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 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	16 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	110 V DC

Complementary

Motor power kW	3 KW at 220230 V AC 50/60 Hz (AC-3)
	5.5 KW at 380400 V AC 50/60 Hz (AC-3)
	5.5 KW at 415 V AC 50/60 Hz (AC-3)
	5.5 KW at 440 V AC 50/60 Hz (AC-3)
	7.5 KW at 500 V AC 50/60 Hz (AC-3)
	7.5 KW at 660690 V AC 50/60 Hz (AC-3)
	3 KW at 220230 V AC 50/60 Hz (AC-3e)
	5.5 KW at 380400 V AC 50/60 Hz (AC-3e)
	5.5 KW at 415 V AC 50/60 Hz (AC-3e) 5.5 KW at 440 V AC 50/60 Hz (AC-3e)
	7.5 KW at 500 V AC 50/60 Hz (AC-3e)
	7.5 KW at 660690 V AC 50/60 Hz (AC-3e)
	3.7 kW at 400 V AC 50/60 Hz (AC-4)
Maximum Horse Power Rating	0.5 Hp at 115 V AC 50/60 Hz for 1 phase motors
	2 Hp at 230/240 V AC 50/60 Hz for 1 phase motors
	3 Hp at 200/208 V AC 50/60 Hz for 3 phase motors
	3 Hp at 230/240 V AC 50/60 Hz for 3 phase motors
	7.5 Hp at 460/480 V AC 50/60 Hz for 3 phase motors
	10 hp at 575/600 V AC 50/60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M4
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit
	16 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	250 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	250 A at 440 V for power circuit conforming to IEC 60947

[lcw] rated short-time withstand current	105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit
	30 A 104 °F (40 °C) - 10 min for power circuit
	61 A 104 °F (40 °C) - 1 min 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	10 A gG for signalling circuit conforming to IEC 60947-5-1 40 A gG at <= 690 V coordination type 1 for power circuit
	25 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 16 A 50 Hz for 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
Our alternation	Signalling circuit 600 V UL
Overvoltage category 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	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC
	0.71.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °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	63 ±15 % ms closing 20 ±20 % 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 in² (2.5 mm²) - cable stiffness: flexible
	without cable end Power circuit: spring terminals 2 0.00 in² (2.5 mm²) - cable stiffness: flexible
	without cable end
	Control circuit: spring terminals 1 0.00 in² (2.5 mm²) - cable stiffness: flexible without cable end
	Control circuit: spring terminals 2 0.00 in² (2.5 mm²) - cable stiffness: 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	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 contact1.5 ms on energisation between NC and NO contact
Mounting Support	Rail Plate

Environment

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
GOST[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]UL[RETURN]GL[RETURN]BV[RETURN]RINA[RETURN]CSA[RETURN]
IP20 front face IEC 60529
THIEC 60068-2-30
IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
09842.52 ft (03000 m)
1562 °F (850 °C) IEC 60695-2-1
V1 conforming to UL 94
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)
3.90 in (99 mm)
1.77 in (45 mm)
3.74 in (95 mm)
1.07 lb(US) (0.485 kg)

Ordering and shipping details

Category	22355-CTR,TESYS D,OPEN,9-38A DC
Discount Schedule	112
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 with Exemptions
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	