

# Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 65A, 24V DC standard coil, spring terminals

LC1D65A3BD

### Main

TeSys TeSys Deca
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TeSys Deca
Contactor
LC1D
Motor control
Resistive load
AC-4
AC-1
AC-3
AC-3e
3P
Power circuit: <= 690 V AC 25400 Hz
Power circuit: <= 300 V DC
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
24 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 60047		

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Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	640 A 40 °C - 10 s for power circuit 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 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 50 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: 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: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid without cable end

Tightening torque	Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm² hexagonal screw head 4 mm  Power circuit: 5 N.m - on screw clamp terminals - cable 2.525 mm² hexagonal screw head 4 mm  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	
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 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	

# **Packing Units**

Net weight

0.935 kg

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	13.7 cm
Package 1 Length	15.2 cm
Package 1 Weight	992.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.299 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	
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

## LC1D65A3BD

**Technical Illustration** 

## Assembly's dimensions

