Product data sheet





IEC contactor, TeSys Deca, nonreversing, 20A resistive, 4 pole, 4 NO, 120VAC 50/60Hz coil, open style

LC1DT20G7

Product availability: Stock - Normally stocked in distribution facility

Price*: 126.00 USD

Main

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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 <140.0000000000 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	120 V AC 50/60 Hz	
Complementary		
Compatibility code	LC1D	

Compatibility code	LC1D	
Pole contact composition	4 NO	
Protective cover	With	
[Ith] conventional free air thermal current	1 10 A (at 140.0000000000 °F (60 °C)) for signalling circuit 20 A (at 140.0000000000 °F (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 104.0000000000 °F (40 °C) - 10 min for power circuit 61 A 104.0000000000 °F (40 °C) - 1 min for power circuit 105 A 104.0000000000 °F (40 °C) - 10 s for power circuit 210 A 104.0000000000 °F (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	

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL	
	Signalling circuit 690 V IEC 60947-1	
	Signalling circuit 600 V CSA	
	Signalling circuit 600 V UL	
	Power circuit 690 V IEC 60947-4-1	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
Safety reliability level	P40d = 1260962 avalog contactor with naminal load EN/ISO 12940 1	
Salety renashity level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	15 Mcycles	
Control circuit type	AC 50/60 Hz	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc -40.0000000000158.0000000000 °F (-4070 °C) drop-out AC 50/60	
	Hz 0.81.1 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational AC 50	
	Hz 0.851.1 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational AC 60	
	Hz	
	11.1 Uc 140.0000000000158.0000000000 °F (6070 °C) operational AC 50/60 Hz	
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68.0000000000 °F (20 °C))	
aon ponor ili vo	70 VA 50 Hz cos phi 0.75 (at 68.0000000000 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68.0000000000 °F (20 °C))	
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C))	
Heat dissipation	23 W at 50/60 Hz	
Operating time	419 ms opening	
operating time	1222 ms closing	
Maximum operating rate	3600 cyc/h 140.0000000000 °F (60 °C)	
Connections - terminals	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable	
	stiffness: solid without cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness:	
	flexible without cable end	
	Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness:	
	flexible without cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness:	
	flexible with cable end	
	Power circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: solid without cable end	
	Power circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness:	
	solid without cable end	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2	
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals rozidriv No 2	
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	

Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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	
	EN 60947-5-1	
	IEC 60947-4-1	
	IEC 60947-5-1	
	UL 508	
	IEC 60335-1	
Product Certifications	RINA	
	BV	
	GL	
	LROS (Lloyds register of shipping)	
	DNV	
	GOST	
	UL	
	CSA	
	CCC	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	
Climatic withstand	IACS E10 exposure to damp heat	
	IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible ambient air	-40.000000000140.0000000000 °F (-4060 °C)	
temperature around the device	140.000000000158.0000000000 °F (6070 °C) with derating	
	- Tologood T	
Operating altitude 09842.52 ft (03000 m)		
Fire resistance	1562.0000000000 °F (850 °C) IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
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)	
	onound contactor open to on to tring	
Height	3.3 in (85 mm)	
Width	1.8 in (45 mm)	
Depth	3.6 in (92 mm)	
Net Weight	0.805 lb(US) (0.365 kg)	
	5.555 is(55) (5.665 kg)	

Ordering and shipping details

Category	US10l1222354	
Discount Schedule	0112	
GTIN	3389110298901	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.2 in (5.5 cm)
Package 1 Width	3.7 in (9.5 cm)
Package 1 Length	4.4 in (11.2 cm)
Package 1 Weight	13.7 oz (389 g)
Unit Type of Package 2	S02
Number of Units in Package 2	16
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	14.967 lb(US) (6.789 kg)

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Toxic Heavy Metal Free	
Ø	Mercury Free	
Ø	Rohs Exemption Information	Yes
②	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
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.
Circularity Profile	End of Life Information
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