 A (<= 60 °C) at <= 440 V AC AC-3 for power cir- cuit 200 A (<= 60 °C) at <= 440 V AC AC-1 for power cir- cuit
Motor power kW	65 kW at 1000 V AC 50/60 Hz 80 kW at 660690 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 59 kW at 415440 V AC 50/60 Hz 55 kW at 380400 V AC 50/60 Hz 30 kW at 220230 V AC 50/60 Hz
Motor power HP (UL / CSA)	100 hp at 575/600 V AC 50/60 Hz for 3 phases mo- tors 75 hp at 460/480 V AC 50/60 Hz for 3 phases mo- tors 40 hp at 230/240 V AC 50/60 Hz for 3 phases mo- tors 30 hp at 200/208 V AC 50/60 Hz for 3 phases mo- tors
Control circuit type	AC 50 Hz
Control circuit voltage	220 V AC 50 Hz
Auxiliary contact com- position	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	
[Ith] conventional free air thermal current	200 A at <= 60 °C for power circuit
Irms rated making capacity	1260 A at 440 V for power circuit conforming to IEC 60947 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capac- ity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 1100 A ≤ 40 °C 1 s power circuit 950 A ≤ 40 °C 10 s power circuit 550 A ≤ 40 °C 1 min power circuit 250 A ≤ 40 °C 10 min power circuit
Associated fuse rating	10 A gG for signalling circuit 200 A gG at <= 690 V coordination type 2 for power circuit 250 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	0.6 mOhm at 50 Hz - Ith 200 A for power circuit



[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA
Electrical durability	0.95 Mcycles 115 A AC-3 at Ue <= 440 V 0.8 Mcycles 200 A AC-1 at Ue <= 440 V
Power dissipation per pole	7.9 W AC-3 24 W AC-1
Safety cover	With
Mounting support	Plate Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 n°14
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Power circuit: connector 2 cable(s) 1050 mm ² - ca- ble stiffness: solid - without cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 1050 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 1050 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 10120 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s)
Tightening torque	Power circuit: 12 N.m - on connector hexagonal 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Operating time	2050 ms closing 620 ms opening
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load
	conforming to EN/ISO 13849-1
Mechanical durability	conforming to EN/ISO 13849-1 8 Mcycles

Without built-in suppressor module
0.851.1 Uc at 55 °C operational 50 Hz 0.30.6 Uc at 55 °C drop-out 50 Hz
300 VA at 20 °C (cos φ 0.8) 50 Hz
22 VA at 20 °C (cos φ 0.3) 50 Hz
38 W at 50 Hz
Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
25400 Hz
5 mA for signalling circuit
17 V for signalling circuit
1.5 ms on energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact)
> 10 MOhm for signalling circuit

Environment

IP degree of protection	IP2x 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 de- vice	-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	Shocks contactor open 6 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	158 mm
Width	120 mm
Depth	136 mm
Product weight	2.5 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0742 - 🖾 download declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instruction	Available 🗟 Download End Of Life Manual

