	<b>www.basler.com</b> <b>+1 618.654.2341 (USA)</b> <b>info@basler.com</b>	Model	<b>AVC Sensing Module</b>
		Part Number	<b>9488800100</b>

## INTRODUCTION

The AVC Sensing Module provides a convenient and cost-effective method for expanding the applications where AVC63-12 and AVC125-10 voltage regulators can be applied. The AVC Sensing Module increases the nominal sensing voltage of style BX AVC63-12 and AVC125-10 voltage regulators from 200/240 Vac to 480 Vac or 600 Vac. The AVC Sensing Module is compatible with nominal sensing frequencies of 50/60 Hz and 400 Hz.

A compact, rugged (potted) case enables the AVC Sensing Module to be mounted directly on the generator. Other than making connections during installation, the AVC Sensing Module requires no adjustment or calibration.

## SPECIFICATIONS

### Sensing Voltage Inputs

Configuration:	1- or 3-phase
Burden:	<1 VA
Nominal Frequency:	50, 60, or 400 Hz
Power Dissipation:	2.2 W

#### 480 Vac Nominal Input

Range:	432 to 528 Vac
Terminal Assignments:	A1, A2, A3

#### 600 Vac Nominal Input

Range:	540 to 660 Vac
Terminal Assignments:	B1, B2, B3

### Sensing Voltage Output

Nominal:	200/240 Vac
Range:	180 to 264 Vac
Terminal Assignments:	20, 24, 22

### Type Tests

Shock:	Withstands 20 G in each of three mutually perpendicular planes
Vibration:	Withstands 4.5 G at 18 to 2,000 Hz

### CE Compliance

This product has been evaluated and complies with the relevant essential requirements set forth by the EU legislation.

#### EC Directives

Low Voltage Directive (LVD):	2014/35/EU
Electromagnetic Compatibility (EMC):	2014/30/EU
Hazardous Substances (RoHS2):	2011/65/EU as amended by (EU) 2015/863

#### Harmonized Standards Used for Evaluation

- EN 50178: 1997
- EN 61000-6-2: 2005
- EN 61000-6-4: 2007, AMD 1: 2011
- IEC 63000: 2016 Ed. 1.0
- IEC 62474: 2018 Ed. 2.0

Publication	Revision	<b>Instructions</b>	Date	Copyright
<b>9488800990</b>	<b>C</b>		<b>Jan 2024</b>	<b>2024</b>

## China RoHS

China RoHS compliant.

## Physical

Temperature: –40 to 70°C (–40 to 158°F) operation and storage  
Maximum Humidity: 95%, non-condensing  
Approximate Weight: 160 g (6 oz.)

## MOUNTING

The AVC Sensing Module is housed in a potted, plastic case that can be mounted in any convenient position. Overall module dimensions and panel drilling dimensions are illustrated in Figure 1.

### Mounting Hardware

The AVC Sensing Module can be mounted directly on a genset using #10-32 or equivalent hardware. A lock washer should be used between the screw head and body of the module. Torque applied when tightening the mounting hardware should not exceed 25 inch-pounds (2.8 N•m).

## CONNECTIONS

All AVC Sensing Module connections are located on the back panel. Sensing voltage is applied to the lower, six-position terminal block. Sensing voltage is supplied to the voltage regulator from the upper, three-position terminal block. Connections consist of #6 terminal screws. Each terminal accepts a maximum wire size of 12 AWG (13 mm<sup>2</sup>). When securing connections, apply no more than 9 in-lb (1 N•m) of torque to each terminal screw.

Before connecting the module, review the terminal descriptions listed in Table 1 and the connection diagram of Figure 2. At any given time, only one of the two sets of sensing voltage input terminals can be used. Under no circumstance can both the 480 Vac and 600 Vac sensing input terminals be connected to a voltage source.

**Table 1. Terminal Descriptions**

Terminal	Description
A2	B-phase, 480 Vac nominal sensing voltage input to AVC Sensing Module
A3	C-phase, 480 Vac nominal sensing voltage input to AVC Sensing Module
A1	A-phase, 480 Vac nominal sensing voltage input to AVC Sensing Module
B2	B-phase, 600 Vac nominal sensing voltage input to AVC Sensing Module
B3	C-phase, 600 Vac nominal sensing voltage input to AVC Sensing Module
B1	A-phase, 600 Vac nominal sensing voltage input to AVC Sensing Module
22	A-phase sensing voltage output supplied to AVC63-12/AVC125-10 terminal 22
24	B-phase sensing voltage output supplied to AVC63-12/AVC125-10 terminal 24
20	C-phase sensing voltage output supplied to AVC63-12/AVC125-10 terminal 20

## MAINTENANCE

A periodic inspection of the AVC Sensing Module should be made to ensure that all connections are clean and tight.

