

Siemens.com/mobility

QED1 Relay

An Earth Leakage Detector Relay

General data

Contact Arrangement: 1B
 Nominal Rated Voltage: 12 V ac
 Approximate Weight: 2.1 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 used on 50 V dc lines. It will detect earth leakage currents in the order of 0.6 mA. A 12 V ac supply is required to operate the unit.

The unit will detect leakage on either the 'B' or 'N' line. Each line may be disconnected by a button, to determine which has the fault. A test button allows the unit operation to be checked by simulating an earth leak.

Two indication lights are provided on the unit : green for 'no fault' and red for 'fault'. Connections may be made to the light circuits to provide remote indications.

A pair of contacts is provided which open when a leak is detected.

In situations where short-term transient faults occur, it is sometimes necessary to delay the response of the unit to prevent nuisance tripping. To achieve a delay use in conjunction with QR5, B18530/35 or QR10, B18530/34.

Contact layout viewed from rear

	A	B	C	D	
1	50 V +ve				1
2	50 V -ve				2
3	B				3
4					4
5	External Indication				5
6					6
7	12 V a.c.			12 V a.c.	7
8				Main Earth	8
R1					R2
R3				Test Earth	R4

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.

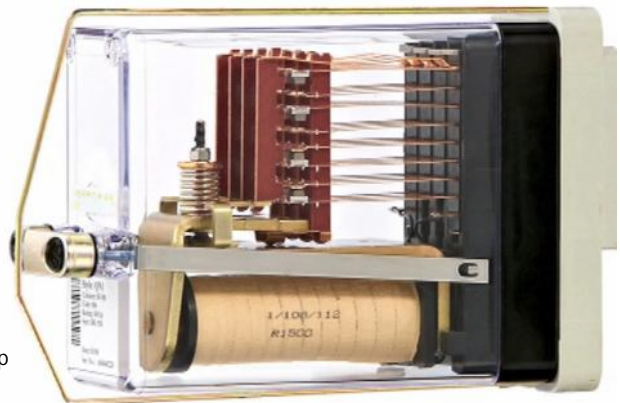
A Technical Certificate for EU Directive on EMC (89/336/EEC) has been obtained.

Technical data

SIEMENS Part No. (PAD No.)	CONTACT ARRANGEMENT	RATED VOLTAGE (V ac)	PIN CODE	LINE VOLTAGE	PLUGBOARD E7218/1 DRILLED TO	REQD NO. OF CONNECTORS J4137/3	REMARKS
B18557/1	1B	12V	XCDEH	50V dc	J4138/290	10	



Un-drilled plugboard
Part No. E7218/1



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

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Printed in the United Kingdom

Data Sheet 7-2-27

X342/55/000046 Revision 04

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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.