

# Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 38A, 220V DC coil, lugs-ring terminals

LC1D386MD

! Discontinued

## 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-4 AC-1 AC-3 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] 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	
[Uc] control circuit voltage	220 V DC	

## Complementary

Motor power kW	18.5 kW at 500 V AC 50/60 Hz (AC-3)
	18.5 kW at 660690 V AC 50/60 Hz (AC-3)
	7.5 kW at 400 V AC 50/60 Hz (AC-4)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3)
	9 kW at 220230 V AC 50/60 Hz (AC-3)
	18.5 kW at 415440 V AC 50/60 Hz (AC-3)
	18.5 kW at 500 V AC 50/60 Hz (AC-3e)
	18.5 kW at 660690 V AC 50/60 Hz (AC-3e)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	9 kW at 220230 V AC 50/60 Hz (AC-3e)
	18.5 kW at 415440 V AC 50/60 Hz (AC-3e)
Motor power hp	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	10 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	5 hp at 240 V AC 50/60 Hz for 1 phase motors
	20 hp at 480 V AC 50/60 Hz for 3 phases motors
	25 hp at 600 V AC 50/60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal	10 A (at 60 °C) for signalling circuit
current	50 A (at 60 °C) for power circuit

Irms rated making capacity	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	
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	60 A 40 °C - 10 min for power circuit	
Current	430 A 40 °C - 1 s for power circuit 150 A 40 °C - 1 min for power circuit	
	310 A 40 °C - 10 s for power circuit	
	100 A - 1 s for signalling circuit	
	120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit	
Associated fuse rating	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	
Average impedance	2 mOhm - Ith 50 A 50 Hz for power circuit	
Power dissipation per pole	5 W AC-1	
	3 W AC-3 3 W AC-3e	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified	
	Power circuit: 600 V UL certified	
	Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified	
	Signalling circuit: 600 V UL certified	
	Power circuit: 690 V conforming to IEC 60947-4-1	
Overvoltage category	III	
pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
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	
Mechanical durability	30 Mcycles	
Electrical durability	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	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC	
	0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
Inrush power in W	5.4 W (at 20 °C)	
Hold-in power consumption in W	5.4 W at 20 °C	
Operating time	20 ±20 % ms opening	
	63 ±15 % ms closing	
Time constant	28 ms	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 10 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: 2.5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M4	
	Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
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	

Signalling circuit frequency	25400 Hz	
Minimum switching voltage	17 V for signalling circuit	
Minimum switching current	5 mA for signalling circuit	
Insulation resistance	> 10 MOhm 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	
Mounting support	Plate Rail	

## **Environment**

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 60947-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ CSA C22.2 No 60947-4-1	
Product certifications	UL CCC CSA Marine UKCA EAC CB Scheme	
IP degree of protection	IP20 front face conforming to IEC 60529	
Protective treatment	TH conforming to IEC 60068-2-30	
Climatic withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible ambient air temperature around the device	-4060 °C 6070 °C with derating	
Operating altitude	03000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
Mechanical robustness	Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (8 Gn for 11 ms)	
Height	85 mm	
Width	45 mm	
Depth	101 mm	
Net weight	0.54 kg	

# **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

## **Contractual warranty**

Warranty

18 months

28 Apr 2025



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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	50
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4-a369-50d0dea6e592
REACh Regulation	REACh Declaration
PVC free	Yes

### **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No