

ZS - BRB930, 931A, 933A & 934A

Datasheet

D.C. Neutral line relay



Description

The relays covered by BRB930 are for general railway signalling purposes.

The relays covered by BRB931A are for use in line circuits where alternating current at industrial frequency may be present in the circuit.

The relays covered BRB933A are for use as DC repeater relays, having a delayed pick-up characteristic to bridge a gap due to loss of shunt or slow drop away of a track relay. These relays are suitable for use where alternating current at industrial frequency may be present in the circuit.

The relays covered by BRB934A are for use where a slow release, neutral line relay is required and alternating current at industrial frequency may be present in the circuit.

Mors Smitt Relays

- Modular plug in design
- Non weld contacts
- Silver and carbon impregnated with silver contact tips
- Proven reliability
- Low life cycle cost.

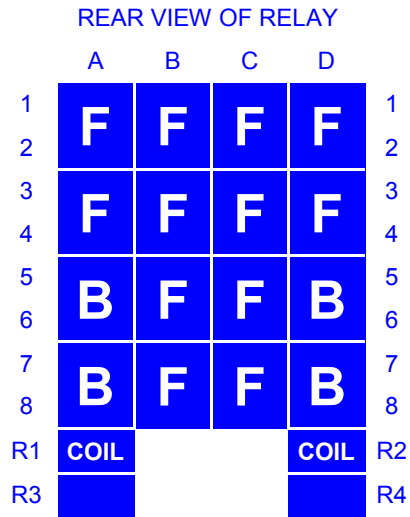
GEC Catalogue Number	Mors Smitt Catalogue Number	Reference	Rated Voltage	Contacts	Pin Code (Pins)	Network Rail Acceptance Number	Specification
ZS3512	TY082/GRP03	N	24 V D.C.	8F 4B	001 (A, B, C, D & E)	PA05/04802	BRB930
ZS3522	TY083/GRP02	NA	24 V D.C.	8F 4B	021 (A, B, D, F & H)	PA05/04802	BRB931A
ZS3531	TY085/GRP01	SPA	24 V D.C.	8F 4B	041 (A, B, D, E & J)	PA05/04802	BRB933A
ZS3542	TY086/GRP01	SRA	24 V DC	8F 4B	061 (A, D, E, F & J)	PA05/04802	BRB934A
ZS3612	TY082/GRP13	N	50 V D.C.	8F 4B	003 (A, B, C, E & F)	PA05/04802	BRB930
ZS3622	TY083/GRP07	NA	50 V D.C.	8F 4B	023 (A, B, E, F & H)	PA05/04802	BRB931A
ZS3631	TY085/GRP02	SPA	50 V D.C.	8F 4B	043 (A, B, D, G & J)	PA05/04802	BRB933A
ZS3642	TY086/GRP02	SRA	50 V D.C.	8F 4B	063 (A, D, E, H & J)	PA05/04802	BRB934A
ZS3651	TY085/GRP06	SPA	50 V D.C.	8F 4B	373 (A, C, D, E & M)	N/A	(BRB933A) [†]
ZS4512	TY082/GRP05	N	24 V D.C.	8F 8B	002 (A, B, C, D & F)	PA05/04802	BRB930
ZS4522	TY083/GRP03	NA	24 V D.C.	8F 8B	022 (A, B, D, G & H)	PA05/04802	BRB931A
ZS4612	TY082/GRP15	N	50 V D.C.	8F 8B	004 (A, B, D, E & F)	PA05/04802	BRB930
ZS4622	TY083/GRP08	NA	50 V D.C.	8F 8B	024 (A, B, E, G & H)	PA05/04802	BRB931A
ZS5512	TY082/GRP01	N	24 V D.C.	12F 4B	001 (A, B, C, D & E)	PA05/04802	BRB930
ZS5522	TY083/GRP01	NA	24 V D.C.	12F 4B	021 (A, B, D, F & H)	PA05/04802	BRB931A
ZS5612	TY082/GRP11	N	50 V D.C.	8F 8B	003 (A, B, C, E & F)	PA05/04802	BRB930
ZS5622	TY083/GRP06	NA	50 V D.C.	12F 4B	023 (A, B, E, F & H)	PA05/04802	BRB931A

NOTE:

[†] Specification in brackets where the relay is nominally to that specification but with specific characteristics modified to suit special applications.

