Specifications



() Discontinued

TeSys Deca reversing contactor -3P(3 NO) - AC-3 - <= 440 V 38 A -48 V DC coil

#### LC2D38ED

() Discontinued on: 10-Oct-2020

(!) End-of-service on: 04-Nov-2020

### Main

Range	TeSys	
product name	TeSys Deca	
Product or component type	Reversing contactor	
Device short name	LC2D	
Contactor application	Motor control	
	Resistive load	
Utilisation category	AC-3	
	AC-1	
Device presentation	Preassembled with reversing power busbar	
Poles description	3P	
power pole contact composition	3 NO	
[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	
Motor power kW	9 kW at 220230 V AC 50 Hz	
	18.5 kW at 380400 V AC 50 Hz	
	18.5 kW at 415440 V AC 50 Hz	
	18.5 kW at 500 V AC 50 Hz	
	18.5 kW at 660690 V AC 50 Hz	
motor power HP (UL / CSA)	10 hp at 230/240 V AC 60 Hz for 3 phases motors	
	5 hp at 240 V AC 60 Hz for 1 phase motors	
	10 hp at 200/208 V AC 60 Hz for 3 phases motors	
	20 hp at 480 V AC 60 Hz for 3 phases motors	
	25 hp at 600 V AC 60 Hz for 3 phases motors	
Control circuit type	DC standard	
[Uc] control circuit voltage	48 V DC	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
Overvoltage category	III	
[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
A	
Average impedance	2 mOhm - Ith 50 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 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
Electrical durability	1.4 Mcycles 50 A AC-1 at Ue <= 440 V
	1.4 Mcycles 38 A AC-3 at Ue <= 440 V
Power dissipation per pole	5 W AC-1
	3 W AC-3
Front cover	With
Interlocking type	Mechanical
Mounting support	Plate
	Rail
Standards	CSA C22.2 No 14
	EN 60947-4-1 EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
Product certifications	LROS (Lloyds register of shipping)
	CSA UL
	GL
	DNV
	RINA
	CCC
	BV
	GOST
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 2 cable(s) 14 mm <sup>2</sup> flexible without cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> flexible with cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm <sup>2</sup> solid
	Control circuit: screw clamp terminals 1 cable(s) 14 mm solid
	Power circuit: screw clamp terminals 1 cable(s) 2.510 mm <sup>2</sup> flexible without cable
	end
	Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible without cable
	end Power circuit: screw clamp terminals 1 cable(s) 1 10 mm²flevible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 110 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm <sup>2</sup> flexible with cable end
	Power circuit: screw clamp terminals 2 cable(s) 1.510 mm²solid
	Power circuit: screw clamp terminals 2 cable(s) 2.510 mm <sup>2</sup> solid
ightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat $\varnothing$ 6 mm
	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2
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Operating time	53.5572.45 ms closing 1624 ms opening
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
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## Complementary

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	
Time constant	28 ms	
Inrush power in W	5.4 W (at 20 °C)	
Hold-in power consumption in W	5.4 W at 20 °C	
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 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	
Insulation resistance	> 10 MOhm for signalling circuit	

## Environment

IP degree of protection	IP20 front face conforming to IEC 60529	
Climatic withstand	conforming to IACS E10	
	conforming to IEC 60947-1 Annex Q category D	
Protective treatment	TH conforming to IEC 60068-2-30	
pollution degree	3	
Ambient air temperature for operation	-4060 °C	
	6070 °C with derating	
Ambient air temperature for storage	-6080 °C	
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	90 mm	
Depth	101 mm	
Net weight	1.137 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	11.4 cm
Package 1 Length	11.8 cm

Package 1 Weight

#### **Contractual warranty**

Warranty

18 months

06-May-2025

# C 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 $\geq$	
$\mathcal{T}$ Environmental footprint	
Environmental Disclosure	Product Environmental Profile
Use Better	
EU RoHS Directive	Compliant
PVC free	Yes
Use Again	
$^{\circ}$ Repack and remanufacture	