VAR 6502

Automatic variable AC-voltage source

schaffner
safety for electronic systems

- **Add-on unit for mains drop-out Modula generator**
- **Two motor-driven transformers**
- **Fast regulation speed**
- **16A continuous rating for each transformer**
- **Short-term loading up to 80A**

The automatic variable transformer type VAR 6502 is a standard accessory for the Schaffner Modula 6100 instrumentation series. Two built-in variable transformers provide the means to feed a pre-selected, stabilized step function or variable voltage to a equipment under test (EUT). Therefore, it provides a convenient way of adjusting the main power onto two arbitrary voltages.

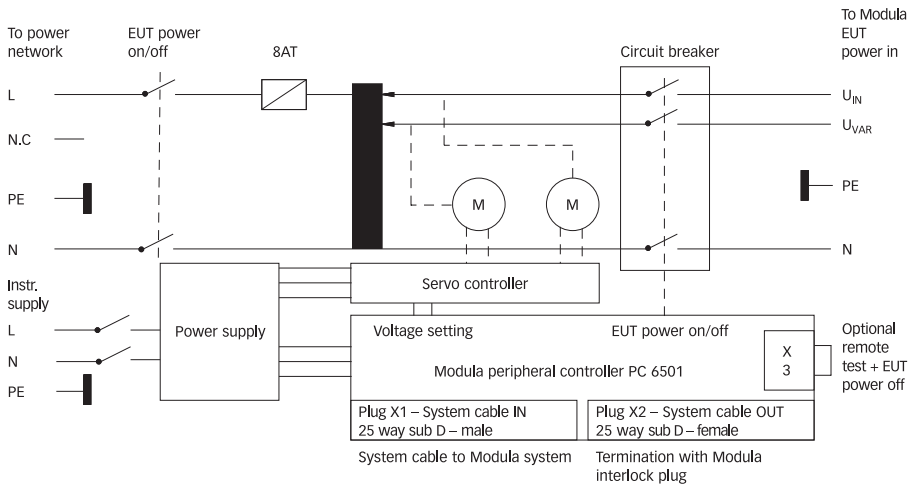
The applications are manifold: Instantaneous jumps from the nominal voltage to an over- or under-voltage condition using the generator's ability to produce events and repetition times ranging from microseconds to hours switching between over-voltage and under-voltage and vice versa.

Once detected by the Modula and declared to the driving software ModPDA or WinModula, all functions are available, to fullfill the fast regulation speed of up to 140V/s which is called in the latest revision of IEC/EN 61000-4-11 (2004).

The VAR 6502 is fitted with carrying handles, which makes ease for handling. The unit has been designed for use in rugged industrial environments. Professional quality connectors ensure user safety, additional system protection is provided by an 16A fuse located in the top panel.

As an option there is the possibility to switch EUT power ON/OFF (also under program control) in case the circuit breaker option CIB is implemented.

Block diagram



Technical specifications

Input voltage UIN:	0 to 240VAC (not suited for DC voltages)
Output voltage UIN:	Adjustable from 0 to 269VAC, ±5%
Output voltage UVAR:	Adjustable from 0 to 269V, ±5%
	or 0 to 115% of input voltage, ±5%
Input and output current:	Max 16A approx. Only one channel, UIN or UVAR
	at a time, protected by a 16A slow-blow fuse
Overload:	20A rms for 4min
	with 20min cool-off, (thermally limited)
	25A rms for 1min with 10min cool-off
	80A rms for 1s with 4min cool-off
Voltage selection:	Software driven by ModPDA or WinModula
Motor speed for UIN regulation:	Max 100V/s – slower with program control
	(ModPDA or WinModula)
Motor speed for UVAR regulation:	Max 140V/s – slower with program control
	(ModPDA or WinModula)
EUT power ON/OFF function:	Front panel switch with ON indicator,
	optional circuit breaker operated by
	ModPDA or WinModula
Fuse:	16A, slow-blow
Connectors:	Harting type HAN3A, compatible with Modula
	safe linking concept
Possible extensions:	Connector for optional remote EUT power-off
	switch, interlock connection to door switch
Instrument supply:	Universal power supply 90 to 264VAC, 100VA
Dimensions:	L x W x H 440 x 630 x 310mm (17.3 x 24.8 x 12.2“)
Weight:	28kg (55lbs) approx.
Cable:	VAR 6502 to Modula EUT power input ~2m (~79“)
Input cable:	Modula standard cable to be used
Control cable:	2m (79“), 25 way sub D, twisted pair, shielded
	(included in delivery)