



Siemens.com/mobility

## QN1 Relay

A dc neutral, tractive armature, line relay

### General data

Contact Arrangement:	Various Refer overleaf
Nominal Rated Voltage:	12V, 24V & 50V dc
Typical Operate Time	150 ms
Typical Release Time	20 ms
Approximate Weight:	1.14kg

Note: Refer to the following data sheets:

- 7-1-1 for general information and contact ratings.
- 7-2-1 for dimensions.
- 8.2 for tools.
- 8.3 for plugboard and connector details.

Refer overleaf for specific data.



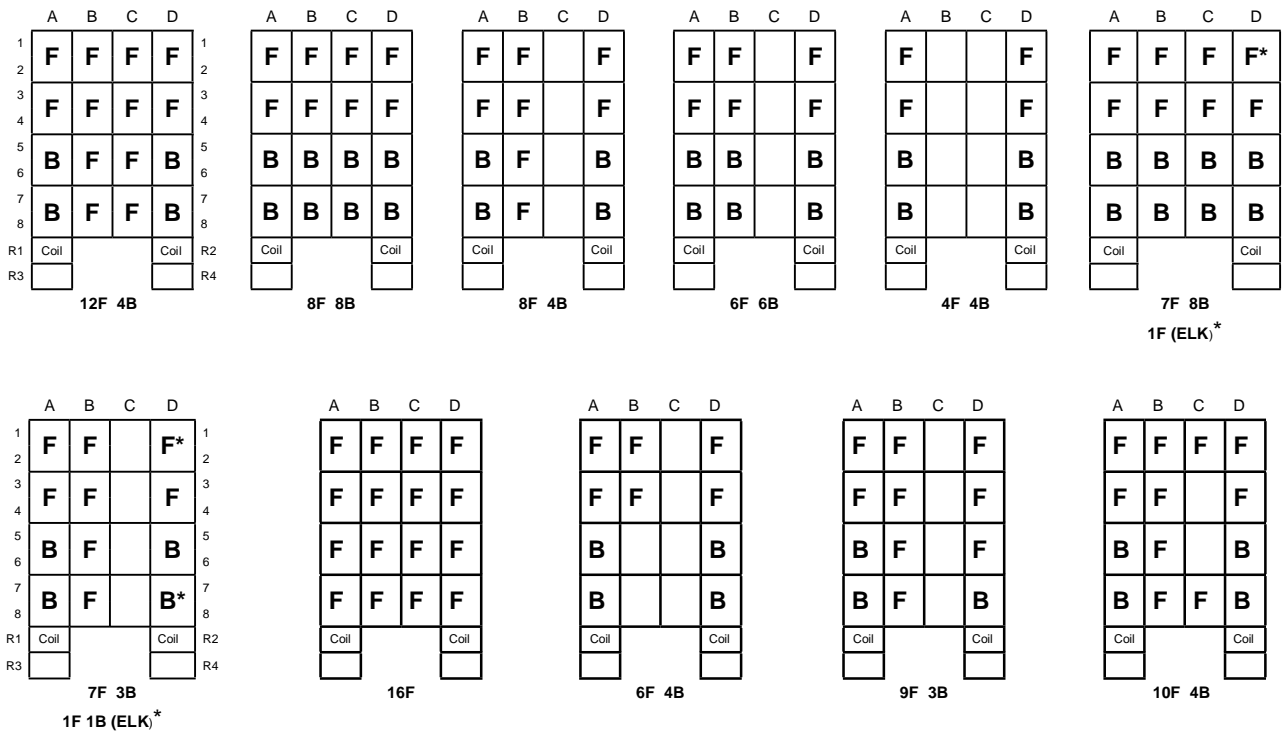
B18501/17 Variant

### Description

Designed primarily for use in railway signalling circuits, but can be used in other applications requiring a reliable safety relay. Typical applications include repeater, control and indication functions. The style QN1 forms the basis of the 'Q' range of relays.

The variations of this relay style are listed overleaf. Where a relay corresponds exactly to a type listed in a BR Spec., the Spec. No. is shown in the remarks column.

