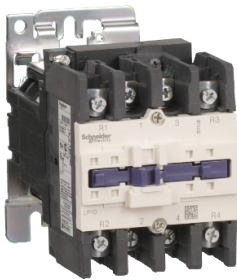


Product datasheet

Specifications



Contactor, TeSys Deca, 4P (4NO), AC-1 $\leq 440\text{V}$ 125 A, 220 V DC standard coil, ring-lug terminals

LP1D800046MD

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

Main

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: $\leq 690\text{ V AC } 25\ldots 400\text{ Hz}$ Power circuit: $\leq 300\text{ V DC}$
[Ie] rated operational current	125 A (at $\leq 60\text{ }^{\circ}\text{C}$) at $\leq 440\text{ V AC AC-1}$ for power circuit 80 A (at $\leq 60\text{ }^{\circ}\text{C}$) at $\leq 440\text{ V AC AC-3}$ for power circuit 80 A (at $\leq 60\text{ }^{\circ}\text{C}$) at $\leq 440\text{ V AC AC-3e}$ for power circuit 55 A (at $\leq 60\text{ }^{\circ}\text{C}$) at $\leq 400\text{ V AC AC-4}$ for power circuit
[Uc] control circuit voltage	220 V DC

Complementary

Compatibility code	LP1D
Pole contact composition	4 NO
Protective cover	Without
[Ith] conventional free air thermal current	125 A (at $60\text{ }^{\circ}\text{C}$) 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	135 A $40\text{ }^{\circ}\text{C}$ - 10 min for power circuit 320 A $40\text{ }^{\circ}\text{C}$ - 1 min for power circuit 640 A $40\text{ }^{\circ}\text{C}$ - 10 s for power circuit 990 A $40\text{ }^{\circ}\text{C}$ - 1 s for power circuit
Associated fuse rating	200 A gG at $\leq 690\text{ V}$ coordination type 1 for power circuit 160 A gG at $\leq 690\text{ V}$ 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
[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

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

[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	4 Mcycles
Electrical durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V
Control circuit type	DC DC standard
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.1...0.3 Uc (-40...70 °C):drop-out DC 0.85...1.1 Uc (-40...55 °C):operational DC 1...1.1 Uc (55...70 °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	6...20 ms opening 20...35 ms closing
Time constant	75 ms
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 17 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm
Tightening torque	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 12 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 12 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 12 N.m - on bars hexagonal screw head 10 mm M6
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	BV CCC CSA DNV EAC GL LROS (Lloyds register of shipping) UL
IP degree of protection	IP20 front face conforming to IEC 60529
Permissible ambient air temperature around the device	-40...60 °C 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) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm

Width	96 mm
Depth	181 mm
Net weight	2.685 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.5 cm
Package 1 Width	13.5 cm
Package 1 Length	11 cm
Package 1 Weight	2.563 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better

Materials and Substances	
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins