



TeSys D contactor - 4P(4 NO) -AC-1 - <= 440 V 125 A - 48 V DC coil

LP1D80004EW

! Discontinued on: 30 Nov 2020

(!) Discontinued

EAN Code: 3389110228373

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 AC-3 AC-3e AC-4
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit: <= 690 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 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit 55 A (at <60 °C) at <= 400 V AC AC-4 for power circuit
[Uc] Control Circuit Voltage	48 V DC

Complementary

Compatibility Code	LP1D
Pole Contact Composition	4 NO
Contact Compatibility	M4
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	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
Power Dissipation Per Pole	12.5 W AC-1

	Plate
Mounting Support	Rail
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
	Control circuit: screw clamp terminals 1 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 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 Power circuit: connector 1 450 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm² - cable stiffness: solid Power circuit: connector 2 425 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end
Maximum Operating Rate Connections - Terminals	3600 cyc/h 60 °C Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without
Time Constant	75 ms
Sperating Time	620 ms opening 2035 ms closing
Hold-In Power Consumption In W Operating Time	22 W at 20 °C
Inrush Power In W	22 W (at 20 °C)
	11.2 Uc (5570 °C):operational DC
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC 0.751.2 Uc (-4055 °C):operational DC
Coil Technology	Without built-in suppressor module
Control Circuit Type	DC wide range
Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V
Mechanical Durability	4 Mcycles
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
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
Pollution Degree	3
Overvoltage Category	III
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

Environment

Standards CSA C22.2 No 14 EN 60947-4-1

EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508

Product Certifications	BV
Troduct del unications	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	-4060 °C
Temperature Around The Device	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	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

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

Eu Rohs Directive

	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

Compliant