Product datasheet

Specifications

Green Premium™

Contactor, TeSys Deca S207,4P(2NO+2NC),AC-1 20A , <=440V, 24V DC coil, lugs-ring terminal

LC1D0986BDS207

Discontinued

Discontinued on: 9 Feb 2023

Main

Range	TeSys TeSys Deca
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load
Utilisation Category	AC-1 AC-3 AC-3e AC-4
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25...400 Hz
[Ie] Rated Operational Current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 20 A (at <60 °C) at <= 440 V AC AC-1 for power circuit

Complementary

Pole Contact Composition	2 NO + 2 NC
Protective Cover	With
Auxiliary Contacts Type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
Auxiliary Contact Composition	1 NO + 1 NC
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 20 A (at 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
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit
Time Constant	28 ms

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Control Circuit Type	DC standard
Coil Technology	With integral suppression device
Control Circuit Voltage Limits	0.1...0.25 Uc (-40…70 °C):drop-out DC 0.7...1.25 Uc (-40…70 °C):operational DC with spacing >8 mm 0.7...1.25 Uc (-40…50 °C):operational DC 0.7...1.1 Uc (50…70 °C):operational DC
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power Dissipation Per Pole	1.56 W AC-1 0.2 W AC-3
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V 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
Operating Time	63 ±15 % ms closing 20 ±20 % ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
Inrush Power In W	5.4 W (at 20 °C)
Hold-In Power Consumption In W	5.4 W at 20 °C
Insulation Resistance	> 10 MOhm for signalling circuit
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 8 mm
Tightening Torque	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5 Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5
Mounting Support	Rail Plate
Electrical Durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V
Mechanical Durability	30 Mcycles
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Operating Altitude	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 CB

Environment

Climatic Withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D
Ambient Air Temperature For Storage	-60…80 °C

Fire Resistance	850 °C conforming to IEC 60695-2-1
Height	85 mm
Width	45 mm
Depth	99 mm
Net Weight	0.365 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)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.1 cm
Package 1 Width	9.3 cm
Package 1 Length	13.2 cm
Package 1 Weight	545.0 g

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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
Circularity Profile	No need of specific recycling operations