Product data sheet

Specification





IEC contactor, TeSys Deca Green, nonreversing, 60A resistive, 4 pole, 4 NO, 100/250VAC/VDC coil, open style

LC1DT60AKUE

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 445.20 USD

Main

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
[le] rated operational current	60 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit
[Uc] control circuit voltage	100250 V AC 50/60 Hz 100250 V DC

Complementary

Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	With
[Ith] conventional free air thermal current	60 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[lcw] 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 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling 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 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	1.6 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	5.8 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 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
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	6 Mcycles
Electrical durability	0.7 Mcycles 60 A AC-1 <= 440 V
Control circuit type	AC/DC 50/60 Hz AC/DC electronic
Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40158 °F (-4070 °C) drop-out AC/DC 0.851.1 Uc -40140 °F (-4060 °C) operational AC/DC 11.1 Uc 140158 °F (6070 °C) operational AC/DC
Inrush power in VA	18 VA 50/60 Hz (at 68 °F (20 °C))
Inrush power in W	14 W 68 °F (20 °C))
Hold-in power consumption in VA	1.8 VA 50/60 Hz (at 68 °F (20 °C))
Hold-in power consumption in W	1.2 W 68 °F (20 °C)
Heat dissipation	1.2 W at 50/60 Hz
Operating time	5565 ms closing 2080 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Tightening torque	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 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: solid Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²) - cable stiffness: solid Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²) - cable stiffness: solid 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 flat Ø 6 mm
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in² (25 35 mm²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in² (1 25 mm²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) 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	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1
Product Certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA
IP degree of protection	IP20 front face IEC 60529
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °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 open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
Height	4.8 in (122 mm)
Width	2.8 in (70 mm)
Depth	4.7 in (120 mm)
Net Weight	2.712 lb(US) (1.230 kg)

Ordering and shipping details

Category	US10I1222357	
Discount Schedule	0112	
GTIN	3606489493462	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.8 in (7.0 cm)

Package 1 Width	5.4 in (13.8 cm)	
Package 1 Length	6.02 in (15.3 cm)	
Package 1 Weight	2.560 lb(US) (1.161 kg)	

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
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