# LC1DT60AQ7

TeSys; TeSys Deca, Contactor, 4P(4 NO), AC-1, <= 440V, 60 A, 380V AC 50/60 Hz coil





#### Main

Range	TeSys
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	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	380 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 60 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 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min 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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.6 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	5.8 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	6 Mcycles
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
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 for 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.

Standards   CSA C22.2 No 14	Coil technology	Without built-in suppressor module
Hold-in power consumption in VA  13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos ph	Control circuit voltage limits	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz
Heat dissipation 45 W at 500 bit 2 in Common services and the services of t	Inrush power in VA	
Operating time  419 ms operating 1226 ms closhing 1326 ms closhing 1426 ms closhing 1526 ms	Hold-in power consumption in VA	
1226 ms closing  Maximum operating rate  3800 cych 60 °C  Connections - terminals  Control circuit: screw clamp terminals 2 125 mm² - cable stiffness: flexible with 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 without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiff	Heat dissipation	45 W at 50/60 Hz
Connections - terminals  Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable and 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 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 Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: 1.7 Nm - on EverLink BTR screw connectors - with screwdriver flexible with cable end Power circuit: 1.7 Nm - on EverLink BTR screw connectors - with screwdriver flexible with cable end Power circuit: 1.7 Nm - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 Nm - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 Nm - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm Power circuit: 5 Nm - on EverLink BTR screw c	Operating time	
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 1 14 mm² - cable stiffness: solid without cable end Power circuit. Ever.fl.ik BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit. Ever.fl.ik BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit. Ever.fl.ik BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit. Ever.fl.ik BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit. Ever.fl.ik BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit. Ever.fl.ik BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit. Ever.fl.ik BTR screw connectors - with screwdriver flexible without cable end Power circuit. Ever.fl.ik BTR screw connectors - with screwdriver flexible stiffness - solid without cable end Power circuit. Ever.fl.ik BTR screw connectors - with screwdriver flexible stiffness - solid without cable end Power circuit. Ever.fl.ik BTR screw connectors - with screwdriver flexible stiffness - solid without cable end Power circuit. Ever.fl.ik BTR screw connectors - with screwdriver flexible stiffness - solid without cable end Power circuit. STR screw connectors - with screwdriver flexible stiffness - solid without cable end Power circuit. STR screw connectors - with screwdriver flexible stiffness - solid without cable end Power circuit. STR screw connectors - cable 2535 mm² flexible stiffness - solid without cable end Power circuit. STR screw connectors - with screwdriver flexible stiffness - solid without ca	Maximum operating rate	3600 cyc/h 60 °C
flat Ø 6 mm   Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2   Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 2535 mm²   hexagonal screw head 4 mm   Power cable 2535 mm²   hexagonal screw head 4 mm   Power cable 2535 mm²   hexagonal screw head 4 mm   Power cable 2535 mm²   hexagonal screw head 4 mm   Power cable 26.0047-5-1   hexagonal screw head 4 mm   Power cable 2535 mm²   he		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: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness:
Auxiliary contact composition  1 NO + 1 NC  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  25400 Hz  Minimum switching voltage  17 V for signalling circuit  Minimum switching current  5 mA for signalling circuit  Non-overlap time  1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact 2.5 ms on energisation between NC and NO contact 3.5 ms on energisation between NC and NO contact 4.5 ms on energisation between NC and NO contact 4.1 ms on energisation between NC and NO contact 4.2 ms on energisation between NC and NO contact 4.3 ms on energisation between NC and NO contact  Environment  Standards  CSA C22.2 No 14 EN 60947-4-1 EC 60947-5-1 IEC 60947-5-1 UL 508  Product certifications  GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]DV[RETURN]DS[RETURN]CS  IP degree of protection  IP20 front face conforming to IEC 60529  Protective treatment  Climatic withstand  Conforming to IACS E10 exposure to damp heat	Tightening torque	flat Ø 6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²
