

# LC1D40004G6

IEC contactor, TeSys D, nonreversing, 60A resistive, 4 pole, 4 NO, 120VAC 60Hz coil, open style



## Main

Range of Product	TeSys D TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
Contactors application	Resistive load
Utilisation category	AC-1
Control circuit type	AC
Coil type	Standard
Poles description	4P
Pole contact composition	4 NO
[Ie] rated operational current	60 A 140 °F (60 °C)) 440 V AC AC-1 power circuit
[Uc] control circuit voltage	120 V AC 60 Hz
Connections - terminals	Control circuit screw clamp terminal 1 x 0.00... 0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Control circuit screw clamp terminal 2 x 0.00... 0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminal 2 x 0.00... 0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end Power circuit screw clamp terminal 1 x 0.00... 0.02 in <sup>2</sup> (2.5... 16 mm <sup>2</sup> )solid without cable end Power circuit screw clamp terminal 2 x 0.00...0.02 in <sup>2</sup> (2.5... 16 mm <sup>2</sup> )solid without cable end

## Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Control circuit voltage limits	Drop-out 0.3...0.6 U <sub>c</sub> 50/60 Hz 140 °F (60 °C)) Operational 0.85... 1.1 U <sub>c</sub> 60 Hz 140 °F (60 °C))
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-4-1 Power circuit 690 V IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
Mounting Support	Plate Rail
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2 Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm hexagonal Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal Philips No 2 hexagonal Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal pozidriv No 2
[Ue] rated operational voltage	Power circuit 690 V AC 25...400 Hz

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[Ith] conventional free air thermal current	10 A 140 °F (60 °C) control circuit 40 A 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC control circuit IEC 60947-5-1 800 A 440 V AC power circuit IEC 60947
Rated breaking capacity	800 kA 440 V power circuit IEC 60947
Associated fuse rating	10 A gG control circuit IEC 60947-5-1 80 A 690 V type 1 power circuit 80 A 690 V type 2 power circuit
Average impedance	1.5 Ohm - Ith 60 A 50 Hz power circuit
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
Inrush power in VA	140 VA 0.75 68 °F (20 °C))
Operating time	12...22 ms closing 4...19 ms opening
Safety reliability 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	15000000 cycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm control circuit

## Environment

Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 UL 508 EN/IEC 60947-4-1
Product Certifications	CSA DNV GL BV UL CCC RINA LROS (Lloyds register of shipping) UKCA
IP degree of protection	IP2x VDE 0106
Protective treatment	THIEC 60068-2-30
Ambient Air Temperature for Operation	23...140 °F (-5...60 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Shock resistance	10 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Heat dissipation	2...3 W 50/60 Hz control circuit

## Ordering and shipping details

Category	22357-CTR, TESYS D, OPEN, 40-65A AC
Discount Schedule	I12
GTIN	3389110069341
Nbr. of units in pkg.	1
Package weight(Lbs)	3.16 lb(US) (1.432 kg)
Returnability	Yes
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.12 in (13 cm)
Package 1 width	3.74 in (9.5 cm)
Package 1 Length	5.31 in (13.5 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</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.

## Contractual warranty

Warranty	18 months
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