Product datasheet

Specification





TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V DC coil

Local distributor code:

402758918 LC1D126BD

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3389110806618

Main

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	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	24 V DC

Complementary

Motor Power Kw	3 kW at 220230 V AC 50/60 Hz (AC-3) 5.5 kW at 380400 V AC 50/60 Hz (AC-3) 5.5 kW at 415 V AC 50/60 Hz (AC-3) 5.5 kW at 440 V AC 50/60 Hz (AC-3) 7.5 kW at 500 V AC 50/60 Hz (AC-3) 7.5 kW at 660690 V AC 50/60 Hz (AC-3) 3 kW at 220230 V AC 50/60 Hz (AC-3e)
	5.5 kW at 380400 V AC 50/60 Hz (AC-3e) 5.5 kW at 415 V AC 50/60 Hz (AC-3e) 5.5 kW at 440 V AC 50/60 Hz (AC-3e) 7.5 kW at 500 V AC 50/60 Hz (AC-3e) 7.5 kW at 660690 V AC 50/60 Hz (AC-3e) 3.7 kW at 400 V AC 50/60 Hz (AC-4)
Motor Power Hp	0.5 hp at 115 V AC 50/60 Hz for 1 phase motors 2 hp at 230/240 V AC 50/60 Hz for 1 phase motors 3 hp at 200/208 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 3 phases motors 7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 10 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	25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit

Irms Rated Making Capacity	250 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	
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947	
[Icw] Rated Short-Time Withstand	105 A 40 °C - 10 s for power circuit	
Current	210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit	
	61 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	
	40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit	
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit	
Power Dissipation Per Pole	0.36 W AC-3	
Tower Biodipation For Fore	1.56 W AC-1	
	0.36 W AC-3e	
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1	
	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	
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	30 Mcycles	
Electrical Durability	2 Mcycles 12 A AC-3 at Ue <= 440 V	
	0.8 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 12 A AC-3e at Ue <= 440 V	
Control Circuit Type	DC standard	
Coil Technology	With integral suppression device	
Control Circuit Voltage Limits	0.10.25 Uc (-4070 °C):drop-out DC	
	0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
Inrush Power In W	5.4 W (at 20 °C)	
Hold-In Power Consumption In W	5.4 W at 20 °C	
Operating Time	63 ±15 % ms closing	
	20 ±20 % ms opening	
Time Constant	28 ms	
Maximum Operating Rate	3600 cyc/h 60 °C	
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 8 mm	
Tightening Torque	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5	
	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5	
	Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M3.5 Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5	
	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5	
	Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5	
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	um 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 IEC 60335-1	
Product Certifications	GL BV DNV LROS (Lloyds register of shipping) RINA UL CCC CSA GOST UKCA CB	
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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)	
Height	77 mm	
Width	45 mm	
Depth	95 mm	
Net Weight	0.485 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.3 cm
Package 1 Width	9.5 cm
Package 1 Length	12 cm

Package 1 Weight	532 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.292 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	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
Circularity Profile	End of Life Information