

X10806

Fan Speed Controllers

FSC5-5A

5A, 1.1Kw, 230v

Enclosed DIN Rail Fan Speed Controller



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KEY FEATURES:

✓ **Versatile Control Signal Options:**

Accommodates various industrial needs

✓ **DIN Rail Enclosed:**

Easy and secure installation

✓ **LED Indicators:** Power and status indicators for quick diagnostics

✓ **Phase Angle Mode with Soft-Start:** Ensures smooth power delivery and equipment protection

✓ **Integrated Protection:** Mains fuse and Class A RFI filter for reliable operation

The **FSC5-5A Fan Speed Controller** is a powerful and versatile solution for managing single-phase 230V fan loads up to 5A. Designed for industrial and commercial applications, this 1.1KW controller provides smooth, proportional control of fan motors, small transformers, and resistive loads like heaters. Its phase-angle mode operation, combined with a soft-start feature, ensures precise and reliable performance. Housed in a DIN rail enclosure, the FSC5-5A is easy to install and maintain, making it an ideal choice for a wide range of HVAC and process control systems.

Optimise your HVAC and process control systems with the FSC5-5A Fan Speed Controller—reliable, efficient, and easy to install.

APPLICATIONS:

- Ideal for controlling fan motors.
- Suitable for small transformers and resistive loads such as heaters.
- Perfect for industrial processes requiring smooth power control.

TECHNICAL SPECIFICATIONS

Mains Voltage	230V ac +10% - 6%
Signal Span Minimum	0 to 5V dc
Signal Span Maximum	0 to 25V dc
Signal Zero Offset	0-30% of Span
Signal Input	0-5Vdc/factory default
Manual Potentiometer	5K
Soft Start Time Constant	1 second fixed
Isolation Voltage	2500V RMS
Auxiliary Output	5V dc
Triac Limiting RMS Current	16A
Peak Single Cycle Surge Current	150A
Max. Peak Voltage	600V
Current Rating	5A
Replacement Fuse	8A 32mm FF
Storage Temperature	-20°C to 85°C
Max. Working Temperature	75°C heatsink
Dimensions	
Enclosure with Heatsink	W72 x H113 x D68mm



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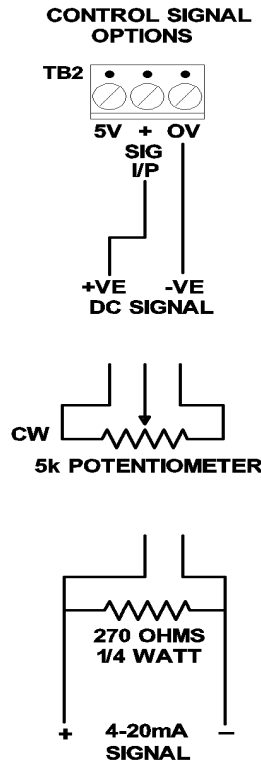
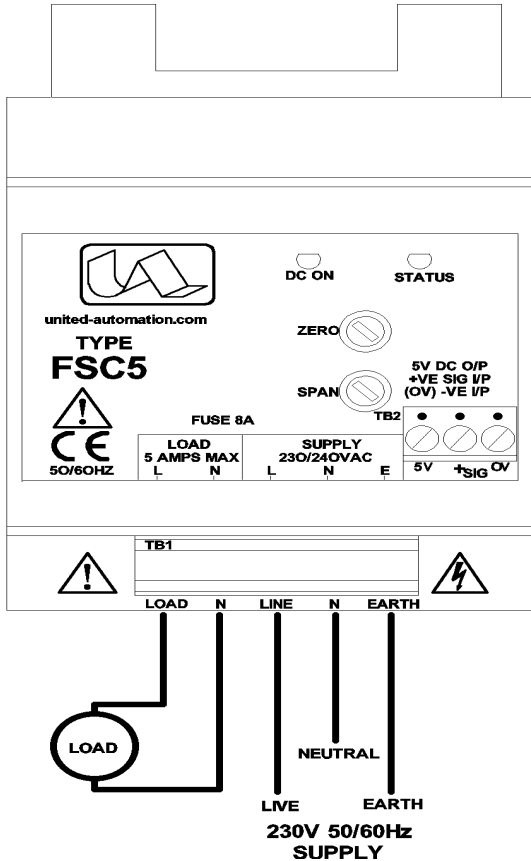


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INSTALLATION CONNECTIONS



WARNING!
Isolate supply when carrying out any servicing work on this controller.

COOLING REQUIREMENTS

The heatsink rating for the standard controller is designed for natural cooling. If the controller is installed within an enclosure or cabinet, it is crucial to ensure adequate ventilation or to install forced cooling systems. When thermal trips are included, it is recommended that they be wired in line with the signal to automatically shut off power in the event of overheating.

Special attention is required for unusual heating loads, such as those involving Molybdenum, Platinum, or Tungsten, which typically exhibit a 10:1 hot-to-cold resistance ratio. These materials can draw significantly higher currents when cold. Transformers and other inductive loads also experience surge starting currents and must be paired with the correct type of phase-angle firing circuit. Such surge-prone loads should be specified at the time of ordering to ensure that appropriate slow-start mechanisms or higher-rated units are supplied to meet specific requirements.

Note: The unit is factory-set for manual control or 0-5V DC input. For 4-20mA control, a 270Ω resistor must be fitted across the '+' and '0V' terminals, and the zero and span adjusters will need recalibration.



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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.

CE Marking

This product family carries a "CE marking". The 1.1KW phase angle controller may require a suitable remote filter. For information see the recommendation section and contact our sales desk. (See Declaration of Conformity).

DOCUMENTS

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

Code	Identity	Description
X10229	RFI	Filter recommendations: Addressing the EMC Directive
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
-	270R ¼ W Resistor
A403001	Manual (5K) Potentiometer Knob and Leads

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A72297	FSC5-5A, 1.1kW, 230v - Enclosed DIN Rail Fan Speed Controller



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