

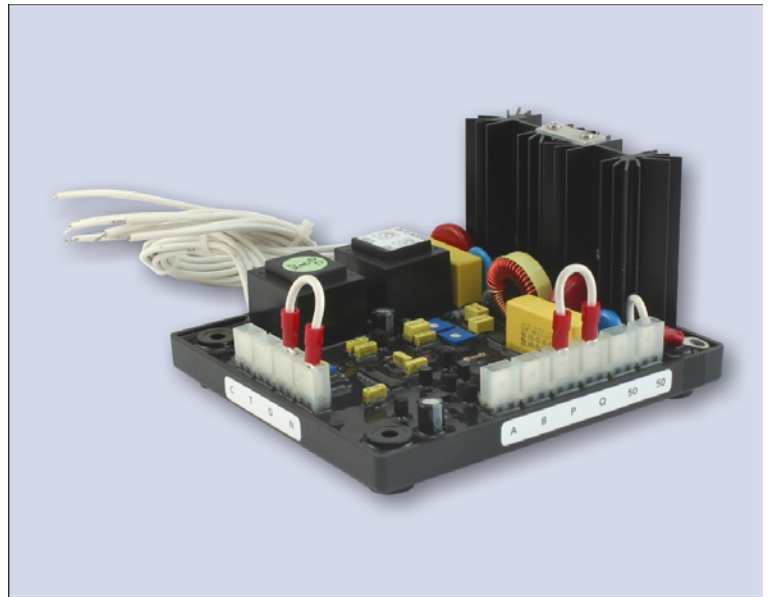
# SS42-7

## Self Excited Automatic Voltage Regulator Compatible with Basler\* Model AEC42-7 For Use In Generators With Separate Power Windings

### Features

- $< \pm 1\%$  Regulation
- Over Excitation Automatic Shut Down
- For Use In Parallel Operation
- EMI Suppression
- Under Frequency Protection
- Soft Start Voltage Ramping

\* Use for reference purpose only, not a genuine Basler product



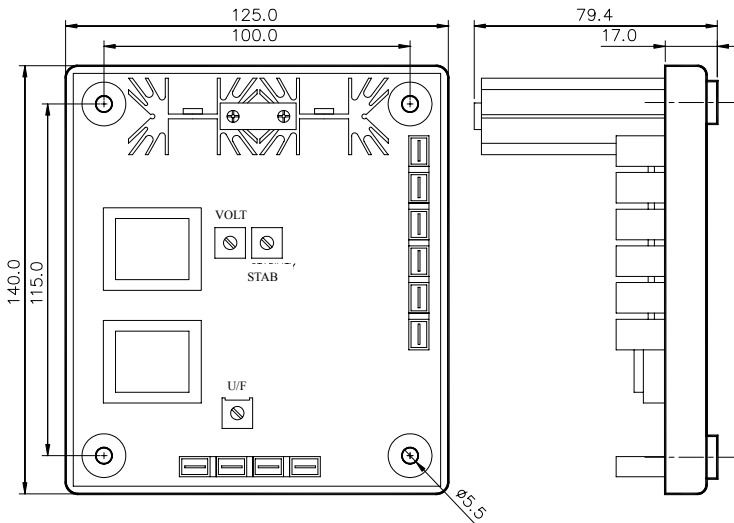
### Specifications

<b>Sensing Input</b>	Voltage	220 ~ 252 VAC $\pm 10\%$ , 1 phase 2 wire	<b>External Volts Adjustment</b>	$\pm 10\%$ with 1 K $\Omega$ 1 watt trimmer
	Frequency	50 / 60 Hz selectable	<b>Voltage Adjustable Range</b>	180 ~ 277 VAC
<b>Power Input</b>	Voltage	220 ~ 260 VAC $\pm 10\%$ , 1 phase 2 wire	<b>Unit Power Dissipation</b>	Max. 20 watt
	Frequency	50 / 60 Hz	<b>Under Frequency Protection</b>	60 Hz system presets knee point at 55 Hz 50 Hz system presets knee point at 45 Hz
<b>Output</b>	Voltage	Max. 42 VDC	<b>Over Excitation Shutdown</b>	Field volts shut down after a time delay If exciter field volts exceed $52 \pm 2$ VDC
	Current	Continuous 7A Intermittent 15A for 10 sec.	<b>EMI Suppression</b>	Internal Electromagnetic Interference Filtering
	Resistance	Min. 6 $\Omega$ , Max. 105 $\Omega$		
<b>Thermal Drift</b>		0.05% per $^{\circ}\text{C}$ change in AVR ambient		

### Environment

<b>Vibration</b>	1.5 G @ 5 ~ 30 Hz    5.0 G @ 30 ~ 500 Hz	<b>Relative Humidity</b>	$< 95\%$
<b>Operating Temperature</b>	-40 ~ 60 $^{\circ}\text{C}$	<b>Storage Temperature</b>	-40 ~ 85 $^{\circ}\text{C}$

### Mechanical Specifications



UNIT: mm

#### AVR Controls Function

VOLT	Voltage Adjustment
STAB	Stability Adjustment
U/F	U/F* Knee Point Set
*U/F: Under Frequency protection	

#### Physical Specifications

Dimensions	140.0 (L) x 125.0 (W) x 79.4 (H) mm
Weight	680 g $\pm 2\%$
Shock	Withstands up to 20G in each X, Y, Z