# Product data sheet

Specifications

## Electronic thermal overload relay,TeSys Giga,125-500 A,class 5E-30E,push-in control connection

LR9G500

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

## Main

| | |
|---|---|
| **Range** | TeSys |
| **Product name** | TeSys LRG |
| **Product or Component Type** | Electronic thermal overload relay |
| **Device short name** | LR9G |
| **Relay application** | Motor protection |
| **Network type** | AC |
| **Thermal overload class** | Class 5E...30E IEC 60947-4-1 |
| **Thermal protection adjustment range** | 125…500 A |

## Complementary

| | |
|---|---|
| **Network Frequency** | 30...60 Hz<br>100 Hz |
| **Overvoltage category** | III |
| **Tripping threshold** | 1.125 +/- 0.07 In IEC 60947-4-1 |
| **Protection type** | Ground fault protection 0…1 s - alarm circuit IEC 60947-4-1<br>Ground fault protection 0…1 s - alarm circuit UL 60947-4-1<br>Phase loss 0…4 s - alarm circuit<br>Phase imbalance 0…5 s - alarm circuit IEC 60947-4-1<br>Phase imbalance 0…5 s - alarm circuit UL 60947-4-1 |
| **Local signalling** | LED<br>Trip indicator |
| **Contacts type and composition** | 1 NO + 1 NC |
| **[Ith] conventional free air thermal current** | 5 A |
| **[Uc] control circuit voltage** | 24...500 V AC 50/60 Hz<br>24...250 V DC |
| **[Ue] rated operational voltage** | 1000 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 8 kV |
| **Reset** | Automatic reset<br>Manual |
| **Mechanical durability** | 7000 cycles |
| **Surge withstand** | 4 kV |
| **Electromagnetic compatibility** | EMC immunity conforming to IEC 60947-4-1<br>Emission tests criteria A conforming to IEC 60947-4-1<br>Immunity to radiated radio-electrical interference - test level: 20 V/m conforming to EN/IEC 61000-4-3<br>Voltage dips and interruptions immunity test conforming to SEMI F47 |

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

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

| | |
|---|---|
| **Connections - terminals** | Power circuit: bar - busbar cross section: 32 x 10 mm<br>Power circuit: lugs-ring terminals 1 0.4 in² (240 mm²)<br>Control circuit: push-in 1 0.0003…0.004 in² (0.2…2.5 mm²) - cable stiffness: solid stranded without cable end<br>Control circuit: push-in 1 0.0004…0.004 in² (0.25…2.5 mm²) - cable stiffness: flexible with cable end<br>Control circuit: push-in 2 0.0008…0.002 in² (0.5…1.0 mm²) with cable end |
| **Tightening torque** | 35 N.m |
| **Mounting support** | Direct on contactor<br>Plate |
| **Standards** | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1<br>JIS C8201-5-1<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ<br>UL 60335-1 |
| **Product Certifications** | CB Scheme<br>CCC<br>cULus<br>UKCA<br>ATEX<br>EU-RO-MR by DNV-GL<br>EAC |

## Environment

| | |
|---|---|
| **IP degree of protection** | IP2X front face with shrouds IEC 60529<br>IP2X front face with shrouds VDE 0106 |
| **Protective treatment** | TH |
| **Ambient air temperature for operation** | -13…140 °F (-25…60 °C) |
| **Ambient Air Temperature for Storage** | -76…176 °F (-60…80 °C) |
| **Permissible ambient air temperature around the device** | -40…140 °F (-40…60 °C) at Uc |
| **Adjustment of dial setting** | -13…140 °F (-25…60 °C) |
| **Mechanical robustness** | Vibrations 5…300 Hz 6 gn contactor open<br>Shocks 15 gn 11 ms contactor closed |
| **Height** | 4.5 in (114 mm) |
| **Width** | 5.5 in (140 mm) |
| **Depth** | 5.5 in (140 mm) |
| **Net Weight** | 2.9 lb(US) (1.3 kg) |
| **color** | Dark grey |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US10I1222330 |
| **Discount Schedule** | 0I12 |
| **GTIN** | 3606481912565 |
| **Returnability** | Yes |
| **Country of origin** | CN |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |

| | |
|---|---|
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 7.283 in (18.500 cm) |
| **Package 1 Width** | 7.480 in (19.000 cm) |
| **Package 1 Length** | 9.449 in (24.000 cm) |
| **Package weight(Lbs)** | 4.639 lb(US) (2.104 kg) |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 2 |
| **Package 2 Height** | 11.811 in (30.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 10.434 lb(US) (4.733 kg) |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 16 |
| **Package 3 Height** | 29.528 in (75.000 cm) |
| **Package 3 Width** | 23.622 in (60.000 cm) |
| **Package 3 Length** | 31.496 in (80.000 cm) |
| **Package 3 Weight** | 101.113 lb(US) (45.864 kg) |

## 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) | 666 |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| EU RoHS Directive | Compliant with Exemptions |
| SCIP Number | 958748fb-37b2-4e37-985e-0763521c22ab |
| REACh Regulation | REACh Declaration |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Nickel (Metallic), which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| Halogen content performance | Halogen free plastic parts product |
| PVC free | Yes |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Circularity Profile | End of Life Information |
| 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

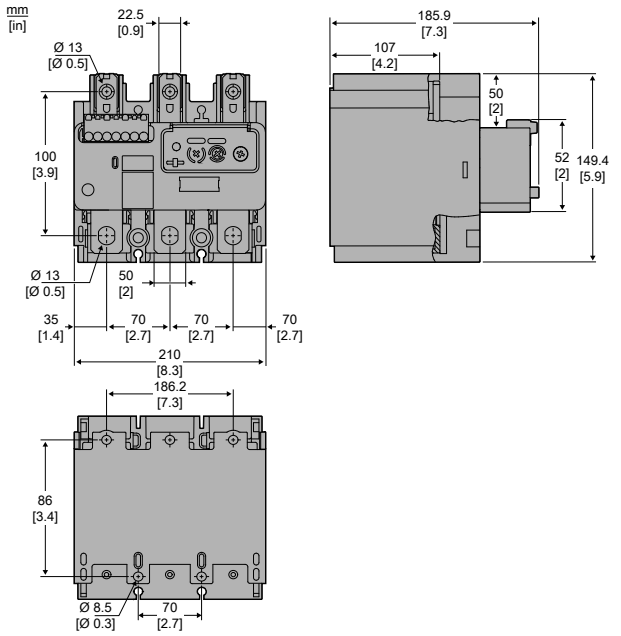
**Product benefits / Features**

Offer Marketing Illustration

**Product benefits / Features**

Offer Marketing Illustration

**Product benefits / Features**

Technical Illustration

## Assembly's dimensions