# Product datasheet Characteristics

# LR9D5569

TeSys LRD thermal overload relays - 90...150 A - class 20



#### Main

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Range	TeSys
Product name	TeSys LRD
Product or component type	Electronic thermal overload relay
Device short name	LR9D
Relay application	Motor protection
Product compatibility	NSX circuit breaker LC1D150 LC1D115
Network type	AC
Overload tripping class	Class 20 conforming to IEC 60947-4-1
Signalling function	Alarm
Thermal protection adjustment range	90150 A
[Ui] rated insulation voltage	1000 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to CSA 600 V power circuit conforming to UL

## Complementary

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Network frequency	5060 Hz	
[Us] rated supply voltage	24 V DC	†G
Supply voltage limits	1732 V	
Mounting support	Rail Under contactor	ritended
Tripping threshold	1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1 1.12 +/- 0.06 In de-energisation conforming to IEC 60947-4-1	is not
[lth] conventional free air thermal current	5 A for signalling circuit	mentaic
[Ue] rated operational voltage	690 V 5060 Hz	
Associated fuse rating	5 A gG for signalling circuit	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 61000-4-5	ا ق ق ق
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Phase failure sensitivity	Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1
Control type	Red push-button stop Blue push-button for reset mode
Temperature compensation	-2060 °C
Switching capacity in mA	0150 mA
Voltage drop	<= 2.5 V closed state
Connections - terminals	Power circuit: bars Control circuit: screw clamp terminals 1 cable(s) 0.51.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0.51.5 mm² - cable stiffness: flexible - without cable end Alarm circuit: screw clamp terminals 1 cable(s) 0.51.5 mm² - cable stiffness: flexible - without cable end
Tightening torque	Alarm circuit : 0.45 N.m - on screw clamp terminals Power circuit : 18 N.m - on bars screw : M8 Control circuit : 1.2 N.m - on screw clamp terminals
Depth	132 mm
Product weight	0.885 kg

## Environment

Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-2060 °C without derating conforming to IEC 60947-4-1
Ambient air temperature for storage	-6070 °C
Operating altitude	<= 2000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations 2 Gn, 5300 Hz IEC 60068-2-6 Shocks 13 Gn for 11 ms IEC 60068-2-7
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5
Standards	EN 60947-4-1 IEC 255-17 VDE 0660 IEC 255-8 IEC 60947-4-1
Product certifications	CSA 22-2 UL 508

#### Contractual warranty

Warranty period	18 months