TeSys Deca contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 20 A - 24 V DC coil

LC1D098BD

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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	2 NO + 2 NC
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 250 V DC
[le] rated operational current	20 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
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	20 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 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 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 25 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified

Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified 0.3 Mcycles 20 A AC-1 at Ue <= 690 V **Electrical durability** 1.56 W AC-1 Power dissipation per pole With Front cover **Mounting support** Plate Rail CSA C22.2 No 60947-4-1 **Standards** EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 **Product certifications** UL CCC **CSA** UKCA EAC CB EU-RO-MR by DNV-GL **Connections - terminals** Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm²solid without cable end Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat \varnothing 6 mm **Tightening torque** 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 flat Ø 6 mm Control 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: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Operating time 53.55...72.45 ms closing 16...24 ms opening 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 30 Mcycles Maximum operating rate 3600 cyc/h 60 °C Complementary Coil technology Built-in bidirectional peak limiting diode suppressor Control circuit voltage limits 0.1...0.25 Uc (-40...60 °C):drop-out DC 0.7...1.25 Uc (-40...60 °C):operational DC 1...1.25 Uc (60...70 °C):operational DC Time constant 28 ms Inrush power in W 5.4 W (at 20 °C) 5.4 W at 20 °C Hold-in power consumption in **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 25...400 Hz Minimum switching current 5 mA for signalling circuit Minimum switching voltage 17 V for signalling circuit

Power circuit: 600 V UI certified

1.5 ms on de-energisation between NC and NO contact1.5 ms on energisation between NC and NO contact

Non-overlap time

Insulation resistance	> 10 MOhm for signalling circuit
Environment	
IP degree of protection	IP20 front face conforming to IEC 60529
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-4060 °C 6070 °C with derating
Ambient air temperature for storage	-6080 °C
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 open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
Height	85 mm
Width	45 mm
Depth	99 mm
Net weight	0.525 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	564.0 g
Package 1 Height	5.5 cm
Package 1 width	9.5 cm
Package 1 Length	12 cm
Unit Type of Package 2	S02
Number of Units in Package 2	16
Package 2 Weight	9.58 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information

PVC free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months