

	AVR B4		
Doc. code		Page	1 di 4
STEN12AVR4B	Technical specification	Revision:	0

Index

1. INTRODUCTION.....	2
2. GENERAL CHARACTERISTICS	2
3. ELECTRICAL SPECIFICATIONS	2
4. PHYSICAL SPECIFICATIONS.....	2

Release 1	Responsibility UT	Author Utee	Valid from 14/02/2007	Datum 29/06/2007
--------------	----------------------	----------------	--------------------------	---------------------

	AVR B4		
Doc. code STEN12AVR4B	Technical specification	Page	2 di 4
		Revision:	0

1. INTRODUCTION

The Sincro AVR B4 Voltage Regulators are designed for use on 50/60Hz single-phase brushes generators EK-R and FK-R, in place of exciting systems.
It is an efficient device for most of applications.

It is particularly suggested to obtain an optimal precise voltage output, with loadings at $\cos\phi \neq 1$ (in this condition a normal generator with capacitor exciting shows strong voltage dropping).

2. GENERAL CHARACTERISTICS

- Fuse included
- Fuse protection in case of missing or wrong sensing connection
- Special versions for low voltage generators and welders available on request

3. ELECTRICAL SPECIFICATIONS

Dc Output Power:

4,5 Adc at 120 Vdc (540W) maximum continuous,
6 Adc at 160 Vdc (960W) forcing one minute.

Exciter Field Dc Resistance:

10 ohms, minimum; 100 ohms maximum.

Ac Power Input:

Operating range: 220 Vac to 300 Vac, $\pm 10\%$, Single phase, 50/60 Hz.

Sensing Input:

100-130 Vac, single phase, 50/60 Hz or 200-240 Vac, single phase, 50/60 Hz.

Voltage Adjust Range:

$\pm 20\%$

Regulation Accuracy:

Better than $\pm 2.0\%$ no load to full load.

4. PHYSICAL SPECIFICATIONS

Operating Temperature:

-20°C to +60°C.

Storage Temperature:

-40°C to +85°C.

Release 1	Responsibility UT	Author Utee	Valid from 14/02/2007	Datum 29/06/2007
--------------	----------------------	----------------	--------------------------	---------------------



Doc. code

AVR B4

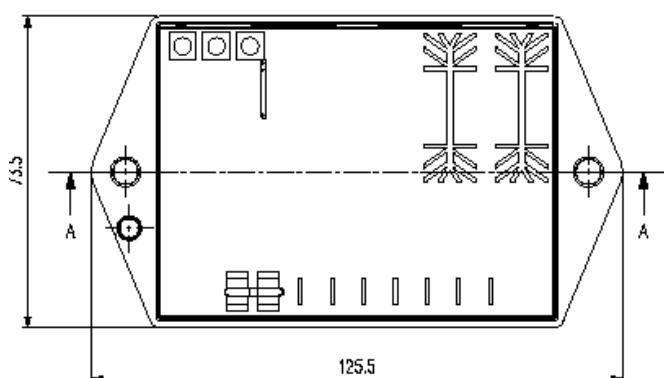
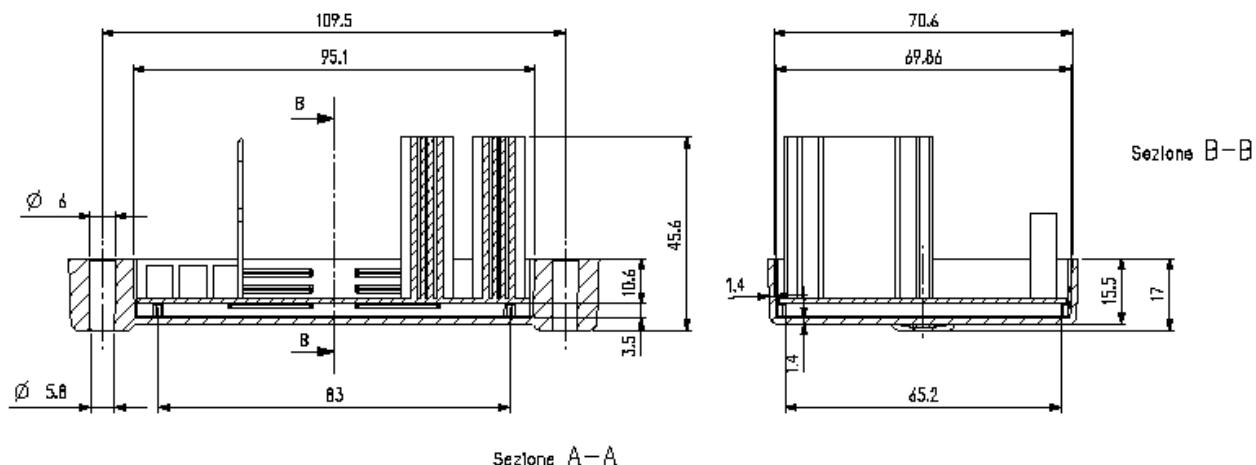
STEN12AVR4B

