## Product data sheet Characteristics

# LP1D65008EW

TeSys; TeSys D, contactor, 4P(2 NO + 2 NC), AC-1, <= 440 V 80 A, 48 V DC coil





#### 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: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	48 V DC

#### Complementary

Complementary	
Compatibility code	LP1D
Pole contact composition	2 NO + 2 NC
Contact compatibility	M3
Protective cover	Without
[lth] conventional free air thermal current	80 A (at 60 °C) for power circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	110 A 40 °C - 10 min for power circuit 260 A 40 °C - 1 min for power circuit 520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	9.6 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/ISC 13849-1
Mechanical durability	6 Mcycles
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V
Control circuit type	DC wide range
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.751.2 Uc (-4055 °C):operational DC 11.2 Uc (5570 °C):operational DC

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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 1 135 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 125 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 135 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 125 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 135 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 125 mm² - cable stiffness: solid 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 with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 125 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 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
Mounting support	Rail Plate
Environment Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1

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[RETURN]CCC[RETURN]CSA[RETURN]DNV[RETURN]EAC[RETURN]GL[RETURN]LROS (Lloyds register of shipping)[RETURN]UL
IP degree of protection	IP20 front face conforming to IEC 60529
Permissible ambient air temperature around the	-4060 °C
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	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 (3 Gn, 5300 Hz)
Height	127 mm
Width	85 mm
Depth	182 mm
Net weight	2.22 kg

### Packing Units

2

Unit Type of Package 1	PCE
Number of Units in Package 1	1

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## Offer Sustainability

Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

### Contractual warranty

Warranty	18 months
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