LC1DT20F7

TeSys; TeSys Deca, Contactor, 4P(4 NO), AC-1, 0 to 440V, 20A, 110VAC 50/60Hz coil





Main

Range	TeSys TeSys Deca
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] rated operational current	20 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

Complementary

Complementary	
Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	With
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 20 A (at 60 °C) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 20 A 50 Hz for power circuit
Power dissipation per pole	1.56 W AC-1
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
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	15 Mcycles
Control circuit type	AC at 50/60 Hz

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of or determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	23 W at 50/60 Hz
Operating time	419 ms opening 1222 ms closing
Maximum operating rate	3600 cyc/h 60 °C
Connections - terminals Tightening torque	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end
rightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
	Type mirror contact 1 NC conforming to IEC 60947-4-1
Signalling circuit frequency	
	Type mirror contact 1 NC conforming to IEC 60947-4-1
Minimum switching voltage	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz
Minimum switching voltage Minimum switching current	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit
Minimum switching voltage Minimum switching current Insulation resistance	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit
Signalling circuit frequency Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time Mounting support	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact
Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time Mounting support	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail
Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time Mounting support Environment	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate
Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time Mounting support Environment	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail
Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508
Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time Mounting support Environment Standards Product certifications	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 BV[RETURN]GOST[RETURN]LROS (Lloyds register of shipping)
Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time Mounting support Environment Standards	Type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 BV[RETURN]GOST[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]UL[RETURN]CSA[RETURN]GL[RETURN]RINA[RETURN]CC

Permissible ambient air temperature around the device	-4060 °C 6070 °C with derating
Operating altitude	03000 m
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)
iviec i anical robustiless	Vibrations contactor open (2 GH, 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	85 mm
Width	45 mm
Depth	92 mm
Net weight	0.365 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	9.5 cm
Package 1 Length	12.0 cm
Package 1 Weight	386.0 g
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
Circularity Frome	T
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

~	
Contractual	warrantv

Warranty	18 months	