

TeSys Deca contactor - 4P(4 NO) - AC-1 - <= 440 V 60 A - 220 V AC 50/60 Hz coil

LC1DT60AM7



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Main	
Range	TeSys TeSys Deca
Product name	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[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
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
[Ith] 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
[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
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Power dissipation per pole	5.8 W AC-1
Front cover	With
Mounting support	Rail Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product certifications	LROS (Lloyds register of shipping) UL GOST BV CCC CSA RINA DNV GL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²solid without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 135 mm²solid without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²solid without cable end
Tightening torque	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver 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 hexagonal screw head 4 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on EverLink BTR screw connectors - with screwdriver pozidriv No 2 - on EverLink BTR screw connectors
Operating time	419 ms opening 1226 ms closing
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
Maximum operating rate	3600 cyc/h 60 °C
Complementary	
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	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	45 W at 50/60 Hz
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	25400 Hz
Minimum switching current	5 mA for signalling circuit

Mon-overlap time 1.5 ms on de-energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energis 1.5 ms		
1.5 ms on energisation between NC and NO context	Minimum switching voltage	17 V for signalling circuit
Environment IP degree of protection IP degre	Non-overlap time	
P degree of protection IP20 front face conforming to IEC 60529	Insulation resistance	> 10 MOhm for signalling circuit
Climatic withstand conforming to IACS E10 conforming to IEC 800847-1 Annex Q category D Protective treatment The conforming to IEC 800847-1 Annex Q category D Protective treatment The conforming to IEC 80088-2-30 Pollution degree 3 Ambient air temperature for operation 40, 80 °C	Environment	
Conforming to IEC 609847-1 Aninex Q category D	IP degree of protection	IP20 front face conforming to IEC 60529
Pollution degree 3 3 4 4 5 5 6 7 6 6 7 7 6 6 7 7	Climatic withstand	
Ambient air temperature for operation Ambient air temperature for operation Ambient air temperature for 6879 °C with derating Ambient air temperature for storage Operating altitude O3000 m Fire resistance 850 °C conforming to IEC 60695-2-1 Mechanical robustness Vibrations contactor open: 2 Gn. 5300 Hz Vibrations contactor obeset: 4 Gn. 5300 Hz Shocks contactor obeset: 6 Gn for 11 ms Height 122 mm Width 70 mm Depth 120 mm Net weight 1,99 kg Packing Units Unit Type of Package 1 Package 1 Weight 1,997 kg Package 1 Height 8 cm Package 1 Length 15 cm Unit Type of Package 2 Po8 Number of Units in Package 2 112 Package 2 Weight 138,644 kg Package 2 Height 77 cm Package 2 Height 77 cm Package 2 Veight 188,644 kg Package 2 Length 80 cm Package 2 Length 60 cm Unit Type of Package 3 Number of Units in Package 3 7 Package 3 Weight 8,941 kg	Protective treatment	TH conforming to IEC 60068-2-30
Solution	Pollution degree	3
Operating altitude		
Section Sect	•	-6080 °C
Mechanical robustness Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor open: 10 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 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 Height 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 P12 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 Length 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 Number of Units in Package 3 Package 3 Weight 8.041 kg	Operating altitude	03000 m
Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor closed: 10 Gn for 11 ms Shocks cl	Fire resistance	850 °C conforming to IEC 60695-2-1
Width 70 mm Depth 120 mm Net weight 1.09 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 width 14 cm Package 2 Length 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Weight 138.644 kg Package 2 Length 60 cm Unit Type of Package 3 502 Number of Units in Package 3 502 Number of Units in Package 3 8.041 kg	Mechanical robustness	Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms
Depth 120 mm Net weight 1.09 kg Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 width 14 cm Package 1 Length 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Height	122 mm
Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 uidth 14 cm Package 1 Length 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 height 80 cm Package 2 Length 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Width	70 mm
Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 uidth 14 cm Package 1 Length 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 Length 80 cm Package 2 vidth 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Depth	120 mm
Unit Type of Package 1 Number of Units in Package 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 Length 15 cm Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 Weight 80 cm Package 2 Length 60 cm Unit Type of Package 3 Number of Units in Package 3 Number of Units in Package 3 8.041 kg	Net weight	1.09 kg
Unit Type of Package 1 Number of Units in Package 1 Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 Length 15 cm Unit Type of Package 2 Number of Units in Package 2 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 Weight 80 cm Package 2 Length 60 cm Unit Type of Package 3 Number of Units in Package 3 Number of Units in Package 3 8.041 kg	Packing Units	
Package 1 Weight 1.097 kg Package 1 Height 8 cm Package 1 width 14 cm Package 1 Length 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 Package 3 Weight 8.041 kg		PCE
Package 1 Height 8 cm Package 1 width 14 cm Package 1 Length 15 cm Unit Type of Package 2 P06 Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Number of Units in Package 1	1
Package 1 width Package 1 Length 15 cm Unit Type of Package 2 Push Number of Units in Package 2 Package 2 Weight Package 2 Weight Package 2 Height 77 cm Package 2 width Package 2 Length 60 cm Unit Type of Package 3 Number of Units in Package 3 Package 3 Weight 8.041 kg	Package 1 Weight	1.097 kg
Package 1 Length Unit Type of Package 2 P06 Number of Units in Package 2 Package 2 Weight Package 2 Height Package 2 width Package 2 width Package 2 Length 60 cm Unit Type of Package 3 Number of Units in Package 3 Package 3 Weight 8.041 kg	Package 1 Height	8 cm
Unit Type of Package 2 P06 Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Package 1 width	14 cm
Number of Units in Package 2 112 Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Package 1 Length	15 cm
Package 2 Weight 138.644 kg Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Unit Type of Package 2	P06
Package 2 Height 77 cm Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Number of Units in Package 2	112
Package 2 width 80 cm Package 2 Length 60 cm Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Package 2 Weight	138.644 kg
Package 2 Length 60 cm Unit Type of Package 3 \$02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Package 2 Height	77 cm
Unit Type of Package 3 S02 Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Package 2 width	80 cm
Number of Units in Package 3 7 Package 3 Weight 8.041 kg	Package 2 Length	60 cm
Package 3 Weight 8.041 kg	Unit Type of Package 3	S02
	Number of Units in Package 3	
Package 3 Height 15 cm	Package 3 Weight	8.041 kg
	Package 3 Height	15 cm

30 cm

40 cm

Package 3 width

Package 3 Length

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	
California proposition 65	fornia proposition 65 WARNING: This product can expose you to chemicals including: Antimony oxide & Antir trioxide, which is known to the State of California to cause cancer. For more information www.P65Warnings.ca.gov	

Contractual warranty

Warranty	18 months	
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