

Vent-Axia QP200C Single In-Line Duct Fan Range



Vent-Axia QP200C Single In Line Duct Fan Range Instruction Manual

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Vent-Axia®

Vent-Axia QP200C Single In-Line Duct Fan Range



Product Information

Specifications

- **Model Range:** QP200C, QP250C, QP315C, QP400C, QP500C
- **Operating Temperature Range:** -10°C to +40°C
- **Electrical Requirements:** Refer to the rating label for voltage, frequency, speed, phase, insulation class, and IP rating
- **Safety Compliance:** Installation must adhere to current I.E.E Wiring Regulations, BS7671 (U.K.), or applicable standards in your country

Product Usage Instructions

Installation

1. Read all instructions carefully before starting installation.
2. Ensure installation and wiring instructions are left with the end user.
3. Guard against access to rotating parts while the equipment is operating.
4. Undertake mechanical and electrical installation work according to safety instructions before switching on the unit.

Maintenance

1. Switch off and isolate the fan from the electrical supply before attempting maintenance.
2. Ensure rotating parts have completely stopped before commencing maintenance work.

Noise Reduction

Air-moving equipment may generate noise; consider products available for noise reduction from Vent-Axia.

Safety Precautions

- Supervise young children to prevent playing with the appliance.
- Do not use the appliance in corrosive or flammable atmospheres.
- Ensure adequate air replacement when installed in a room with a fuel-burning appliance.
- Keep fan intake at least 600mm away from any flue outlet.
- Avoid direct heat sources during installation.
- Avoid damaging hidden utilities during installation.

Frequently Asked Questions (FAQ)

Q: Can this appliance be installed by anyone?

- **A:** All electrical connections should be made by a qualified electrician. Installation should be done under safety regulations.

Q: What should I do if the fan generates excessive noise?

- **A:** Consider products available for noise reduction from Vent-Axia to reduce sound levels.
- PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. INSTALLATION AND WIRING INSTRUCTIONS SHOULD BE LEFT WITH THE END USER.

READ AND SAVE THESE INSTRUCTIONS

- PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION. INSTALLATION AND WIRING INSTRUCTIONS SHOULD BE LEFT WITH THE END USER.
- Air-moving equipment may present mechanical, electrical, or noise hazards. To minimize risks associated with these potential hazards, safety, installation, operation, and maintenance instructions must be followed.
- Implementation of these instructions should always be undertaken by technically competent personnel.
- Potential mechanical hazards must be eliminated by guarding against access to the rotating parts whilst the air-moving equipment is operating.
- A range of guards are available for this purpose from Vent-Axia.
- Installation work, both mechanical and electrical, must be undertaken under the safety and installation instructions before switching on the unit.
- Maintenance work should not be attempted before first switching off and isolating the fan and its control from the electrical supply and ensuring that it cannot be accidentally turned back on again. It is essential to ensure that rotating parts have come completely to rest before maintenance work commences.
- Air-moving equipment may generate unacceptable noise levels when in operation. It may be necessary to take appropriate action to reduce sound levels. A range of products are available for this purpose from Vent-Axia.
- This appliance 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 the use of this appliance by a person responsible for their safety.

- Young children should be supervised to ensure that they do not play with the appliance.

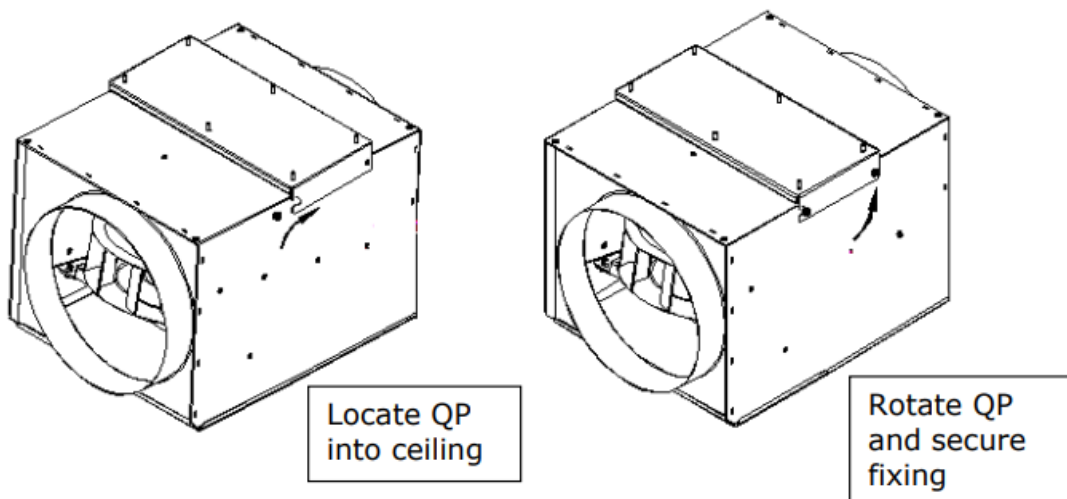
IMPORTANT

1. All electrical connections should be made by a properly qualified electrician. The fan must be sited and connected under current I.E.E Wiring Regulations, BS7671 (U.K.), or the appropriate standards in your country.
2. DO NOT use this appliance when the following are generated or present: Excessive grease or oil-laden air, corrosive or flammable atmospheres.
3. When the fan is installed in a room containing a fuel-burning appliance, the installer must ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.
4. If a fan is used to supply air into a room, the installer must ensure that the fan intake is located at least 600mm away from any flue outlet.
5. Site away from direct sources of heat. Ambient temperature range:-10oC to +40oC.
6. When installing a unit, take care not to damage electrical or other hidden utilities.
7. Check the details on the rating label for the correct voltage, frequency, speed, phase insulation class, and IP rating.
8. It is the responsibility of the installer to ensure that all aspects of system design are taken into consideration.
9. Due to the weight of the units, it is recommended that two people be involved in the installation.

FAN MOUNTING

1. Short duct runs terminating close to the fan (i.e. within 1.5m) require suitable guards.
2. The fan can be mounted in a variety of ways and at any angle to suit the application.
3. Plan the installation carefully, taking into consideration the safety points noted above, before securely fixing the fan using appropriate screws, bolts, rubber bushes, etc.
4. A range of accessories is available from Vent-Axia to assist with installation including flexible connectors, mounting feet, anti-vibration mounts, and attenuators.
5. For horizontal installations onto a flat roof or flat ceiling, a fixing bracket is provided with sizes 200 to 250.

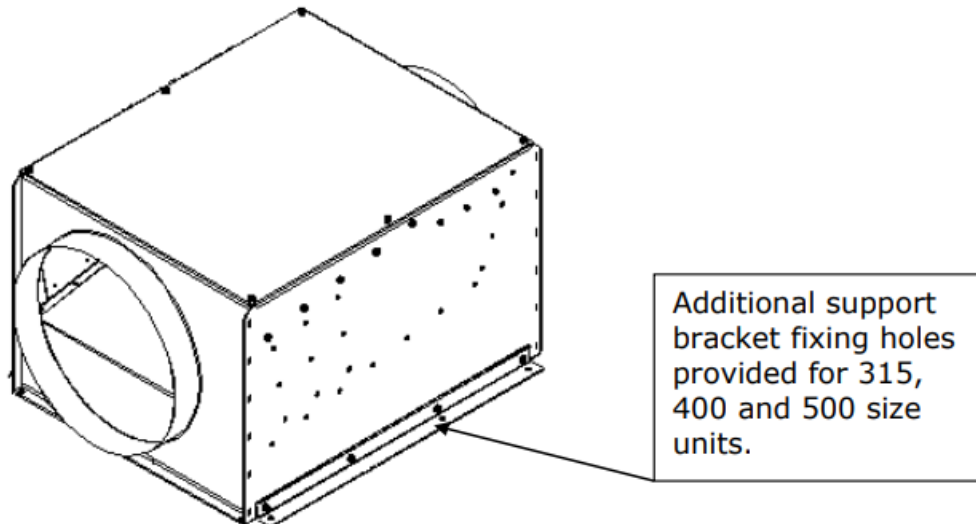
Pic. 1: Location of QP unit in overhead fixing bracket



6. If the fixing bracket is used, firstly bolt the bracket to the roof or ceiling. Latch the QP into the 2 x bracket slots, as shown, then rotate and secure with 2 further bolts (Pic. 1).

7. Tighten all bolts.
8. If the fixing bracket cannot be used, 4 x Ø10mm clearance holes are provided for roof hanger rods.
9. With the larger 315, 400 and 500 fan sizes, parallel fixing brackets are provided for both sides of the unit (Pic. 2), and because of the additional weight of these sizes, extra fixing holes are provided for additional hanger rods.

Pic. 2: Support bracket used on larger QP unit.



