Fisa tehnica produs
Caracteristici

LP1K1210BD3
TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V DC coil

Informatiile furnizate in aceasta documentatie contin descrieri generale si/sau caracteristici tehnice a performantelor produselor continute in acest document.
Aceasta documentatie nu este conceputa ca un substitut si nu trebuie utilizata pentru stabilirea corectitudinii alegerii sau fiabilitatea acestor produse pentru aplicatii specifice utilizatorului.
Este de datoria utilizatorului sau a integratorului pentru efectuarea analizei adecvate si complete a riscurilor, evaluarea si testarea produselor in ceea ce prive?te aplicatia specifica relevanta sau utilizarea acestora.
Schneider Electric Industries SAS sau filialele sale nu sunt responsabile sau raspunzatoare pentru utilizarea abuziva a informatiilor continute in acest document.



Main

Commercial Status	Commercialised
Range of product	TeSys K
Product or component type	Contactor
Device short name	LP1K
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz for signalling circuit 690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	12 A at <= 440 V AC AC-3 for power circuit 16 A (<= 70 °C) at 690 V AC AC-1 for power circuit 20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	5.5 kW at 440 V AC 50/60 Hz 5.5 kW at 380...415 V AC 50/60 Hz 3 kW at 220...230 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 4 kW at 500...600 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz
Control circuit type	DC standard
Control circuit voltage	24 V DC
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	10 A at <= 50 °C for signalling circuit 20 A at <= 50 °C for power circuit
Irms rated making capacity	144 A AC for power circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 110 A AC for signalling circuit conforming to IEC 60947
Rated breaking capacity	70 A at 660...690 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947
[Icw] rated short-time withstand current	25 A <= 50 °C >= 15 s power circuit 50 A <= 50 °C 3 min power circuit 55 A <= 50 °C 1 min power circuit 75 A <= 50 °C 30 s power circuit 100 A <= 50 °C 10 s power circuit 105 A <= 50 °C 5 s power circuit 115 A <= 50 °C 1 s power circuit 110 A 100 ms signalling circuit 90 A 500 ms signalling circuit 80 A 1 s signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to VDE 0660 10 A gG for signalling circuit conforming to IEC 60947 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 signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-5-1 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508
Electrical durability	1.3 Mcycles 12 A AC-3 at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 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) 0.34...1.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.75...4 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1.5...4 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.34...2.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.75...4 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 1.5...4 mm² - cable stiffness: solid
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	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

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.1...0.75 Uc at <= 50 °C drop-out 0.8...1.15 Uc at <= 50 °C operational
Inrush power in W	3 W at 20 °C
Hold-in power consumption in W	3 W at 20 °C
Heat dissipation	3 W
Auxiliary contacts type	Type instantaneous (1 NO)
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non overlap distance	0.5 mm
Insulation resistance	> 10 MOhm for signalling circuit

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	-25...50 °C
Ambient air temperature for storage	-50...80 °C
Operating altitude	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	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.225 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0825 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Descarcare Product Environmental
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Period	18 months