بابا ادیسون تامین کننده تجهیزات بـرق صنعتی / ۲۵۰٬۰۰۵۲–۲۱۰ داخلی ۳۵۰ / ۸ ۲۷ ۸ ۹۰۱٬۰۰۰ www.BaBaedison.com کل

Product datasheet <u>. 8 წ</u>

Specifications





TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 80 A - 110 V DC standard coil

LC1D80FD

Main

main	
Range	TeSys
Range Of Produc	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-3 AC-3e AC-4 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC
[le] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC-3e for power circuit
[Uc] Control Circuit Voltage	110 V DC

[Uc] Control Circuit Voltage

Complementary

oompicinentary		
Motor Power Kw	22 kW at 220230 V AC 50/60 Hz (AC-3) 37 kW at 380400 V AC 50/60 Hz (AC-3) 45 kW at 415440 V AC 50/60 Hz (AC-3) 55 kW at 500 V AC 50/60 Hz (AC-3) 45 kW at 660690 V AC 50/60 Hz (AC-3) 15 kW at 400 V AC 50/60 Hz (AC-4) 22 kW at 220230 V AC 50/60 Hz (AC-3e) 37 kW at 380400 V AC 50/60 Hz (AC-3e) 45 kW at 415440 V AC 50/60 Hz (AC-3e) 45 kW at 500 V AC 50/60 Hz (AC-3e) 45 kW at 500 V AC 50/60 Hz (AC-3e) 45 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	7.5 hp at 120 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 30 hp at 200/208 V AC 50/60 Hz for 3 phases motors 30 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Contact Compatibility	м9	
Protective Cover	With	
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 125 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 1100 A at 440 V for power circuit conforming to IEC 60947	
	1100 A at 440 V for power circuit comorning to 120 00347	
Rated Breaking Capacity	1100 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	990 A 40 °C - 1 s for power circuit	
	135 A 40 °C - 10 min for power circuit	
	320 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		
Associated Fuse Nating	10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit	
	160 A gG at <= 690 V coordination type 1 for power circuit	
Average Impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
Power Dissipation Per Pole	5.1 W AC-3	
	12.5 W AC-1	
	5.1 W AC-3e	
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified	
	Power circuit: 600 V UL certified	
	Power circuit: 1000 V conforming to IEC 60947-4-1	
	Signalling circuit: 690 V conforming to IEC 60947-1	
	Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified	
Overvoltage Category		
Pollution Degree	3	
[Uimp] Rated Impulse Withstand Voltage	8 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	4 Mcycles	
Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V	
	1.5 Mcycles 80 A AC-3 at Ue <= 440 V	
	1.5 Mcycles 80 A AC-3e at Ue <= 440 V	
Control Circuit Type	DC standard	
Coil Technology	Without built-in suppressor module	
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC	
	0.851.1 Uc (-4055 °C):operational DC	
	11.1 Uc (5570 °C):operational DC	
Inrush Power In W	22 W (at 20 °C)	
Hold-In Power Consumption In W	22 W at 20 °C	
Operating Time	95130 ms closing	
	2035 ms opening	
Time Constant	75 ms	
Maximum Operating Rate	3600 cyc/h 60 °C	

l circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with
end
end I circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: flexible with
end
I circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without
end
I circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without
end
l circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without
end
I circuit: screw clamp terminals 2 14 mm ² cable stiffness: solid without end
circuit: connector 1 450 mm ² - cable stiffness: flexible without cable end
circuit: connector 2 425 mm ² - cable stiffness: flexible without cable end
circuit: connector 1 450 mm ² - cable stiffness: flexible with cable end
circuit: connector 2 416 mm ² - cable stiffness: flexible with cable end
circuit: connector 1 450 mm ² - cable stiffness: solid without cable end
circuit: connector 2 425 mm ² - cable stiffness: solid without cable end
I circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm I circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2
circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm
circuit: 12 N.m - on connector hexagonal screw head 4 mm
I circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
+ 1 NC
echanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
irror contact 1 NC conforming to IEC 60947-4-1
00 Hz
or signalling circuit
or signalling circuit
IOhm for signalling circuit
on de-energisation between NC and NO contact
on de-energisation between NC and NC contact
on energisation between NC and NO contact
-

Environment

Environment	
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	RINA CCC GOST CSA GL BV UL DNV LROS (Lloyds register of shipping)
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
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) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms)	
Height	127 mm	
Width	85 mm	
Depth	186 mm	
Net Weight	2.59 kg	
Packing Units		
Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	9.8 cm	
Package 1 Width	13.6 cm	
Package 1 Length	21.2 cm	
Package 1 Weight	2.509 kg	5
Unit Type Of Package 2	S02	
Number Of Units In Package 2	2	
Package 2 Height	15.0 cm	

Contractual warranty

Warranty

Package 2 Width

Package 2 Length

Package 2 Weight

18 months

30.0 cm

40.0 cm

5.52 kg

Sustainability Seren

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc

Yoxic Heavy Metal Free

Mercury Free

Rohs Exemption Information

Yes

Pvc Free

Certifications & Standards		
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	No need of specific recycling operations	

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