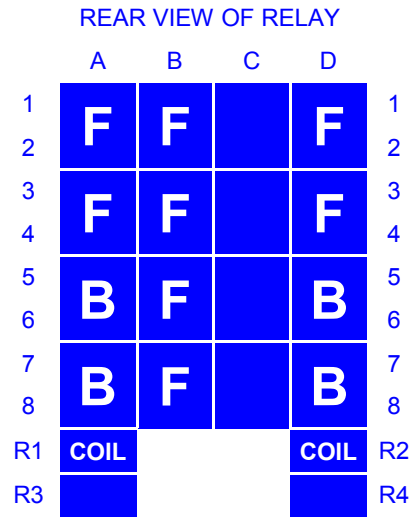
GEC Catalogue Number	Coil Resistance	Power Consumption	Full Operate	Operate Delay	Release	Full Release	Release Delay	Coil Interruption	Contact Rating	Contact Resistance	Weight
ZS3512											
ZS3522											
ZS4512	250 Ω	2.3 W	19.2 V	-	3.6 V	2.0 V	-	-	3 A	0.2 Ω	1.4 kg
ZS4522											
ZS5512											
ZS5522											
ZS3531	275 Ω	2.1 W	19.2 V	>400 ms + Release Delay	3.6 V	2.0 V	<200 ms	-	3 A	0.2 Ω	1.6 kg
ZS3542	250 Ω	2.3 W	19.2 V	-	3.6 V	2.0 V		250 ms ¹	3 A	0.2 Ω	1.5 kg
ZS3612											
ZS4612	925 Ω	2.7 W	40.0 V	-	7.5 V	4.0 V	-	-	3 A	0.2 Ω	1.4 kg
ZS5612											
ZS3622											
ZS4622	1000 Ω	2.5 W	40.0 V	-	7.5 V	4.0 V	-	-	3 A	0.2 Ω	1.4 kg
ZS5622											
ZS3631	1200 Ω	2.1 W	40.0 V	>400 ms + Release Delay	7.5 V	4.0 V	<200 ms	-	3 A	0.2 Ω	1.6 kg
ZS3642	1000 Ω	2.5 W	40 V		7.5 V	4.0 V		250 ms ¹	3 A	0.2 Ω	1.5 kg
ZS3651	1200 Ω	2.1 W	37.0- 40.0 V	>510ms	20.0 V	15.0 V	<200ms	-	3 A	0.2 Ω	1.6 kg

¹ @ 80 % of Rated Voltage.



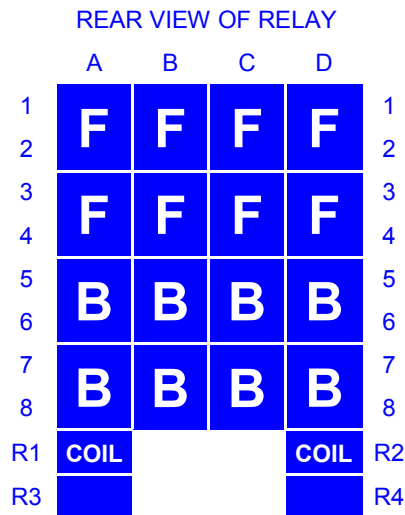
12F 4B

ZS5512, ZS5612, ZS5522 & ZS5622



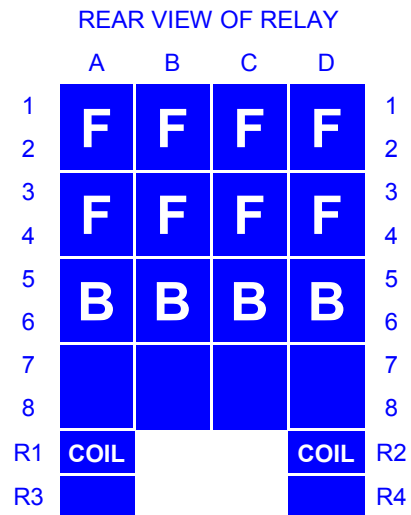
8F 4B

ZS3512, ZS3522, ZS3542, ZS3612,
ZS3622 & ZS3642



8F 8B

ZS4512, ZS4522, ZS4612 & ZS4622



8F 4B

ZS3531, ZS3631 & ZS3651

F = Front contact, which is made when the relay is energised. This is a normally open contact.

B = Back contact, which is made when the relay is de-energised and the armature has completed its maximum travel. This is a normally closed contact.





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