Product data sheet
Characteristics

LR9G500
Electronic thermal overload relay,TeSys Giga,125-500 A,class 5E-30E,push-in control connection



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	125…500 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 6 Ground fault protection - tripping time adjustment: 0…1 s - for alarm circuit conforming to UL 6 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 Phase imbalance - tripping time adjustment: 0…5 s - for alarm circuit conforming to UL 60947-
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 610 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 0.2…2.5 mm² - cable stiffness: solid stranded without cable end Control circuit: push-in 1 0.25…2.5 mm² - cable stiffness: flexible with cable end Control circuit: push-in 2 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[RETURN]CCC[RETURN]cULus[RETURN]UKCA[RETURN]ATEX[RETURN]EU-RO-M

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	TH
Ambient air temperature for operation	-25…60 °C
Ambient air temperature for storage	-60…80 °C
Permissible ambient air temperature around the device	-40…60 °C at Uc
Ambient air transport temperature	-25…60 °C
Mechanical robustness	Vibrations 5…300 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	S03
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

Offer Sustainability

Recyclability potential, in %	42
Total lifecycle Carbon footprint	666 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	19.33757027462725
Carbon footprint of the manufacturing phase [A1 to A3]	19 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.314994262737239
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.06621292612578662

Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	643.0767926832283
Carbon footprint of the use phase [B2, B3, B4, B6]	643 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	3.098177402435826
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	666
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	958748fb-37b2-4e37-985e-0763521c22ab
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel (Metallic), which is kno
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised