Product data sheet Characteristics

LC1D115004E5

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 200 A - 48 V AC 50 Hz coil





Main

IVIAIII	
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 460 V DC
[le] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Control circuit type	AC at 50 Hz
[Uc] control circuit voltage	48 V AC 50 Hz
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[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
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[lcw] 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
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
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[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
Electrical durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V

Power dissipation per pole	24 W AC-1
Safety cover	With
Mounting support	Plate
5	Rail
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
	GOST
	UL
	LROS (Lloyds register of shipping)
	GL
	RINA
	DNV
	BV CSA
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end
	Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end
	Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible without cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible without cable end
	Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²solid without cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end Power circuit: connector 1 cable(s) 10120 mm²flexible without cable end
	Power circuit: connector 1 cable(s) 10120 mm flexible without cable end
	Power circuit: connector 1 cable(s) 10120 mm²flexible with cable end
	Power circuit: connector 2 cable(s) 1050 mm²flexible with cable end
	Power circuit: connector 1 cable(s) 10120 mm²solid without cable end
	Power circuit: connector 2 cable(s) 1050 mm²solid without cable end
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
rightening torque	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
Operating time	620 ms opening
Operating time	2050 ms closing
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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	8 Mcycles
Maximum operating rate	2400 cyc/h 60 °C

Complementary

Power dissipation per pole

24 W AC-1

Coil technology	Without built-in suppressor module
Control circuit voltage limits	Drop-out: 0.30.6 Uc AC 50 Hz (at 55 °C) Operational: 0.851.1 Uc AC 50 Hz (at 55 °C)
Inrush power in VA	300 VA 50 Hz cos phi 0.8 (at 20 °C)
Hold-in power consumption in VA	22 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	38 W at 50 Hz

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	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without
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: 6 Gn for 11 ms	
Height	158 mm	
Width	150 mm	
Depth	132 mm	
Net weight	2.86 kg	

Shocks contactor closed: 15 Gn for 11 ms

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months