

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

LR9G500

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 5E30E conforming to IEC 60947-4-1	
Thermal protection adjustment range	125500 A	

Complementary

Network frequency	3060 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: 01 s - for alarm circuit conforming to IEC 60947-4-1 Ground fault protection - tripping time adjustment: 01 s - for alarm circuit conforming to UL 60947-4-1 Phase loss - tripping time adjustment: 04 s - for alarm circuit Phase imbalance - tripping time adjustment: 05 s - for alarm circuit conforming to IEC 60947-4-1 Phase imbalance - tripping time adjustment: 05 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	24500 V AC 50/60 Hz 24250 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	
Connections - terminals	Power circuit: bar - busbar cross section: 32 x 10 mm Power circuit: lugs-ring terminals 1 240 mm² Control circuit: push-in 1 0.22.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.252.5 mm² - cable stiffness: flexible with cable end Control circuit: push-in 2 0.51.0 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 conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106	
Protective treatment	тн	
Ambient air temperature for operation	-2560 °C	
Ambient air temperature for storage	-6080 °C	
Permissible ambient air temperature around the device	-4060 °C at Uc	
Adjustment of dial setting	-2560 °C	
Mechanical robustness	Vibrations 5300 Hz 6 gn contactor open Shocks 15 gn 11 ms contactor closed	
Height	114 mm	
Width	140 mm	
Depth	140 mm	
Net weight	1.3 kg	
Colour	Dark grey	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	18.500 cm
Package 1 Width	19.000 cm
Package 1 Length	24.000 cm

Package 1 Weight	2.104 kg
Unit Type of Package 2	\$03
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.733 kg
Unit Type of Package 3	P06
Number of Units in Package 3	16
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	45.864 kg



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.eq.CO2 per CR, Total Life cycle)	46
Environmental Disclosure	Product Environmental Profile

Use Better

EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Halogen content performance	Halogen free plastic parts product
Take-back	No

Product datasheet

LR9G500

Installation

Installation Videos

TeSys Giga - How to directly mount LR9G overload relay