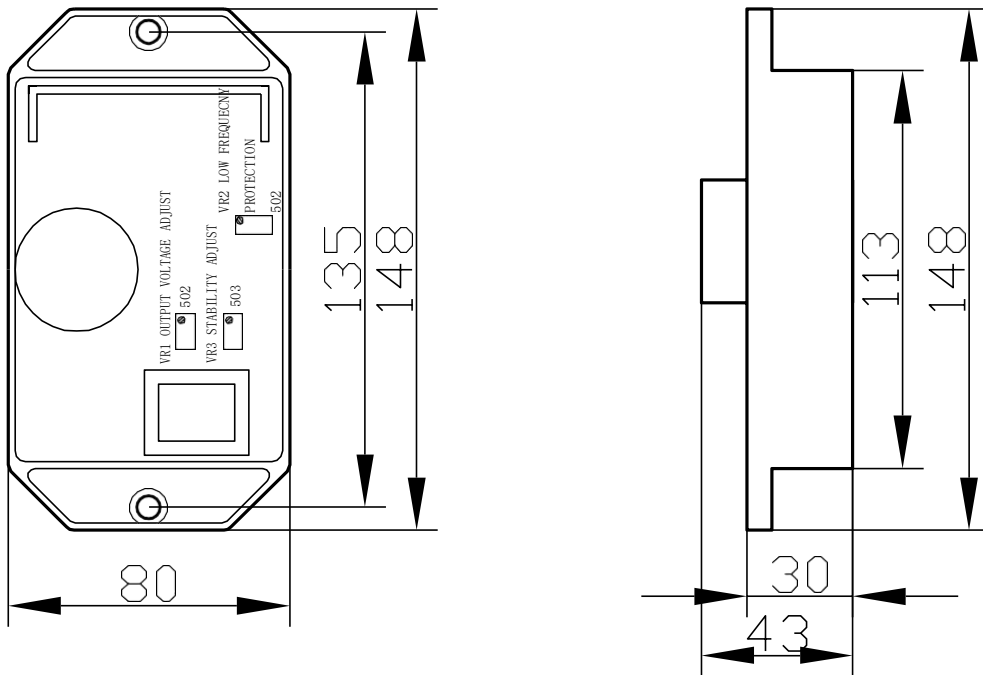


# MANUAL INSTRUCTIONS

KI - DAVR- 95S 、 KI - DAVR- 150S 、 KI-DAVR-95S-A



DIMENTION

## 1. SPECIFICATIONS

**SENSING INPUT** Auxiliary winding voltage 75VAC  
 Sample winding voltage 105VAC

**Accuracy**  $\lt \pm 5\%$  (engine speed change  $\lt 4\%$ )

**SIZE** (L\*W\*H) 148mm\*80mm\*43mm

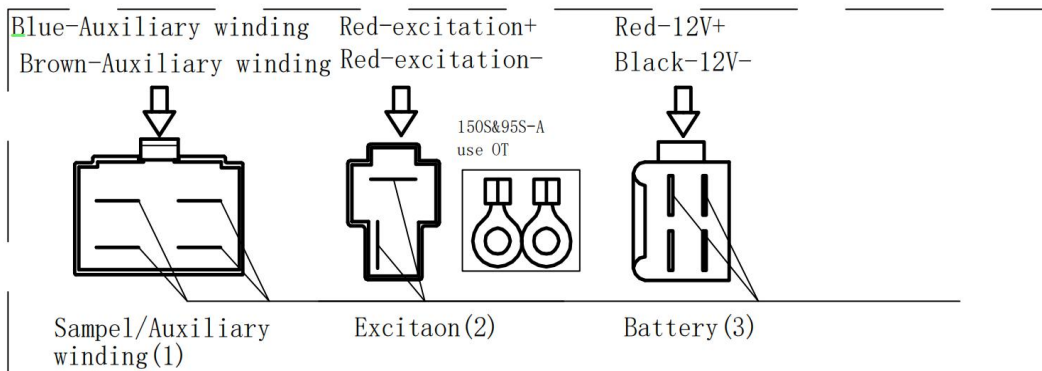
**Voltage range:** ~170 255V

G. W. 400g

**EMI suppression** Built-in surge absorber (varistor)

**Start voltage :** 5VAC

## 2. Connection



Phase 1: 1-phase 【KI-DAVR-95S; KI-DAVR-150S; KI-DAVR-95S-A】

## 3. AVR DIAGRAM AND MANUAL

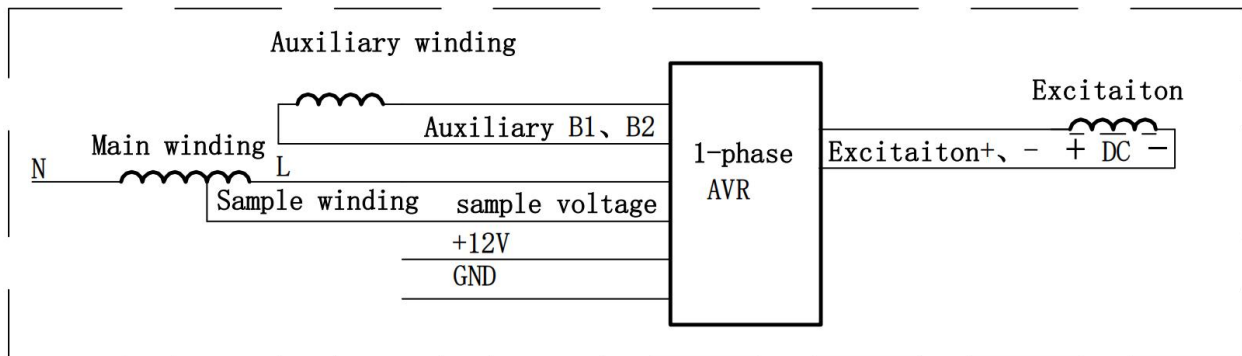


Photo 2: 1-phase generator diagram

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## 2.1 Wiring of auxiliary winding and sampling winding

[ photo1] : The two blue wires in the auxiliary and sampling winding (1) are connected to the auxiliary winding of the exciter, and the two brown wires are connected to the voltage sampling winding of the exciter ;

## 2.2 Excitation wiring "+ · - "

Excitation (2) Red connect to Exciter magnetic field "

+ " · Green connect to the magnetic field of the exciter "- " °

## 2.3 Battery Connection

Battery(3) Red connect to battery+ ; black connect to battery - ;

## 2.4 Model details & excitation :

KI-DAVR-95S normal wire+plug pins

KI-DAVR-150S normal wire+OT pins ;

KI-DAVR-95S-A longerl wire+OT pins

## 3 AVR application

### 3.1 Working principle

The brushed 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 regulation

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

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

### 3.4 AVR Output stability adjust

When adjusting "VOLT" to the rated voltage, the generator

The pressure may produce unstable swing. Adjust "STAB" clockwise to reduce the swing until it is stable. However, excessive adjustment will cause a short swing when the load changes.

### 3.5 AVR models & difference

KI-DAVR-95S : Apply for all 1phase function

KI-DAVR-150S & KI-DAVR-95S-A: Same function, only different in wire length and pins ( Refer to 2.4)