



VIPER SCC

Installation & Maintenance

Installation Instructions

1.0 General

- 1.1 It is important these Installation and Maintenance Instructions are fully adhered to.
- 1.2 Full details of the unit supplied are shown on the product nameplate. If in doubt about any detail contact Elta Fans Ltd or its agents for clarification.
- 1.3 All electrical installation must be carried out by suitably qualified and competent personnel in accordance with all current statutory requirements.
- 1.4 These instructions cover only the Elta Fans Ltd product and do not include the supply or installation of any safety equipment that may be required e.g. adequate guarding or protection from rotating parts and proper electrical isolation.
- 1.5 Any declarations made by Elta Fans Ltd about product installation and safety, are dependant on the fan equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region
- 1.6 The fan is designed for use in an ambient temperature of -20°C up to +60°C and up to 95% relative humidity. The fan is not suitable for corrosive or explosive atmospheres.
- 1.7 The installer should provide easy access to the fan to facilitate future maintenance.
- 1.8 The installer should ensure the fan is adequately supported.
- 1.9 This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety. Children should be supervised to ensure that they do not play with the product.ive

2.0 Installation

WARNING – The fan must be isolated from the power supply during installation and maintenance. The fan must be earthed in accordance with the local regulations.

- 2.1 Upon receipt, the fan equipment should be visually inspected to check for any damage. Ensure that the impeller is free to rotate.
- 2.2 If there are any queries concerning the fan equipment, Elta Fans Ltd should be contacted prior to the installation.
- 2.3 The fan must be securely mounted in the desired position to suit the application. The fan can be mounted at any angle.
- 2.4 Check the details on the motor rating plate to ensure that the correct power supply (voltage, frequency and phase) is available. An incorrect power supply will lead to permanent damage to the fan motor.
- 2.5 Refer to the appropriate wiring diagram. Ensure that all earth connections are made.
- 2.6 Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.
- 2.7 Precaution must be taken to locate the exhaust discharge terminal so as to avoid the backflow of gases into the room from the open flue of gas or other fuel burning appliances.

3.0 Start-up

- 3.1 Before power is supplied to the unit, check that the wiring is correct as per the fan connection diagram.
- 3.2 At initial start-up, check that impeller rotation and airflow direction is correct.
- 3.3 Check that the motor amperage drawn does not exceed the nameplate rating.

4.0 Fan Maintenance

- 4.1 Inspection of the fan at least once every 12 months is recommended to ensure that the motor, fan blades, and supporting guards, are clean. Any build up of dust and deposits on the blades or guards should be removed using a non-abrasive cleaner.
- 4.2 All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 4.3 Bearings are of the 'sealed for life' type and will not need a detailed inspection.

WARNING – The EC fan has internal electronic overload protection and the AC fan is fitted with an auto-reset thermal cut-out which switches the fan off in the event of a fault condition.
Once the motor cools down the fan may start unexpectedly.
Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated.

5.0 Storage

- 5.1 If the fan is not to be used immediately then it should be stored in a clean, dry, vibration free and lockable location.
- 5.2 The impeller must be spun by hand (ensuring that it does not come to rest in the same position) on a monthly basis to prevent hardening of the grease and possible damage to the bearings.
- 5.3 All items to be stored on pallets that afford adequate protection from damage, dust and high humidity.
- 5.4 If storage periods of longer than 1 month are anticipated then Elta (or their Agent) should be contacted prior to storage taking place, to ensure the storage area provisions will not be detrimental to the well being of Elta products.

6.0 Guarantee

Elta Fans Ltd will, free of charge, within a period of 1 year from the date of dispatch from their works, repair or at its option replace any goods which are proved to have defects as a result of defective materials or workmanship. The goods MUST be returned to Elta Fans Ltd. carriage paid for examination.

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Wiring Diagrams

Please use the table(s) below to match up the product code and the wiring diagram number.



