

# LC1D186BLS207

IEC contactor, TeSys D, nonreversing, 18A, 10HP at 480VAC, 3 phase, 3 pole, 3 NO, low consumption 24VDC coil, open style



## Main

Range	TeSys TeSys Deca
Range of Product	TeSys Deca
Product or Component Type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	18 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit 32 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit 18 A 140 °F (60 °C) <= 440 V AC AC-3e power circuit

## Complementary

Motor power kW	4 KW 220/230 V AC 50 Hz AC-3) 7.5 KW 380/400 V AC 50 Hz AC-3) 9 KW 415 V AC 50 Hz AC-3) 9 KW 440 V AC 50 Hz AC-3) 10 KW 500 V AC 50 Hz AC-3) 10 KW 660/690 V AC 50 Hz AC-3) 4 KW 220/230 V AC 50 Hz AC-3e) 7.5 KW 380/400 V AC 50 Hz AC-3e) 9 KW 415 V AC 50 Hz AC-3e) 9 KW 440 V AC 50 Hz AC-3e) 10 KW 500 V AC 50 Hz AC-3e) 10 kW 660/690 V AC 50 Hz AC-3e)
Pole contact composition	3 NO
Contact compatibility	M5
Protective cover	With
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 32 A 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 300 A 440 V power circuit IEC 60947
Rated breaking capacity	300 A 440 V power circuit IEC 60947
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 50 A gG <= 690 V type 1 power circuit 35 A gG <= 690 V type 2 power circuit
Time constant	37 ms

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Control circuit type	DC low consumption
Coil technology	With integral suppression device
Control circuit voltage limits	0.1...0.25 U <sub>c</sub> -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 U <sub>c</sub> -40...158 °F (-40...70 °C) operational DC
Average impedance	2.5 mOhm - lth 32 A 50 Hz power circuit
Power dissipation per pole	2.5 W AC-1 0.8 W AC-3 0.8 W AC-3e
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
Operating time	55...75 ms closing 16...32 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Inrush power in W	4 W 68 °F (20 °C)
Hold-in power consumption in W	4 W 68 °F (20 °C)
Insulation resistance	> 10 MOhm signalling circuit
Connections - terminals	Control circuit lugs-ring terminals 0.31 in (8 mm) Power circuit lugs-ring terminals 0.37 in (9.5 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 Philips No 2 M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 M3.5 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 M3.5
Mounting Support	Plate Rail
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
Mechanical durability	30 Mcycles
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
Operating altitude	0...9842.52 ft (0...3000 m)
Compatibility code	LC1D
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 EN 45545: R22 HL3 EN 45545: R26 HL3 DIN 5510-2
Product Certifications	IEC CCC EAC UA TR UKCA

## Environment

Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Height	3.03 in (77 mm)
Width	1.77 in (45 mm)
Depth	3.74 in (95 mm)
Net Weight	0.73 lb(US) (0.33 kg)
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)

## Ordering and shipping details

Category	22354-CTR, TESYS D, OPEN, 9-38A AC
Discount Schedule	I12
GTIN	3389118234383
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.20 in (5.6 cm)
Package 1 Width	3.78 in (9.6 cm)
Package 1 Length	4.72 in (12.0 cm)
Package 1 Weight	18.48 oz (524.0 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	18.33 lb(US) (8.315 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	31.50 in (80.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	299.87 lb(US) (136.02 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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