

IEC contactor, TeSys Deca, nonreversing, 65A, 40HP at 480VAC, 3 phase, 3 pole, 3 NO, 220VDC coil, open style

LC1D65A6MD

Product availability: Non-Stock - Not normally stocked in distribution facility

### 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	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	220 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)
Maximum Horse Power Rating	40 hp at 460/480 V AC 50/60 Hz for 3 phase 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 phase motors
	20 hp at 230/240 V AC 50/60 Hz for 3 phase motors
	50 hp at 575/600 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	80 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.

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		
current	640 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit	
	110 A 104 °F (40 °C) - 10 min for power circuit	
	260 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	
	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	
	Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1	
	Signalling circuit 600 V CSA	
	Signalling circuit 600 V UL	
	Power circuit 690 V IEC 60947-4-1	
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	10 Mcycles	
Electrical durability	0.5 Mcycles 80 A AC-1 <= 440 V	
	1.45 Mcycles 65 A AC-3 <= 440 V	
	1.45 Mcycles 65 A AC-3e <= 440 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-40158 °F (-4070 °C)):drop-out DC	
· ·	0.751.25 Uc (-40140 °F (-4060 °C)):operational DC	
	11.25 Uc (140158 °F (6070 °C)):operational DC	
Inrush power in W	19 W 68 °F (20 °C))	
Hold-in power consumption in W		
Operating time	50 ±15 % ms closing	
epotating time	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: 0.3 in (8 mm)	
	Power circuit: lugs-ring terminals - external diameter: 0.3 in (8 min)	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors flat Ø 6 mm	
	M3.5	
	Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors Philips No 2	
	M3.5	
	Power circuit 53.1 lbf.in (6 N.m) EverLink BTR screw connectors hexagonal 0.4 in (10 mm) M6	
	Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors pozidriv No 2	
	Power circuit 22.1 lbf.in (2.5 N.m) EverLink BTR screw connectors 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	Rail Plate	

## **Environment**

Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 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 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	
Permissible ambient air temperature around the device	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °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 10 Gn for 11 ms)	
Height	4.8 in (122 mm)	
Width	2.2 in (55 mm)	
Depth	4.7 in (120 mm)	
Net Weight	2.061 lb(US) (0.935 kg)	

# Ordering and shipping details

Category	US10I1222358
Discount Schedule	0112
GTIN	3389118329102
Returnability	No

Country of origin FR

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.36 in (6.0 cm)
Package 1 Width	5.51 in (14.0 cm)
Package 1 Length	5.91 in (15.0 cm)
Package 1 Weight	30.0 oz (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	
Carbon footprint (kg CO2 eq, Total Life cycle)	82
Environmental Disclosure	Product Environmental Profile

### **Use Better**

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
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	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

# Product data sheet

## LC1D65A6MD

**Technical Illustration** 

### Assembly's dimensions