Technical specification

Page 3 di 4
Revision: 0

Dimensions and connection:

Max dimensions = 125,5 X 75,5 X 45,6 mm



Release 1	Responsibility UT	Author Utee	Valid from 14/02/2007	Datum 29/06/2007
-----------	-------------------	-------------	-----------------------	------------------

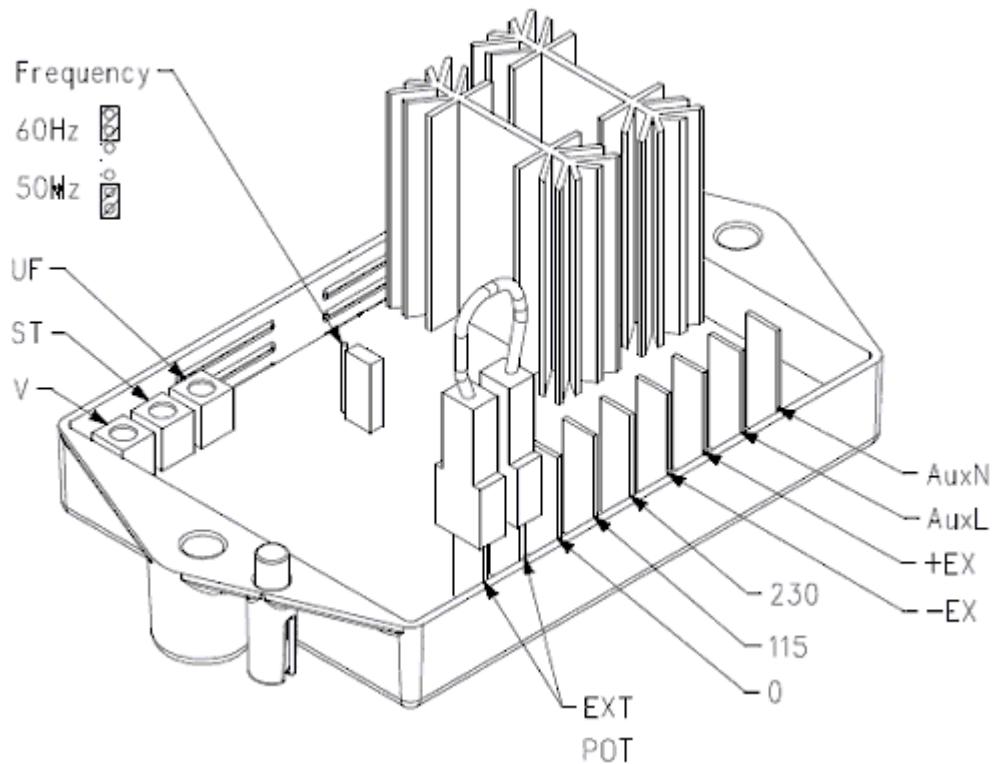


Doc. code

AVR B4

STEN12AVR4B

Technical specification

Page 4 di 4
Revision: 0**Trimmers:****V – Voltage Adjustment****ST – Stability****UF – Under Frequency****Jumpers:****Hz – for set frequency, 50Hz or 60Hz****EXT, POT – closed when use trimmer V for voltage adjustment**

NOTE: Default configuration, for AC Power Input of 300V, 50Hz and use of trimmer V for voltage adjustment.

Connections:**EXT, POT – External potentiometer****0, 115 – Sensing 115V****0, 230 – Sensing 230V****AuxL, AuxN – AC Power Input****-EX, +EX - Field Output**

Release 1	Responsibility UT	Author Utee	Valid from 14/02/2007	Datum 29/06/2007
-----------	-------------------	-------------	-----------------------	------------------