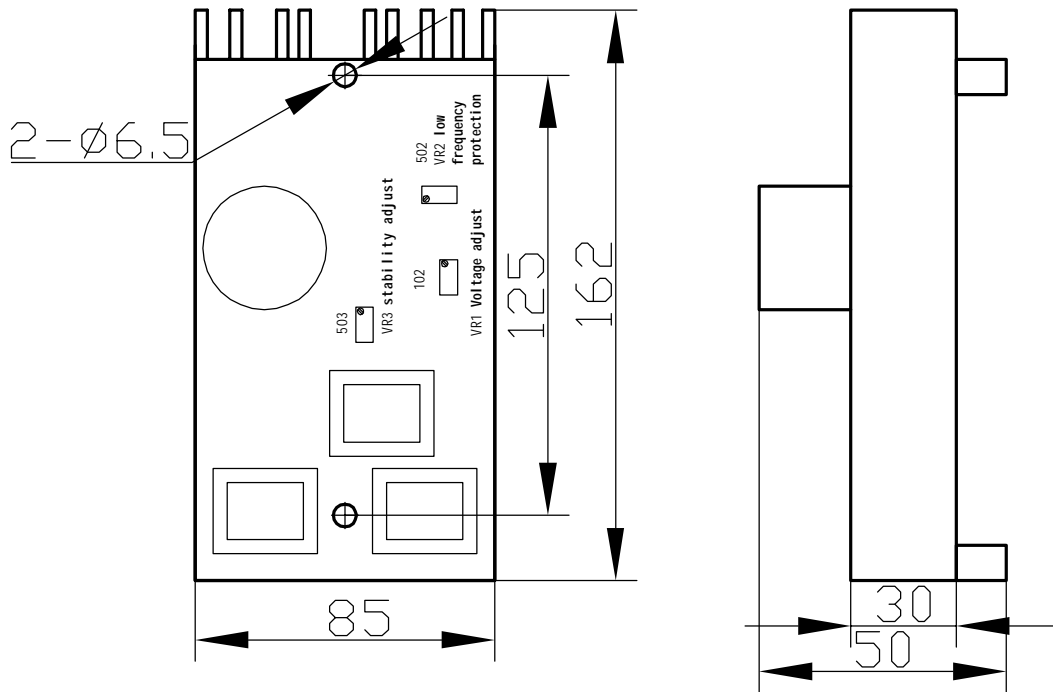
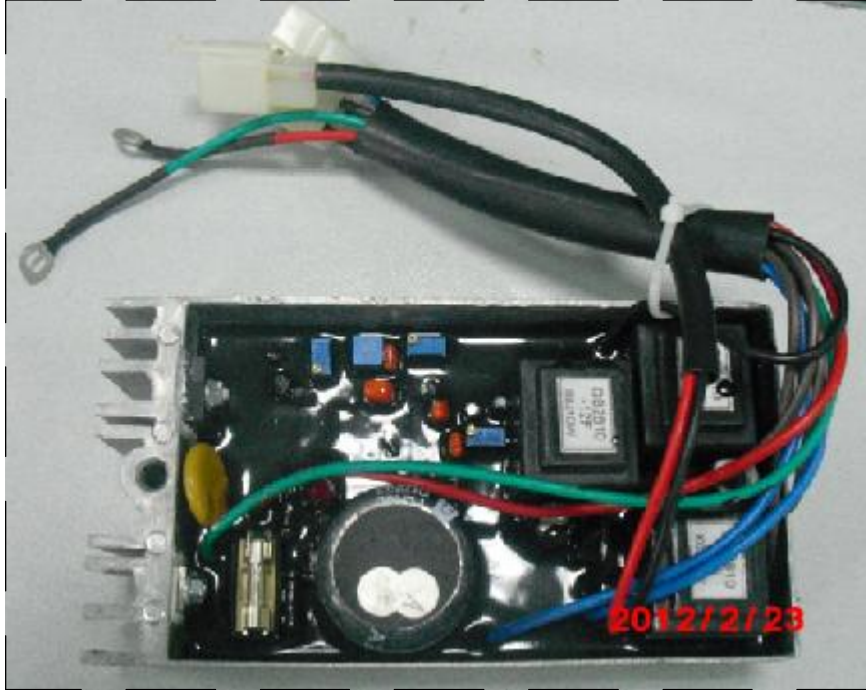


# BRUSH GENERATOR MANUAL INSTRUCTIONS

MODEL: KI-DAVR-95S3、KI-DAVR-150S3、KI-DAVR-95S3-A



DIMENSION

## 1. SPECIFICATION

SENSING INPUT	Auxiliary winding voltage	100VAC	Accuracy of voltage regulation	$< \pm 5%$ (engine speed change $< 4%$ )
	Sample winding voltage	350VAC		Size(L*W*H)
EMI inhibition	Range : 180 ~ 260V Built-in surge absorber (varistor)		Weight:	720g
			Starting voltage:	5VAC

