

Product data sheet

Specifications



Contactor, TeSys Deca S207,
3P(3NO), AC-3/AC-3e, ≤440V
80A, 24V DC wide voltage range
coil, lugs-ring terminals

LC1D806BWS207

Main

Range	TeSys TeSys Deca
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit: ≤ 1000 V AC 25...400 Hz
[Ie] rated operational current	125 A (at ≤60 °C) at ≤ 1000 V AC AC-1 for power circuit 80 A (at ≤60 °C) at ≤ 440 V AC AC-3 for power circuit 80 A (at ≤60 °C) at ≤ 440 V AC AC-3e for power circuit

Complementary

Motor power kW	22 kW at 220/230 V AC 50 Hz (AC-3) 37 kW at 380/400 V AC 50 Hz (AC-3) 45 kW at 415 V AC 50 Hz (AC-3) 45 kW at 440 V AC 50 Hz (AC-3) 55 kW at 500 V AC 50 Hz (AC-3) 45 kW at 660/690 V AC 50 Hz (AC-3) 45 kW at 1000 V AC 50 Hz (AC-3)
Pole contact composition	3 NO
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: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	125 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit
Irms rated making capacity	1100 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	1100 A at 440 V for power circuit conforming to IEC 60947

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

Associated fuse rating	200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Time constant	75 ms
Control circuit type	DC wide range
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.1...0.3 Uc (-40...70 °C):drop-out DC 0.7...1.25 Uc (-40...50 °C):operational DC 1...1.25 Uc (50...70 °C):operational DC
Average impedance	0.8 mOhm - lth 125 A 50 Hz for power circuit
Power dissipation per pole	12.5 W AC-1 5.1 W AC-3 6.5 W AC-3e
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	95...130 ms closing 20...35 ms opening
Maximum operating rate	3600 cyc/h 60 °C
Inrush power in W	22 W (at 20 °C)
Hold-in power consumption in W	22 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: 17 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm
Tightening torque	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6
Mounting support	Plate Rail
Electrical durability	1.5 Mcycles 80 A AC-3 at Ue <= 440 V 0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1 Mcycles 66 A AC-3e at Ue <= 440 V
Mechanical durability	10 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 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ

Product certifications	CCC UL CB Scheme CSA CE UKCA Marine EAC
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Environment

Climatic withstand	conforming to IACS E10
Ambient air temperature for storage	-60...80 °C
Fire resistance	850 °C conforming to IEC 60695-2-1
Height	127 mm
Width	85 mm
Depth	186 mm
Product weight	2.59 kg
Mechanical robustness	Vibrations contactor open (2 Gn, 5...300 Hz) Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (8 Gn for 11 ms)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.6 cm
Package 1 Width	13.4 cm
Package 1 Length	9.7 cm
Package 1 Weight	2.385 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	181 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	151 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	7 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	Ec55be43-4a3d-41ef-bba5-099a44e1b62b
EU RoHS Directive	Compliant
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	73
End of life manual availability	No need of specific recycling operations
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Assembly's dimensions

