

Introduction

BPS Servo Controller -Digital is a total metering and control solution for servo stabilizers for a wide range of input voltage and wide range of load requirements. This reduces Designed with the latest micro-controller technology the servo controller integrates multi-parameter meters and servo AC synchronous motor controller driver.

production overheads like wiring and testing and increases the production rate of the voltage stabilizers.



Features

- Wide Range of Aux Supply from 85-280V AC (with built-in SMPS).
- Standard cut out(92 x 92) with low depth-65 mm.
- Digital Multi-Parameter Meter with 3 digit 7 segment Bright displays for –
 - a) Input Voltage
 - b) Output Voltage
 - c) Output Current
- Alarm & Fault indication by LEDs for
 - a) Over Load
 - b) Over Voltage
 - c) Under Voltage
- Motor drive- Triac based servo motor drive.
- Manual mode for field testing.
- User programmable parameters: Digitally programmable at the site with push buttons on the front panel.
 - a) Output voltage
 - b) Hysteresis- range- 0.5 to 5 V
 - c) Under Voltage cut out
 - d) Over Voltage cut out
 - e) Over Load cut out
 - f) Over Load latch/auto re-set with delay
 - g) Trip Delay Timer
 - h) On Delay Timer
 - i) CT Ratio selectable
 - j) Password protection
 - k) On delay time.
- Audio- Visual Alarm with Acknowledge / Silent
- Panel mount Ergonomic design with easy-to-operate keys

Technical Specification:

Aux. : 85 – 280 V AC
Accuracy : Class 1 [± (1% of full scale +1count)]
Resolution : 1 count in 100 or better
Display : 3 Digit 7 seg. display
Triac(motor) : Max. 6 Amp.
Weight : 270 gms (approx)
Dimensions : 96 x 96 x 65 (D) mm
CT Ratio : 5 Amps. – 900 Amps.(programmable)
Panel Cutout : 92 x 92 mm
Trip relay : 5 Amp. potential free
Buzzer : 12 V DC (Optional potential free)
Burden : 0.5 VA max.
Mounting : Panel Mounting
Ambient : 0-50 ° C humidity < 95%

Reduces assembly
& wiring time by 80%

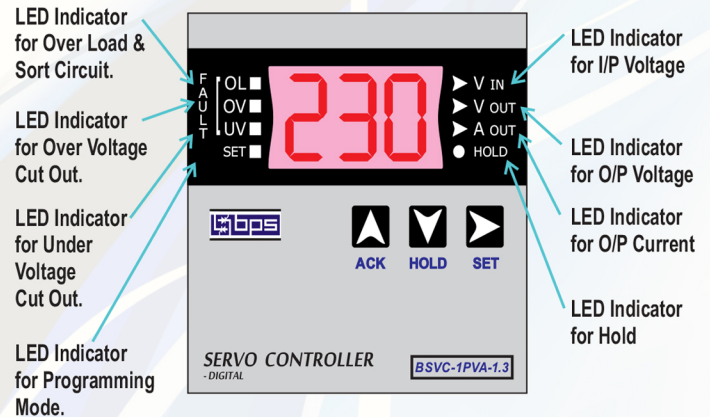
Reduce Inventory
no control cards, etc.

Tried-Tested & Accepted by
leading OEMS
approved by DGS&D

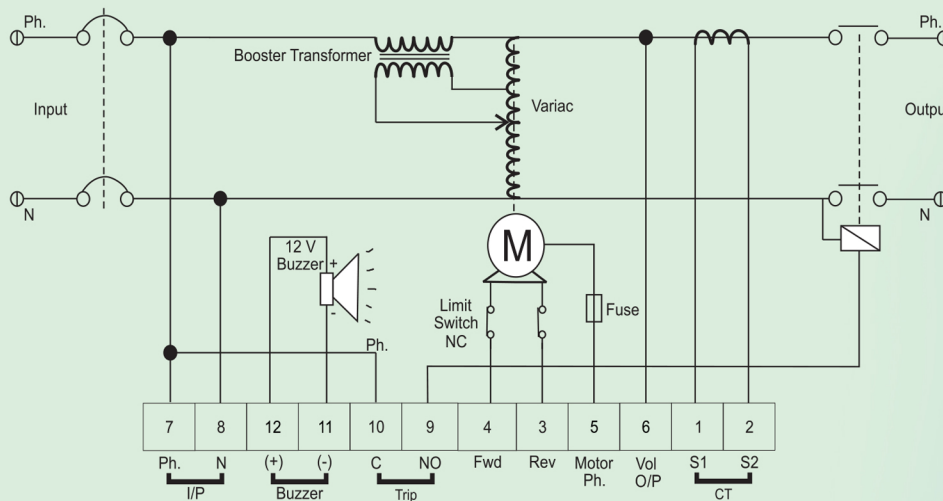
Advantages

- Single device for metering and control.
- No need for PCBs, Switches, Meters.
- Reduces assembly & wiring time by 80%.
- Reduces manufacturing cost by 70%.
- Password protection for securing mishandling by unauthorized persons.
- Generation NEXT look of the finished product.
- Enhances reliability.
- Same controller for any voltage or capacity range thus reduces inventory counts.
- Scrolling & Hold option for Display.
- Easy for servicing/replacing at the site.

