Product data sheet
Characteristics

LRE12
Thermal overload relay,Easy TeSys Protect,5.5-8A,class 10A,for LC1E09-38



Main

Range	Easy TeSys
Range of product	Easy TeSys Protect
Product or component type	Differential thermal overload relay
Device short name	LRE
Relay application	Motor protection
Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0 conforming to IEC 60947-4-1
Colour	Grey (RAL 7011)

Complementary

Product compatibility	LC1E09...38
Network type	AC
Network frequency	50...60 Hz
Mounting support	Under contactor Plate, with specific accessories Rail, with specific accessories
Thermal overload class	Class 10A conforming to IEC 60947-4-1
Signalling function	Relay trip indicator
Thermal protection adjustment range	5.5…8 A
Tripping threshold	1.14 +/- 0.06 Ir conforming to IEC 60947-4-1
Mechanical robustness	Shocks: 6 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 3 GN conforming to IEC 60068-2-6
Auxiliary contact composition	1 NO + 1 NC
[Ith] conventional free air thermal current	5 A for signalling circuit
[Ue] rated operational voltage	<= 690 V AC
Associated fuse rating	20 A gG for power circuit 12 A aM for power circuit 5 A gG for signalling circuit
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 KV
Local signalling	Trip indicator
Control type	Push-button red stop: Push-button green reset:
Temperature compensation	-20…60 °C
Connections - terminals	Power circuit: screw clamp terminals 1 1.5…6 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1…6 mm² - cable stiffness: solid without cable end Signalling circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible without cable e Signalling circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Signalling circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals Signalling circuit: 1.7 N.m - on screw clamp terminals

Height	44.5 Mm
Width	45 Mm
Depth	70 Mm
Net weight	0.13 Kg

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-4-1 GB/T 14048.1 GB/T 14048.5 GB/T 14048.4 EN/IEC 60335-1:Clause 30.2 EN/IEC 60335-2-40:Annex JJ
Product certifications	CB Scheme[RETURN]CCC[RETURN]CE[RETURN]EAC
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20…60 °C without derating conforming to IEC 60947-4-1 -20…70 °C with derating
Ambient air temperature for storage	-60…80 °C
Fire resistance	850 °C conforming to IEC 60068-2-1
Dielectric strength	6 KV at 50 Hz conforming to IEC 60255-5
Electromagnetic compatibility	Surge withstand: 6 kV conforming to IEC 60801-5

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.300 Cm
Package 1 Width	8.000 Cm
Package 1 Length	8.200 Cm
Package 1 Weight	146.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	33
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	5.170 Kg

Offer Sustainability

Recyclability potential, in %	53
Total lifecycle Carbon footprint	42 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.9236964285714286
Carbon footprint of the manufacturing phase [A1 to A3]	0.9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.016999821428571427
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.02535232142857143
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	40.998000000000005
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	41 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.2998511904761905
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	42

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
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