LC1D123B7

IEC contactor, TeSys Deca, nonreversing, 12A, 7.5HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VAC 50/60Hz 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-4 AC-3 AC-3e
Poles description	3P
Poles description [Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[Ue] rated operational	Power circuit <= 690 V AC 25400 Hz

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
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

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[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 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	15 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	AC 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	23 W at 50/60 Hz
Operating time	1222 ms closing 419 ms opening
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 contact 1.5 ms on energisation between NC and NO contact
Mounting Support	Plate Rail

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	GL[RETURN]BV[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)
	[RETURN]RINA[RETURN]UL[RETURN]CCC[RETURN]CSA[RETURN]GOST[RETURN]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	-40140 °F (-4060 °C)
device	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	3.90 in (99 mm)
Width	1.77 in (45 mm)
Depth	3.39 in (86 mm)
Net Weight	0.72 lb(US) (0.325 kg)

Ordering and shipping details

Category	US10I1222354	
Discount Schedule	0112	
GTIN	3389110802900	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.09 in (5.300 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.80 in (12.200 cm)
Package 1 Weight	13.58 oz (385.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	13.94 lb(US) (6.322 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	240.64 lb(US) (109.152 kg)

Offer Sustainability

Warranty

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
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EPEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

18 months