

# Overload relay

Motor protection is one of the most important tasks when machines are to be equipped electrically. You will find the correct solution for every application, from the price efficient bimetal solution up to the more demanding networked, full motor protection.



### Bimetal overload relays

Overload relays up to 630 A

- Saves mounting time due to direct mounting onto contactor
- ATEX approval for the protection of EEx e motors up to 250 A
- Single-phasing sensitivity offers wide-ranging motor protection
- Integrated Test button gives higher safety

Page 6/6



### ZEV electronic motor-protective relay

Overload relays up to 820 A

- Flexible mounting using Rogowski current transformers
- Simple parameterisation reduced commissioning time
- ATEX approval for the protection of EEx e motors
- Short downtime due to error messages in display
- Additional thermistor evaluation offers full motor protection

Page 6/12



### EMT6 thermistor machine protection relays

- Overload protection by direct evaluation of the winding temperature
- Fast recognition of operating state by LED display
- Suitable for overload monitoring of EEx e motors
- Reduced variants due to wide-range power supply

Page 6/16

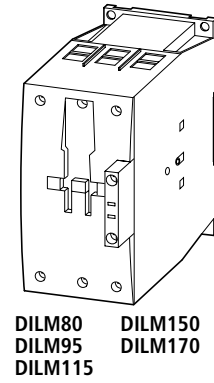
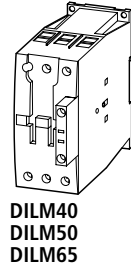


	Page
<b>Overload relays ZE, ZB, Z5, ZW7</b>	
Technical overview	6/2
Ordering	
Bimetal overload relays for mini contactors	6/4
Bimetal overload relays up to 150A	6/6
Bimetal overload relays greater than 150 A, CT-operated overload relays	6/11
Accessories	6/18
Engineering	
Selection data	6/19
Technical data:	
Bimetal overload relays up to 150A	6/20
Bimetal overload relays greater than 150 A, CT-operated overload relays	6/21
Dimensions	
Bimetal overload relays up to 150A	6/26
Bimetal overload relays greater than 150 A, CT-operated overload relays	6/28
<b>ZEV electronic motor-protective relay</b>	
Technical overview	6/2
Description	6/12
Ordering	
Basic devices	6/20
Accessories	6/21
Engineering	
Selection aids	6/13
Characteristic curves	6/13
Technical data	6/23
Dimensions	6/29
<b>EMT6 thermistor machine protection relays</b>	
Technical overview	6/2
Ordering	
Basic devices	6/16
Accessories	6/16
Technical data	6/25
Dimensions	6/28

Setting ranges (A)  
(Note max. current of  
the contactor)



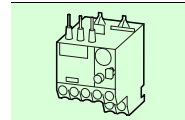
DILM15



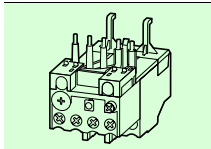
DILM150  
DILM170

Overload relays

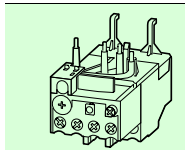
ZE



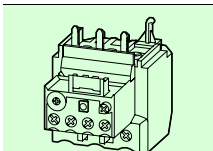
ZB12  
0.1 – 16



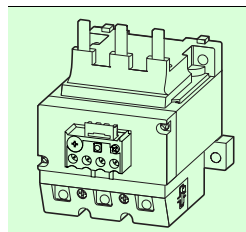
ZB32  
0.1 – 32



ZB65  
6 – 65



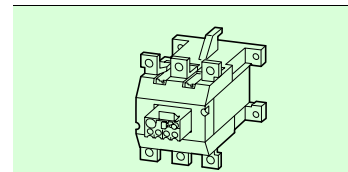
ZB150  
25-150



Z5-.../FF250  
50-250

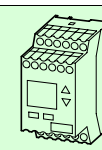
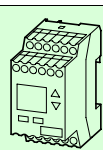
CT-operated overload relay

ZW7-...<sup>1)</sup>  
42 – 630



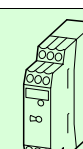
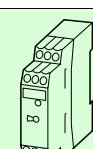
Electronic motor-protective relay

ZEV<sup>2)</sup>  
1 – 820



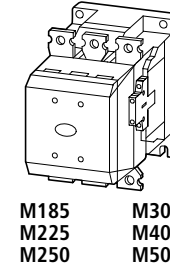
Thermistor machine protection overload relays

EMT6((DB)K)



Notes

- <sup>1)</sup> Can only be used up to DILM580
- <sup>2)</sup> Can only be used up to DILM820



M300  
M400  
M500

