

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

Price*: 1,380.00 USD

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 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 Ground fault protection 0...1 s - alarm circuit UL 60947-4-1 Phase loss 0...4 s - alarm circuit Phase imbalance 0...5 s - alarm circuit IEC 60947-4-1 Phase imbalance 0...5 s - alarm circuit 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

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

Electromagnetic compatibility	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
Connections - terminals	Power circuit: bar - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 0.4 in ² (240 mm ²) Control circuit: push-in 1 0.0003...0.004 in ² (0.2...2.5 mm ²) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004...0.004 in ² (0.25...2.5 mm ²) - cable stiffness: flexible with cable end Control circuit: push-in 2 0.0008...0.002 in ² (0.5...1.0 mm ²) with cable end
Tightening torque	35 N.m
Mounting support	Direct on contactor Plate
Standards	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
Product Certifications	CB Scheme CCC cULus UKCA ATEX EU-RO-MR by DNV-GL EAC

Environment

IP degree of protection	IP2X front face with shrouds IEC 60529 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 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	3.42 lb(US) (1.55 kg)
color	Dark grey

Ordering and shipping details

Category	US10I1222330
Discount Schedule	0I12
GTIN	3606481912565
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	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 1 Weight	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)

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-CO₂ products.

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


[Learn more about Green Premium >](#)


[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](#)

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

Offer Marketing Illustration

Product benefits / Features

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



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, a small image shows three relays mounted on a grey base. The main image shows 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 labeled 0V, 1, 2, 3, 4, and 5.

Offer Marketing Illustration

Product benefits / Features

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.