

# Product data sheet

Specifications



contactor, TeSys Deca, 4P(4NO),  
AC-1  $\leq 440\text{V}$  200A, 24V DC  
standard coil, lugs/bars terminals

LC1D1150046BD

## Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Poles description	4P
[Ue] rated operational voltage	Power circuit: $\leq 1000\text{ V AC } 25\text{...}400\text{ Hz}$ Power circuit: $\leq 460\text{ V DC}$
[Ie] rated operational current	200 A (at $\leq 60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC AC-1}$ for power circuit
[Uc] control circuit voltage	24 V DC

## Complementary

Compatibility code	LC1D
Pole contact composition	4 NO
Contact compatibility	M8
Protective cover	With
[Ith] conventional free air thermal current	200 A (at $60\text{ }^\circ\text{C}$ ) for power circuit
Irms rated making capacity	1260 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	250 A $40\text{ }^\circ\text{C}$ - 10 min for power circuit 550 A $40\text{ }^\circ\text{C}$ - 1 min for power circuit 950 A $40\text{ }^\circ\text{C}$ - 10 s for power circuit 1100 A $40\text{ }^\circ\text{C}$ - 1 s for power circuit
Associated fuse rating	250 A gG at $\leq 690\text{ V}$ coordination type 1 for power circuit 200 A gG at $\leq 690\text{ V}$ coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
Power dissipation per pole	24 W AC-1
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1

<b>Overvoltage category</b>	III
<b>Pollution degree</b>	3
<b>[Uimp] rated impulse withstand voltage</b>	8 kV conforming to IEC 60947
<b>Safety reliability level</b>	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
<b>Mechanical durability</b>	8 Mcycles
<b>Electrical durability</b>	0.8 Mcycles 200 A AC-1 at $U_e \leq 440$ V
<b>Control circuit type</b>	DC standard
<b>Coil technology</b>	With integral suppression device
<b>Control circuit voltage limits</b>	0.75...1.2 $U_c$ (-40...55 °C):operational DC 0.15...0.4 $U_c$ (-40...70 °C):drop-out DC 1...1.2 $U_c$ (55...70 °C):operational DC
<b>Inrush power in W</b>	270...365 W (at 20 °C)
<b>Hold-in power consumption in W</b>	2.4...5.1 W at 20 °C
<b>Operating time</b>	20...35 ms closing 40...75 ms opening
<b>Time constant</b>	25 ms
<b>Maximum operating rate</b>	1200 cyc/h 60 °C
<b>Connections - terminals</b>	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Power circuit: bars 1 - busbar cross section: 5 x 25 mm
<b>Tightening torque</b>	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat $\varnothing$ 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8 Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5
<b>Mounting support</b>	Plate Rail
<b>Environment</b>	
<b>Standards</b>	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
<b>Product certifications</b>	LROS (Lloyds register of shipping) RINA CSA DNV GOST CCC UL GL BV UKCA
<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
<b>Protective treatment</b>	TH conforming to IEC 60068-2-30
<b>Climatic withstand</b>	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
<b>Permissible ambient air temperature around the device</b>	-40...60 °C 60...70 °C with derating
<b>Operating altitude</b>	0...3000 m
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Flame retardance</b>	V1 conforming to UL 94
<b>Mechanical robustness</b>	Vibrations contactor open (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor closed (15 Gn for 11 ms)

Shocks contactor open (6 Gn for 11 ms)

Height	158 mm
Width	155 mm
Depth	115 mm
Net weight	2.86 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	16.8 cm
Package 1 Width	21.2 cm
Package 1 Length	18.5 cm
Package 1 Weight	2.37 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

Warranty	18 months
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## Recommended replacement(s)