

Product data sheet

Specifications



Contactor, TeSys Deca, 4P(4 NO) ,
AC-1 , <= 440V, 125A, 277V, AC 50
Hz coil

LC1D80004W5

ⓘ Discontinued

Main

Range	TeSys
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load
Utilisation Category	AC-1 AC-3 AC-3e AC-4
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit: <= 300 V DC 25...400 Hz Power circuit: <= 690 V AC
[Ie] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) AC AC-3 for power circuit 80 A (at <60 °C) AC AC-3e for power circuit 55 A (at <60 °C) AC AC-4 for power circuit
[Uc] Control Circuit Voltage	277 V AC 50 Hz

Complementary

Compatibility Code	LC1D
Pole Contact Composition	4 NO
Contact Compatibility	M1
Protective Cover	Without
[Ith] Conventional Free Air Thermal Current	125 A (at 60 °C) for power circuit
Irms Rated Making Capacity	1100 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
[Icw] Rated Short-Time Withstand Current	640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit
Associated Fuse Rating	200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
Power Dissipation Per Pole	12.5 W AC-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[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
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 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	10 Mcycles
Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V
Control Circuit Type	AC at 50 Hz
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.3...0.6 Uc (-40...70 °C):drop-out AC 50 Hz 0.85...1.1 Uc (-40...55 °C):operational AC 50 Hz 1...1.1 Uc (55...70 °C):operational AC 50 Hz
Inrush Power In Va	200 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	6...10 W at 50 Hz
Operating Time	20...35 ms closing 6...20 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end Power circuit: connector 1 4...50 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 4...25 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 4...50 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 4...16 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 4...50 mm² - cable stiffness: solid without cable end Power circuit: connector 2 4...25 mm² - cable stiffness: solid without cable end
Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm
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
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Product Certifications	GOST RINA GL BV CCC CSA UL DNV LROS (Lloyds register of shipping)
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
Permissible Ambient Air Temperature Around The Device	-60...80 °C storage -40...60 °C operation 60...70 °C with derating
Operating Altitude	0...3000 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, 5...300 Hz) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm
Width	96 mm
Depth	125 mm
Net Weight	1.76 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months
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