FRONT FASCIA INDICATION AND DETAILS



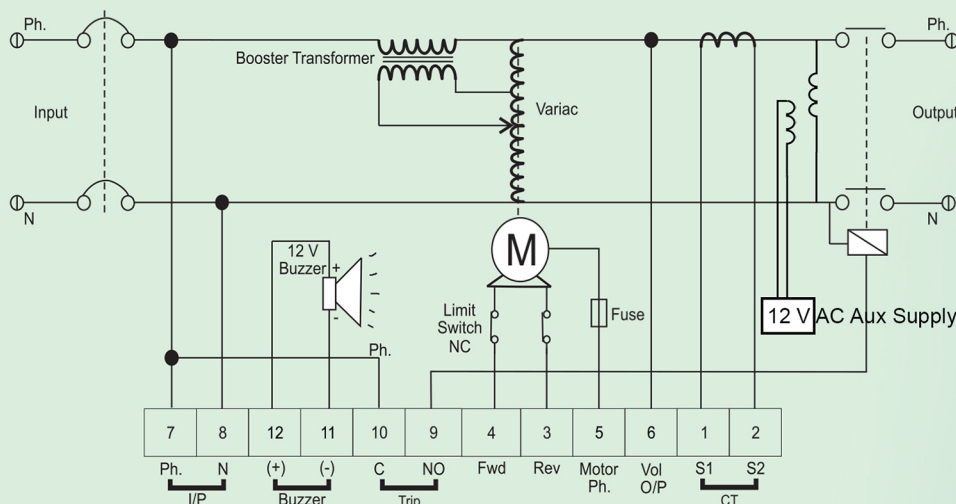
TYPICAL CONNECTION DIAGRAM FOR MODEL: BSVC-1PVA-3.1



Recommended for :

- Single Phase Servo from 10 KVA and above
- Three Phase Servo from 30KVA and above
- For three phase, 3 controllers are to be connected with fault connections (9,10) in series.
- Direct drive for Motors upto 10 Kg.
- Standard metering CT to be connected XXX/5

TYPICAL CONNECTION DIAGRAM FOR MODEL: BSVC-1PVA-4.1



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Model No.	BSVC-IPVA3.0	BSVC-IPVA3.1	BSVC-IPVA4.0	BSVC-IPVA4.1	
Phase	Single Phase				
Aux supply	230 V AC		12 V AC		
Metering	Input Volt, Output Volt, Output Current				
DISPLAY	LED- 3 digit - Scrolling- Input Volt, Output Volt, Output Amps				
Indications	Normal	LED- Volt-in, Volt out, Amps-Out, Hold			
	Fault	Output Over Load, Output Over Volt-Output Under Volt			
Settings	Output Voltage	Output Volt,			
	Output Current	Output Current, Short-circuit			
	Timer- On delay	Programable output time delay (1 to 10 Sec.)			
	Trip Delay	Programable Trip time delay (1 to 10 Sec.)			
	CT ration	Programable CT ratio setting (XX.5A)			
	Hysteresis	Programable Hysteresis-0.5 V to 5 Volt- to avoid hunting			
Protections	Password	User programable password protection (default 000)			
	Trip	Output over load- Short Circuit-Auto/ Manual Re-set			
	Over Volt	Output Over Volt- Auto Re-set			
Motor driver	Triac for Servo Motor Reverse and Forward				
Relay-Output cutout	Ext. relay 12 V	Potential free contact	Ext. relay 12 V	Potential free contact	
Hooter/ Buzzer	Inbuilt	Potential free contact	Inbuilt	Potential free contact	
TRANSFORMER	Built-in SMPS supply		transformer 230-12 V		
Connector	12 Way Detachable		12+2 Way Detachable		
Push Button	3 Nos - ACK, HOLD,SET				
Dimensions	96 X 96 (Cutout 92 x 92 mm), Depth 65 mm		96 X 96 (Cutout 92 x 92 mm), Depth 45 mm		
Special features	Aux supply- SMPS based		Transformer- based		
Accessories	CT	Electronics CT (BCT10)	XX/5 A	Electronics CT (BCT10)	XX/5 A
	Transformer	N/A		Aux Transformer 230/12 V	

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