

TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 125 V DC coil

LC2D12GDV

① Discontinued

Main

Mairi	
Range	TeSys
Product Name	TeSys D
Product Or Component Type	Reversing contactor
Device Short Name	LC2D
Contactor Application	Motor control
	Resistive load
Utilisation Category	AC-1
	AC-3
Device Presentation	Preassembled with reversing power busbar
Poles Description	3P
Power Pole Contact Composition	3 NO
[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
Motor Power Kw	3 kW at 220230 V AC 50 Hz
	5.5 kW at 380400 V AC 50 Hz
	5.5 kW at 415440 V AC 50 Hz
	7.5 kW at 500 V AC 50 Hz
	7.5 kW at 660690 V AC 50 Hz
Motor Power Hp (UI / Csa)	1 hp at 115 V AC 60 Hz for 1 phase motors
. (2 hp at 230/240 V AC 60 Hz for 1 phase motors
	3 hp at 200/208 V AC 60 Hz for 3 phases motors
	3 hp at 230/240 V AC 60 Hz for 3 phases motors
	7.5 hp at 460/480 V AC 60 Hz for 3 phases motors
	10 hp at 575/600 V AC 60 Hz for 3 phases motors
Control Circuit Type	DC standard
[Uc] Control Circuit Voltage	125 V DC
Auxiliary Contact Composition	1 NO + 1 NC
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit
mermai Current	25 A (at 60 °C) for power circuit
Irms Rated Making Capacity	250 A at 440 V for power circuit conforming to IEC 60947
Time Nation 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
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IFC 20047
nated breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947

[Icw] Rated Short-Time Withstand	30 A 40 °C - 10 min for power circuit
Current	61 A 40 °C - 1 min for power circuit
	105 A 40 °C - 10 s for power circuit
	210 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	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
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1
[or, massa meanation 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
Electrical Durability	2 Mcycles 12 A AC-3 at Ue <= 440 V
•	0.8 Mcycles 25 A AC-1 at Ue <= 440 V
Bower Dissination Bar Sala	45000404
Power Dissipation Per Pole	1.56 W AC-1
	0.36 W AC-3
Front Cover	With
Interlocking Type	Electrical and mechanical
Mounting Support	Rail
•	Plate
 Standards	CSA C22.2 No 14
Ottandards	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
Product Certifications	GOST
Product Certifications	LROS (Lloyds register of shipping)
	DNV
	CCC
	UL
	BV
	RINA
	CSA
	GL
Connections - Terminals	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
Commodiant Formman	Power circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end
	Power circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 14 mm²solid
	Power circuit: screw clamp terminals 2 cable(s) 14 mm²solid
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid
Tightening Torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver hat 20 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
	· · · · · · · · · · · · · · · · · · ·
Operating Time	53.5572.45 ms closing 1624 ms opening
Safety Reliability Level	
Caroty Nonability 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	
Mechanical Durability	30 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor
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
Time Constant	28 ms
Inrush Power In W	5.4 W (at 20 °C)
Hold-In Power Consumption In W	5.4 W at 20 °C
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 Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V 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
Insulation Resistance	> 10 MOhm for signalling circuit

Environment

Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Pollution Degree	3
Ambient Air Temperature For Operation	-4060 °C 6070 °C with derating
Ambient Air Temperature For Storage	-6080 °C
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	90 mm
Depth	95 mm
Net Weight	1.027 kg

Contractual warranty

Warranty 18 months