

# Product datasheet

Specifications



## TeSys D contactor S207 - 3P (3NO) AC-3 38A <=440V - coil 24V DC

LC1D386BDS207

### 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-1 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25...400 Hz
[Ie] rated operational current	50 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 38 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 38 A (at <60 °C) at <= 440 V AC AC-3e for power circuit

### Complementary

Motor power kW	9 kW at 220/230 V AC 50 Hz (AC-3) 18.5 kW at 380/400 V AC 50 Hz (AC-3) 18.5 kW at 415 V AC 50 Hz (AC-3) 18.5 kW at 440 V AC 50 Hz (AC-3) 18.5 kW at 500 V AC 50 Hz (AC-3) 18.5 kW at 660/690 V AC 50 Hz (AC-3) 9 kW at 220/230 V AC 50 Hz (AC-3e) 18.5 kW at 380/400 V AC 50 Hz (AC-3e) 18.5 kW at 415 V AC 50 Hz (AC-3e) 18.5 kW at 440 V AC 50 Hz (AC-3e) 18.5 kW at 500 V AC 50 Hz (AC-3e) 18.5 kW at 660/690 V AC 50 Hz (AC-3e)
Pole contact composition	3 NO
Contact compatibility	M4
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

<b>[Ith] conventional free air thermal current</b>	10 A (at 60 °C) for signalling circuit 50 A (at 60 °C) for power circuit
<b>Irms rated making capacity</b>	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947
<b>Rated breaking capacity</b>	550 A at 440 V for power circuit conforming to IEC 60947
<b>Associated fuse rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit
<b>Time constant</b>	28 ms
<b>Control circuit type</b>	DC standard
<b>Coil technology</b>	With integral suppression device
<b>Control circuit voltage limits</b>	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
<b>Average impedance</b>	2 mOhm - Ith 50 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	5 W AC-1 3 W AC-3 3 W AC-3e
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>Minimum switching voltage</b>	17 V for signalling circuit
<b>Non-overlap time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Operating time</b>	55...75 ms closing 16...32 ms opening
<b>Maximum operating rate</b>	3600 cyc/h 60 °C
<b>Inrush power in W</b>	5.4 W (at 20 °C)
<b>Hold-in power consumption in W</b>	5.4 W at 20 °C
<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>Connections - terminals</b>	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 12 mm
<b>Tightening torque</b>	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: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M4
<b>Mounting support</b>	Plate Rail
<b>Electrical durability</b>	1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.4 Mcycles 38 A AC-3 at Ue <= 440 V 1.4 Mcycles 38 A AC-3e at Ue <= 440 V
<b>Mechanical durability</b>	30 Mcycles
<b>Safety reliability level</b>	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
<b>Operating altitude</b>	0...3000 m
<b>Compatibility code</b>	LC1D
<b>Standards</b>	EN/IEC 60947-4-1 EN/IEC 60947-5-1 EN 45545: R22 HL3 EN 45545: R26 HL3 DIN 5510-2
<b>Product certifications</b>	IEC CCC EAC UA TR UKCA

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	101 mm
Net weight	0.38 kg
Mechanical robustness	Vibrations contactor open (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor closed (15 Gn for 11 ms) 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	10.9 cm
Package 1 Width	9.0 cm
Package 1 Length	5.4 cm
Package 1 Weight	544.0 g

Offer Sustainability

Sustainable offer status	Green Premium product
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> Product out of China RoHS scope. Substance declaration for your information
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

Recommended replacement(s)