

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 220 V AC coil

LC1D123M7

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	16 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	220 V AC 50/60 Hz

Complementary

10-Oct-2024

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	10 A (at 60 °C) for signalling circuit
current	16 A (at 60 °C) for power 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
[lcw] 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 16 A 50 Hz for power circuit
Power dissipation per pole	0.36 W AC-3
	1.56 W AC-1 0.36 W AC-3e
	Power circuit: 690 V conforming to IEC 60947-4-1
La granda manage	Power circuit: 690 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	15 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	AC at 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz
	0.81.1 Uc (-4060 °C):operational AC 50 Hz
	0.851.1 Uc (-4060 °C):operational AC 60 Hz
	11.1 Uc (6070 °C):operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C)
	7 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	23 W at 50/60 Hz
Operating time	1222 ms closing 419 ms opening
Maximum operating rate	3600 cyc/h 60 °C
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end
	Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end
	Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end
	Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end
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 60947-4-1
	IEC 60335-1:Clause 30.2
	IEC 60335-2-40:Annex JJ
	UL 60335-2-40:Annex JJ
	CSA C22.2 No 60947-4-1
Product certifications	UL
	CCC
	CSA
	Marine
	UKCA
	EAC
	CB Scheme
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	-4060 °C
temperature around the device	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	99 mm
Width	45 mm
Depth	86 mm
net weight	0.325 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	10.5 cm
Package 1 Length	10.5 cm
Package 1 Weight	375.0 g

Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.08 kg

Contractual warranty

Warranty 18 months



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Sustainable Packaging Transparency RoHS/REACh

Resource performance



Sustainable Packaging

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information

Yes

Pvc Free

Certifications & Standards

Reach Regulation

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

End of Life Information

Product datasheet

LC1D123M7

Image of product / Alternate images

Alternative