## 2. Connection

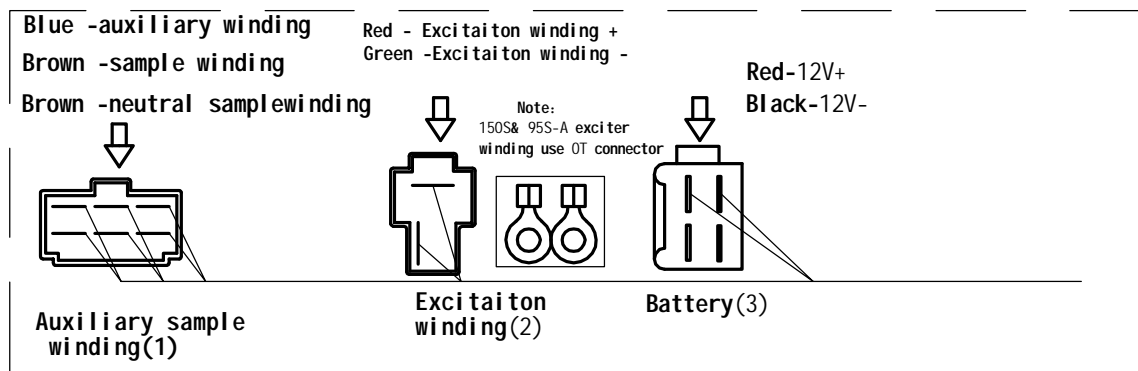


Figure 1 : : 3phase diagram

【KI -DAVR-95S3; KI -DAVR-150S3; KI -DAVR-95S3-A】

## 3. AVR DIAGRAM AND MANUAL

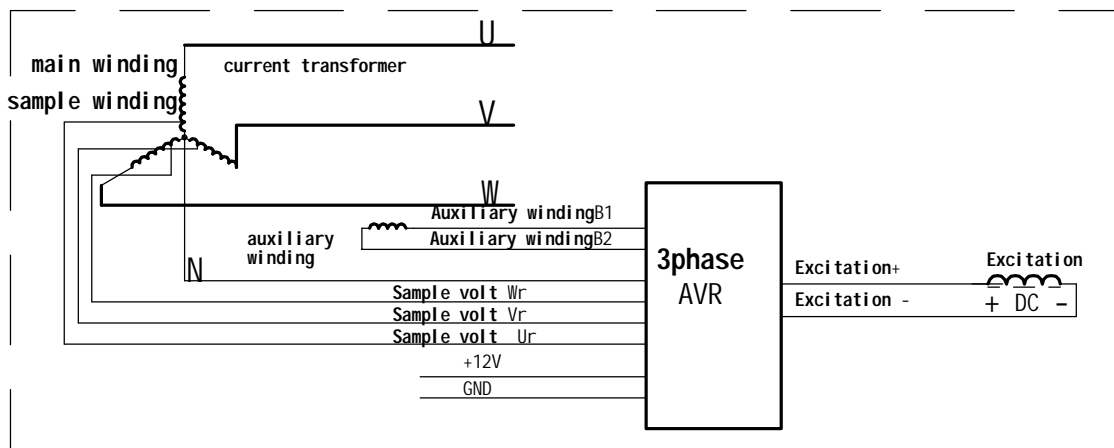


Figure 2: 3phases generator diagram

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## 2.1 Wiring of auxiliary winding and sampling winding

Figure 1: Auxiliary and sampling winding (1)  
) Two blue wires are connected to the auxiliary winding of the exciter, three brown wires are connected to the voltage sampling winding of the exciter, and one black wire is connected to the N pole of the center line of the sampling winding.

## 2.2 Excitation field wiring "+, -"

The red wire of the field winding (2) is connected to the "+" of the exciter's magnetic field, and the green wire is connected to the "-" of the exciter's magnetic field.

## 3 AVR Manual

### 3.1 working principle

The brush generator AVR automatic voltage regulator is a partially sealed electronic regulator that controls the output voltage of the AC brushed generator by adjusting the generator excitation current.

### 3.2 Generator rated voltage adjustment

Slowly adjust the potentiometer of the AVR to make the output voltage of the unit reach the rated value; (clockwise increase, counterclockwise decrease)

### 3.3 Low-frequency protection point adjustment

When the frequency reaches the frequency protection point, the generator shuts down for protection;

## 2.3 Battery wiring

The red of the battery (3) is connected to battery +; the black wire is connected to battery -;

## 2.4 Model description and excitation output OT selection description:

KI-DAVR-95S3 normal wiring+plug connector

KI-DAVR-150S3 normal wiring+OT

KI-DAVR-95S3-A longer wiring+OT

## 3.4 AVR Output stability adjustment

When adjusting "VOLT" to the rated voltage, the generator voltage may have unstable swing at this time.

Adjust the needle to "STAB" to reduce the swing until it stabilizes. However, excessive adjustment will produce short-term

Temporary swing.

## 3.5 AVR model difference

3phase-AVR:

KI-DAVR-95S3 : apply for the above 3phase functions :

KI-DAVR-150S3& KI-DAVR-95S3-A : function same; only in different wire and pins (according to 2.4)