

# TY132/GRP02-04 & TY153/GRP07,09&12 - BRB941A & 948 - QECX

## Datasheet

### A.C. Lamp proving relay



### Description

The relays covered by this data sheet are designed as lamp proving relays for AC circuits where the relay is connected in series with the lamp.

### Mors Smitt UK Relays.

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

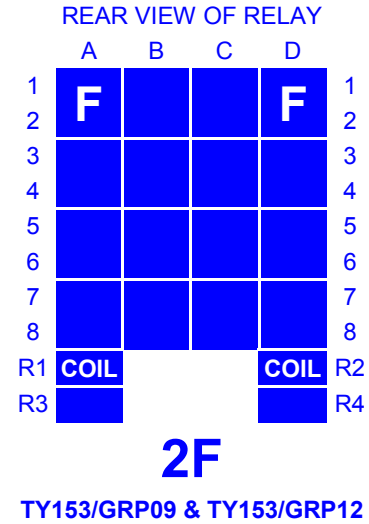
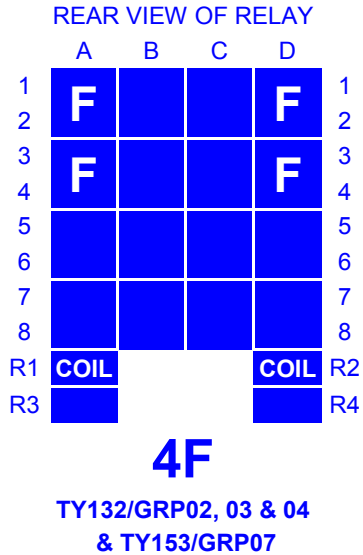
Mors Smitt Catalogue Number	Mors Smitt Reference (Westinghouse Reference)	Rated Current	Contacts	Pin Code (Pins)	Network Rail Acceptance Number	Specification
TY132/GRP02	SECX1 (QECX1)	400 mA A.C.	4F	071 (A, B, C, D, K)	PA05/04802	BRB941A
TY132/GRP03	SECX21 (QECX21)	400 mA A.C.	4F	286 (A, C, D, K, L)	N/A	BRB948
TY132/GRP04	SECX (N/A)	250 mA A.C.	4F	376 (A, C, D, H, M)	N/A	(BRB941A) <sup>†</sup>
TY153/GRP07	SECX19 (QECX19)	135 mA A.C.	4F	(A, D, F, K & S)	N/A	(BRB941A) <sup>†</sup>
TY153/GRP09	SECX16 (QECX16)	720 mA A.C.	2F	(A, C, E, K & S)	N/A	(BRB941A) <sup>†</sup>
TY153/GRP12	SECX (N/A)	200 mA A.C.	2F	T011 (A, B, C, H, T)	N/A	(BRB941A) <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	Coil Resistance	Full Operate	Full Release	Minimum Release Delay	Contact Rating	Contact Resistance	Weight
TY132/GRP02	31 Ω	180 mA	110 mA	100 ms @ 180 mA 200 ms @ 250 mA	3 A	0.2 Ω	1.3 kg
TY132/GRP03	31 Ω	200 mA	125 mA	100 ms @ 200 mA 200 ms @ 250 mA	3 A	0.2 Ω	1.3 kg
TY132/GRP04	56 Ω	100 mA	60 mA	200 ms @ 140mA	3A	0.2 Ω	1.3 kg
TY153/GRP07	16.7 Ω	135 mA	60 mA	100 ms @ 135 mA Coil Interrupt	3 A	0.2 Ω	2.0 kg
TY153/GRP09	1.3 Ω	400 mA	200 mA	100 ms @ 400 mA Coil Interrupt	3 A	0.2 Ω	2.0 kg
TY153/GRP12	45.5 Ω	80 mA	55 mA	100 ms @ 135 mA Coil Interrupt	3 A	0.2 Ω	2.0 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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