



Electronic overload relay ZEB for applications from 0.3 A to 175 A

Nowadays, the standard practice for overload protection with motor applications is realized either by using motor-protective circuit-breakers with combined short-circuit and overload protection or with short-circuit protective devices in combination with overload relays. The current trend of overload protection with motor-protective circuit-breakers and overload relays is moving from bi-metal solutions to electronic solutions. Eaton has a new series for applications with overload relay in the electronic overload relay ZEB. With just 7 current ranges, they cover applications from 0.3 A to 175 A.

Using the electronic overload protection of the ZEB, the current setting range is extended to a ratio of 1:5 in comparison to the traditional bi-metal relay with a ratio of 1:1.6. The electronic overload relay ZEB is the first choice for industrial applications with additional setting options on the device and symmetric / asymmetric loads.



Features:

- Self-supplying electronics
- Reduced number of variants through wide-range overload protection in a ratio of 1:5
- Adjustable tripping classes (10A, 10, 20, 30) for varying starting conditions
- Integrated earth-fault detection without external accessories
- Adjustable single-phasing sensitivity for symmetric and asymmetric loads
- Diagnostics LED for visual overload early warning
- Status field for visual indication of tripping
- Automatic / manual release for fast process restart

Overload relay ZEB

Power [kW]	Contactor	For direct installation				For separate mounting			
		Without integrated earthfault detection	Part no.	With integrated earthfault detection	Part no.	Without integrated earthfault detection	Part no.	With integrated earthfault detection	Part no.
0,09	DILM7	ZEB12-1,65	136480	ZEB12-1,65-GF	136483	ZEB32-1,65/KK	136494	ZEB32-1,65-GF/KK	136498
0,12	DILM7	ZEB12-1,65	136480	ZEB12-1,65-GF	136483	ZEB32-1,65/KK	136494	ZEB32-1,65-GF/KK	136498
0,18	DILM7	ZEB12-1,65	136480	ZEB12-1,65-GF	136483	ZEB32-1,65/KK	136494	ZEB32-1,65-GF/KK	136498
0,25	DILM7	ZEB12-1,65	136480	ZEB12-1,65-GF	136483	ZEB32-1,65/KK	136494	ZEB32-1,65-GF/KK	136498
0,37	DILM7	ZEB12-1,65	136480	ZEB12-1,65-GF	136483	ZEB32-1,65/KK	136494	ZEB32-1,65-GF/KK	136498
0,55	DILM7	ZEB12-1,65	136480	ZEB12-1,65-GF	136483	ZEB32-1,65/KK	136494	ZEB32-1,65-GF/KK	136498
0,75	DILM7	ZEB12-5	136481	ZEB12-5-GF	136484	ZEB32-5/KK	136495	ZEB32-5-GF/KK	136499
1,1	DILM7	ZEB12-5	136481	ZEB12-5-GF	136484	ZEB32-5/KK	136495	ZEB32-5-GF/KK	136499
1,5	DILM7	ZEB12-5	136481	ZEB12-5-GF	136484	ZEB32-5/KK	136495	ZEB32-5-GF/KK	136499
2,2	DILM7	ZEB12-5	136481	ZEB12-5-GF	136484	ZEB32-5/KK	136495	ZEB32-5-GF/KK	136499
3	DILM7	ZEB12-20	136482	ZEB12-20-GF	136485	ZEB32-20/KK	136496	ZEB32-20-GF/KK	136500
4	DILM9	ZEB12-20	136482	ZEB12-20-GF	136485	ZEB32-20/KK	136496	ZEB32-20-GF/KK	136500
5,5	DILM12	ZEB12-20	136482	ZEB12-20-GF	136485	ZEB32-20/KK	136496	ZEB32-20-GF/KK	136500
7,5	DILM15	ZEB12-20	136482	ZEB12-20-GF	136485	ZEB32-20/KK	136496	ZEB32-20-GF/KK	136500
7,5	DILM17	ZEB32-20	136488	ZEB32-20-GF	136492	ZEB32-20/KK	136496	ZEB32-20-GF/KK	136500
11	DILM25	ZEB32-45	136489	ZEB32-45-GF	136493	ZEB32-45/KK	136497	ZEB32-45-GF/KK	136501
15	DILM32	ZEB32-45	136489	ZEB32-45-GF	136493	ZEB32-45/KK	136497	ZEB32-45-GF/KK	136501
18,5	DILM38	ZEB32-45	136489	ZEB32-45-GF	136493	ZEB32-45/KK	136497	ZEB32-45-GF/KK	136501
18,5	DILM40	ZEB65-45	136502	ZEB65-45-GF	136503	ZEB32-45/KK	136497	ZEB32-45-GF/KK	136501
22	DILM50	ZEB65-100	136504	ZEB65-100-GF	136505	ZEB150-100/KK	136508	ZEB150-100-GF/KK	136509
30	DILM65	ZEB65-100	136504	ZEB65-100-GF	136505	ZEB150-100/KK	136508	ZEB150-100-GF/KK	136509
37	DILM72	ZEB65-100	136504	ZEB65-100-GF	136505	ZEB150-100/KK	136508	ZEB150-100-GF/KK	136509
37	DILM80	ZEB150-100	136506	ZEB150-100-GF	136507	ZEB150-100/KK	136508	ZEB150-100-GF/KK	136509
45	DILM95	ZEB150-100	136506	ZEB150-100-GF	136507	ZEB150-100/KK	136508	ZEB150-100-GF/KK	136509
55	DILM115	ZEB150-175	164303	ZEB150-175-GF	164304	ZEB150-175/KK	164305	ZEB150-175-GF/KK	164306
75	DILM150	ZEB150-175	164303	ZEB150-175-GF	164304	ZEB150-175/KK	164305	ZEB150-175-GF/KK	164306
90	DILM170	ZEB150-175	164303	ZEB150-175-GF	164304	ZEB150-175/KK	164305	ZEB150-175-GF/KK	164306

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