

[Siemens.com/mobility](http://Siemens.com/mobility)

## QMT2 Relay

The QMT2 Timer Relay comprises a synchronous motor driven timer unit and two independent safety relays

### General data

Nominal Supply Voltage:

Relay: 24V and 50V dc

Motor 110 V a.c. 50 Hz

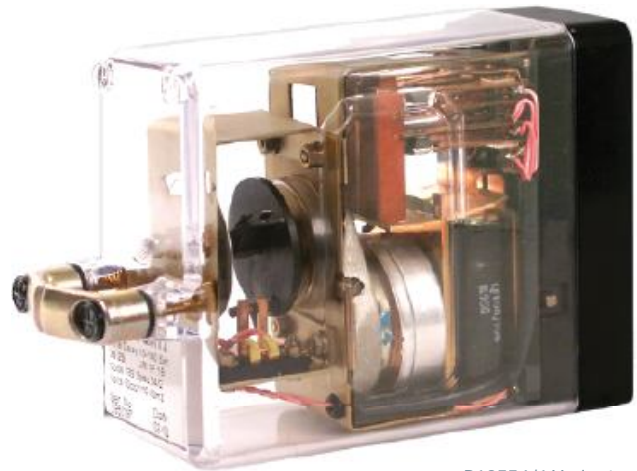
Timing Ranges: Refer overleaf

Approximate Weight: 1.3 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.



B18554/1 Variant

### Description

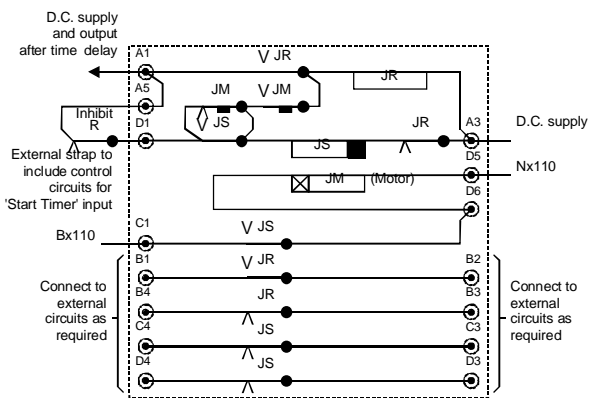
The motor drives a rotary bridging contact between two pairs of contacts. The contacts are positioned such that one pair is bridged in the 'start' position, the other in the 'finished' position. Timing is adjusted by varying the position of the 'finish' contacts. The settings can be sealed.

The motor is switched via a front contact of the JS relay, the coil of which is energised via the start contacts.

The JS sticks up via its other front contact. When the rotary bridging contact reaches the finish position, the JR relay picks up and sticks up and releases JS which de-energises the motor. The rotary contact then springs back to the start position. Removal of the controlling d.c. supply releases JR and the unit is automatically reset. The relay complies with the requirements of BR Spec 947.

The two relays JR and JS each comply with the main requirements of BR Spec 930 and have silver to silver impregnated graphite contacts.

## Internal Wiring



Notes: Supply is not polarity dependent; however, A3 is normally connected to 'N' and A1 to 'B'.

## 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.

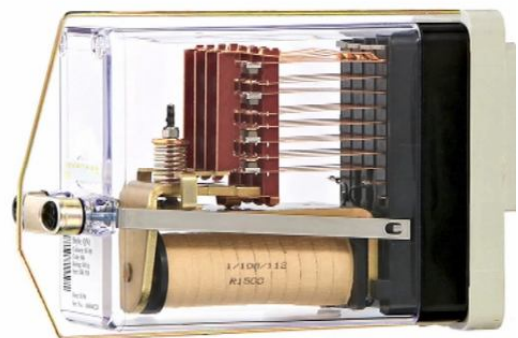
A Technical Certificate for EU Directive on EMC (89/336/EEC) has been obtained.

## Technical data

SIEMENS Part No. (PAD No.)	CONTACT ARRANGEMENT	RATED VOLTAGE (V dc)	PIN CODE	COIL RES (OHMS)	RELAY SPEC	WDG SPEC	MAX OP. (V)	MIN REL (V)	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	TIME RANGE
B18554/1 Supersedes B18554/6 (085/001455)	JS 2B JR 1F 1B	Relay 50 V dc Motor 110 V ac 50 Hz	191 BEGJK	JS 660 Ω JR 950 Ω	BR947	JS 1/108/107 JR 1/108/106	JS 40 dc JR 40 dc 95 ac	JR 7.5 dc JS 7.5 dc	J4138/278	15	2-50 Seconds
B18554/2 Supersedes B18554/10 (088/030962)	JS 2B JR 1F 1B	Relay 50 V dc Motor 110 V ac 50 Hz	189 BEFJK	JS 660 Ω JR 950 Ω	BR947	JS 1/108/107 JR 1/108/106	JS 40 dc JR 40 dc 95 ac	JR 7.5 dc JS 7.5 dc	J4138/279	15	10-140 Seconds
B18554/3 Supersedes B18554/7 (085/001460)	JS 2B JR 1F 1B	Relay 50 V dc Motor 110 V ac 50 Hz	189 BEFJK	JS 660 Ω JR 950 Ω	BR947	JS 1/108/107 JR 1/108/106	JS 40 dc JR 40 dc 95 ac	JR 7.5 dc JS 7.5 dc	J4138/279	15	30-240 Seconds
B18554/4 Supersedes B18554/8 (085/002271)	JS 2B JR 1F 1B	Relay 24 V dc Motor 110 V ac 50 Hz	192 BEHJK	JS 160 Ω JR 235 Ω	BR947	JS 1/108/139 JR 1/108/138	JS 19.2 dc JR 19.2 dc 95 ac	JR 3.6 dc JS 3.6 dc	J4138/333	15	2-50 Seconds
B18554/5 Supersedes B18554/9 (085/002272)	JS 2B JR 1F 1B	Relay 24 V dc Motor 110 V ac 50 Hz	190 BEGHK	JS 160 Ω JR 235 Ω	BR947	JS 1/108/139 JR 1/108/138	JS 19.2 dc JR 19.2 dc 95 ac	JR 3.6 dc JS 3.6 dc	J4138/334	15	30-240 Seconds
B18554/12	JS 2B JR 1F 1B	Relay 50 V dc Motor 110 V ac 50 Hz	SBDK	JS 660 Ω JR 950 Ω	-----	JS 1/108/107 JR 1/108/106	JS 40 dc JR 40 dc 95 ac	JR 7.5 dc JS 7.5 dc	J4138/492	15	4.5 Seconds Fixed



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](http://www.siemens.com/rail-automation)

Printed in the United Kingdom

Data Sheet 7-2-38

X342/55/000057 Revision 08

# 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.