Product datasheet

Specification





CONTACTOR 600VAC 65AMP IEC +OPTIONS

LC1D65BD

Discontinued on: 01-Nov-2020

(!) Discontinued

Main

Range	TeSys	
Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Motor control	
	Motor control	
Utilisation Category	AC-3	
	AC-2	
	AC-1	
	AC-3e	
	AC-1	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] Rated Operational Current	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	
	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	24 V DC	_

Complementary

Motor Power Kw	30 kW at 380400 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 660690 V AC 50 Hz 18.5 kW at 220230 V AC 50 Hz 30 kW at 415 V AC 50 Hz 37 kW at 1000 V AC 50 Hz (AC-3) 11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 440 V AC 50 Hz (AC-3)
Motor Power Hp	10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors 5 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	80 A (at 60 °C) for power circuit 10 A (at 60 °C) for control circuit
Irms Rated Making Capacity	1000 A at 440 V DC for power circuit conforming to IEC 60947 1000 A at 440 V for power circuit conforming to IEC 60947 250 A DC for control circuit conforming to IEC 60947-5-1



Rated Breaking Capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Associated Fuse Rating	125 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit
	10 A gG for control circuit conforming to IEC 60947-5-1
Power Dissipation Per Pole	6.4 W AC-1 4.2 W AC-3e 4.2 W AC-3
[Ui] Rated Insulation Voltage	Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified conforming to IEC 60947-1 Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V CSA certified conforming to IEC 60947-4-1 Control circuit: 600 V CSA certified
Overvoltage Category	III
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
Safety Reliability Level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical Durability	10000000 cycles
Control Circuit Type	DC wide range
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 0.10.3 Uc (-4070 °C):drop-out DC
Inrush Power In W	19 W (at 20 °C)
Hold-In Power Consumption In W	7.4 W at 20 °C
Rated Operational Power In W	48 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit 96 W at 24 V DC-13 - electrical durability: 1000000 cycles - for control circuit 14 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circuit
Operating Time	50 ms closing 20 ms opening
Time Constant	34 ms
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: rigid Power circuit: screw terminals 2 2.516 mm² - cable stiffness: rigid without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.510 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm

Auxiliary Contact Composition	1 NO + 1 NC
Auxiliary Contacts Type	type mirror contact 1 NC conforming to IEC 60947-4-1 type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
Minimum Switching Voltage	17 V for control circuit
Minimum Switching Current	5 mA for control circuit
Insulation Resistance	> 10 MOhm for control circuit
Non-Overlap Time	1.5 ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts
Mounting Support	Plate Rail

Environment

Standards	IEC 60947-5-1
	IEC 60947-4-1
	EN 60947-4-1
	UL 508
	EN 60947-5-1
-	
Product Certifications	GOST
	LROS (Lloyds register of shipping)
	DNV
	CCC
	CSA
	GL GL
	UL
	RINA
	UKCA
	RINA
Ip Degree Of Protection	IP2X conforming to VDE 0106
.p = -9	IP2X conforming to VB2 0100
	11 2X contonning to 1EC 00029
Climatic Withstand	conforming to IACS E10 exposure to damp heat
Operating Altitude	03000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Shocks contactor closed (15 Gn for 11 ms)
	Vibrations contactor opened (2 Gn, 5300 Hz)
	Vibrations contactor closed (4 Gn, 5300 Hz)
	Shocks contactor opened (10 Gn for 11 ms)
	Chlocks contactor opened (10 off for 11 file)
Height	127 mm
Width	85 mm
Depth	176 mm
Net Weight	2.185 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	21.6 cm
Package 1 Length	16.0 cm
Package 1 Weight	2.268 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	2

Package 2 Height	15 cm	
Package 2 Width	30 cm	
Package 2 Length	40 cm	
Package 2 Weight	4.824 ka	

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc
⊘	Toxic 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

