

LC1D123FD

IEC contactor, TeSys Deca, nonreversing,
12A, 7.5HP at 480VAC, 3 phase, 3 pole, 3 NO,
110VDC coil, open style



Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	16 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 12 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit 12 A 140 °F (60 °C)) <= 440 V AC AC-3e power circuit
[Uc] control circuit voltage	110 V DC

Complementary

Motor power kW	3 KW 220...230 V AC 50/60 Hz AC-3) 5.5 KW 380...400 V AC 50/60 Hz AC-3) 5.5 KW 415...440 V AC 50/60 Hz AC-3) 7.5 KW 500 V AC 50/60 Hz AC-3) 7.5 KW 660...690 V AC 50/60 Hz AC-3) 3.7 KW 400 V AC 50/60 Hz AC-4) 3 KW 220...230 V AC 50/60 Hz AC-3e) 5.5 KW 380...400 V AC 50/60 Hz AC-3e) 5.5 KW 415...440 V AC 50/60 Hz AC-3e) 7.5 KW 500 V AC 50/60 Hz AC-3e) 7.5 KW 660...690 V AC 50/60 Hz AC-3e)
Maximum Horse Power Rating	0.5 Hp 115 V at AC 50/60 Hz for 1 phase 2 Hp 230/240 V at AC 50/60 Hz for 1 phase 3 Hp 200/208 V at AC 50/60 Hz for 3 phase 3 Hp 230/240 V at AC 50/60 Hz for 3 phase 7.5 Hp 460/480 V at AC 50/60 Hz for 3 phase 10 hp 575/600 V at AC 50/60 Hz for 3 phase
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M4
Protective cover	With
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 16 A 140 °F (60 °C) power circuit
Irms rated making capacity	250 A 440 V power circuit 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 440 V power circuit IEC 60947

[Icw] rated short-time withstand current	105 A 104 °F (40 °C) - 10 s power circuit 210 A 104 °F (40 °C) - 1 s power circuit 30 A 104 °F (40 °C) - 10 min power circuit 61 A 104 °F (40 °C) - 1 min power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling 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 16 A 50 Hz power circuit
Power dissipation per pole	0.36 W AC-3 1.56 W AC-1 0.36 W AC-3e
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling 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	30 Mcycles
Electrical durability	2 Mcycles 12 A AC-3 ≤ 440 V 0.8 Mcycles 25 A AC-1 ≤ 440 V 2 Mcycles 12 A AC-3e ≤ 440 V
Control circuit type	DC standard
Coil technology	With integral suppression device
Control circuit voltage limits	0.1...0.25 Uc -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 Uc -40...140 °F (-40...60 °C) operational DC 1...1.25 Uc 140...158 °F (60...70 °C) operational DC
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 W 68 °F (20 °C)
Operating time	53.55...72.45 ms closing 16...24 ms opening
Time constant	28 ms
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Power circuit spring terminals 1 0.00 in ² (2.5 mm ²) flexible without cable end Power circuit spring terminals 2 0.00 in ² (2.5 mm ²) flexible without cable end Control circuit spring terminals 1 0.00 in ² (2.5 mm ²) flexible without cable end Control circuit spring terminals 2 0.00 in ² (2.5 mm ²) flexible without cable end
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	25...400 Hz
Minimum switching voltage	17 V signalling circuit
Minimum switching current	5 mA signalling circuit
Insulation resistance	> 10 MOhm 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	Rail Plate

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product Certifications	GOST LROS (Lloyds register of shipping) DNV UL GL BV RINA CSA CCC UKCA
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
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	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
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	Vibrations contactor open 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
Height	3.90 in (99 mm)
Width	1.77 in (45 mm)
Depth	3.74 in (95 mm)
Net Weight	1.07 lb(US) (0.485 kg)

Ordering and shipping details

Category	22355-CTR, TESYS D, OPEN, 9-38A DC
Discount Schedule	I12
GTIN	3389110806489
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.09 in (5.3 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	4.80 in (12.2 cm)
Package 1 Weight	19.22 oz (545.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	18.99 lb(US) (8.615 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)

Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	322.62 lb(US) (146.34 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 www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
PVC free	Yes

Contractual warranty

Warranty	18 months
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