

# Product datasheet

Specifications



## Electronic thermal overload relay, TeSys Giga, 57...225 A, class 5E...30E, push-in control connection

LR9G225

EAN Code: 3606481912541

### 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 conforming to IEC 60947-4-1
Thermal protection adjustment range	57...225 A

### Complementary

Network frequency	30...60 Hz 100 Hz
Overvoltage category	III
Tripping threshold	1.125 +/- 0.07 In conforming to IEC 60947-4-1
Protection type	Ground fault protection - tripping time adjustment: 0...1 s - for alarm circuit conforming to IEC 60947-4-1 Ground fault protection - tripping time adjustment: 0...1 s - for alarm circuit conforming to UL 60947-4-1 Phase loss - tripping time adjustment: 0...4 s - for alarm circuit Phase imbalance - tripping time adjustment: 0...5 s - for alarm circuit conforming to IEC 60947-4-1 Phase imbalance - tripping time adjustment: 0...5 s - for alarm circuit conforming to UL 60947-4-1
Local signalling	LED 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 24...250 V DC
[Ue] rated operational voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Reset	Automatic reset Manual
Mechanical durability	7000 cycles
Surge withstand	4 kV

<b>Electromagnetic compatibility</b>	EMC immunity conforming to IEC 60947-4-1 Emission tests criteria A conforming to IEC 60947-4-1 Immunity to radiated radio-electrical interference - test level: 20 V/m conforming to EN/IEC 61000-4-3 Voltage dips and interruptions immunity test conforming to SEMI F47
<b>Connections - terminals</b>	Power circuit: bar - busbar cross section: 25 x 6 mm Power circuit: lugs-ring terminals 1 185 mm <sup>2</sup> Control circuit: push-in 1 0.2...2.5 mm <sup>2</sup> - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: push-in 2 0.5...1.0 mm <sup>2</sup> with cable end
<b>Tightening torque</b>	18 N.m
<b>Mounting support</b>	Direct on contactor Plate
<b>Standards</b>	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 JIS C8201-5-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ UL 60335-1
<b>Product certifications</b>	CB Scheme CCC cULus UKCA ATEX EU-RO-MR by DNV-GL EAC

## Environment

<b>IP degree of protection</b>	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-25...60 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	-40...60 °C at U <sub>c</sub>
<b>Adjustment of dial setting</b>	-25...60 °C
<b>Mechanical robustness</b>	Vibrations 5...300 Hz 6 gn contactor open Shocks 15 gn 11 ms contactor closed
<b>Height</b>	107 mm
<b>Width</b>	105 mm
<b>Depth</b>	126 mm
<b>Net weight</b>	0.9 kg
<b>Colour</b>	Dark grey

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	17.000 cm
<b>Package 1 Width</b>	20.000 cm
<b>Package 1 Length</b>	21.000 cm

<b>Package 1 Weight</b>	1.406 kg
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	2
<b>Package 2 Height</b>	30.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	3.363 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	16
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm
<b>Package 3 Weight</b>	35.624 kg

## Contractual warranty

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

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information [Yes](#)

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)

Installation

## Installation Videos

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[TeSys Giga - How to directly mount LR9G overload relay](#)

Offer Marketing Illustration

Product benefits / Features

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## TeSys Giga Electronic Thermal Overload Relays



### Operation and maintenance

Self-diagnostic indicators and full-scale protection that helps speed-up corrections and prevent downtime



### Full-scale protection

Enhances equipment reliability and robustness by up to 90%, while full-scale protection reduces recovery time after a trip by 50%.



### Simpler connection

Modular design that simplifies machine integration and maintenance



Offer Marketing Illustration

Product benefits / Features

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TeSys Giga Electronic Thermal Overload Relays  
Range Accessories

Mounting base

Front protection cover

Remote electrical stop

Mechanical remote control

Terminal block

The image displays five accessories for the TeSys Giga Electronic Thermal Overload Relays. At the top left is a photograph of the main relay unit. Below it are five individual components: a grey mounting base, a black front protection cover, a black remote electrical stop, a mechanical remote control with a cable and connector, and a green terminal block with six terminals.

Offer Marketing Illustration

Product benefits / Features

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## TeSys Giga Electronic Thermal Overload Relays

### Technical Benefits



Rotary switch for phase imbalance, reset mode, ground fault, trip class selection, and 64 position rotary switch for enhanced  $I_r$  setting accuracy.

Tripping classes is selectable from class 5E to class 30E to suit different application needs from fast tripping, general purpose and high inertia loads.

It is available for manual and auto reset options and LED indicator for Motor ON and pre-trip alarm.

It provides phase imbalance, phase failure, in-built ground-fault and single-phase loads protections.