



IEC contactor, TeSys Deca, nonreversing, 25A, 15HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VDC coil, open style

LC1D25FD

Product availability: Stock - Normally stocked in distribution facility

### Main

Range of Product	TeSys Deca	
Product or Component Type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-4 AC-1 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 <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	110 V DC	

### Complementary

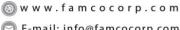
Motor power kW	5.5 kW at 220230 V AC 50/60 Hz (AC-3)	
	11 kW at 380400 V AC 50/60 Hz (AC-3)	
	11 kW at 415440 V AC 50/60 Hz (AC-3)	
	15 kW at 500 V AC 50/60 Hz (AC-3)	
	15 kW at 660690 V AC 50/60 Hz (AC-3)	
	5.5 kW at 400 V AC 50/60 Hz (AC-4)	
	5.5 kW at 220230 V AC 50/60 Hz (AC-3e)	
	11 kW at 380400 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)	
Maximum Horse Power Rating	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 phase motors	
	15 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	20 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
	7.5 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit	
current	40 A (at 140 °F (60 °C)) for power circuit	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

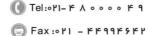
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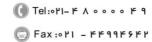






Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	
	450 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand	240 A 104 °F (40 °C) - 10 s for power circuit	
current	380 A 104 °F (40 °C) - 1 s for power circuit	
	50 A 104 °F (40 °C) - 10 min for power circuit	
	120 A 104 °F (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 40 A 50 Hz for power circuit	
Power dissipation per pole	3.2 W AC-1	
	1.25 W AC-3	
	1.25 W AC-3e	
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1	
	Power circuit 600 V CSA	
	Power circuit 600 V UL	
	Signalling circuit 690 V IEC 60947-1	
	Signalling circuit 600 V CSA	
	Signalling circuit 600 V UL	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1	
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	30 Mcycles	
Electrical durability	1.65 Mcycles 25 A AC-3 <= 440 V	
	1.4 Mcycles 40 A AC-1 <= 440 V	
	1.65 Mcycles 25 A AC-3e <= 440 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.25 Uc (-40158 °F (-4070 °C)):drop-out DC	
-	0.71.25 Uc (-40140 °F (-4060 °C)):operational DC	
	11.25 Uc (140158 °F (6070 °C)):operational DC	
Inrush power in W	5.4 W 68 °F (20 °C))	
Hold-in power consumption in W	5.4 W 68 °F (20 °C)	
Operating time	63 ±15 % ms closing	
- <sub>I</sub> <del></del>	20 ±20 % ms opening	
 Time constant	28 ms	
Maximum operating rate	3600 cyc/h at 60 °C	







Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: solid without cable end  Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end	
	Power circuit: screw clamp terminals 1 0.0040.02 in² (2.510 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable	
	stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 0.0020.02 in² (110 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable	
	stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.02 in² (1.510 mm²) - cable	
	stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness: solid without cable end	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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 60947-4-1 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	
	CCSA Marine UKCA EAC CB Scheme	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat	

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Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Operating altitude	09842.52 ft (03000 m)	
Fire resistance	1562 °F (850 °C) 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	3.3 in (85 mm)	
Width	1.8 in (45 mm)	
Depth	4.0 in (101 mm)	
Net Weight	1.17 lb(US) (0.53 kg)	

# Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
GTIN	3389110356519
Returnability	Yes
Country of origin	FR

# **Packing Units**

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.41 in (11.200 cm)
Package 1 Width	3.62 in (9.200 cm)
Package 1 Length	2.01 in (5.100 cm)
Package weight(Lbs)	20.353 oz (577.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	19.745 lb(US) (8.956 kg)

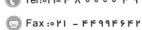
# **Contractual warranty**

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 >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	42
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

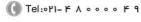
<b>⊗</b> Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4-a369-50d0dea6e592
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

#### **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information
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.

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# **Product data sheet**

LC1D25FD



Image of product / Alternate images

**Alternative** 

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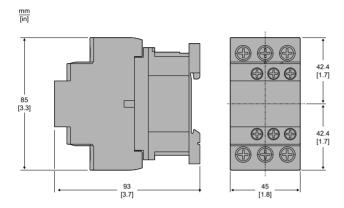
# **Product data sheet**

### LC1D25FD



**Technical Illustration** 

### Assembly's dimensions



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