Fisa tehnica produs
Caracteristici

LC1D115D7
TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 115 A - 42 V AC coil

Informatiile furnizate in aceasta documentatie contin descrieri generale si/sau caracteristici tehnice a performantelor produselor continute in acest document.
Aceasta documentatie nu este conceputa ca un substitut si nu trebuie utilizata pentru stabilirea corectitudinii alegerii sau fiabilitatea acestor produse pentru aplicatii specifice utilizatorului.
Este de datoria utilizatorului sau a integratorului pentru efectuarea analizei adecvate si complete a riscurilor, evaluarea si testarea produselor in ceea ce prive?te aplicatia specifica relevanta sau utilizarea acestora.
Schneider Electric Industries SAS sau filialele sale nu sunt responsabile sau raspunzatoare pentru utilizarea abuziva a informatiilor continute in acest document.



Main

Commercial Status	Commercialised
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	<= 300 V DC for power circuit <= 1000 V AC 25...400 Hz for power circuit
[Ie] rated operational current	115 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 200 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	65 kW at 1000 V AC 50/60 Hz 80 kW at 660...690 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 59 kW at 415...440 V AC 50/60 Hz 55 kW at 380...400 V AC 50/60 Hz 30 kW at 220...230 V AC 50/60 Hz
Motor power HP (UL / CSA)	100 hp at 575/600 V AC 50/60 Hz for 3 phases motors 75 hp at 460/480 V AC 50/60 Hz for 3 phases motors 40 hp at 230/240 V AC 50/60 Hz for 3 phases motors 30 hp at 200/208 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	42 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[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 capacity	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	0.60 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 No 14
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Power circuit: connector 2 cable(s) 10...50 mm² - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 10...120 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 10...50 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 10...120 mm² - cable stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 10...50 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 10...120 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...2.5 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...2.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end
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	20...50 ms closing 6...20 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	8 Mcycles
Operating rate	2400 cyc/h at <= 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.8...1.15 Uc at 55 °C operational 50/60 Hz 0.3...0.5 Uc at 55 °C drop-out 50/60 Hz
Inrush power in VA	280...350 VA at 20 °C (cos ? 0.8) 50 Hz 280...350 VA at 20 °C (cos ? 0.8) 60 Hz
Hold-in power consumption in VA	2...18 VA at 20 °C (cos ? 0.3) 50 Hz 2...18 VA at 20 °C (cos ? 0.3) 60 Hz
Heat dissipation	3...8 W at 50/60 Hz
Auxiliary contacts type	Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	1.5 ms on energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact)
Insulation resistance	> 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	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °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, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 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 0932 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Descarcare Product Environmental
Product end of life instructions	Available Descarcare End Of Life Manual

Contractual warranty

Period	18 months