Single Phase 220V - 240V / 50Hz

Page No.	Product Code	Wiring Diagram No.
4	SCC250-1AC	152-177
4	SCC315-1AC	152-177
4	SCC350-1AC	152-177
4	SCC400-1AC	152-177
4	SCC450-1AC	152-177
5	SCC500-1AC	152-104A
5	SCC560-1AC	152-104A
5	SCC630-1AC	152-104A

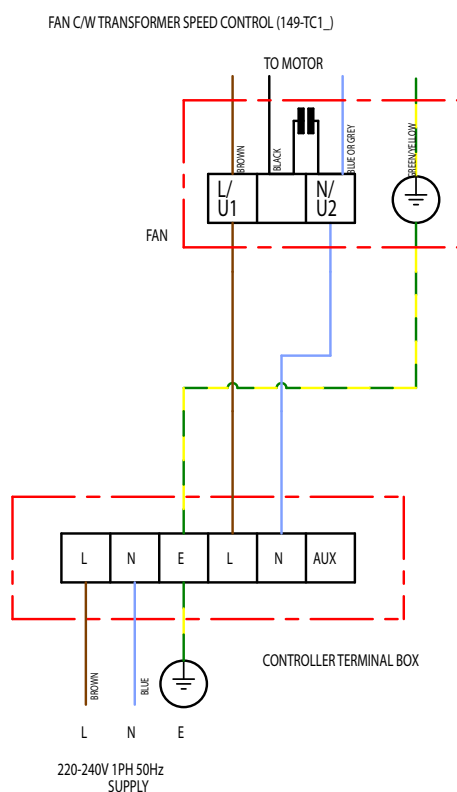
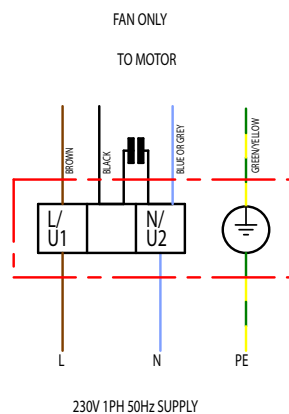


Single Phase 200V - 277V / 50Hz or 60Hz

Page No.	Product Code	Wiring Diagram No.
6	SCC250-1EC	152-00036
6	SCC315-1EC	152-00036
6	SCC350-1EC	152-00036
6	SCC400-1EC	152-00036
7	SCC450-1EC	152-00298951
8	SCC500-1EC	152-MOEA03K1
8	SCC560-1EC	152-MOEA03K1
8	SCC630-1EC	152-MOEA03K1

Three Phase 380V - 480V / 50Hz or 60Hz

Page No.	Product Code	Wiring Diagram No.
9	SCC630-3EC	152-MOEA03K3



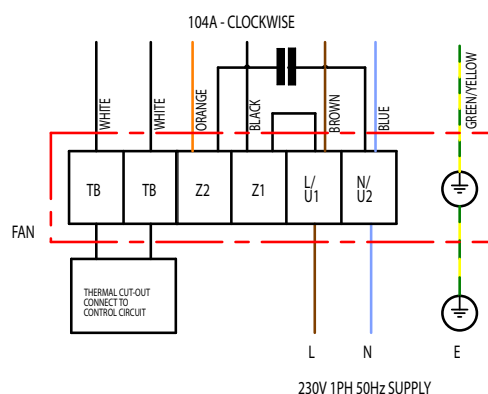
All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.

MK-152-177 Issue C: 03.11.2017

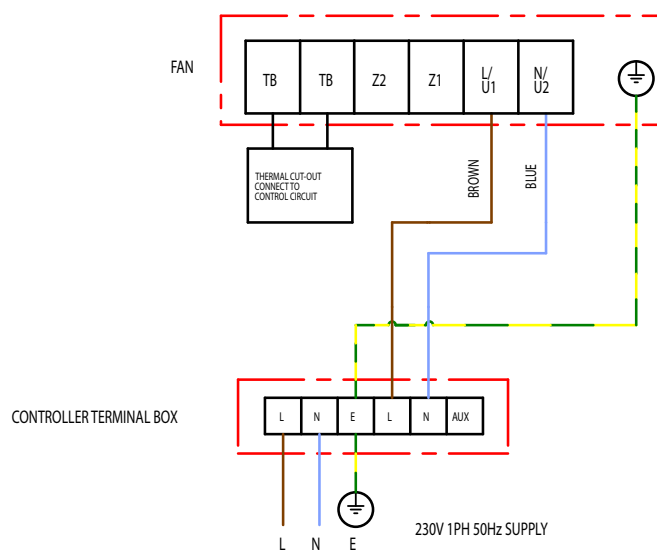
Check the individual product accessories table for fan controller compatibility.

152-104A

Wiring Diagrams



FAN C/W TRANSFORMER SPEED CONTROL (149-TC1_)

