

# 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

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### 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

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### 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

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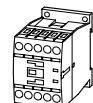


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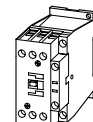
Setting ranges (A)  
(Note max. current of  
the contactor)



DILEM

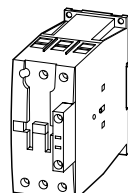


DILM7  
DILM9  
DILM12

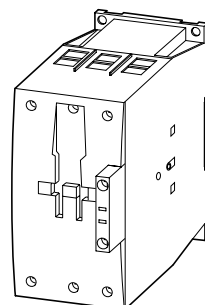


DILM15

DILM17  
DILM25  
DILM32



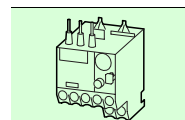
DILM40  
DILM50  
DILM65



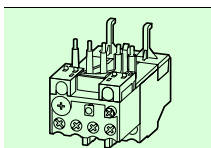
DILM80 DILM150  
DILM95 DILM170  
DILM115

Overload relays

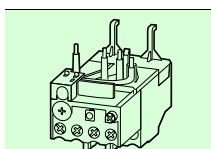
ZE



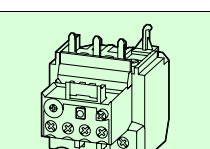
ZB12  
0.1 – 16



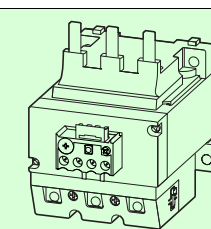
ZB32  
0.1 – 32



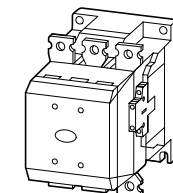
ZB65  
6 – 65



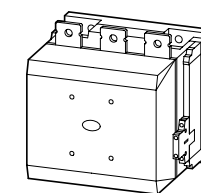
ZB150  
25-150



Z5-.../FF250  
50-250



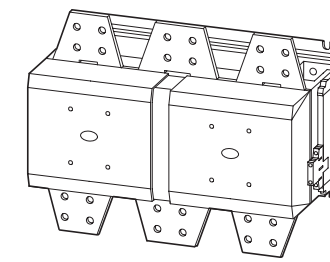
M185  
M225  
M250



M300  
M400  
M500

M580  
M650

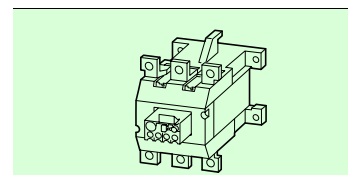
M750  
M820  
M1000



DILM1600

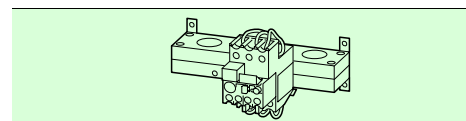
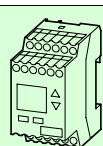
CT-operated overload relay

ZW7-...<sup>1)</sup>  
42 – 630



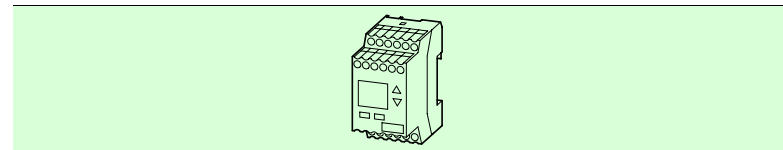
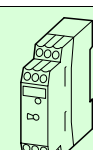
Electronic motor-protective relay

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

