Product datasheet Characteristics

LP1D40008BW

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





IVIAIII	
Range	TeSys
Product name	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	2 NO + 2 NC
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[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
Coil type	Wide range
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
[lth] conventional free air thermal current	60 A (at 60 °C) for power circuit
Irms 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
[lcw] 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
[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
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V

Power dissipation per pole	5.4 W AC-1
Safety cover	Without
Mounting support	Rail Plate
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	Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end
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
Operating time	419 ms opening 1226 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	10 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.3 Uc 55 °C drop-out DC 0.751.2 Uc 55 °C operational DC
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

Protective treatment TH conforming to IEC 60068-2-30 Pollution degree 3 Ambient air temperature for operation -560 °C Ambient air temperature for storage -6080 °C Permissible ambient air temperature around the device -4070 °C at Uc Operating altitude 3000 m without Fire resistance 850 °C conforming to IEC 60695-2-1 Flame retardance V1 conforming to UL 94		
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Mechanical robustness Vibrations contactor open: 2 Gn, 5300 Hz	Fire resistance	850 °C conforming to IEC 60695-2-1
	Flame retardance	V1 conforming to UL 94
	Mechanical robustness	

Shocks contactor open: 10 Gn for 11 ms	
Shocks contactor closed: 15 Gn for 11 ms	

Height	127 mm
Width	85 mm
Depth	182 mm
Net weight	2.21 kg

Offer Sustainability

China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Mercury free	Yes
Toxic heavy metal free	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
REACh free of SVHC	Yes
REACh Regulation	REACh Declaration
Sustainable offer status	Green Premium product

Contractual warranty

Warranty	18	months	