# LC1D186SL

IEC contactor, TeSys Deca, nonreversing, 18A, 10HP at 480VAC, 3 phase, 3 pole, 3 NO, 72VDC coil, open style





#### Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3 AC-3e
Poles description	3P
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[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC

#### Complementary

Motor power kW	4 KW at 220230 V AC 50/60 Hz (AC-3)	
Wilder power kvv	7.5 KW at 380400 V AC 50/60 Hz (AC-3)	
	9 KW at 415440 V AC 50/60 Hz (AC-3)	
	10 KW at 500 V AC 50/60 Hz (AC-3)	
	10 KW at 660690 V AC 50/60 Hz (AC-3)	
	4 KW at 400 V AC 50/60 Hz (AC-4)	
	4 KW at 220230 V AC 50/60 Hz (AC-3e)	
	7.5 KW at 380400 V AC 50/60 Hz (AC-3e)	
	9 KW at 415440 V AC 50/60 Hz (AC-3e)	
	10 KW at 500 V AC 50/60 Hz (AC-3e)	
	10 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	1 Hp at 115 V AC 50/60 Hz for 1 phase motors	
	3 Hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	5 Hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	5 Hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	10 Hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	15 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M5	
Protective cover	With	
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit	
	32 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
	300 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947	

[lcw] rated short-time withstand current	145 A 104 °F (40 °C) - 10 s for power circuit 240 A 104 °F (40 °C) - 1 s for power circuit 40 A 104 °F (40 °C) - 10 min for power circuit 84 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 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit	
Power dissipation per pole	2.5 W AC-1 0.8 W AC-3 0.8 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	1.65 Mcycles 18 A AC-3 <= 440 V 1 Mcycles 32 A AC-1 <= 440 V 1.65 Mcycles 18 A AC-3e <= 440 V	
Control circuit type	DC low consumption	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC	
Inrush power in W	2.4 W 68 °F (20 °C))	
Hold-in power consumption in W	2.4 W 68 °F (20 °C)	
Operating time	77 ±15 % ms closing 25 ±20 % ms opening	
Time constant	40 ms	
Maximum operating rate	3600 cyc/h 140 °F (60 °C)	
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm)	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 8 mm M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5	
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	<ul><li>1.5 Ms on de-energisation between NC and NO contact</li><li>1.5 ms on energisation between NC and NO contact</li></ul>	
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	CSA[RETURN]LROS (Lloyds register of shipping)
	[RETURN]DNV[RETURN]UL[RETURN]GL[RETURN]BV[RETURN]RINA[RETURN]CCC[RETU
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	3.03 in (77 mm)
Width	1.77 in (45 mm)
Depth	3.74 in (95 mm)
Net Weight	1.08 lb(US) (0.49 kg)

### Ordering and shipping details

Category	22354-CTR,TESYS D,OPEN,9-38A AC
Discount Schedule	112
GTIN	3389110809015
Returnability	No
Country of origin	FR

### **Packing Units**

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.06 in (10.3 cm)	
Package 1 Width	3.19 in (8.1 cm)	
Package 1 Length	2.13 in (5.4 cm)	
Package 1 Weight	17.67 oz (501.0 g)	

## 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
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
PVC free	Yes

Warranty 18 months