



Siemens.com/mobility

QL1 Relay

A dc tractive armature, magnetically latched line relay

General data

Contact Arrangement: 11F 4B, 8 F 6B
 Nominal Supply Voltage: 12V, 24V and 50V dc

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.



B18509/4 Variant

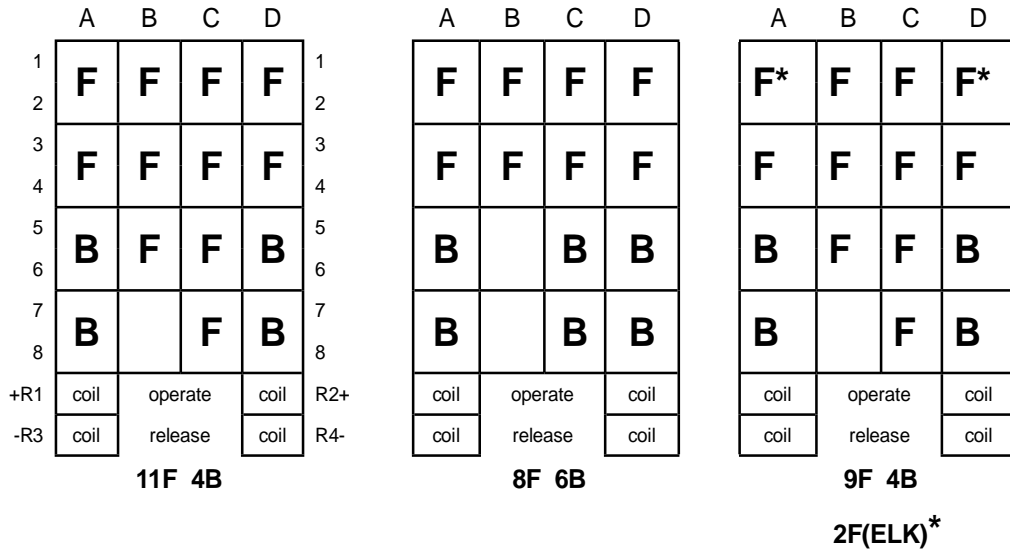
Description

Designed for use where a self latching relay with a separate release winding is required.

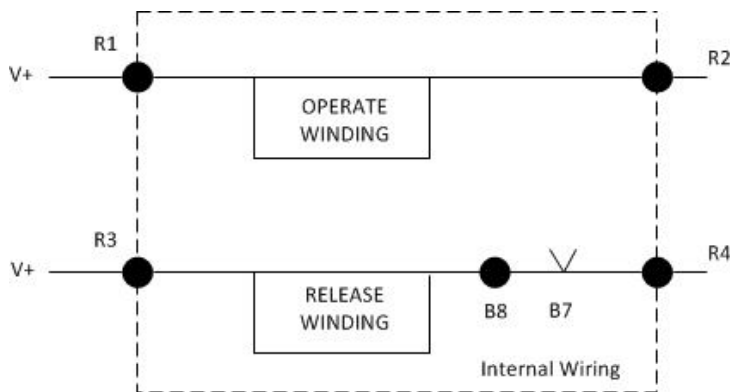
The relay is held in the full operate condition by a permanent magnet, releasing only when the release coil is energised. A high back-stop pressure ensures that the armature will not move and latch up accidentally due to vibration.

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

Contact layout viewed from rear



Internal Wiring



Relay Supplied Unlatched

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) PU. TH.DN	WDG SPEC 1/108/-	MAX FULL OP. & MAX TH.DN (V dc)	MIN FULL OP. (V dc)	MIN TH. DN (V dc)	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	REMARKS
B18509/3 (85/001070)	11F 4B	24	009 ABDEG	150 680	12	19.2	9.6	9.6	J4138/41	34	BRB SPEC. 935A
B18509/4 (85/001080)	11F 4B	50	011 ABEFG	720 745	11	40	20	20	J4138/42	34	BRB SPEC. 935A
B18509/5	8F 6B	24	007 ABCEG	150 680	12	19.2	9.6	9.6	J4138/133	32	BRB SPEC. 935A
B18509/6 (85/001015)	8F 6B	50	008 ABCFG	720 745	11	40	20	20	J4138/136	32	BRB SPEC. 935A
B18509/9	9F 4B 2F (ELK)	50	ACJKX	720 745	11	40	20	20	J4138/183	34	
B18509/11	11F 4B	12	BDGJX	45 90	93	9.6	7.5	4.8	J4138/267	34	
B18509/12	8F 6B	12	BDGKX	45 90	93	9.6	7.5	4.8	J4138/268	32	



Un-drilled plugboard
Part No. E7218/1

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

