Specifications



TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 38 A - 110 V DC coil

LC2D38FDV

(!) Discontinued

Main

Sys D versing contactor 2D sistive load tor control -1
versing contactor 2D sistive load for control
2D sistive load for control
sistive load for control
tor control
1
3
assembled with reversing power busbar
0
ver circuit: <= 690 V AC 25400 Hz ver circuit: <= 300 V DC
A (at <60 °C) at <= 440 V AC AC-1 for power circuit A (at <60 °C) at <= 440 V AC AC-3 for power circuit
W at 220230 V AC 50 Hz 5 kW at 380400 V AC 50 Hz 5 kW at 415440 V AC 50 Hz 5 kW at 500 V AC 50 Hz 5 kW at 660690 V AC 50 Hz
np at 230/240 V AC 60 Hz for 3 phases motors o at 240 V AC 60 Hz for 1 phase motors np at 200/208 V AC 60 Hz for 3 phases motors np at 480 V AC 60 Hz for 3 phases motors np at 600 V AC 60 Hz for 3 phases motors
standard
V DC
0 + 1 NC
/ conforming to IEC 60947
A (at 60 °C) for signalling circuit A (at 60 °C) for power circuit
A AC for signalling circuit conforming to IEC 60947-5-1 A DC for signalling circuit conforming to IEC 60947-5-1 A at 440 V for power circuit conforming to IEC 60947

[Icw] Rated Short-Time Withstand Current	60 A 40 °C - 10 min for power circuit 430 A 40 °C - 1 s for power circuit 150 A 40 °C - 1 s for power circuit
	150 A 40 °C - 1 min for power circuit 310 A 40 °C - 10 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
	63 A gG at <= 690 V coordination type 1 for power circuit
	63 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2 mOhm - Ith 50 A 50 Hz for power circuit
[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
Electrical Durability	1.4 Mcycles 50 A AC-1 at Ue <= 440 V
	1.4 Mcycles 38 A AC-3 at Ue <= 440 V
Power Dissipation Per Pole	5 W AC-1
	3 W AC-3
Front Cover	With
Interlocking Type	Electrical and mechanical
Mounting Support	Rail Plate
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	UL
	BV
	GOST CCC
	CSA
	DNV
	LROS (Lloyds register of shipping)
	GL RINA
Connections - Terminals	
	Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible 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 mm ² solid Control circuit: screw clamp terminals 2 cable(s) 14 mm ² solid
	Power circuit: screw clamp terminals 1 cable(s) 14 mm solid Power circuit: screw clamp terminals 1 cable(s) 2.510 mm²flexible without cable
	end
	Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible without cable
	end Power circuit: screw clamp terminals 1 cable(s) 110 mm²flexible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 1 to min nexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²flexible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 1.510 mm ² solid
	Power circuit: screw clamp terminals 2 cable(s) 2.510 mm ² solid
Tightening Torque	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 Philips No 2
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating Time	
	53.5572.45 ms closing 1624 ms opening
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

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 closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms
Height	85 mm
Width	90 mm
Depth	101 mm
Net Weight	1.137 kg

Contractual warranty

Warranty

18 months

Sustainability

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

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Well-being performance

Reach Free Of Svhc
 Toxic Heavy Metal Free
 Mercury Free
 Rohs Exemption Information Yes
 Pvc Free

Certifications & Standards

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
Circularity Profile	End of Life Information