

TY082/GRP01-24 - BRB930 - QN1

Datasheet

D.C. Neutral line relay



Description

The relays covered by this data sheet are for general railway signalling purposes.

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 (Invensys Reference) | Rated Voltage | Contacts | Pin Code (Pins) | Network Rail Acceptance Number | Specification |
|-----------------------------|---|---------------|----------|-----------------------|--------------------------------|-----------------------|
| TY082/GRP01 | SN1 (QN1) | 24 V D.C. | 12F 4B | 001 (A, B, C, D & E) | PA05/04802 | BRB930 |
| TY082/GRP03 | SN1 (QN1) | 24 V D.C. | 8F 4B | 001 (A, B, C, D & E) | PA05/04802 | BRB930 |
| TY082/GRP05 | SN1 (QN1) | 24 V D.C. | 8F 8B | 002 (A, B, C, D & F) | PA05/04802 | BRB930 |
| TY082/GRP07 | SN1 (QN1) | 24 V D.C. | 6F 6B | 002 (A, B, C, D & F) | PA05/04802 | BRB930 |
| TY082/GRP09 | SN1 (QN1) | 24 V D.C. | 4F 4B | 002 (A, B, C, D & F) | PA05/04802 | BRB930 |
| TY082/GRP11 | SN1 (QN1) | 50 V D.C. | 12F 4B | 003 (A, B, C, E & F) | PA05/04802 | BRB930 |
| TY082/GRP13 | SN1 (QN1) | 50 V D.C. | 8F 4B | 003 (A, B, C, E & F) | PA05/04802 | BRB930 |
| TY082/GRP15 | SN1 (QN1) | 50 V D.C. | 8F 8B | 004 (A, B, D, E & F) | PA05/04802 | BRB930 |
| TY082/GRP17 | SN1 (QN1) | 50 V D.C. | 6F 6B | 004 (A, B, D, E & F) | PA05/04802 | BRB930 |
| TY082/GRP19 | SN1 (QN1) | 50 V D.C. | 4F 4B | 004 (A, B, D, E & F) | PA05/04802 | BRB930 |
| TY082/GRP24 | SN1 (N/A) | 24 V D.C. | 12F 4B | T002 (A, B, C, E & T) | N/A | (BRB930) [†] |

NOTE:

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

| Mors Smitt Catalogue Number | Coil Resistance | Power Consumption | Full Operate | Release | Full Release | Contact Rating | Contact Resistance | Weight |
|---|-----------------|-------------------|--------------|---------|--------------|----------------|--------------------|--------|
| TY082/GRP01 TY082/GRP03 TY082/GRP05 TY082/GRP07 TY082/GRP09 | 250 Ω | 2.3 W | 19.2 V | 3.6 V | 2.0 V | 3 A | 0.2 Ω | 1.4 kg |
| TY082/GRP24 | 575 Ω | 1.0 W | | | | | | |
| TY082/GRP11 TY082/GRP13 TY082/GRP15 TY082/GRP17 TY082/GRP19 | 925 Ω | 2.7 W | 40.0 V | 7.5 V | 4.0 V | 3 A | 0.2 Ω | |

REAR VIEW OF RELAY

| | A | B | C | D | |
|----|------|---|---|------|----|
| 1 | F | F | F | F | 1 |
| 2 | F | F | F | F | 2 |
| 3 | F | F | F | F | 3 |
| 4 | F | F | F | F | 4 |
| 5 | B | F | F | B | 5 |
| 6 | B | F | F | B | 6 |
| 7 | B | F | F | B | 7 |
| 8 | B | F | F | B | 8 |
| R1 | COIL | | | COIL | R2 |
| R3 | | | | | R4 |

12F 4B

TY082/GRP01, TY082/GRP11

REAR VIEW OF RELAY

| | A | B | C | D | |
|----|------|---|---|------|----|
| 1 | F | F | | F | 1 |
| 2 | F | F | | F | 2 |
| 3 | F | F | | F | 3 |
| 4 | F | F | | F | 4 |
| 5 | B | F | | B | 5 |
| 6 | B | F | | B | 6 |
| 7 | B | F | | B | 7 |
| 8 | B | F | | B | 8 |
| R1 | COIL | | | COIL | R2 |
| R3 | | | | | R4 |

8F 4B

TY082/GRP03 & TY082/GRP13

REAR VIEW OF RELAY

| | A | B | C | D | |
|----|------|---|---|------|----|
| 1 | F | F | F | F | 1 |
| 2 | F | F | F | F | 2 |
| 3 | F | F | F | F | 3 |
| 4 | F | F | F | F | 4 |
| 5 | B | B | B | B | 5 |
| 6 | B | B | B | B | 6 |
| 7 | B | B | B | B | 7 |
| 8 | B | B | B | B | 8 |
| R1 | COIL | | | COIL | R2 |
| R3 | | | | | R4 |

8F 8B

TY082/GRP05 & TY082/GRP15

REAR VIEW OF RELAY

| | A | B | C | D | |
|----|------|---|---|------|----|
| 1 | F | F | | F | 1 |
| 2 | F | F | | F | 2 |
| 3 | F | F | | F | 3 |
| 4 | F | F | | F | 4 |
| 5 | B | B | | B | 5 |
| 6 | B | B | | B | 6 |
| 7 | B | B | | B | 7 |
| 8 | B | B | | B | 8 |
| R1 | COIL | | | COIL | R2 |
| R3 | | | | | R4 |

6F 6B

TY082/GRP07 & TY082/GRP17

REAR VIEW OF RELAY

| | A | B | C | D | |
|----|------|---|---|------|----|
| 1 | F | | | F | 1 |
| 2 | F | | | F | 2 |
| 3 | F | | | F | 3 |
| 4 | F | | | F | 4 |
| 5 | B | | | B | 5 |
| 6 | B | | | B | 6 |
| 7 | B | | | B | 7 |
| 8 | B | | | B | 8 |
| R1 | COIL | | | COIL | R2 |
| R3 | | | | | R4 |

4F 4B

TY082/GRP09 & TY082/GRP19

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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