



Overload relay

Motor protection is a central task of electrical equipment for machinery. From cost-effective bimetal solutions to demanding full motor protection with cross-linkage - we offer the right solution for each application.



Bimetal relay - overload relay up to 630 A

Direct mounting on contactor saves mounting time +++ ATEX approval for the protection of EEx e motors up to 250 A +++ Comprehensive motor protection through phase failure sensitivity +++ Integrated test pushbutton facilitates high safety → Page 6/6

ZEB electronic overload relay - overload relay up to 1500 A

ATEX approval for protection of EEx e motors up to 1500 A +++ Adjustable tripping classes +++ Phase failure and unbalance protection +++ Optional earth fault detection +++ Additional current setting range (5:1) → Page 6/14



ZEV electronic overload relay - overload relay up to 820 A

Flexible mounting with Rogowski transformer +++ Simple parameterization reduces commissioning time +++ ATEX approval for protection of EEx e motors up to 820 A +++ Error messages in display shorten downtime +++ Adjustable tripping classes +++ Optional earth fault detection +++ Full motor protection through additional thermistor evaluation → Page 6/19

EMT6 thermistor overload relay for machine protection

Overload protection through direct evaluation of winding temperature +++ Quick detection of operating state through LED display +++ Suitable for overload monitoring of motors in EEx e range +++ Wide range power supply reduces amount of types → Page 6/24

Overload relays



Technical overview

Bimetal relay ZE, ZB, Z5	6/2
Overload relay ZW7	6/2
Electronic overload relays ZEB, ZEV	6/4
EMT6 thermistor overload relay for machine protection	6/4

Ordering

Bimetal relays for mini-contactor relays	6/6
Bimetal relays up to 150A	6/8
Bimetal relay greater than 150 A	6/12
Overload relays	6/12
Bimetal relay accessories	6/26
ZEB Electronic overload relay	6/14

Description

ZEV electronic overload relay	6/19
-------------------------------	------

Ordering

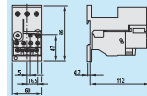
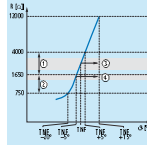
ZEV electronic overload relay	6/20
-------------------------------	------

Engineering

ZEV, ZEB electronic overload relays	6/22
-------------------------------------	------

Ordering

EMT6 thermistor overload relay for machine protection	6/24
---	------



Engineering

EMT6 thermistor overload relay for machine protection	6/25
Selection criteria ZE, ZB, Z5, ZW7	6/28
Characteristic curve ZB, Z5, ZW7	6/28
UL/CSA short-circuit strength ZE, ZB, Z5, ZEV	6/29

Technical data

Bimetal relay for mini-contactor relays	6/30
Bimetal relays up to 150A	6/30
Overload relays greater than 150 A	6/31
Overload relays	6/31
ZEB electronic overload relay	6/33
ZEV electronic overload relay	6/34
EMT6 thermistor overload relay for machine protection	6/36

Dimensions

Bimetal relays for mini-contactor relays	6/37
Bimetal relays up to 150A	6/37
Bimetal relays greater than 150 A	6/39
Overload relay	6/39
ZEB electronic overload relay	6/40
ZEV electronic overload relay	6/43
EMT6 thermistor overload relay for machine protection	6/42

