Product datasheet

Specification





TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 60 A - 24 V DC coil

LP1D40008BD

Main

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Range	TeSys	
Range of product	TeSys Deca	
Product or component type	Contactor	
Device short name	LP1D	
contactor application	Resistive load	
Utilisation category	AC-1	
poles description	4P	
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25400 Hz	
[le] rated operational current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

Compatibility code	LP1D	
Pole contact composition	2 NO + 2 NC	
Protective cover	Without	
[Ith] conventional free air thermal current	60 A (at 60 °C) for power circuit	
rms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit 320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit	
Associated fuse rating	80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit	
Power dissipation per pole	5.4 W AC-1	
[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	
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	10 Mcycles	
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V	
Control circuit type	DC DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC 11.1 Uc (5570 °C):operational DC	
Inrush power in W	22 W (at 20 °C)	
Hold-in power consumption in W	22 W at 20 °C	
Operating time	419 ms opening 1226 ms closing	
Time constant	75 ms	
Maximum operating rate	3600 cyc/h 60 °C	
Connections - terminals	Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: solid Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid	
Tightening torque	Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm² hexagonal screw head 4 mm 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: 5 N.m - on screw clamp terminals - cable 125 mm² hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
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	
Product certifications IP degree of protection	UL CSA CCC EAC UKCA CB DNV-GL RINA BV LROS (Lloyds register of shipping)	

Permissible ambient air temperature around the device	-4060 °C 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	Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz)	
Height	127 mm	
Width	85 mm	
Depth	182 mm	
Net weight	2.21 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	16.2 cm
Package 1 Length	21.8 cm
Package 1 Weight	2.265 kg
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.828 kg

Contractual warranty

Warranty 18 months

Sustainability Screen Premium

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

Well-being performance

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

Certifications & Standards

Reach Regulation	REACh Declaration
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	No need of specific recycling operations