

# 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

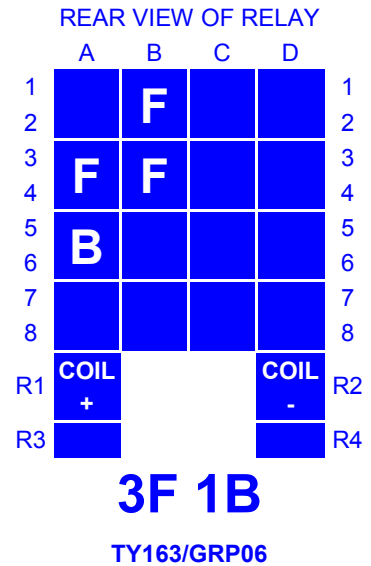
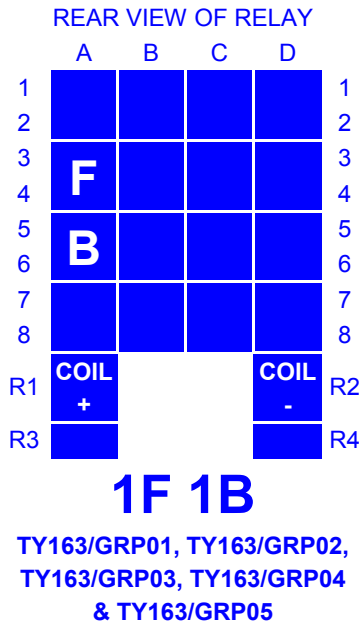
Mors Smitt Catalogue Number	Mors Smitt Reference (Westinghouse Reference)	Rated Voltage	Contacts	Pin Code (Pins)	Network Rail Acceptance Number	Specification
TY163/GRP01	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	232 (D, E, F, G, H)	PA05/04802	BRB946
TY163/GRP02	SRJ1 (QRJ1)	22-30 V D.C.	1F 1B	233 (D, E, F, G, J)	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> 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 $\pm 5\%$	Coil Resistance	Power Consumption	Full Operate	Release	Full Release	Contact Rating	Contact Resistance	Weight
TY163/GRP01	3 Sec	3600 $\Omega$	0.25 W @ 30.0 V	19.2 V	3.6 V	2.0 V	3 A	0.2 $\Omega$	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 $\Omega$	0.7 W	40.0 V	7.6 V	4.0 V	3 A	0.2 $\Omega$	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.



#### MS Relais SAS

Tour Rosny 2, Avenue du Général de Gaulle,  
F - 93118 Rosny-sous-Bois Cedex, FRANCE  
T +33 (0)1 4812 1440, F +33 (0)1 4855 9001  
E [sales@msrelais.com](mailto:sales@msrelais.com)

#### Mors Smitt Asia Ltd.

# 807, Billion Trade Centre, 31 Hung To Road  
Kwun Tong, Kowloon, HONG KONG SAR  
T +852 2343 5555, F +852 2343 6555  
E [info@morssmitt.hk](mailto:info@morssmitt.hk)

#### Nieaf-Smitt B.V.

Vrieslantlaan 6, 3526 AA Utrecht,  
NETHERLANDS  
T +31 (0)30 288 1311, F +31 (0)30 289 8816  
E [sales@nieaf-smitt.nl](mailto:sales@nieaf-smitt.nl)

#### Mors Smitt Technologies Inc.

420 Sackett Point Road  
North Haven, CT 06473, USA  
T +1 (203) 287 8858, F +1 (888) 287 8852  
E [mstechnologies@msrelais.com](mailto:mstechnologies@msrelais.com)

#### Mors Smitt UK Ltd.

Doulton Road, Cradley Heath  
West Midlands, B64 5QB, UK  
T +44 (0)1384 567 755, F +44 (0)1384 567 710  
E [info@morssmitt.co.uk](mailto:info@morssmitt.co.uk)