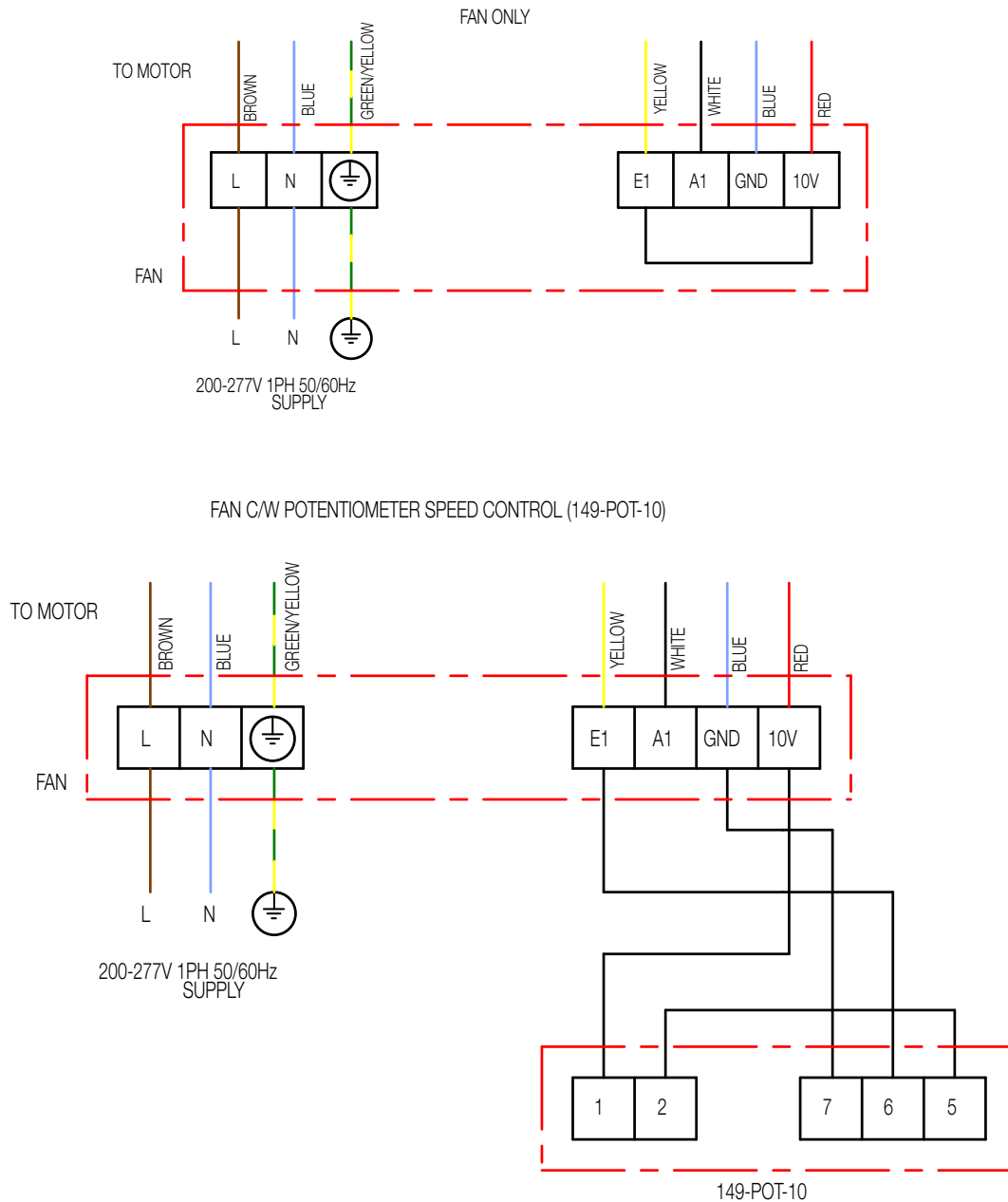


All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.

MK-152-104A Issue E: 03.11.2017

Check the individual product accessories table for fan controller compatibility.

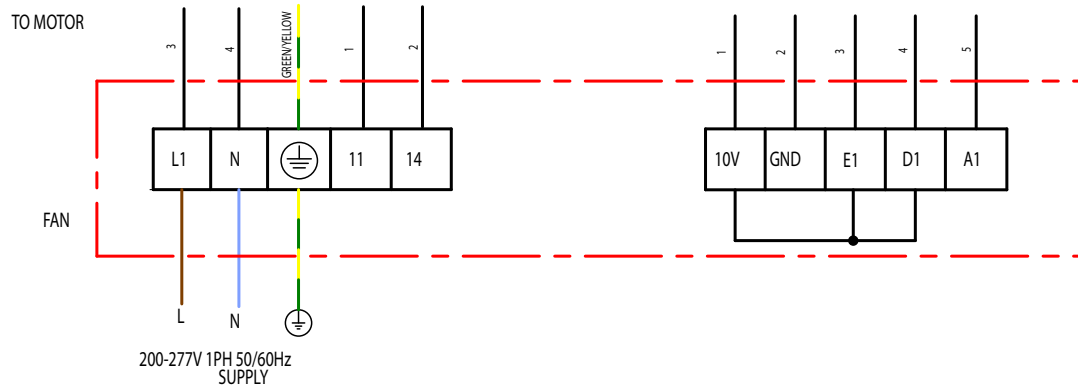
Wiring Diagrams



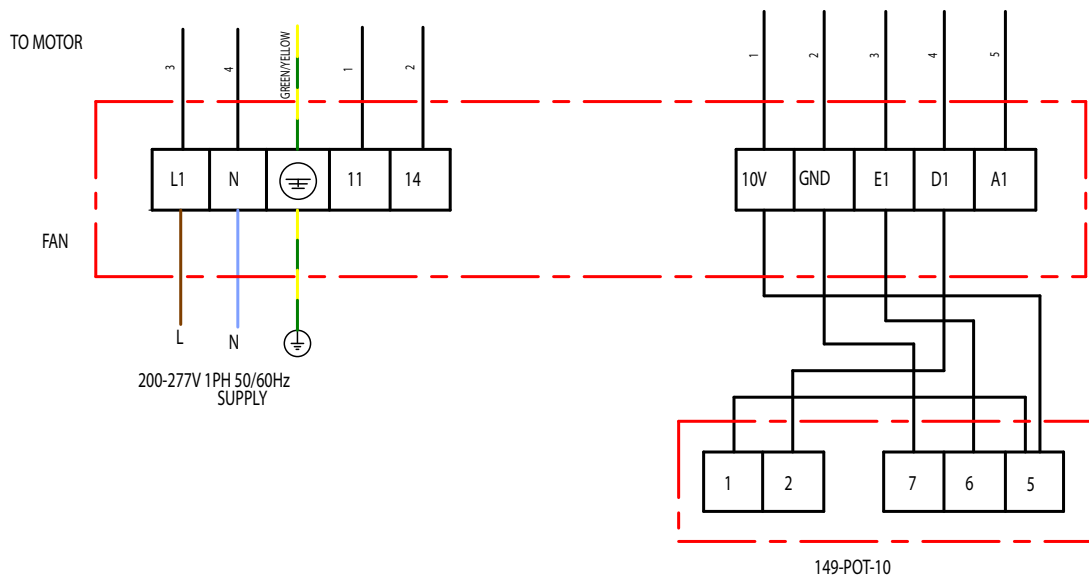
All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.
 MK-152-00036 Issue C: 11.07.2013
 Check the individual product accessories table for fan controller compatibility.

