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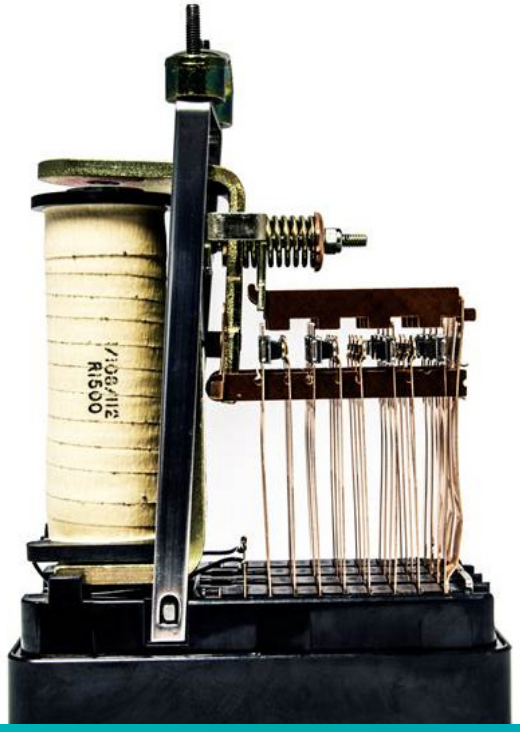


QR5 Relay

BR 930 Series

siemens.com/mobility

General data

Approximate Weight: 0.9 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.

Description

A relay unit consisting of a resistor/capacitor network.

Various configurations are available, designed as time delay circuits as shown overleaf.

Strap positions for Universal Time Delay Unit B18530/36

Supply Volts	Plugboard Straps	Resistance / Capacitance	Charge Time to 95% supply	Discharge Time to Average D/A	
				QN1	QNN1
24	D3 – A1 D3 – D1 D3 – A1 & A2 – D1	180Ω/680 µF 180Ω/1500 µF 180Ω/2180 µF	0.6 Secs 1.3 Secs 2.0 Secs	0.5 Secs 1.1 Secs 1.6 Secs	0.6 Secs 1.2 Secs 1.8 Secs
50	D2 – A1 D2 – D1 D2 – A1 & A2 – D1	390Ω/680 µF 390Ω/1500 µF 390Ω/2180 µF	1.2 Secs 2.5 Secs 3.8 Secs	1.9 Secs 4.1 Secs 6.0 Secs	2.0 Secs 4.3 Secs 6.25 Secs

Note: The charge and discharge time figures in the above table are only approximate nominal values due to variations in supply voltage, relay drop away voltage, capacitance value and relay winding resistance. A variation of at least ±50% is possible.

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.

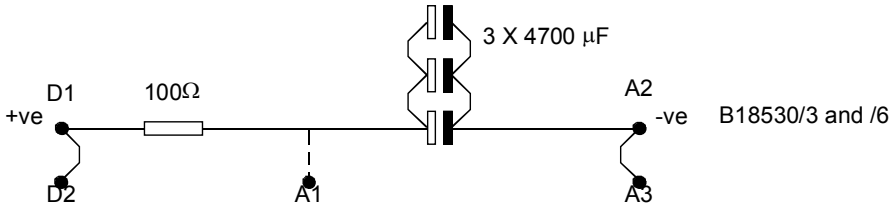
EMC Compliance

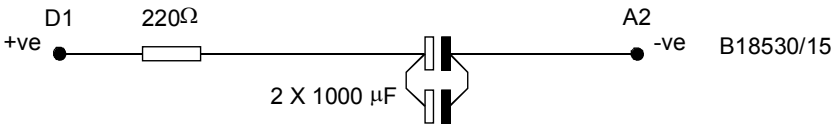
Q-Relays comply with the relevant emission requirements of EN 55014. It is considered that these relays have inherent immunity to in-service electromagnetic disturbance.
A Technical Certificate for EU Directive on EMC (89/336/EEC) has been obtained.

