

# Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 65A, 110V DC standard coil, lugs-ring terminals

LC1D65A6FD

### Main

Range	TeSys TeSys Deca
Range of product	TaCus Dana
Nange 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	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
	65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	110 V DC

## Complementary

Motor power kW	11 kW at 400 V AC 50/60 Hz (AC-4)	
	18.5 kW at 220230 V AC 50/60 Hz (AC-3)	
	30 kW at 380400 V AC 50/60 Hz (AC-3)	
	37 kW at 500 V AC 50/60 Hz (AC-3)	
	37 kW at 660690 V AC 50/60 Hz (AC-3)	
	18.5 kW at 220230 V AC 50/60 Hz (AC-3e)	
	30 kW at 380400 V AC 50/60 Hz (AC-3e)	
	37 kW at 500 V AC 50/60 Hz (AC-3e)	
	37 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor power hp	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	5 hp at 115 V AC 50/60 Hz for 1 phase motors	
	10 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	20 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	50 hp at 575/600 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	80 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	
	1000 A at 440 V for power circuit conforming to IEC 60947	

Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand	640 A 40 °C - 10 s for power circuit	
current	900 A 40 °C - 1 s for power circuit	
	110 A 40 °C - 10 min for power circuit	
	260 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	
	125 A gG at <= 690 V coordination type 1 for power circuit	
	125 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
Power dissipation per pole	9.6 W AC-1	
	6.3 W AC-3 6.3 W AC-3e	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified	
[OI] Tated modification voltage	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	10 Mcycles	
Electrical durability	0.5 Mcycles 80 A AC-1 at Ue <= 440 V	
	1.45 Mcycles 65 A AC-3 at Ue <= 440 V	
	1.45 Mcycles 65 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	0.10.3 Uc (-4070 °C):drop-out DC	
	0.751.25 Uc (-4060 °C):operational DC	
	11.25 Uc (6070 °C):operational DC	
Inrush power in W	19 W (at 20 °C)	
Hold-in power consumption in W	7.4 W at 20 °C	
Operating time	50 ±15 % ms closing	
	1624 ms opening	
Time constant	34 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: 16.5 mm	
Tightening torque	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø	
	6 mm M3.5	
	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver	
	Philips No 2 M3.5  Power circuit: 6 N.m - on EverLink BTR screw connectors hexagonal screw head 10	
	mm M6	
	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver	
	pozidriv No 2	
	Power circuit: 2.5 N.m - on EverLink BTR screw connectors - with screwdriver pozidriv No 2	
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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	Rail Plate	

# **Environment**

Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2	
Product certifications	CCC UL CB Scheme CSA CE UKCA Marine EAC	
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 (10 Gn for 11 ms)	
Height	122 mm	
Width	55 mm	
Depth	120 mm	
Net weight	0.935 kg	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.0 cm
Package 1 Width	14.0 cm
Package 1 Length	15.0 cm
Package 1 Weight	850.0 g

# **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	
Total lifecycle Carbon footprint	89
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
PVC free	Yes

#### **Use Again**

○ Repack and remanufacture	
End of life manual availability	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

# **Product datasheet**

# LC1D65A6FD

**Technical Illustration** 

## Assembly's dimensions