Wiring Diagrams

FAN ONLY



FAN C/W POTENTIOMETER SPEED CONTROL (149-POT-10)



All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.

MK-152-00298951 Issue A: 05.03.2014

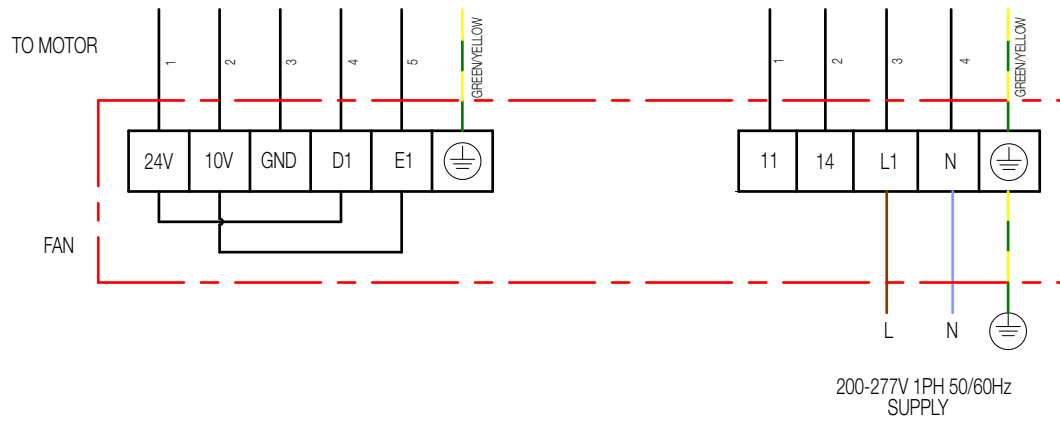
Check the individual product accessories table for fan controller compatibility.

152-MOEA03K1

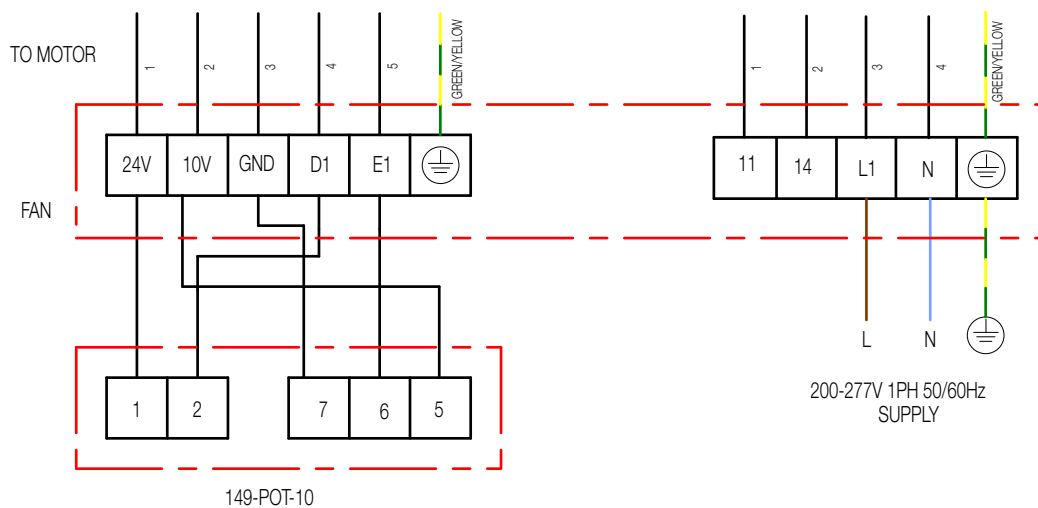


Wiring Diagrams

FAN ONLY



FAN C/W POTENTIOMETER SPEED CONTROL (149-POT-10)