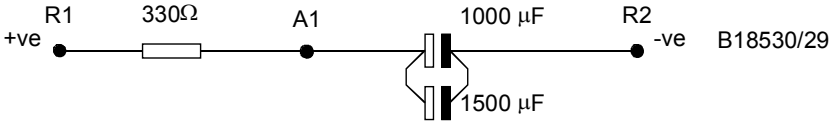
Technical data

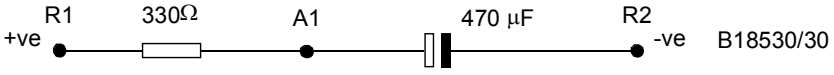
SIEMENS Part No. (PAD No.)	PIN CODE	FOR USE WITH RELAY TYPE PART NO	RELEASE TIME DELAY WHEN USED WITH STATED RELAY	PLUGBOARD	REQD No. OF CONNECTORS J4137/3	REMARKS
B18530/3	XABJK	QN1, B18501/30	3.5 – 4.5 Seconds	J4138/92	2	For replacement in existing systems only.
B18530/6	6060 ABEFHK	QN1, B18501/30	3.5 – 4.5 Seconds	J4138/114	2	
B18530/15	XACEH	QN1, B18501/18	>0.6 Seconds	J4138/142	2	
B18530/29 (88/047292)	175 BCGJK	QN1, B18501/21–26 B18501/29	5.0 – 8.0 Seconds	J4138/262	3	
B18530/30	177 BDEFK	QN1, B18501/21–26 B18501/29	1.0 – 1.8 Seconds	J4138/263	3	
B18530/31 (88/047291)	176 BCHJK	QN1, B18501/21–26 B18501/29	2.2 – 3.2 Seconds	J4138/264	3	
B18530/35	XCDEG	QED1, B18557/1	1.0 – 6.0 Seconds Adjustable	J4138/298	4	
B18530/36	168 BCEGK	Various Q Type 24 V dc or 50 V dc	Various according to usage. Range 0.5 – 6.25 Seconds See above for strap positions	J4138/301	6	A universal delay unit comprising 2 resistors and 2 capacitors connectable in various configurations by external links.
B18530/44	XCDFK	50 V QN1 with high operate value	Special for Australia	J4138/461	6	M25189

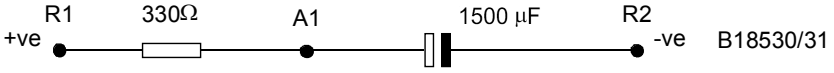
Connections

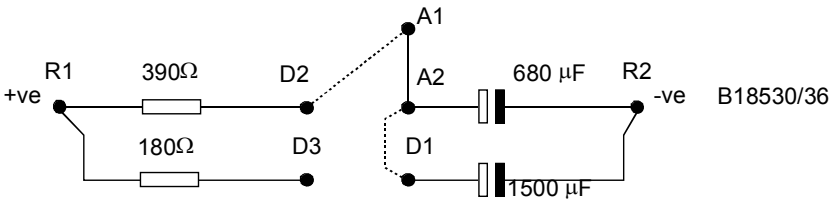


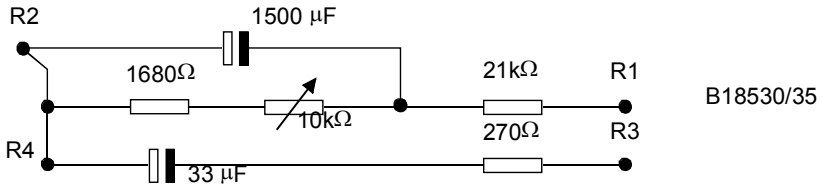


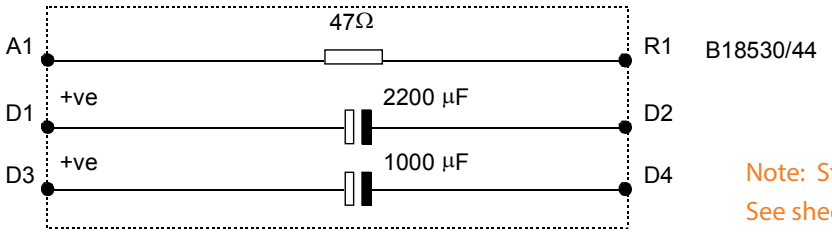




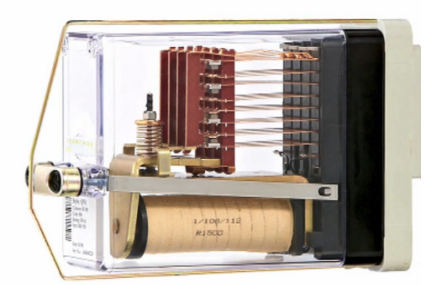








Un-drilled plugboard
Part No. E7218/1



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

Note: Straps shown dotted.

See sheet 2 for position of straps for differing times.

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