Product datasheet

Specifications

Thermal overload relay, TeSys Deca, 690VAC, 62 to 80A, 1NO+1NC, class 10A, EverLink BTR screw

LRD380

Main

Range	TeSys TeSys Deca
Product name	TeSys LRD TeSys Deca
product or component type	Differential thermal overload relay
Device short name	LRD
relay application	Motor protection
Product compatibility	LC1D80A
Network type	AC DC
Thermal overload class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	62…80 A
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to UL 60947-4-1 Power circuit: 600 V conforming to CSA C22.2 No 14

Complementary

Network frequency	0...400 Hz
Mounting support	Plate, with terminal block LAD96560 on top Rail, with terminal block LAD96560 on top Direct mounting under contactor
Tripping threshold	1.14 +/- 0.06 Ir conforming to IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[Ith] conventional free air thermal current	5 A for signalling circuit
Permissible current	0.95 A at 380 V AC-15 for signalling circuit 0.06 A at 440 V DC-13 for signalling circuit
[Ue] rated operational voltage	690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1
Associated fuse rating	4 A gG for signalling circuit 4 A BS for signalling circuit
[Uimp] rated impulse withstand voltage	6 kV
Power dissipation per pole	4.8 W
Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0
Control type	Red push-button: stop Blue push-button: reset
Temperature compensation	-20…60 °C

Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible with cable end
	Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible with cable end
	Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² solid
	Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² solid
	Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible
	Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible
	Power circuit: direct terminal link on top
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 25 mm²
	Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 35 mm²
Height	70 mm
Width	55 mm
Depth	123 mm
net weight	0.375 kg
Colour	Grey (SE GREY 6)

Environment

Climatic withstand	conforming to IACS E10
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
Ambient air temperature for storage	-60…70 °C
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7
	Vibrations: 3 GN conforming to IEC 60068-2-6
Dielectric strength	1.89 kV at 50 Hz conforming to IEC 60947-1
Standards	EN/IEC 60947-4-1
	EN/IEC 60947-5-1
	UL 60947-4-1
	UL 60947-5-1
	CSA C22.2 No 60947-4-1
	CSA C22.2 No 60947-5-1
	GB/T 14048.4
	GB/T 14048.5
Product certifications	IEC
	UL
	CSA
	CCC
	EAC
	DNV-GL
	RMRS
	EU-RO MR
	UKCA

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.000 cm
Package 1 Width	10.500 cm
Package 1 Length	13.500 cm
Package 1 Weight	392.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	13

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Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.383 kg

Contractual warranty

Warranty	18 months

Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

Guide to assess a product's sustainability ⟩

Sustainable Packaging   Transparency   RoHS/REACh

Resource performance

✅ Sustainable Packaging

Well-being performance

✅ Reach Free Of Svhc

✅ Toxic Heavy Metal Free

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Certifications & Standards

Reach Regulation   REACh Declaration

Eu Rohs Directive   Compliant

                                          EU RoHS Declaration

China Rohs Regulation   China RoHS declaration

                                          Pro-active China RoHS declaration (out of China RoHS legal scope)

Environmental Disclosure   Product Environmental Profile

Circularity Profile   End of Life Information