

# EA07

## Self Excited Half Wave Rectified Type Automatic Voltage Regulator

Suitable for Single or Three Phase Self Excited Brushless Generator

Maximum Output 6A

Compatible with Mecc Alte® Spa AVR model SR7-1 and SR7-2

\*All manufacturer names, numbers, symbols and descriptions are used for reference purpose only and do not imply that any part is the product of these manufacturer.

### Features

- Wide Sensing Voltage Range 80~350 VAC
- Wide Power Input Range 80~270 VAC, Accepts Power Input from Main Winding or Auxiliary Winding
- Under Frequency Protection Indication LED
- Over Excitation Protection and Indication LED
- EMI Suppression



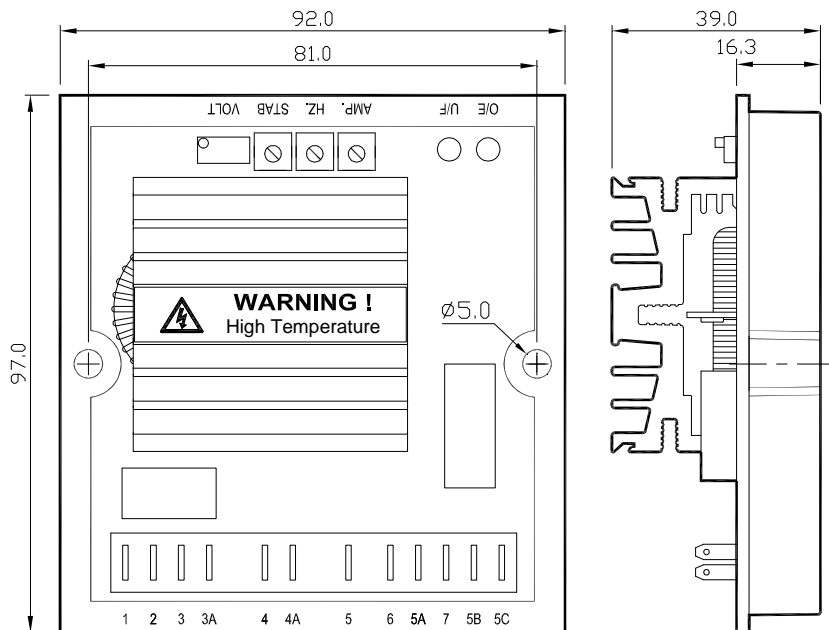
### Specifications

|                         |   |                                   |   |
|-------------------------|---|-----------------------------------|---|
| <b>Sensing Input</b>    | 80~350 VAC single phase 50/60 Hz                | <b>External Volts Adjustment</b>  | 100 K $\Omega$ 1/2 watt $\pm$ 7%                |
| <b>Power Input</b>      | 50~270 VAC 50/60 Hz                             | <b>Unit Power Dissipation</b>     | Max. 5 watt                                     |
| <b>Output Voltage</b>   | 63 VDC @ 220 VAC Input                          | <b>Under Frequency Protection</b> | Adjustable range 42~60 Hz                       |
| <b>Output Current</b>   | Continuous 6A, Max. Intermittent 7A for 10 sec. | <b>Over Excitation Protection</b> | 40~Max. VDC @ 0.3~20 sec.                       |
| <b>Volts Regulation</b> | < $\pm$ 1% (with 4% engine governing)           | <b>EMI Suppression</b>            | Internal electromagnetic interference filtering |
| <b>Voltage Build-up</b> | Residual voltage above 5 VAC 25 Hz              | <b>Exciter Winding Resistance</b> | DC Resistance 10~100 $\Omega$                   |

### Environment

|                              |                     |                          |                                   |
|------------------------------|---------------------|--------------------------|-----------------------------------|
| <b>Operation Temperature</b> | -40~65 $^{\circ}$ C | <b>Relative Humidity</b> | Maximum 95%                       |
| <b>Storage Temperature</b>   | -40~80 $^{\circ}$ C | <b>Vibration</b>         | 1.5G @ 5~30 Hz / 5.0G @ 30~500 Hz |

### Mechanical Specifications (Unit : mm)



### AVR Control Function

|             |                                |
|-------------|--------------------------------|
| <b>VOLT</b> | Voltage Adjustment             |
| <b>STAB</b> | Stability Adjustment           |
| <b>HZ.</b>  | Under Frequency Setting        |
| <b>AMP.</b> | Over Excitation Setting        |
| <b>U/F</b>  | Under Frequency Protection     |
| <b>O/E</b>  | Over Excitation Indication LED |

### Physical Specification

|                   |                                   |
|-------------------|-----------------------------------|
| <b>Dimensions</b> | 97.0 (L) x 92.0 (W) x 39.0 (H) mm |
| <b>Weight</b>     | 275 g $\pm$ 2%                    |

