Product data sheet
Characteristics

LR2K0312
differential thermal overload relay, TeSys K, 3.7...5.5A, class 10A



Main

Range	TeSys
Product name	TeSys LRK
Product or component type	Differential thermal overload relay
Device short name	LR2K
Relay application	Motor protection
Product compatibility	LC7K LP1K LP4K LC1K
Network type	DC AC
Thermal overload class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	3.7…5.5 A
[Ui] rated insulation voltage	Power circuit: 690 V conforming to BS 4941 Power circuit: 690 V conforming to IEC 60947 Power circuit: 750 V conforming to VDE 0110 group C Power circuit: 600 V conforming to CSA C22.2 No 14

Complementary

Network frequency	<= 400 Hz
Mounting support	Under contactor Plate, with specific accessories Rail, with specific accessories
Auxiliary contact composition	1 NO + 1 NC
[Ith] conventional free air thermal current	6 A for signalling circuit
[Ue] rated operational voltage	<= 690 V for power circuit 690 V AC AC-15 for signalling circuit 250 V DC DC-13 for signalling circuit
Associated fuse rating	6 A gG for signalling circuit conforming to VDE 0660 6 A gG for signalling circuit conforming to IEC 60947
[Uimp] rated impulse withstand voltage	6 KV
Power dissipation per pole	2 W
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Local signalling	Trip indicator (yellow)
Control type	Red push-button: trip test function Blue push-button: stop and manual reset selector switch: manual or automatic reset
Connections - terminals	Screw clamp terminals 1 cable(s) 1.5…4 mm²solid Screw clamp terminals 2 cable(s) 1.5…4 mm²solid Screw clamp terminals 1 cable(s) 0.75…4 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.75…4 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.34…2.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.34…1.5 mm²flexible with cable end

Tightening torque	1.3 N.M - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.M - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.M - on screw clamp terminals - with screwdriver pozidriv No 2
Height	58 Mm
Width	45 Mm
Depth	65 Mm
Net weight	0.145 Kg

Environment

Standards	IEC 60947 VDE 0660 BS 4941 NF C 63-650
Product certifications	UL[RETURN]CSA[RETURN]UKCA
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
IP degree of protection	IP2X conforming to IEC 60529
Ambient air temperature for operation	-20…55 °C without derating conforming to IEC 60947 -30…60 °C with derating conforming to IEC 60947
Ambient air temperature for storage	-40…70 °C
Operating altitude	2000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Mechanical robustness	Shocks NO contact: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks NC contact: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations NO contact: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 Vibrations NC contact: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.200 Cm
Package 1 Width	4.800 Cm
Package 1 Length	8.500 Cm
Package 1 Weight	157.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	41
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	6.816 Kg

Offer Sustainability

Recyclability potential, in %	47
Total lifecycle Carbon footprint	4 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.87503
Carbon footprint of the manufacturing phase [A1 to A3]	0.9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.023869
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00069278
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	3.2446
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	3 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes

Carbon footprint of the end-of-life phase [C1 to C4]	0.029006
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	4
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	E145d1bc-6ab6-4bb3-beeb-cb7d7952e3f6
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony tr
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised