Product datasheet





TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 115 A - 24 V DC standard coil

Local distributor code: 386021538

LC1D115BD

EAN Code: 3389110376463

Main

Range	TeSys	
Range 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: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] Rated Operational Current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	24 V DC	

Complementary

Motor Power Kw	30 kW at 220230 V AC 50/60 Hz (AC-3) 55 kW at 380400 V AC 50/60 Hz (AC-3)	
	59 kW at 415440 V AC 50/60 Hz (AC-3)	
	75 kW at 500 V AC 50/60 Hz (AC-3)	
	80 kW at 660690 V AC 50/60 Hz (AC-3)	
	65 kW at 1000 V AC 50/60 Hz (AC-3)	
	18.5 kW at 400 V AC 50/60 Hz (AC-4)	
	30 kW at 220230 V AC 50/60 Hz (AC-3e)	
	55 kW at 380400 V AC 50/60 Hz (AC-3e)	
	59 kW at 415440 V AC 50/60 Hz (AC-3e)	
	75 kW at 500 V AC 50/60 Hz (AC-3e)	
	80 kW at 660690 V AC 50/60 Hz (AC-3e)	
	65 kW at 1000 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	30 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	40 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	75 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	100 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 Current	200 A (at 60 °C) for power circuit	
Irms Rated Making Capacity	1260 A at 440 V for power circuit conforming to IEC 60947	
	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling circuit conforming to IEC 60947-5-1	

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Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	250 A 40 °C - 10 min for power circuit 550 A 40 °C - 1 min for power circuit
	950 A 40 °C - 10 s for power circuit
	1100 A 40 °C - 1 s 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	250 A gG at <= 690 V coordination type 1 for power circuit
	200 A gG at <= 690 V coordination type 2 for power circuit
	10 A gG for signalling circuit
Average Impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
Power Dissipation Per Pole	24 W AC-1 7.9 W AC-3
	7.9 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 CSA certified
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand	8 kV conforming to IEC 60947
Voltage Safety Reliability Level	B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1
,	B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO
	13849-1
Mechanical Durability	8 Mcycles
Electrical Durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V
	0.95 Mcycles 115 A AC-3 at Ue <= 440 V 0.95 Mcycles 115 A AC-3e at Ue <= 440 V
Control Circuit Type	DC standard
Coil Technology	With integral suppression device
Control Circuit Voltage Limits	0.751.2 Uc (-4055 °C):operational DC
	0.150.4 Uc (-4070 °C):drop-out DC
	11.2 Uc (5570 °C):operational DC
Inrush Power In W	270365 W (at 20 °C)
Hold-In Power Consumption In W	2.45.1 W at 20 °C
Operating Time	2035 ms closing
	4075 ms opening
Time Constant	25 ms
Maximum Operating Rate	1200 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with
	cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with
	cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible without
	cable end
	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid without
	cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: solid without
	cable end
	Power circuit: connector 1 10120 mm² - cable stiffness: flexible without cable end
	Power circuit: connector 2 1050 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 10120 mm² - cable stiffness: flexible with cable end
	Power circuit: connector 1 10120 mm² - cable stiffness: flexible with cable end
	Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end
	Power circuit: connector 2 1050 mm² - cable stiffness: solid without cable end

	Control circuit: 1.2 N.m., on scrow clamp terminals, with accounting flat (2.5	
Transcring forque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 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	Plate Rail	
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	CCC UL BV CSA GL GOST DNV LROS (Lloyds register of shipping) RINA UKCA CE	
lp 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 (6 Gn for 11 ms)	
Height	158 mm	
Width	120 mm	
Depth	136 mm	
Net Weight	2.5 kg	

Packing Units

Unit Type Of Package 1 PCE

Number Of Units In Package 1	1
Package 1 Height	22.000 cm
Package 1 Width	20.000 cm
Package 1 Length	23.000 cm
Package 1 Weight	2.478 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	27
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	79.798 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

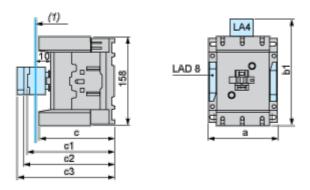
②	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
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	End of Life Information	

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
а		120
,	with LA4 DA2	174
b1 (with LA4 DF, DT	185
"	with LA4 DM, DL	188
	with LA4 DW	188
	without cover or add-on blocks	132
c ,	with cover, without add-on blocks	136
c1 \	with LAD N or C (2 or 4 contacts)	150
c2 \	with LA6 DK20	155
с3	with LAD T, R, S	168
	with LAD T, R, S and sealing cover	172

Connections and Schema

Wiring