## Contact layout viewed from rear



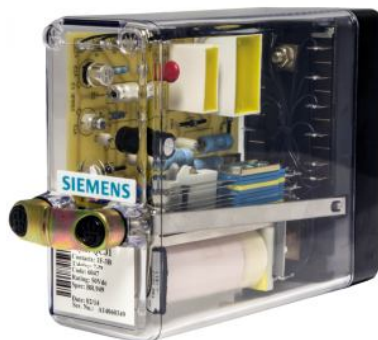
## Packaging

Q-Relays are packed in a carton holding ten relays; the same container is used for quantities of four to nine relays. Quantities less than four are packed individually in cardboard boxes, as are all train-carried relays. Each container has a bar-coded label affixed to the outside, stating details of the packaged relay(s) and the quantity therein.

## EMC Compliance

Q-Relays comply with the relevant emission requirements of EN 55014. It is considered that these relays have inherent immunity to in-service electromagnetic disturbance.

A Technical Certificate for EU Directive on EMC (89/336/EEC) has been obtained.



## Technical data

SIEMENS Part No. (PAD No.)	CONTACT ARRANGEMENT	RATED VOLTAGE (V dc)	PIN CODE	COIL RES (OHMS)	WDG SPEC 1/108/-	MAX FULL OP. (V dc)	MIN REL (V dc)	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	REMARKS
B18501/16 (085/000350)	12F 4B	24	001 ABCDE	350	114	19.2	3.6	J4138/1	34	BRB SPEC 930
B18501/17 (085/000370)	8F 8B	24	002 ABCDF	350	114	19.2	3.6	J4138/3	34	BRB SPEC 930
B18501/18 (085/000360)	8F 4B	24	001 ABCDE	350	113	19.2	3.6	J4138/2	26	BRB SPEC 930
B18501/19 (085/000380)	6F 6B	24	002 ABCDF	350	114	19.2	3.6	J4138/4	26	BRB SPEC 930
B18501/20 (085/000390)	4F 4B	24	002 ABCDF	350	113	19.2	3.6	J4138/5	18	BRB SPEC 930
B18501/21 (085/000410)	12F 4B	50	003 ABCEF	1500	112	40	7.5	J4138/6	34	BRB SPEC 930
B18501/22 (085/000430)	8F 8B	50	004 ABDEF	1500	112	40	7.5	J4138/8	34	BRB SPEC 930
B18501/23 (085/000420)	8F 4B	50	003 ABCEF	1500	111	40	7.5	J4138/7	26	BRB SPEC 930
B18501/24 (085/000440)	6F 6B	50	004 ABDEF	1500	112	40	7.5	J4138/9	26	BRB SPEC 930
B18501/25 (085/000450)	4F 4B	50	004 ABDEF	1500	111	40	7.5	J4138/10	18	BRB SPEC 930
B18501/26	7F 8B 1F (ELK)	50	ACHKX	1500	112	40	7.5	J4138/184	34	
B18501/27	8F 8B	12	ABCFX	100	116	9.6	1.8	J4138/62	34	
B18501/28	8F 4B	12	ACFJX	100	115	9.6	1.8	J4138/152	26	
B18501/29	7F 3B 1F 1B (ELK)	50	ADEKX	1500	111	40	7.5	J4138/187	26	
B18501/30	4F 4B	12	ABHJX	100	19	9.6	1.8	J4138/90	18	
B18501/31	8F 8B	24	002 ABCDF	350	114	19.0	7.0	J4138/3	34	
B18501/32	16F	12	ADGKX	100	115	9.6	1.8	J4138/203	34	
B18501/33	8F 4B	12	279 ABHKL	100	115	9.6	1.8	J4138/212	26	
B18501/34 (088/030512)	8F 8B	12	112 ADFHK	100	116	9.6	1.8	J4138/236	34	
B18501/36	6F 4B	4	CEHKX	20	132	4.0		J4138/320	22	
B18501/37	9F 3B	12	DEGJX	140	147	9.0	4.5	J4138/347	26	
B18501/38	10F 4B	24	EGJKX	600	156	19.2	11.0	J4138/359	30	
B18501/40	12F 4B	12	ACFJX	110	197	9.6	1.8	J4138/441	34	
B18501/41	8F 8B	24	BDEGX	250	198	74 mAdc	45mAdc	J4138/442	34	



Un-drilled plugboard  
Part No. E7218/1

Representation of Relay,  
Plugboard and Retaining clip  
(Clip Part No. J4136/1)