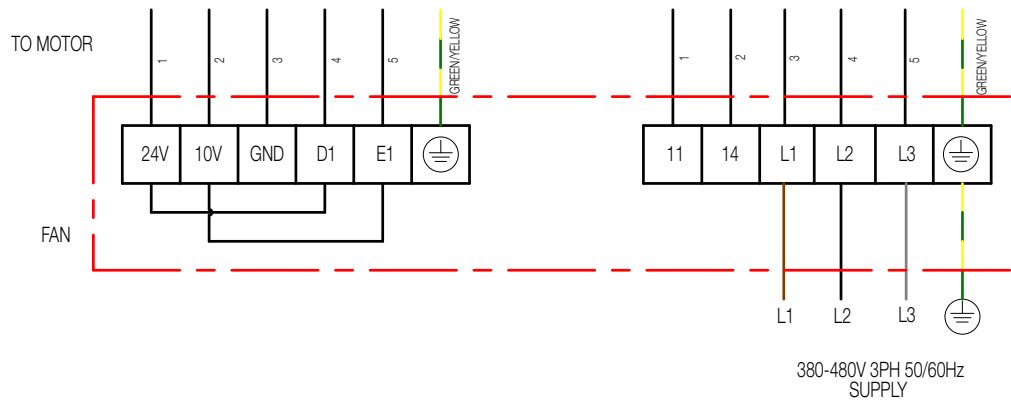
All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.
 MK-152-MOEA03K1 Issue D: 18.07.2013
 Check the individual product accessories table for fan controller compatibility.

152-MOEA03K3

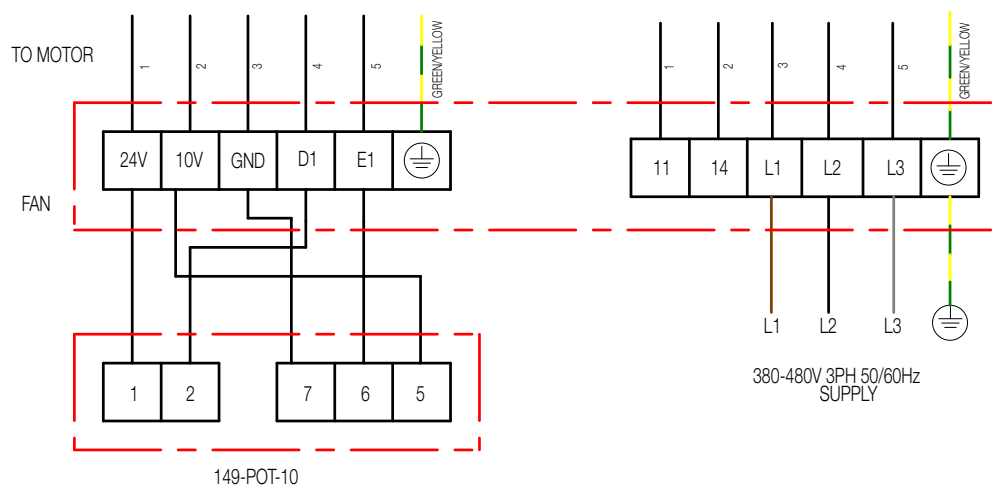


Wiring Diagrams

FAN ONLY



FAN C/W POTENTIOMETER SPEED CONTROL (149-POT-10)



All wiring and control equipment must comply to the latest IEE regulations, in particular part 552-01-02/03.
MK-152-MOEA03K3 Issue D: 18.07.2013
Check the individual product accessories table for fan controller compatibility.

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Notes

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