Type mirror contact 1 NC conforming to IEC 60947-4-1  Signalling circuit frequency 25400 Hz  Minimum switching voltage 17 V for signalling circuit  Minimum switching current 5 mA for signalling circuit  Insulation resistance > 10 MOhm for signalling circuit  Non-overlap time 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact  Mounting support Plate Rail  Environment  Standards CSA C22.2 No 14  EN 60947-4-1  IEC 60947-4-1  IEC 60947-4-1  IEC 60947-5-1  UL 508  Product certifications GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping)  [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]DV[RETURN]DV[RETURN]DV[RETURN]CS  [P degree of protection IP20 front face conforming to IEC 60529  Protective treatment TH conforming to IEC 60068-2-30  Climatic withstand  Conforming to IACS E10 exposure to damp heat	Auxiliary contact composition	1 NO + 1 NC
Minimum switching voltage 17 V for signalling circuit  Minimum switching current 5 mA for signalling circuit  Insulation resistance > 10 MOhm for signalling circuit  Non-overlap time 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact  Mounting support Plate Rail  Environment  Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 I	Auxiliary contacts type	
Minimum switching current  Insulation resistance  > 10 MOhm for signalling circuit  Non-overlap time  1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact  Plate Rail  Environment  Standards  CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 IUL 508  Product certifications  GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]DNV[RETURN]UL[RETURN]DNV[RETURN]DNV[RETURN]DNV[RETURN]DNV[RETURN]DNV[RETURN]DNV[RETURN]CS  Protective treatment  TH conforming to IEC 60068-2-30  Climatic withstand  Conforming to IACS E10 exposure to damp heat	Signalling circuit frequency	25400 Hz
Insulation resistance > 10 MOhm for signalling circuit  Non-overlap time 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact  Mounting support Plate Rail  Environment  Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-5-1 IEC 60947-5-1 UL 508  Product certifications GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]DV[RETURN]DS[RETURN]CS  IP degree of protection IP20 front face conforming to IEC 60529  Protective treatment TH conforming to IEC 60068-2-30  Climatic withstand Conforming to IACS E10 exposure to damp heat	Minimum switching voltage	17 V for signalling circuit
Non-overlap time  1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact  Plate Rail  Environment  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  GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]DNV[RETURN]DNV[RETURN]DNV[RETURN]DNV[RETURN]CS  IP degree of protection  IP20 front face conforming to IEC 60529  Protective treatment  TH conforming to IEC 60068-2-30  Climatic withstand  Conforming to IACS E10 exposure to damp heat	Minimum switching current	5 mA for signalling circuit
Mounting support  Plate Rail  Environment  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  GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]UL[RETURN]BV[RETURN]CS  IP degree of protection  IP degree of protection  IP 20 front face conforming to IEC 60529  Protective treatment  TH conforming to IEC 60068-2-30  Climatic withstand  Conforming to IACS E10 exposure to damp heat		1.5 Ms on de-energisation between NC and NO contact
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  GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]UL[RETURN]BV[RETURN]CS IP degree of protection  IP20 front face conforming to IEC 60529  Protective treatment  TH conforming to IEC 60068-2-30  Climatic withstand  Conforming to IACS E10 exposure to damp heat	Mounting support	Plate
EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508  Product certifications  GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]DV[RETURN]DV[RETURN]CS IP degree of protection  IP20 front face conforming to IEC 60529  Protective treatment  TH conforming to IEC 60068-2-30  Climatic withstand  Conforming to IACS E10 exposure to damp heat	Environment	
[RETURN]GL[RETURN]DNV[RETURN]UL[RETURN]BV[RETURN]CS  IP degree of protection	Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
Protective treatment TH conforming to IEC 60068-2-30  Climatic withstand Conforming to IACS E10 exposure to damp heat	Product certifications	GOST[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]CCC[RETURN]DNV[RETURN]UL[RETURN]BV[RETURN]CS
Climatic withstand Conforming to IACS E10 exposure to damp heat	IP degree of protection	IP20 front face conforming to IEC 60529
	Protective treatment	TH conforming to IEC 60068-2-30
	Climatic withstand	

Permissible ambient air temperature around the	-4060 °C	
device	6070 °C with derating	
Operating altitude	03000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
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	122 mm	
Width	70 mm	
Depth	120 mm	
Net weight	1.09 kg	

### Environmental

Flame retardance	V1 conforming to UL 94

# **Packing Units**

<u> </u>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.9 cm
Package 1 Width	13.8 cm
Package 1 Length	15.3 cm
Package 1 Weight	1.097 kg

# Offer Sustainability

Sustainable offer status	Green Premium product
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

#### Contractual warranty

Contractadi Warranty	
Warranty	18 months