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 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
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

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 Power circuit: lugs-ring terminals 1 0.4 in² (240 mm²) Control circuit: push-in 1 0.0003…0.004 in² (0.2…2.5 mm²) - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.0004…0.004 in² (0.25…2.5 mm²) - cable stiffness: flexible with cable end 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 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)
Product 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)

Contractual warranty

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	**666 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**19 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.3 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**643 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**3 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**958748fb-37b2-4e37-985e-0763521c22ab**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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 Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**42**
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

