



## SIRIUS 3RN2 Thermistor motor protection relay - the scalable solution for any application

### Product Migration Guide

Siemens launched a new product generation of Thermistor motor protection relays. The new SIRIUS 3RN2 devices provide decisive benefits in cases in which current-dependent protection using either a circuit breaker or an overload relay is not the perfect solution: In certain cases, overheating can occur without being detected by the thermal image in the circuit breaker/overload relay, for example in the case of heavy starting, operation with frequency converters or frequent switching, strong braking operations or restricted cooling.

### SIRIUS 3RN2 Thermistor motor protection relay – for protection against overheating

The 3RN2 thermistor motor protection relays provide a reliable protection against motor overheating by measuring the temperature at the hot points in the inside of the motor. They monitor the winding temperature of motors directly.

Features of the 3RN2 Thermistor motor protection relay	Benefits
Optimal protection thanks to direct measurement of the motor temperature	Reliable motor protection
With ATEX approval, even for hazardous areas. ATEX versions comply with SIL 1 according to EN 50495	Enhanced functional safety thanks, for example, to continual self-testing and monitoring for short circuits and open circuits
Low-cost version for bimetallic sensors	Inexpensive motor protection possible
Space-saving, uniform enclosure concept in titanium gray – 17.5 or 22.5 mm width available	More space in the control cabinet
Data matrix code with serial number	Customer can keep track of every device
Simple handling thanks to removable terminals	Device can be replaced without removing wiring. Wiring does not need to be retested when new device is installed.
Spring-type terminals (push-in) and removable terminals	Faster wiring installation, no retightening of screws
Reasons to change	
New product 3RN2	Former product 3RN1
New, uniform enclosure concept	Standard enclosure
Wide-range supply voltage reduces number of device variants. (Product variance has been reduced by 50%)	More variants, more stock required for 3RN1
Removable terminals and narrow width. Available with Spring-type terminals (push-in)	Fixed terminals, only screw-type terminals available

### SIRIUS 3RN2 for protecting motors even when conditions are tough

Useful Links:

[siemens.com/relays](https://www.siemens.com/relays)

[SIRIUS 3RN2 thermistor motor protection relays at RS online](#)