

Product data sheet

Specifications



Thermal overload relay, TeSys Deca,
48-65A, 1NO+1NC, class
10A, EverLink springs

LRD3653

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	LC1D65A LC1D50A
Network type	DC AC
Thermal overload class	Class 10A IEC 60947-4-1
Thermal protection adjustment range	48...65 A
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V IEC 60947-4-1

Complementary

Network frequency	0...400 Hz
Mounting support	Plate, with specific accessories Rail, with specific accessories Under contactor
Tripping threshold	1.14 +/- 0.06 Ir IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[Ith] conventional free air thermal current	5 A signalling circuit
Permissible current	0.95 A 380 V AC-15 signalling circuit 0.06 A 440 V DC-13 signalling circuit
[Ue] rated operational voltage	690 V AC 0...400 Hz power circuit 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
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	-4...140 °F (-20...60 °C)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Connections - terminals	Power circuit EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) flexible without cable end Power circuit EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) flexible with cable end Power circuit EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) solid without cable end Control circuit spring terminals 1 0.002...0.004 in² (1...2.5 mm²) solid without cable end Control circuit spring terminals 1 0.002...0.004 in² (1...2.5 mm²) flexible without cable end
Tightening torque	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors
Height	2.8 in (70 mm)
Width	2.2 in (55 mm)
Depth	4.8 in (123 mm)
Net weight	0.827 lb(US) (0.375 kg)

Environment

Climatic withstand	IACS E10
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-4...140 °F (-20...60 °C) without derating IEC 60947-4-1
Ambient air temperature for storage	-76...158 °F (-60...70 °C)
Flame retardance	V1 UL 94
Mechanical robustness	Shocks15 Gn for 11 ms IEC 60068-2-7 Vibrations4 gn IEC 60068-2-6
Dielectric strength	1.89 kV 50 Hz 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 EN 50495
Product certifications	IEC UL CSA CCC EAC DNV-GL RMRS EU-RO MR LROS (Lloyds register of shipping) ATEX INERIS UKCA

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.6 in (6.5 cm)
Package 1 Width	4.3 in (11.0 cm)
Package 1 Length	5.5 in (14.0 cm)
Package 1 Weight	14.3 oz (405.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	13

Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	13.276 lb(US) (6.022 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

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

Total lifecycle Carbon footprint	4 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.5 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

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

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	27
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

TeSys Deca
Thermal Overload Relays



Easy application

Selectable manual, remote or auto reset tripping options for better process management.



Simple to install

Self-powering eliminates the need for an external power supply.



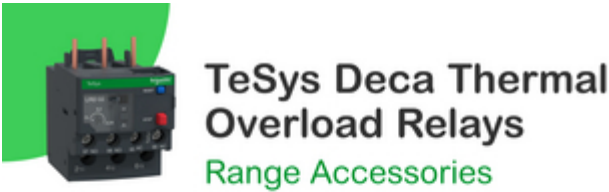
Compatibility

Can be combined with TeSys Deca contactors to form an extremely compact starter



Offer Marketing Illustration

Product benefits / Features



Terminal block



Electrical remote stop



Mechanical remote control



Pre-wiring kit



Manual overload reset push-button