

HIGH VOLTAGE

SWITCHING MATRIX



*fast*ATE[®]
Technology

Modular High Voltage
switching matrixes
up to 15KV - 48Ch

The Hipot test that manufacturers are required to perform under the CE directives for safety testing is largely based on the IEC (International Electrotechnical Commission) and EN (European Norms) standards.

Some of these referenced specifications mandate the use of a Hipot tester with as much as 500 voltamperes (VA) of output power.

The 19" rack high voltage matrix is designed to select the test injection points for performing Hipot essays on motors, appliances, electronics cards or industrial other devices.

It has a normally closed relay contact, shorting terminals J2 and J4 through a high voltage resistance to discharge static electricity that may be loaded after to perform a Hipot test.

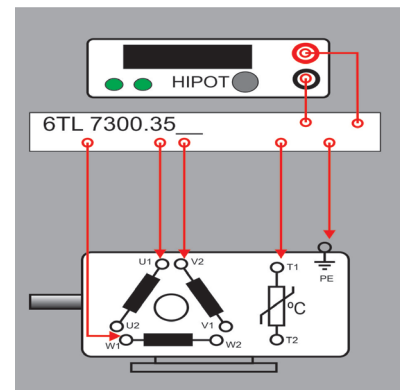
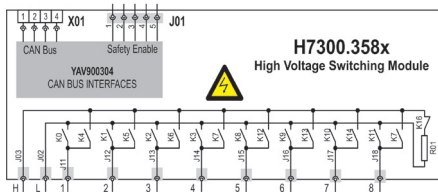
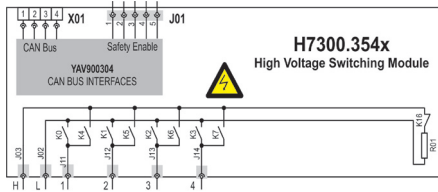
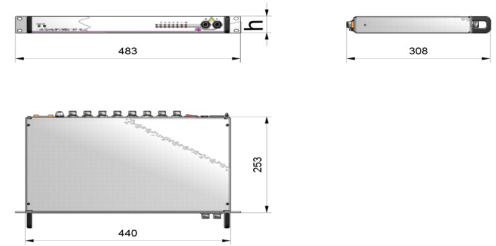
High voltage relays configure the maximum switching voltage. This can be 5kV (A Version), 10 kV (B Version) and 15 kV (C Version).

The product is available in different number of active relays matrix formats.

- FastATE technology: Modular, scalable and top flexible approach; Minimum wiring and easy maintenance; LabVIEW drivers.
- 19" rack, 1U, 2U, 4U or 6U depending on number of Channels
- CAN bus control (Control power 24Vdc)
- Ideal for Hipot test, dielectric strenght test, High value resistors measurement.
- CE compliant, ESD safe



	Units	Version A 5KV	Version B 10KV	Version C 15KV
Relays				
Maximum switching volts	VDC	3.500	7.500	12.500
Maximum Stand-Off volts	VDC	5.000	10.000	15.000
Maximum Switching current	A	3	3	3
Maximum Power rating	W	50	50	50
Maximum current at rated switching voltage (relays opened)	mA	14	6	4
MTBF (with a 50W load Switch)	Cy- cles	10 ⁶	10 ⁶	10 ⁶
Dielectric Withstanding Voltage (See level, in V, 50Hz)	VAC	6.000	20.000	20.000
Discharge Resistor	R	20-MOhm	30-MOhm	50-MOhm
External power supply requirements				
Voltage	VDC	20...26 +0%		
Maximum current	mA	100		
CAN Bus				



Description	Relays Stand-Off Voltage (V)		
	5.000 P/N	10.000 P/N	15.000 P/N
High Voltage multiplexer 1x4 channels with discharging relay	H7300 351A	H7300 351B	H7300 351C
High Voltage multiplexer 1x8 channels with discharging relay	H7300 352A	H7300 352B	H7300 352C
High Voltage multiplexer 2x4 channels with discharging relay	H7300 354A	H7300 354B	H7300 354C
High Voltage multiplexer 2x8 channels with discharging relay	H7300 358A	H7300 358B	H7300 358C
High Voltage multiplexer 2x16 channels with discharging relay	H7300 35BA	H7300 35BB	H7300 35BC
High Voltage multiplexer 2x32 channels with disch relay	H7300 35DA	H7300 35DB	H7300 35DC
High Voltage multiplexer 2x48 channels with disch relay	H7300 35GA	H7300 35GB	H7300 35GC
High Voltage multiplexer 4x24 channels with disch relay	H7300 35FA		
High Voltage Splitter	H7300 3600	H7300 360B	
HV Patchcord (Single ended 2m length)	H7300 35C1	H7300 35C2	
HV Patchcord (Double ended 1m length)	H7300 35C3	H7300 35C4	
HV Plug connector	372949	AE624	
HV Cable 25kV	390301		
VPC 90 Series receiver Interface	H7300 35ZA	H7300 35ZB	H7300 35ZC
USB to CAN bus Interface	MM77979201		
Option 1 : Build-in Power supply (130...260VAC/DC to 24VDC)	H7300 35A1		