

Product data sheet

Characteristics

LP4K090045BW3

TeSys K contactor - 4P (4 NO) - AC-1 \leq 440 V
20 A - 24 V DC coil

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



Price* : 110.00 USD



Main

Range	TeSys
Product or component type	Contactor
Product name	TeSys K
Device short name	LP4K
Device application	Control
Contactor application	Resistive load

Complementary

Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
System Voltage	690 V AC 50/60 Hz power circuit
[Ie] rated operational current	20 A (\leq 122 °F (50 °C)) at \leq 440 V AC AC-1 power circuit 16 A (\leq 158 °F (70 °C)) at 690 V AC AC-1 power circuit
Control circuit type	DC low consumption
[Uc] control circuit voltage	24 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at \leq 122 °F (50 °C) power circuit
Rms rated making capacity	110 A AC power circuit conforming to NF C 63-110 110 A AC power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[I _{cw}] rated short-time withstand current	20 A ≤ 50 °C ≥ 15 min power circuit 90 A ≤ 122 °F (50 °C) 1 s power circuit 85 A ≤ 122 °F (50 °C) 5 s power circuit 80 A ≤ 122 °F (50 °C) 10 s power circuit 60 A ≤ 122 °F (50 °C) 30 s power circuit 45 A ≤ 122 °F (50 °C) 1 min power circuit 40 A ≤ 122 °F (50 °C) 3 min power circuit
Associated fuse rating	25 A gG at ≤ 440 V power circuit 25 A aM power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A power circuit
[U _i] rated insulation voltage	600 V power circuit conforming to CSA C22.2 No 14 690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 508
Inrush power in W	1.8 W at 68 °F (20 °C)
Hold-in power consumption in W	1.8 W at 68 °F (20 °C)
Heat dissipation	1.8 W
Control circuit voltage limits	0.7...1.30 U _c at ≤ 122 °F (50 °C) operational 0.1...0.7 U _c at ≤ 122 °F (50 °C) drop-out
Connections - terminals	Solder pins 1.5 x 0.9 mm
Operating rate	3600 cyc/h
Coil technology	Built-in bidirectional peak limiting diode suppressor
Mounting support	Printed circuit boards
Operating time	10 ms coil de-energisation and NO opening 30...40 ms coil energisation and NO 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	30 Mcycles
Electrical durability	0.18 Mcycles 20 A AC-1 at U _e ≤ 440 V
Mechanical robustness	Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor opened, on X axis 10 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 closed, on X axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 10 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	0.52 lb(US) (0.235 kg)

Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
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	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

Ordering and shipping details

Category	22321 - CTR,K-LINE,DC,OPEN,NONREV
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Discount Schedule	I12
GTIN	003389110498714
Nbr. of units in pkg.	1
Package weight(Lbs)	0.5799999999999996
Returnability	N
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0825 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.
----- More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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