

LP1D65008FD

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 -
≤ 440 V 80 A - 110 V DC coil



Main

Range of product	TeSys D
Product or component type	Contacteur
Device short name	LP1D
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	≤ 690 V AC 25..400 Hz for power circuit ≤ 690 V DC for power circuit
[Ie] rated operational current	80 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit
Control circuit type	DC standard
Control circuit voltage	110 V DC
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overtoltage category	III
[Ith] conventional free air thermal current	80 A at ≤ 60 °C for power circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	110 A ≤ 40 °C 10 min power circuit 260 A ≤ 40 °C 1 min power circuit 520 A ≤ 40 °C 10 s power circuit 900 A ≤ 40 °C 1 s power circuit
Associated fuse rating	125 A gG at ≤ 690 V coordination type 1 for power circuit 125 A gG at ≤ 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm at 50 Hz - Ith 80 A for power circuit
[Ui] rated insulation voltage	690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL
Power dissipation per pole	9.6 W AC-1
Safety cover	Without
Mounting support	Plate Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 n°14
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS

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Connections - terminals	<p>Power circuit: screw clamp terminals 1 cable(s) 1...35 mm² - cable stiffness: flexible - without cable end</p> <p>Power circuit: screw clamp terminals 2 cable(s) 1...25 mm² - cable stiffness: flexible - without cable end</p> <p>Power circuit: screw clamp terminals 1 cable(s) 1...35 mm² - cable stiffness: flexible - with cable end</p> <p>Power circuit: screw clamp terminals 2 cable(s) 1...25 mm² - cable stiffness: flexible - with cable end</p> <p>Power circuit: screw clamp terminals 1 cable(s) 1...35 mm² - cable stiffness: solid - without cable end</p> <p>Power circuit: screw clamp terminals 2 cable(s) 1...25 mm² - cable stiffness: solid - without cable end</p> <p>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end</p> <p>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm² - cable stiffness: flexible - without cable end</p> <p>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - with cable end</p> <p>Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end</p> <p>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: solid - without cable end</p> <p>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm² - cable stiffness: solid - without cable end</p>
Tightening torque	<p>Power circuit: 5 N.m - on screw clamp terminals - cable ≤ 25 mm² hexagonal 4 mm</p> <p>Power circuit: 8 N.m - on screw clamp terminals - cable 25...35 mm² hexagonal 4 mm</p> <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2</p>
Operating time	<p>4...19 ms opening</p> <p>12...26 ms closing</p>
Safety reliability level	<p>B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1</p> <p>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1</p>
Mechanical durability (millions)	6 Mcycles
Operating rate	3600 cyc/h at ≤ 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	<p>0.1...0.3 Uc at 55 °C drop-out</p> <p>0.85...1.1 Uc at 55 °C operational</p>
Time constant	75 ms
Inrush power in W	22 W at 20 °C
Hold-in power consumption in W	22 W at 20 °C

Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at Uc
Operating altitude	3000 m without derating in temperature
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	<p>Vibrations contactor open 2 Gn, 5...300 Hz</p> <p>Vibrations contactor closed 4 Gn, 5...300 Hz</p> <p>Shocks contactor open 10 Gn for 11 ms</p> <p>Shocks contactor closed 15 Gn for 11 ms</p>

Height	127 mm
Width	85 mm
Depth	125 mm
Product weight	2.22 kg