

Product datasheet

Specifications



Contactor, TeSys Deca S207,
4P(2NO+2NC), AC-1, <=440V,
125A, 110V DC wide range coil,
ring-lug terminals

LC1D800086FWS207

! Discontinued

! Discontinued on: 4 Aug 2021

EAN Code: 3606489607784

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
Poles description	4P
[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

Complementary

Pole contact composition	2 NO + 2 NC
Protective cover	With
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	125 A (at 60 °C) for power circuit
Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
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
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 - Ith 125 A 50 Hz for power circuit
Power dissipation per pole	12.5 W AC-1
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
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	0.8 Mcycles 125 A AC-1 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

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	96 mm
Depth	196 mm
Net weight	2.91 kg
Mechanical robustness	Vibrations contactor open (2 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.8 cm

Package 1 Width	13.1 cm
Package 1 Length	10.8 cm
Package 1 Weight	1.8 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	232 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]	202 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

Offer Marketing Illustration

Product benefits / Features



TeSys Deca Contactors
Range Accessories

This image displays a collection of accessories for TeSys Deca contactors. The items are arranged in a grid-like fashion, each with a small photograph and a text label below it. The accessories include:

- Contactor Coil**: A white, U-shaped component used for mounting the contactor coil.
- Auxiliary contact block**: A black component with multiple terminals for auxiliary contacts.
- Time delay auxiliary contact block**: A black component with a circular dial for setting a time delay.
- Mechanical interlock**: A black component with a white lever and a metal pin, used to prevent simultaneous operation of two contactors.
- Power connections**: A black component with multiple terminals for power connections.
- Assembling kits**: A black component with multiple terminals and a metal pin, used for assembling the contactor.
- Comb busbar**: A black component with multiple terminals for busbar connections.

Offer Marketing Illustration

Product benefits / Features

TeSys Deca Contactors



Reliable

Multi-standard solutions, high reliability, long mechanical and electrical durability for different sizes, and the most complete accessories.



Energy efficiency

These electronic-coil contactors require up to 80 % less energy than electro-mechanical contactors.



Universal

Multi standards certified (IEC, UL, CSA, CCC, EAC, Marine), Green Premium compliant (RoHS/REACH).



Offer Marketing Illustration

Product benefits / Features

TeSys Deca Contactors

Technical Benefits



- Deca green delivers a consistent low consumption range of contactors from 9 A to 80 A.
- Covers control voltage from 24 to 250 V, with same coils for AC and DC.
- Designed to meet the requirements of industrial and HVAC applications
- With IEC60335-1 compliance, improved fire resistance, and dust-proof auxiliaries
- Suitable for safety applications thanks to mechanically linked contacts and mirror contacts
- Outstanding breaking/making capacity up to 20 In with PLC direct connection

Technical Illustration

Assembly's dimensions

