

TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 25 A - 110 V DC coil

Local distributor code:

402770051 LC1D253FD

! Discontinued on: 9 Feb 2023

(!) Discontinued

EAN Code: 3389110807349

Main

Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
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	25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	110 V DC

Complementary

Motor power kW	5.5 kW at 220230 V AC 50/60 Hz (AC-3)	
	11 kW at 380400 V AC 50/60 Hz (AC-3)	
	11 kW at 415440 V AC 50/60 Hz (AC-3)	
	15 kW at 500 V AC 50/60 Hz (AC-3)	
	15 kW at 660690 V AC 50/60 Hz (AC-3)	
	5.5 kW at 400 V AC 50/60 Hz (AC-4)	
	5.5 kW at 220230 V AC 50/60 Hz (AC-3e)	
	11 kW at 380400 V AC 50/60 Hz (AC-3e)	
	11 kW at 415440 V AC 50/60 Hz (AC-3e)	
	15 kW at 500 V AC 50/60 Hz (AC-3e)	
	15 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor power hp	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	2 hp at 115 V AC 50/60 Hz for 1 phase motors	
	7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	15 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	20 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	7.5 hp at 200/208 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	25 A (at 60 °C) for power circuit	
current	10 A (at 60 °C) for signalling circuit	

Irms rated making capacity	140 A AC for signalling sirguit conforming to IEC 60047 F 1	
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	
	450 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand	240 A 40 °C - 10 s for power circuit	
current	380 A 40 °C - 1 s for power circuit	
	50 A 40 °C - 10 min for power circuit	
	120 A 40 °C - 1 min 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 40 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2 mOhm - Ith 25 A 50 Hz for power circuit	
Power dissipation per pole	3.2 W AC-1	
The second secon	1.25 W AC-3	
	1.25 W AC-3e	
[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 U.S.A certified	
Overvoltage category	Ш	
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	1.65 Mcycles 25 A AC-3 at Ue <= 440 V	
	1.4 Mcycles 40 A AC-1 at Ue <= 440 V 1.65 Mcycles 25 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	63 ±15 % ms closing	
Operating time	20 ±20 % ms opening	
Time constant	28 ms	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end	
	Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end	
Tightening torque	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	
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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	Rail Plate	

Environment

Standards	CSA C22.2 No 14	
	EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1	
	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	-4060 °C	
temperature around the device	6070 °C with derating	
	<u> </u>	
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	99 mm	
Width	45 mm	
Depth	101 mm	
Net weight	0.53 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.900 cm
Package 1 Width	11.200 cm
Package 1 Length	12.400 cm
Package 1 Weight	582.000 g

Logistical informations

Country of origin

FR

Contractual warranty

Warranty

18 months



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 >

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	42
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

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Product datasheet

LC1D253FD

Image of product / Alternate images

Alternative







Technical Illustration

Assembly's dimensions

