

FSC230/10

10A, 230v
Fan and Pump Speed Controller with Signal Input



CONTACT US:

- ☎ 0044 (0) 1704-516 501
- ✉ enquiries@united-automation.com
- 🌐 www.united-automation.com

KEY FEATURES:

- ✓ Standard Din Rail mount for easy installation
- ✓ Phase angle control for precise regulation
- ✓ Integral protection for added safety.
- ✓ Built-in snubber network for enhanced control
- ✓ Compatible with input signals or Potentiometer (0-5/0-10VDC 4-20mA)
- ✓ Adjustable output power span and zero (Min Speed Set)
- ✓ Power and status LEDs for clear monitoring
- ✓ Supports loads up to 10A
- ✓ Equipped with a built-in heatsink for efficient operation.
- ✓ Integral RFI Filter.

APPLICATIONS:

- Suitable for most simple mains-driven motors and fans.

Introducing our variable phase-angle regulator, designed for 230V, 10A single-phase mains driven inductive loads like induction motors, fans, and pumps. Enjoy fully adjustable voltage outputs from zero to maximum, alongside an integrated RC snubber network for precise control of inductive loads and a zero-set speed adjuster to prevent motor sluggishness.

Featuring a large triac for handling high inrush currents, this regulator ensures safety in industrial installations.

Upgrade your control system with our versatile variable phase-angle regulator, designed for optimal performance and safety in industrial settings.

TECHNICAL SPECIFICATIONS

Mains supply +/- 10% @ 50Hz	230VAC
Maximum rms on-state current	10A
Minimum operating current	200mA
TRIAC limiting rms on state current	25A
Peak one cycle surge @ 10ms	250A
I²t for fusing	112 A ² s
Isolation voltage	2500V rms
Maximum recommended unit temperature	70°C
Minimum Signal Range	0-4V dc
Maximum Signal Range	0-25V dc
Signal zero offset (Min Speed)	+60% and -40% of Span
Manual potentiometer	5kΩ Typical
Signal input resistance	5kΩ ("V" Signal), 250Ω ("mA" Signal) ±10%
Trigger isolation voltage	2500V ac (RMS)
Trigger pulse rating	250mA in to 10Ω
Storage temperature	0°C to +65°C
Max ambient operating temperature	70°C
Dimensions (Inc DIN Enclosure)	127mm (D) by 72mm (H) by 94mm (W)
Controller Heat Dissipation	1W/A

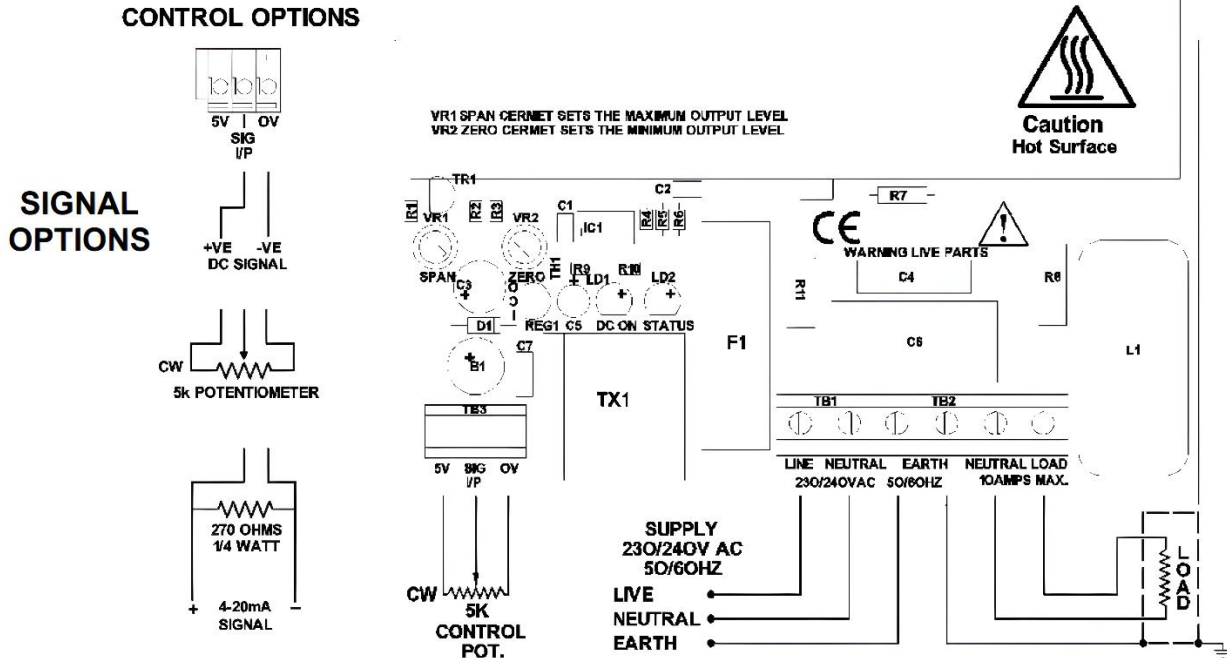
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INSTALLATION

DIMENSIONS & CONNECTIONS



SETUP AND OPERATION

INPUT SIGNAL TERMINALS (5V, SIG I/P & 0V)

The FSC230/10 supports the industry-standard signals inputs of 0-5V/0-10Vdc and 4-20mA signal or a manual potentiometer.

SPAN AND ZERO ADJUSTMENT

The Span and Zero cermets (VR2 & VR3) allow the user to set the minimum and maximum output voltage in relation to the input signal range [see Typical Control Options].

LED INDICATORS

The FSC230/10 has two LED indicators. The green 'DC ON' is lit when power is supplied to the FSC230/10 and the red 'STATUS' illuminate proportionally in respect to the output.



BMF House - Wight Moss Way,
Southport Business Park
Southport PR8 4HQ
ENGLAND

unitedautomationltd unitedautomationltd UA_Limited



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RECOMMENDATIONS

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. On initial switch on some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. See SRA datasheet for information.

DOCUMENTS

Other documents available on request, which may be appropriate for your application:

Code	Identity	Description
X10213	ITA	Interaction: Uses for phase angle and for burst fire control
X10255	SRA	Safety Requirements: Addressing the Low Voltage Directive (LVD) including, Thermal Data/Cooling, Live Parts Warning, Earthing Requirements and Fusing Recommendations

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

OPTIONAL EXTRAS

Product Code	Product Description
A403001	Manual (5K) Potentiometer Knob and Leads
L60018	PR Dial (0-10)

PRODUCT CODE AND RELATED PRODUCT CODE

230V 10A	
Product Code	Product Description
A72290	FSC230/10 10A - 2.4kW 230v Fan Control Din Rail with RFI

Note: FSC230/10 - Custom line voltages are available.