

Product data sheet

Specifications



Thermal overload relay, electronic, TeSys Giga, 160A to 630A, Class 5E to 30E, push-in control connection

LR9G630

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	160...630 A

Complementary

Network Frequency	30...60 Hz 100 Hz
Oversupply 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
[Uiimp] 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.

Connections - terminals	Power circuit: bar - busbar cross section: 50 x 10 mm Power circuit: lugs-ring terminals 1 0.5 in ² (300 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	58 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	5.8 in (148 mm)
Width	8.3 in (211 mm)
Depth	7.3 in (186 mm)
Net Weight	6.4 lb(US) (2.9 kg)
color	Dark grey

Ordering and shipping details

Category	US101222330
Discount Schedule	0112
GTIN	3606481912589
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	11.811 in (30.000 cm)
Package 1 Width	11.811 in (30.000 cm)
Package 1 Length	15.748 in (40.000 cm)
Package weight(Lbs)	10.009 lb(US) (4.540 kg)

Contractual warranty

Warranty (in months)	18
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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)	1052
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



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.

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

Technical Illustration

Assembly's dimensions

