

Auto Transformer Speed Controls 3 Phase Installation Guide

Important

Installation must be carried out by qualified personnel in accordance with the appropriate authority and conforming to all statutory and governing regulations eg. IEE, CIBSE, COHSE etc.

Isolation

Before commencing work ensure the electrical supply is disconnected.

NOTE: The circuit must be protected by suitably sized MCB or motor rated fuses.

Electrical information

Voltage: 400V 3ph 50Hz

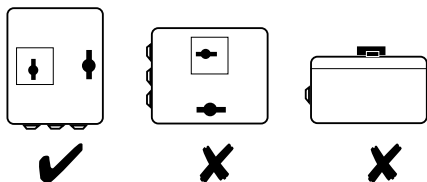
Model	Max. current
3SPCON1.5	1.5
3SPCON2.5	2.5
3SPCON4.0	4.0
3SPCON8.0	8.0

Installation

Mounting the control

ISOLATE ELECTRICAL SUPPLY.

Fig. 1. Correct mounting.



Note: the unit must be mounted on a secure, vibration free vertical surface away from direct heat sources or water spray. The maximum permissible ambient temperature is 40°C.

Turn the front knob to the OFF position. Remove the front cover (4 screws). Select a suitable flat surface. Note the unit must be mounted vertically with the cable entry at the bottom (see figure 1). Mark through the casing rear fixing holes (cable access at bottom).

Drill and plug the mounting surface as necessary. Mount the case using suitable fixing screws (not supplied). Bring the motor and mains cables (these must be of a correct diameter size for the purpose) through the case glands or grommets and connect to the controls terminal block as shown. Restore mains supply and switch control on.

Control application

This control is only for use with three phase fans that are suitable for speed control.

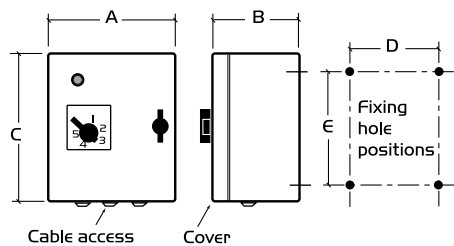
The fan motor used should be internally protected from overheating.

In case of faulty operation

Check that the correct voltage is applied and that all connections are correct. Check the fan to be regulated is functional. Check the fuse at the fusebox.

Dimensions (mm)

Fig. 2



Unit Code	A	B	C	D	E
3SPCON1.5	300	150	300	98	182
3SPCON2.5	300	150	300	139	233
3SPCON4.0	250	200	300	139	233
3SPCON8.0	300	200	400	260	360

Unit Code	Weight kg
3SPCON1.5	7
3SPCON2.5	9
3SPCON4.0	14
3SPCON8.0	27.7

Connection Diagram

Fig. 3 Control terminals.

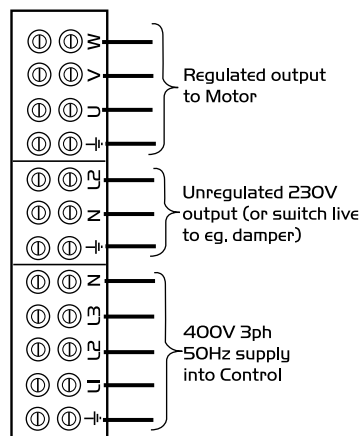
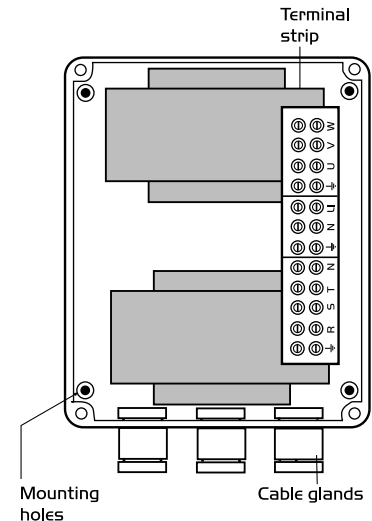


Fig. 4 Inside controller (general layout)



Maintenance

The control requires no maintenance other than cleaning. Disconnect supply and clean with a damp cloth. Do not spray any cleaning fluids onto the control.

Warranty

The 3 year warranty starts from the date of delivery and includes parts and labour for the first year. The remaining 2 years covers replacement parts only.

Service Enquiries

Nuaire can assist you in all aspects of service. Our service department will be happy to provide any assistance, initially by telephone and if necessary arrange for an engineer to call.

Telephone 029 2085 8585
Fax 029 2085 8586