The AVC Sensing Module contains no serviceable parts. If a failure occurs, replacement of the module is recommended.

Publication <b>9488800990</b>	Revision <b>C</b>	<b><i>Instructions</i></b>	Date <b>Jan 2024</b>	Page <b>2 of 4</b>
----------------------------------	----------------------	----------------------------	-------------------------	-----------------------

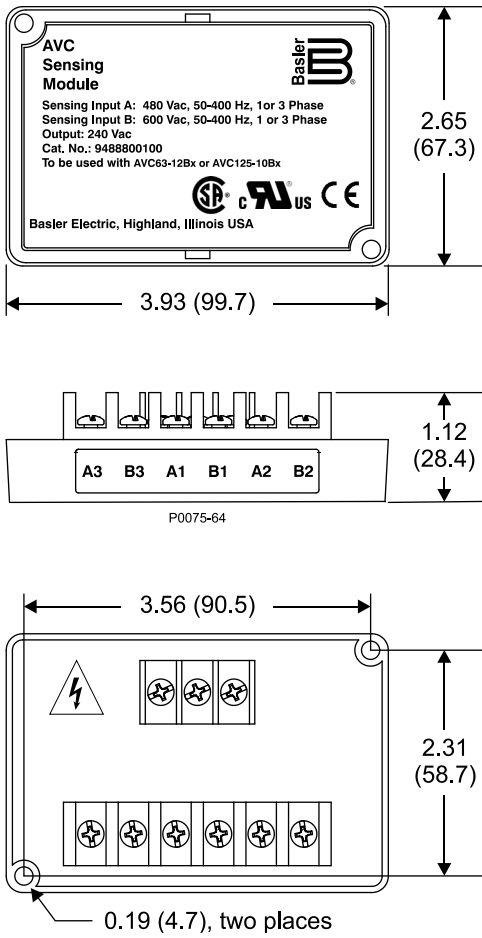


Figure 1. AVC Sensing Module Dimensions

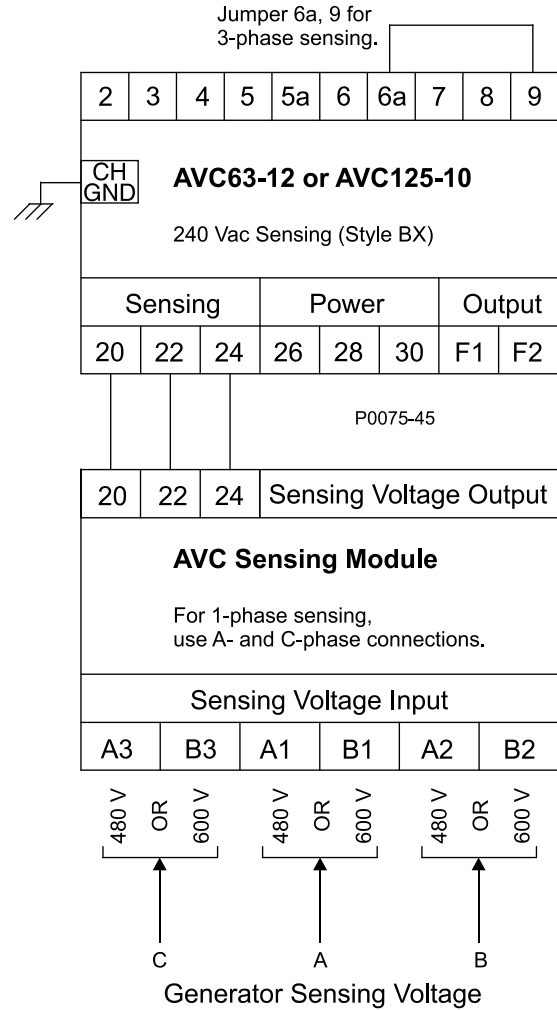


Figure 2. AVC Sensing Module Connections



Publication <b>9488800990</b>	Revision <b>C</b>	<b><i>Instructions</i></b>	Date <b>Jan 2024</b>	Page <b>4 of 4</b>
----------------------------------	----------------------	----------------------------	-------------------------	-----------------------