



## Main

Range of Product	TeSys D 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 25...400 Hz
[Ie] rated operational current	60 A 140 °F (60 °C)) AC AC-1 power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

## Complementary

[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) control circuit 60 A 140 °F (60 °C) power circuit
Rated breaking capacity	800 A 440 V power circuit IEC 60947
Associated fuse rating	10 A gG control circuit IEC 60947-5-1 80 A gG <= 690 V type 1 power circuit 80 A gG <= 690 V type 2 power circuit
Average impedance	- Ith 60 A 50 Hz power circuit
[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 60947-1 Power circuit 690 V IEC 60947-1
Power dissipation per pole	5.4 W AC-1
Pole contact composition	4 NO
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Irms rated making capacity	140 A AC control circuit IEC 60947-5-1 800 A 440 V power circuit IEC 60947
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Protective cover	With
Control circuit voltage limits	Drop-out 0.3...0.6 Uc 50/60 Hz 140 °F (60 °C)) Operational 0.8...1.1 Uc 50 Hz 140 °F (60 °C)) Operational 0.85...1.1 Uc 60 Hz 140 °F (60 °C))
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Inrush power in VA	140 VA 0.75 68 °F (20 °C)) 160 VA 0.75 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz 0.3 68 °F (20 °C)) 15 VA 50 Hz 0.3 68 °F (20 °C))
Coil type	Standard
Control circuit type	AC
Heat dissipation	4...5 W 50/60 Hz control circuit

Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Insulation resistance	> 10 MOhm control circuit
Mechanical durability	6000000 cycles
Operating altitude	9842.52 ft (3000 m) without derating
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
Operating time	12...26 ms closing 4...19 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
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...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with 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...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )solid without cable end Power circuit screw clamp terminal 2 x 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )solid without cable end Power circuit screw clamp terminal 2 x 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )solid without cable end
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 Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm
Mounting Support	Plate Rail
Standards	EN 60947-4-1 UL 508 EN 60947-5-1 CSA C22.2 No 14 IEC 60947-5-1 IEC 60947-4-1
Product Certifications	DNV GOST RINA CSA UL LROS (Lloyds register of shipping) CCC BV GL UKCA

## Environment

IP degree of protection	IP2x IEC 60529 IP2x VDE 0106
Protective treatment	TH 3)IEC 60068
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
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 U <sub>c</sub>
Shock resistance	10 gn contactor closed 8 gn contactor opened
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Height	5.00 in (127 mm)
Width	3.35 in (85 mm)
Depth	4.92 in (125 mm)
Net Weight	3.17 lb(US) (1.44 kg)

## Ordering and shipping details

Category	22357-CTR, TESYS D, OPEN, 40-65A AC
Discount Schedule	I12
GTIN	3389110231557
Nbr. of units in pkg.	1
Package weight(Lbs)	3.25 lb(US) (1.473 kg)
Returnability	No
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.53 in (11.5 cm)
Package 1 width	5.31 in (13.5 cm)
Package 1 Length	5.91 in (15.0 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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