



## Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LP1D
Contactors application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz
[Ie] rated operational current	60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	48 V DC

## Complementary

Compatibility code	LP1D
Pole contact composition	2 NO + 2 NC
Contact compatibility	M3
Protective cover	Without
[Ith] conventional free air thermal current	60 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	72 A 104 °F (40 °C) - 10 min for power circuit 165 A 104 °F (40 °C) - 1 min for power circuit 320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit
Associated fuse rating	80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	5.4 W AC-1
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
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	10 Mcycles
Electrical durability	1.4 Mcycles 60 A AC-1 <= 440 V
Control circuit type	DC DC standard
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.1...0.3 Uc -40...131 °F (-40...55 °C) drop-out DC 0.85...1.1 Uc -40...131 °F (-40...55 °C) operational DC
Inrush power in W	22 W 68 °F (20 °C)
Hold-in power consumption in W	22 W 68 °F (20 °C)
Operating time	4...19 ms opening 12...26 ms closing

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Time constant	75 ms
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	<p>Power circuit: screw clamp terminals 1 0.00...0.04 in<sup>2</sup> (2.5...25 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 0.00...0.02 in<sup>2</sup> (2.5...16 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 0.00...0.04 in<sup>2</sup> (2.5...25 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 0.00...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 0.00...0.04 in<sup>2</sup> (2.5...25 mm<sup>2</sup>) - cable stiffness: solid</p> <p>Power circuit: screw clamp terminals 2 0.00...0.02 in<sup>2</sup> (2.5...16 mm<sup>2</sup>) - cable stiffness: solid</p> <p>Control circuit: screw clamp terminals 1 0.00...0.01 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 0.00...0.01 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.01 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 0.00...0.00 in<sup>2</sup> (1...2.5 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.01 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: solid</p> <p>Control circuit: screw clamp terminals 2 0.00...0.01 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: solid</p>
Tightening torque	<p>Power circuit 70.81 lbf.in (8 N.m) screw clamp terminals 0.04...0.05 in<sup>2</sup> (25...35 mm<sup>2</sup>) hexagonal 0.16 in (4 mm)</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Phillips No 2</p> <p>Power circuit 44.25 lbf.in (5 N.m) screw clamp terminals 0.00...0.04 in<sup>2</sup> (1...25 mm<sup>2</sup>) hexagonal 0.16 in (4 mm)</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2</p>
Mounting Support	Rail Plate

## Environment

Standards	<p>CSA C22.2 No 14</p> <p>EN 60947-4-1</p> <p>EN 60947-5-1</p> <p>IEC 60947-4-1</p> <p>IEC 60947-5-1</p> <p>UL 508</p>
Product Certifications	<p>UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]UKCA[RETURN]CB[RETURN]DNV-GL[RETURN]RINA[RETURN]BV[RETURN]LROS (Lloyds register of shipping)</p>
IP degree of protection	IP20 front face IEC 60529
Permissible ambient air temperature around the device	<p>-40...140 °F (-40...60 °C)</p> <p>140...158 °F (60...70 °C) with derating</p>
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	<p>Shocks contactor open 8 Gn for 11 ms)</p> <p>Shocks contactor closed 10 Gn for 11 ms)</p> <p>Vibrations contactor opened 2 Gn, 5...300 Hz)</p> <p>Vibrations contactor closed 4 Gn, 5...300 Hz)</p>
Height	5.00 in (127 mm)
Width	3.35 in (85 mm)
Depth	7.17 in (182 mm)
Net Weight	4.87 lb(US) (2.21 kg)

## Ordering and shipping details

Category	22358-CTR,TESYS D,OPEN,40-65A DC
Discount Schedule	I12
GTIN	3389110200133
Returnability	No
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.68 in (19.5 cm)
Package 1 Width	3.74 in (9.5 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	4.89 lb(US) (2.22 kg)

## 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
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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