

TY370/GRP22 - QR5

Datasheet

Resistor/Capacitor Circuit



Description

The relay covered by this data sheet consists of a resistor/capacitor unit in a BR930 series relay case.

Mors Smitt Relays

- Modular plug in design
- Proven reliability
- Low life cycle cost

Mors Smitt Catalogue Number	Mors Smitt Reference (Westinghouse Reference)	Rated Voltage	Contacts	Pin Code (Pins)	Specification
TY370/GRP22	SR5 (QR5)	24 V D.C. or 50 V D.C.		168 (B, C, E, G & K)	

Timing Straps for TY370/GRP22 Universal Time Delay Module.

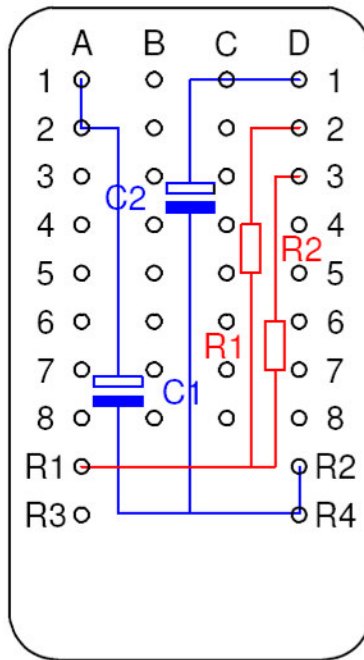
Supply Voltage (Nominal)	Plugboard Straps	Resistance/Capacitance	Charge Time to 95% supply	Discharge Time to Supply Average D/A	
				SN	SNN
24V D.C.	D3 - A1	180Ω/680μF	0.6 Sec	0.5 Sec	0.6 Sec
	D3 - D1	180Ω/1500μF	1.3 Sec	1.1 Sec	1.2 Sec
	D3 - A1 & A2 - D1	180Ω/2180μF	2.0 Sec	1.6 Sec	1.8 Sec
50V D.C.	D2 - A1	390Ω/680μF	1.2 Sec	1.9 Sec	2.0 Sec
	D2 - D1	390Ω/1500μF	2.5 Sec	4.1 Sec	4.3 Sec
	D2 - A1 & A2 - D1	390Ω/2180μF	3.8 Sec	6.0 Sec	6.25 Sec

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.

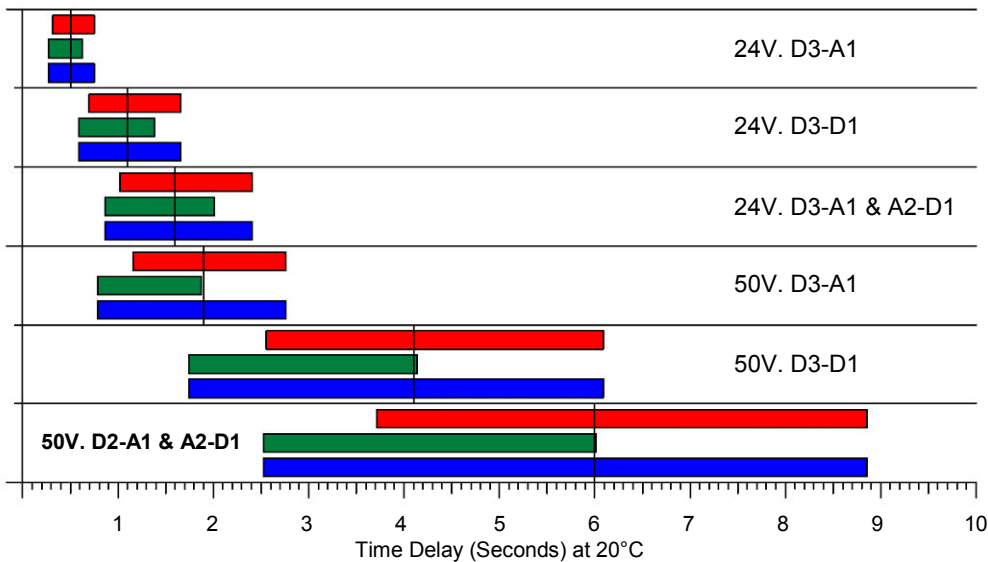
Terminal Arrangements.

	A	D	
1	Internal Link	1500 μ F +ve	1
2	680 μ F +ve &	390 Ω	2
3		180 Ω	3
4			4
5			5
6			6
7			7
8			8
R1	390 Ω & 180 Ω	680 μ F -ve & 1500 μ F -ve	R2
R3			R4

TY370/GRP22



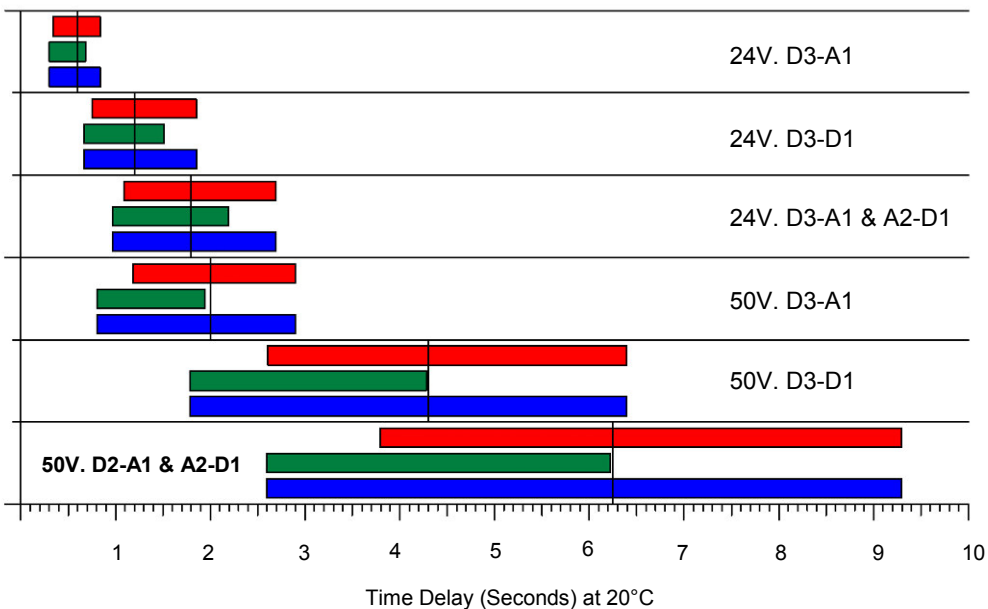
C1 = 680 μ F
C2 = 1500 μ F
R1 = 180 Ω
R2 = 390 Ω



Invensys (Westinghouse) QN1 Time Tolerance.

Mors Smitt SN1 Time Tolerance.

Overall Time Tolerance.



Invensys (Westinghouse) QNN1 Time Tolerance.

Mors Smitt SNN1 Time Tolerance.

Overall Time Tolerance.



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