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Product data sheet
Characteristics

LC1D12KUE
TeSys D Green IEC contactor, 12 A, 3 P, 7.5 HP at 480 VAC, nonreversing, 100-250 VAC/ VDC coil

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Main

Range	TeSys
Product name	TeSys D Green
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	25 A 140 °F (60 °C)) <= 440 V AC-1 power circuit 12 A 140 °F (60 °C)) <= 440 V AC-3 power circuit
Motor power kW	3 KW 220...230 V AC 50 Hz AC-3) 5.5 KW 380...400 V AC 50 Hz AC-3) 5.5 KW 415 V AC 50 Hz AC-3) 5.5 KW 440 V AC 50 Hz AC-3) 7.5 KW 500 V AC 50 Hz AC-3) 7.5 kW 660...690 V AC 50 Hz AC-3)
Motor power HP (UL / CSA)	0.5 Hp 115 V AC 60 Hz 1 phase 2 Hp 230/240 V AC 60 Hz 1 phase 3 Hp 200/208 V AC 60 Hz 3 phase 3 Hp 230/240 V AC 60 Hz 3 phase 7.5 Hp 460/480 V AC 60 Hz 3 phase 10 hp 575/600 V AC 60 Hz 3 phase
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...250 V DC
Coil type	AC/DC electronic
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 25 A (at 60 °C) for power circuit
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit 30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 40 A gG <= 690 V type 1 power circuit 25 A gG <= 690 V type 2 power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
Electrical durability	2.3 Mcycles 11 A AC-3 <= 440 V 0.8 Mcycles 25 A AC-1 at Ue <= 440 V
Power dissipation per pole	1.56 W AC-1 0.36 W AC-3
Front cover	With
Mounting support	Rail Plate

Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping)
Connections - terminals	Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)solid Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)solid Power circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1…4 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible with cable end Power circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)solid Power circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)solid
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: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	45...55 ms closing 20...90 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	15 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40…158 °F (-40…70 °C) drop-out AC/DC 0.85...1.1 Uc -40…140 °F (-40…60 °C) operational AC/DC 1...1.1 Uc 140…158 °F (60…70 °C) operational AC/DC
Inrush power in VA	25 VA 50/60 Hz 68 °F (20 °C))
Inrush power in W	18 W 68 °F (20 °C)
Hold-in power consumption in VA	1.6 VA 68 °F (20 °C)) 50/60 Hz
Hold-in power consumption in W	1.1 W 68 °F (20 °C)
Heat dissipation	1.1 W 50/60 Hz
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V 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

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Insulation resistance	> 10 MOhm signalling circuit
Compatibility code	LC1D

Environment

IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating
Ambient air temperature for storage	-76…176 °F (-60…80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	3.03 in (77 mm)
Maximum Width	1.77 in (45 mm)
Depth	3.39 in (86 mm)
Net Weight	0.82 lb(US) (0.373 kg)
Color	Gray SE GREY 6) Green SE GREEN 2)

Ordering and shipping details

Category	22356 - CTR,TESYS D,OPEN,9-65A AC/DC GREEN
Discount Schedule	I12
GTIN	00785901965763
Nbr. of units in pkg.	1
Package weight(Lbs)	0.82 lb(US) (0.37 kg)
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.17 in (5.5 cm)
Package 1 width	3.66 in (9.3 cm)
Package 1 Length	4.65 in (11.8 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	13.89 lb(US) (6.3 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

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WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Halogen content performance	Halogen free plastic parts & cables product

Contractual warranty

Warranty	18 months