Product data sheet Characteristics

LP1D800046MD

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 125 A - 220 V DC coil





(!) To be discontinued

Main

Range TeSys D Product or component type Contactor Device short name LP1D 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: <= 300 V DC [le] rated operational current 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit [Uc] control circuit voltage 220 V DC Coil type DC standard [Ump] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 125 A (at 60 °C) for power circuit conforming to IEC 60947 Rated breaking 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 °C - 10 min for power circuit 40A 0 °C - 1 in for power circuit 320 A 40 °C - 10 min for power circuit 40A 0 A 0 °C - 10 so for power circuit 40A 0 A 0 °C - 10 so for power circuit 40A 0 A 0 °C - 10 so for power circuit 4			
Product or component type Contactor Device short name LP1D 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	Range	TeSys	
Device short name LP1D 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: <= 300 V DC [le] rated operational current [Uc] control circuit voltage 220 V DC Coil type DC standard [Uimp] rated impulse withstand voltage Vervoltage category III [Ith] conventional free air thermal current 125 A (at 60 °C) for power circuit current 125 A (at 60 °C) for power circuit conforming to IEC 60947 Rated breaking capacity 1100 A at 440 V for power circuit conforming to IEC 60947 Rated short-time withstand current 135 A 40 °C · 10 min for power circuit conforming to IEC 60947 [lcw] rated short-time withstand current 200 A 90 °C · 10 min for power circuit 320 A 40 °C · 10 min for power circuit 320 A 40 °C · 10 min for power circuit 320 A 40 °C · 10 s for power circuit 320 A 40 °C · 10 s for power circuit 320 A 40 °C · 10 s for power circuit 440 A 40 °C · 10 s for power circuit 450 A 40 °C · 10 s for power circuit 460 A 40 °C · 10 s for power circuit 470 A 40 °C · 10 s for power circuit 480 A 40 °C · 10 s for power	Product name	TeSys D	
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: <= 300 V DC [le] rated operational current 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit [Uc] control circuit voltage 220 V DC Coil type DC standard [Uimp] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 125 A (at <60 °C) for power circuit conforming to IEC 60947 Rated breaking 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 Rated breaking 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 Rated breaking capacity 100 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 100 A at 440 V for power circuit conforming to IEC 60947 Rated breaking capacity 100 A at 440 V for power circuit conforming to IEC 60947 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 mOhn - th 125 A 50 Hz for power circuit [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	Product or component type	Contactor	
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: <= 300 V DC [le] rated operational current 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit [Uc] control circuit voltage 220 V DC Coil type DC standard [Uimp] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 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 320 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 990 A 40 °C - 1 is for power circuit 44 °C - 10 s for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power circuit 320 A 40 °C - 1 S for power	Device short name	LP1D	
Poles description 4P Power pole contact composition 4 NO [Ue] rated operational voltage Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC [le] rated operational current 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit [Uc] control circuit voltage 220 V DC Coil type DC standard [Uimp] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 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 320 A 40 °C - 10 min for power circuit 320 A 40 °C - 10 s for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit Associated fuse rating 200 A gG at <= 690 V coordination type 1 for power circuit Average impedance 0.8 mOhm - Ith 125 A 50 Hz for power circuit EVALUATION FOR THE ACT OF	Contactor application	Resistive load	
Power pole contact composition [Ue] rated operational voltage Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC [le] rated operational current 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit [Uc] control circuit voltage 220 V DC Coil type DC standard [Uimp] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 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 320 A 40 °C - 10 min for power circuit 320 A 40 °C - 10 s for power circuit 440 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 450 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 600 V CSA certified Power circuit: 600 V USA certified	Utilisation category	AC-1	
Composition Power circuit: <= 1000 V AC 25400 Hz	Poles description	4P	2
Power circuit: <= 300 V DC	Power pole contact composition	4 NO	- Ailit
Coil type DC standard	[Ue] rated operational voltage		- ci
Coil type DC standard [Uimp] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 125 A (at 60 °C) for power circuit conforming to IEC 60947 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 320 A 40 °C - 10 min for power circuit 320 A 40 °C - 10 s for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 10 s for power circuit Associated fuse rating 200 A gG at <= 690 V coordination type 1 for power circuit Average impedance 0.8 mOhm - Ith 125 A 50 Hz for power circuit [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	[le] rated operational current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	i
[Uimp] rated impulse withstand voltage 8 kV conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 125 A (at 60 °C) for power circuit conforming to IEC 60947 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 320 A 40 °C - 10 min for power circuit 320 A 40 °C - 10 s for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s 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 [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	[Uc] control circuit voltage	220 V DC	
Covervoltage category III	Coil type	DC standard	
[Ith] conventional free air thermal current 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 °C - 10 min for power circuit 320 A 40 °C - 10 min for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 990 A 40 °C - 1 s for power circuit 990 A 40 °C - 1 s 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 [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	a
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 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 990 A 40 °C - 1 s 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 [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	Overvoltage category	III	
Rated breaking capacity 1100 A at 440 V for power circuit conforming to IEC 60947 [Icw] rated short-time withstand current 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s 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 [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified		125 A (at 60 °C) for power circuit	. <u>.</u>
[Icw] rated short-time withstand current 135 A 40 °C - 10 min for power circuit 320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 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 [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947	
320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 200 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 0.8 mOhm - Ith 125 A 50 Hz for power circuit [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947	
Average impedance 0.8 mOhm - Ith 125 A 50 Hz for power circuit [Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	[lcw] rated short-time withstand current	320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit	m. This documentation is not intended as a substitute for and is not to be used for determining suitability or talability of these products for sone
[Ui] rated insulation voltage Power circuit: 600 V CSA certified Power circuit: 600 V UL certified	Associated fuse rating		ر اة 100
Power circuit: 600 V UL certified	Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
	[Ui] rated insulation voltage	Power circuit: 600 V UL certified	

Electrical durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V
Power dissipation per pole	12.5 W AC-1
Front cover	Without
Mounting support	Plate 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	BV CCC CSA DNV EAC GL LROS (Lloyds register of shipping) UL
Connections - terminals	Control circuit: lugs-ring terminals (external diameter: 8 mm) Power circuit: lugs-ring terminals (external diameter: 17 mm) Power circuit: bars 1 cable(s) - busbar cross section: 3 x 16 mm
Tightening torque	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 9 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 9 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 9 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 9 N.m - on bars hexagonal screw head 10 mm M6
Operating time	620 ms opening 2035 ms closing
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
Maximum operating rate	3600 cyc/h 60 °C

Complementary

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 storage	-6080 °C
Operating altitude	3000 m without derating
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: 3 Gn, 5300 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 Weight	2.563 kg
Package 1 Height	20.5 cm
Package 1 width	13.5 cm
Package 1 Length	11 cm

Offer Sustainability

Green Premium product
Yes
Compliant EU RoHS Declaration
Yes
Yes
Yes
China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Product Environmental Profile
Yes

Contractual warranty

|--|