

LC1D186SLS207

IEC contactor, TeSys D, nonreversing, 18A, 10HP at 480VAC, 3 phase, 3 pole, 3 NO, low consumption 72VDC 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
Overvoltage 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

Control circuit type	DC low consumption
Coil technology	With integral suppression device
Control circuit voltage limits	0.1...0.25 U _c -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 U _c -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 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
Mounting Support	Rail Plate
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	3389118234437
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.28 in (5.8 cm)
Package 1 Width	3.62 in (9.2 cm)
Package 1 Length	4.65 in (11.8 cm)
Package 1 Weight	18.84 oz (534.0 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	18.66 lb(US) (8.465 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
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes