



# TY163/GRP01-06 - BRB946 - QRJ1 Datasheet

## D.C. Neutral time delay relays



#### **Description**

Relays covered by this data sheet are for applications where a greater time delay is required on release than can be achieved by slugging.

## **Mors Smitt Relays**

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



Mors Smitt Catalogue Number	Mors Smitt Reference (Westinghouse Reference)	Rated Voltage	Contacts	Pin Code (Pins)	Network Rail Acceptance Number	Specification
TY163/GRP01	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	232 (D, E, F, G, H)	PA05/04802	BRB946
TY163/GRP02	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	233 (D, E, F, G, J)	PA05/04802	BRB946
TY163/GRP03	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	234 (D, E, F, H, J)	PA05/04802	BRB946
TY163/GRP04	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	235 (D, E, G, H, J)	PA05/04802	BRB946
TY163/GRP05	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	236 (D, F, G, H, J)	PA05/04802	BRB946
TY163/GRP06	SRJ1 (N/A)	50 V D.C.	3F 1B	237 (D, E, F, G, K)	PA05/04802	(BRB946) <sup>†</sup>

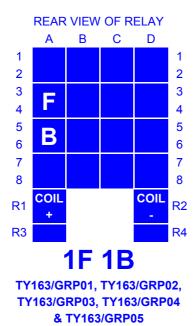
#### NOTE:

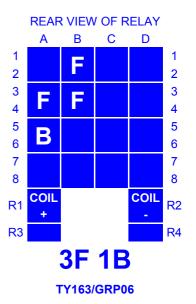
<sup>&</sup>lt;sup>†</sup> Specification in brackets where the relay is nominally to that specification but with specific characteristics modified to suit special applications.

Mors Smitt Catalogue Number	Release Delay Time @ Nominal Voltage ±5 %	Coil Resistance	Power Consumption	Full Operate	Release	Full Release	Contact Rating	Contact Resistance	Weight
TY163/GRP01	3 Sec	3600 Ω	0.25 W @ 30.0 V	19.2 V	3.6 V	2.0 V	3 A	0.2 Ω	1.0 kg
TY163/GRP02	5 Sec								
TY163/GRP03	6 Sec								
TY163/GRP04	7.5 Sec								
TY163/GRP05	10 Sec								
TY163/GRP06	10 Sec	3600 Ω	0.7 W	40.0 V	7.6 V	4.0 V	3 A	0.2 Ω	1.0 kg



#### **Contact Arrangements.**





**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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