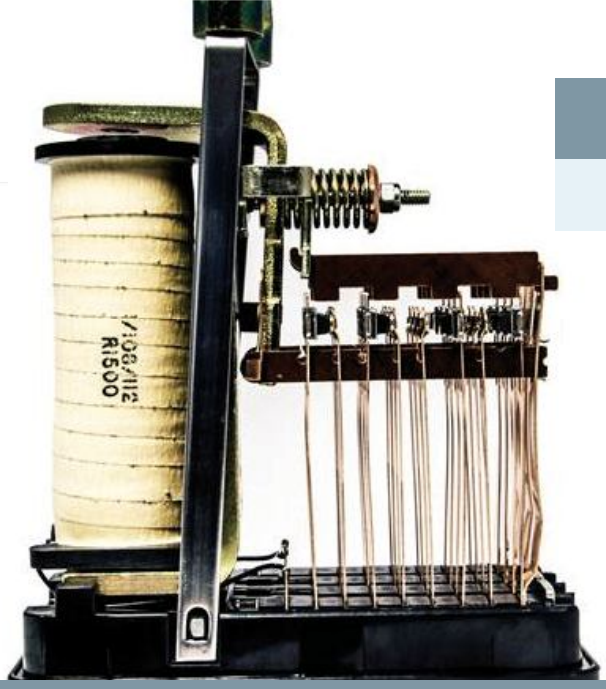
SIEMENS



Relay Solutions

BR 930 SERIES

Siemens.com/mobility

QJ1 Relay

A dc neutral, tractive armature, thermal time element relay

General data

Contact Arrangement: 1F
(makes at end of heating/cooling cycle, i.e. total time)

Resets on removal of input signal.

Nominal Rated Voltage: 24 V and 50 V dc

Timing Range: 30-120 s, 120-240 s

Approximate Weight: 1.41 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 Q Style Relay

Description

This unit is designed for railway signalling circuits.

The user-adjustable time delay is obtained by the consecutive heating and cooling cycle of a thermal element mounted on one of the contact stacks.
Stops are provided at each end of the timing range, to prevent over adjustment.

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.

Plugboard Wiring

A1 Positive (B) output after time delay.
R1 Voltage input (B)
R2 Voltage return (N)

For the unit to work correctly, several links must be made, as shown below.

A2-A8 A3-R3 A5-A4 & R4 A6-A7

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.

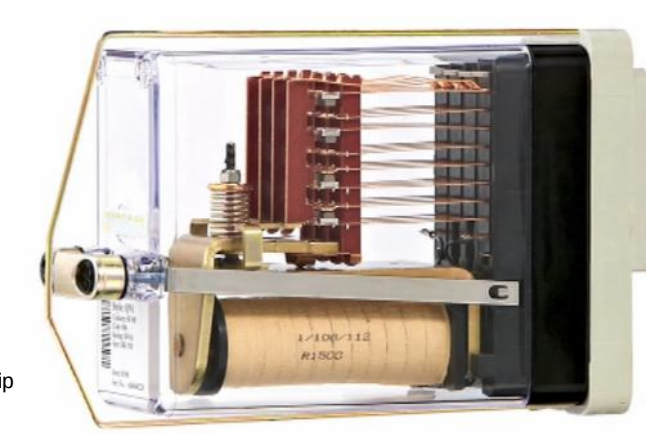
EMC Compliance

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. (V dc)	MIN REL (V dc)	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	REMARKS
B18517/1 (85/001220)	1F	24	123 AFGHK	395	28	19.2	3.6	J4138/65	12	DELAY 30-120s BR. 937A
B18517/2 (85/001240)	1F	50	124 AFGJK	1640	27	40	7.5	J4138/66	12	DELAY 30-120s BR. 937A
B18517/3	1F	24	EGHJX	395	28	19.2	3.6	J4138/357	12	DELAY 120-240s (NON BR SPEC)

Un-drilled plugboard
Part No. E7218/1



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

Siemens Ltd
Infrastructure & Cities Sector
Mobility and Logistics Division
Rail Automation
PO Box 79
Pew Hill
Chippenham
Wiltshire SN15 1JD
UK
www.siemens.com/rail-automation

Printed in the United Kingdom

X342/55/000052 Revision 04

SIEMENS