

# Product data sheet

Specifications



## Differential thermal overload relays, TeSys K, 8 to 11.5 A, class 10A

LR2K0316

**Product availability: Stock - Normally stocked in distribution facility**

### 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 IEC 60947-4-1
Thermal protection adjustment range	8...11.5 A
[U <sub>i</sub> ] rated insulation voltage	Power circuit 690 V BS 4941 Power circuit 690 V IEC 60947 Power circuit 750 V VDE 0110 group C Power circuit 600 V 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 signalling circuit
[U <sub>e</sub> ] rated operational voltage	<= 690 V power circuit 690 V AC AC-15 signalling circuit 250 V DC DC-13 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 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 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 1 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.0005...0.004 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.0005...0.002 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end
<b>Tightening torque</b>	11.5 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 11.5 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm 11.5 lbf.in (1.3 N.m) screw clamp terminals pozidriv No 2
<b>Height</b>	2.3 in (58 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	2.6 in (65 mm)
<b>Net Weight</b>	0.320 lb(US) (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 IEC 60068 TC DIN 50016
<b>IP degree of protection</b>	IP2X conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-4...131 °F (-20...55 °C) without derating IEC 60947 -22...140 °F (-30...60 °C) with derating IEC 60947
<b>Ambient Air Temperature for Storage</b>	-40...158 °F (-40...70 °C)
<b>Operating altitude</b>	6561.68 ft (2000 m) without derating
<b>Fire resistance</b>	1562 °F (850 °C) 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 contact10 Gn for 11 ms IEC 60068-2-27 Shocks NC contact10 Gn for 11 ms IEC 60068-2-27 Vibrations NO contact2 Gn, 5...300 Hz IEC 60068-2-6 Vibrations NC contact2 Gn, 5...300 Hz IEC 60068-2-6

## Ordering and shipping details

<b>Category</b>	US10I1222324
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110230581
<b>Returnability</b>	Yes
<b>Country of origin</b>	CZ

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	2.83 in (7.200 cm)
<b>Package 1 Width</b>	1.89 in (4.800 cm)
<b>Package 1 Length</b>	3.35 in (8.500 cm)

<b>Package weight(Lbs)</b>	5.538 oz (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>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	15.113 lb(US) (6.855 kg)

## **Contractual warranty**

<b>Warranty</b>	18 months
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## 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

Carbon footprint (kg CO2 eq, Total Life cycle) 4

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Compliant

SCIP Number E145d1bc-6ab6-4bb3-beeb-cb7d7952e3f6

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING:** This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

WEEE  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 LR2K0316 motor starter, a compact black device with four screw terminals on top and four screw terminals on the front. It features a red 'TEST' button, a green 'STOP/RESET' button, and a blue 'TeSys K' button. The device is labeled with 'LR2K0316', 'Schneider Electric', and 'TeSys K'. The front terminals are labeled 'S1 NO', 'S2 NC', 'S3 NO', and 'S4 NC'.

- 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