

Siemens.com/mobility

## QBTA1 Relay

An ac immune, dc biased, tractive armature, track relay

### General data

Contact Arrangement:	2F
Nominal Rated Voltage:	1.75 V dc
Minimum Percentage Release:	68%
Approximate Weight:	1.7 kg

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.



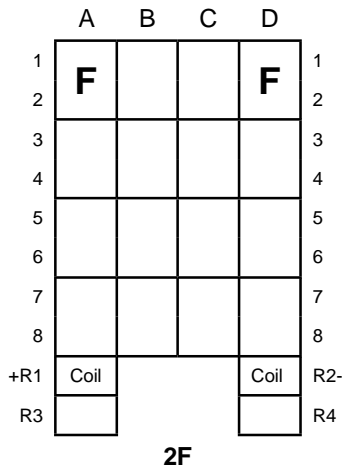
Typical Single Coil Relay

### Description

Designed for use where 50 Hz codes are superimposed and reverse dc polarity must not cause the relay to operate. The level of ac immunity is insufficient to use in 50 Hz traction applications.

Application of reverse dc voltage up to 30 V will not operate the relay. When energised at 0.21 A dc., the relay will not release when up to 75 V ac, 50 Hz is applied. Front contacts will not close when up to 150 V ac 50 Hz is applied.

## 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 electro-magnetic disturbance.

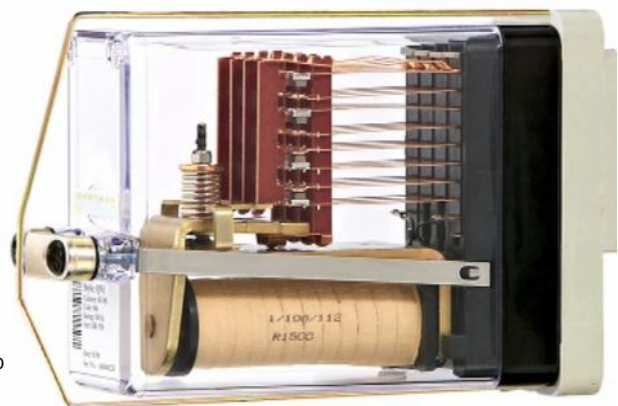
A Technical Certificate for EU Directive on EMC (89/336/EEC) has been obtained.

## 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. (mA)	MIN REL (mA)	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	REMARKS
B18569/1	2F	1.75	SACFG	9	103	175 MAX OP 140	120	J4138/388	6	



Un-drilled plugboard  
Part No. E7218/1



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

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Data Sheet 7-2-10

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# SIEMENS

The information within this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.