

LP1K09008GD

TeSys K contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 20 A - 125 V DC coil



Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Commercial Status	Commercialised
Range of product	TeSys K
Product or component type	Contacteur
Device short name	LP1K
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	4P
Pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	16 A ($\leq 158^{\circ}\text{F}$ (70°C)) at 690 V AC AC-1 for power circuit 20 A ($\leq 122^{\circ}\text{F}$ (50°C)) at ≤ 440 V AC AC-1 for power circuit
Control circuit type	DC standard
Control circuit voltage	125 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at $\leq 122^{\circ}\text{F}$ (50°C) for power circuit
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947 110 A AC for power circuit conforming to NF C 63-110
Rated breaking capacity	70 A at 660...690 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947
[Icw] rated short-time withstand current	20 A $\leq 122^{\circ}\text{F}$ (50°C) ≥ 15 s power circuit 40 A $\leq 122^{\circ}\text{F}$ (50°C) 3 min power circuit 45 A $\leq 122^{\circ}\text{F}$ (50°C) 1 min power circuit 60 A $\leq 122^{\circ}\text{F}$ (50°C) 30 s power circuit 80 A $\leq 122^{\circ}\text{F}$ (50°C) 10 s power circuit 85 A $\leq 122^{\circ}\text{F}$ (50°C) 5 s power circuit 90 A $\leq 122^{\circ}\text{F}$ (50°C) 1 s power circuit
Associated fuse rating	25 A aM for power circuit 25 A gG at ≤ 440 V for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	600 V for power circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508
Electrical durability	0.18 Mcycles 20 A AC-1 at $U_e \leq 440$ V
Mounting support	Plate Rail
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL

Connections - terminals	Screw clamp terminals 2 cable(s) 0...0 in ² (0.34...1.5 mm ²) - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0...0.01 in ² (0.75...4 mm ²) - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0...0.01 in ² (1.5...4 mm ²) - cable stiffness: solid Screw clamp terminals 1 cable(s) 0...0 in ² (0.34...2.5 mm ²) - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0...0.01 in ² (0.75...4 mm ²) - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0...0.01 in ² (1.5...4 mm ²) - cable stiffness: solid
Tightening torque	11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm 11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver Philips No 2
Operating time	15 ms coil de-energisation and NC closing 25...35 ms coil energisation and NC opening 10 ms coil de-energisation and NO opening 30...40 ms coil energisation and NO closing
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	10 Mcycles
Operating rate	3600 cyc/h

Complementary

Control circuit voltage limits	0.1...0.75 Uc at ≤ 122 °F (50 °C) drop-out 0.8...1.15 Uc at ≤ 122 °F (50 °C) operational
Inrush power in W	3 W at 68 °F (20 °C)
Hold-in power consumption in W	3 W at 68 °F (20 °C)
Heat dissipation	3 W

Environment

IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to DIN 50016 TC conforming to IEC 60068
Ambient air temperature for operation	-13...122 °F (-25...50 °C)
Ambient air temperature for storage	-58...176 °F (-50...80 °C)
Operating altitude	6561.68 ft (2000 m) without derating in temperature
Flame retardance	Requirement 2 conforming to NF F 16-102 Requirement 2 conforming to NF F 16-101 V1 conforming to UL 94
Mechanical robustness	Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27
Height	2.28 in (58 mm)
Width	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Product weight	0.5 lb(US) (0.225 kg)

Ordering and shipping details

Category	22321 - CTR,K-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901235149
Nbr. of units in pkg.	1
Package weight(Lbs)	0.50
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0640 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Period	18 months
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