



## FSC5 - 5A ENCLOSED DIN RAIL FAN SPEED CONTROLLER

**DIN RAIL  
FAN SPEED  
CONTROLLER  
X10806**

### INTRODUCTION

This 1.1KW fan speed controller is available for single phase, 230V applications. The unit can control loads of up to 5A, with a number of signal control options. The controllers are assembled to suit the fan load with an integral fuse. Operating in phase angle mode and mounted in a din rail enclosure for ease of installation.

### APPLICATIONS

Suitable for controlling fan motors, but also could be used to control small transformers and resistive loads such as heaters. The solid state SCR gives smooth proportional control of all types of industrial processes.

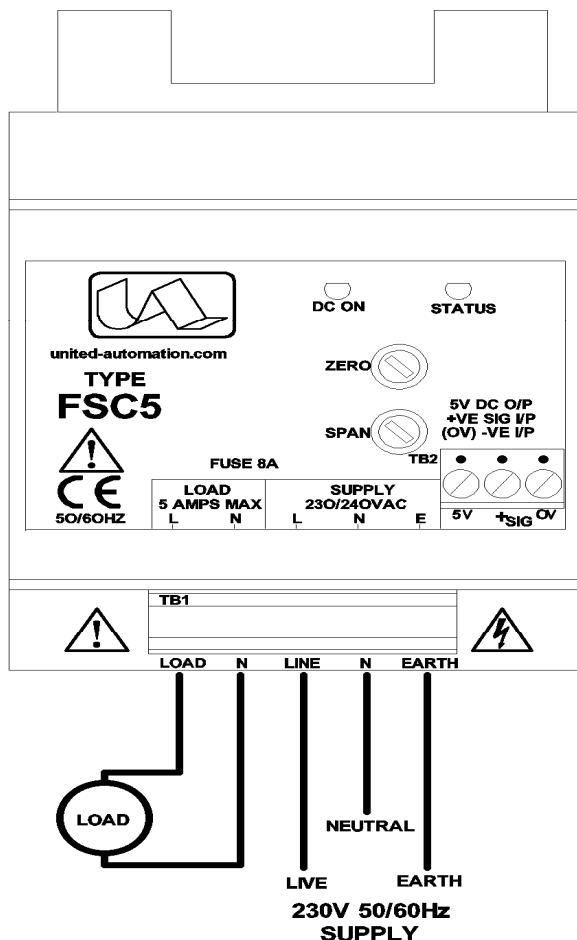
### FEATURES

- Wide range of Control Signal Options.
- DIN RAIL Enclosed
- Power and status LED indication
- Phase angle mode of operation with Soft-Start.
- Mains protection fuse fitted.
- Integral class A RFI filter

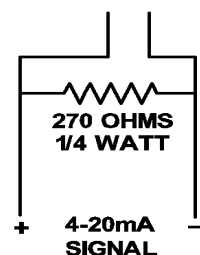
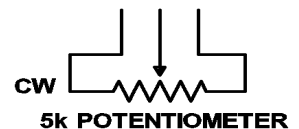
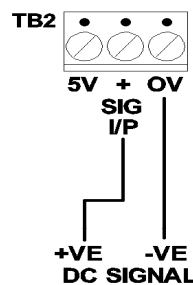


### Connections

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



#### CONTROL SIGNAL OPTIONS



## **INSTALLATION**

### **COOLING REQUIREMENTS**

Heatsink rating for standard controller is calculated when naturally cooled. If mounted in an enclosure or Cabinet, adequate ventilation and/or forced cooling should be fitted. When thermal trips are fitted we recommend that they are wired in line with the signal, so as to switch off the power in an over temperature situation.

Unusual heating loads such as Molybdenum, Platinum or Tungsten, typically have a 10 to 1 hot to cold resistance ratio and therefore when cold, draw larger currents than normal. Transformers and other inductive loads have surge starting currents and require the correct type of phase angle firing circuit. These and similar types of surge loads, should be indicated, so that appropriate slow start or larger rated units can be correctly supplied for the specific needs.

Note: The unit is factory set for manual control or 0-5Vdc. For 4-20mA, a 270R resistor will be required to be fitted across the '+' & '0v' terminals and the zero & span adjusters will need recalibrating

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

### **DIMENSIONS**

Enclosure with Heatsink W72 x H113 x D68mm

## **FUSING**

The unit comes with an integral 8A Protection fuse (32mm FF type). On initial "switch" on, some loads may need an increased Factor of Safety (F of S) for Unit and/or Device protection. See SRA Data sheet for further 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 recommendation section and contact our sales desk. (See Declaration of Conformity).

## **RECOMMENDATIONS**

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

<b>CODE</b>	<b>IDENTITY</b>	<b>DESCRIPTION</b>
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 & Earth requirements; Fusing recommendations.
	AP02/4	COS UAL Conditions of sale.

**NOTE** It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.E. wiring regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding safety of electrical equipment. For International Standards refer to I.E.C/ directive IEC 950.

## **ORDER CODE**

State part number: A72297 – FSC5

Optional extras include: 270R ¼ W Resistor, 5k Potentiometer



## **UNITED AUTOMATION LIMITED**

Southport Business Park  
Wight Moss Way  
Southport, PR8 4HQ  
ENGLAND

Tel: 0044 (0) 1704 – 516500  
Fax: 0044 (0) 1704 – 516501  
enquiries@united-automation.com  
[www.united-automation.com](http://www.united-automation.com)

