

# Product datasheet

Specifications



## TeSys K - differential thermal overload relays - 8...11.5 A - class 10A

LR2K0316

### 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 LC1K LP4K
Network type	DC AC
Thermal overload class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	8...11.5 A
[U <sub>i</sub> ] 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
[I <sub>th</sub> ] conventional free air thermal current	6 A for signalling circuit
[U <sub>e</sub> ] 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
[U <sub>imp</sub> ] 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Connections - terminals</b>	Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> solid Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> solid Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> flexible with cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end
<b>Tightening torque</b>	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
<b>Height</b>	58 mm
<b>Width</b>	45 mm
<b>Depth</b>	65 mm
<b>Product weight</b>	0.145 kg

## Environment

<b>Standards</b>	IEC 60947 VDE 0660 BS 4941 NF C 63-650
<b>Product certifications</b>	UL CSA UKCA
<b>Protective treatment</b>	TC conforming to IEC 60068 TC conforming to DIN 50016
<b>IP degree of protection</b>	IP2X conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-20...55 °C without derating conforming to IEC 60947 -30...60 °C with derating conforming to IEC 60947
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Operating altitude</b>	2000 m without derating
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Flame retardance</b>	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
<b>Mechanical robustness</b>	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

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.200 cm
<b>Package 1 Width</b>	4.800 cm
<b>Package 1 Length</b>	8.500 cm
<b>Package 1 Weight</b>	157.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	41
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm

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Package 2 Weight 6.855 kg

## Contractual warranty

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Warranty (in months) 18



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Total lifecycle Carbon footprint	6 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

### Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	E145d1bc-6ab6-4bb3-beeb-cb7d7952e3f6
EU RoHS Directive	<a href="#">Compliant</a>
REACH Regulation	<a href="#">Free of Substances of Very High Concern above the threshold</a>

### Use Longer




### Lifetime extension

Repair	No
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### Use Again



### Repack and remanufacture

Recyclability potential, in %	42
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

Product benefits / Features

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## TeSys K Thermal overload relays



### Reliable

With its integrated manual-automatic reset and simple installation, model LR2K thermal overload relays are very reliable and cover the whole range of motor ratings



### Optimized Protection

Designed to protect AC circuits and motors against overloads, is simple to select and install at an optimized budget



### Compact Power

They can be combined with TeSys k contactors to form an extremely compact starter.



Offer Marketing Illustration

Product benefits / Features

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### TeSys K Technical Benefits



The image shows a TeSys K motor starter, model LR2K0316, which is a compact, black, rectangular device. It features a control panel with a red 'STOP' button, a green 'START' button, and a 'TEST' button. The panel also has a 'STOP/RESET' button and a 'TeSys K' label. The device is equipped with four screw terminals at the bottom, labeled '17NO', '15NC', '16NO', and '15NC'. The top of the device has four copper-colored screw terminals for power connection. The device is set against a green circular background.

- Motor ratings up to 16 A
- Manual or automatic reset
- Prewiring kit available
- Remote electrical reset
- The devices can be combined with TeSys K contactors in a 45 mm wide space to form an extremely compact starter
- The perfect complement to circuit breaker to achieve the best protection: magnetic and thermal protection of a motor-starter
- Spring terminal and screw clamp connectors options are available
- Protection against motor overload, stalling, and loss of phase