



### Main

range	TeSys
product name	TeSys LRD
product or component type	Non differential thermal overload relay
device short name	LR3D
relay application	Motor protection
product compatibility	LC1D65A LC1D50A
network type	AC DC
overload tripping class	Class 10A conforming to IEC 60947-4-1
thermal protection adjustment range	48...65 A
[Ui] rated insulation voltage	690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 600 V power circuit conforming to CSA

### Complementary

network frequency	0...400 Hz
mounting support	Under contactor Rail with specific accessories Plate with specific accessories
tripping threshold	1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1
[I <sub>th</sub> ] conventional free air thermal current	5 A &#xA0;&#xA0;for&#xA0; Signalling circuit
permissible current	0.06 A at 440 V DC-13 for signalling circuit 0.95 A at 380 V AC-15 for signalling circuit
[U <sub>e</sub> ] rated operational voltage	690 V AC 0...400 Hz
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
phase failure sensitivity	Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0
control type	Blue push-button for reset mode Red push-button stop
temperature compensation	-20...60 °C
connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end
tightening torque	Control circuit : 1.7 N.m - on screw clamp terminals Power circuit : 5 N.m - on EverLink BTR screw connectors
height	70 mm
width	55 mm
depth	123 mm
product weight	0.375 kg
compatibility code	LR3D

## Environment

standards	UL 508 ATEX D 94/9/CE IEC 60947-5-1 CSA C22.2 No 14 IEC 60947-4-1 EN 60947-4-1 EN 60947-5-1
product certifications	UL ATEX INERIS DNV LROS CSA GL GOST BV RINA CCC
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
ambient air temperature for storage	-60...70 °C
fire resistance	850 °C conforming to IEC 60695-2-1
flame retardance	V1 conforming to UL 94
mechanical robustness	Vibrations 4 gn IEC 60068-2-6 Shocks 15 Gn for 11 ms IEC 60068-2-7
dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5

## Contractual warranty

Warranty period	18 months
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