10. Suitable fixing means are provided by the installer for any other installation orientation other than horizontal.

GENERAL WIRING INSTRUCTIONS

WARNING – THE FAN AND ANY ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING INSTALLATION AND/OR MAINTENANCE. THE EQUIPMENT MUST BE EARTHED.

1. All electrical connections should be made by a properly qualified electrician.
2. All wiring and connections must be carried out under current regulations.
3. To comply with safety standards, an all-pole isolator switch with a contact gap of at least 3mm must be fitted adjacent to the fan.
4. Remove the main product lid to expose the main terminal block and the thermal protection block (TK) if fitted. The thermal protection device fitted is an automatic resetting type which must always be included in the circuit. For ducted applications a manual reset is required, an ancillary circuit will be required with the TK switch connected to the circuit. See page 6 for instructions.
5. Connect the power supply from the local isolator (via any appropriate controls if fitted) to the terminal block via the supplied cable gland (replace the grommet in the unit casing with the supplied cable gland) using between 4.0mm and 7.0mm diameter cable. Refer to the wiring diagrams and select the appropriate connections for the fan, controller, or other devices as being installed. If in doubt please ask.
6. **CAUTION:** To avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
7. Ensure that all earth connections have been made.
8. After making connections, replace the main product lid. Also ensure that all cable gland nuts, grommets, etc. have been used correctly.

NOTES ON RUNNING

- Before Connecting the power supply and running the Fan Check...
- Are all links and wiring complete as per the wiring diagram?
- Are all fixings secured?
- Are all relevant guards fitted?
- Are all Circuit protection devices fitted?
- Are all Terminal box covers and sealing glands secured?
- Are all Earth connections secured?
- Check that no hazard exists for persons in the locality of the fan. Switch on the fan and check that the fan rotation is correct as per the direction arrows on the fan plate/casing. If not isolate the power supply and check the wiring.
- Check that the current (amps) taken by the fan does not exceed the current shown on the rating plate.

INSTALLER AND ELECTRICAL CONTRACTOR RESPONSIBILITY

- Vent-Axia Ltd, as a supplier of the equipment, cannot be responsible for the final installation and electrical connection of the product on site. We have made a reasonable effort to offer guidance and assistance but the installer and electrical contractor on site have a responsibility for ensuring the equipment is safely and securely installed and electrically/mechanically safe under statutory requirements.
- The fans are supplied as a component to be incorporated into a ventilation system. The final complete system installation that includes the fans MUST meet the requirements of:-
 - **Low Voltage Directive** – 2014/35/EU
 - **Machinery Directive** – 2006/42/EC
 - Electromagnetic Compatibility Directive – 2014/30/EU
- If the fan is installed in an area where there is a possible danger to safety or health then guards MUST be fitted.
- Guards suitable for many applications are available from Vent-Axia Ltd.
- Please remember that fans need maintenance, cleaning, and inspection. Allow for reasonable access for these operations to be carried out safely.
- If in doubt, please ask.

ROUTINE INSPECTION/MAINTENANCE

- THIS MUST BE UNDERTAKEN BY A COMPETENT PERSON.
 - ISOLATE THE UNIT FROM THE ELECTRICAL SUPPLY AND ENSURE THAT IT CAN BE ACCIDENTALLY TURNED BACK ON.
1. We recommend that after three months the fan should be inspected and cleaned to remove deposits on the impeller or motor. Thereafter, it should be checked and cleaned periodically as experience dictates, or at least twice a year.
 2. If a build-up of dirt/deposits is evident then this should be carefully cleaned off. Please take care not to damage the fan or affect the balance of the impeller motor assembly (balance weights may be fitted to the impeller).
 3. The fan motors are fitted with 'sealed for life' bearings and should not require maintenance under normal

circumstances.

Wiring Diagrams

Important Notes:

- For ducted applications, the Thermal Protector (TK) must be connected to a control circuit to ensure that the fan cannot restart before the fault condition is cleared and the circuit manually reset.
- To comply with the above statement, this product is intended for use with Vent-Axia overload relays or controls listed below.

Vent-Axia D.O.L. Starter/Overload and Speed Controller stock reference numbers:

Product	Starter	Overload	Electronic Controller	Electronic Controller	Auto Transformer Controller
QP250C	–	–	W10303102M	10303103A	10314103A
QP315C	444744	444700	–	10303103A	10314103A
QP400C	444744	444702	–	10303103A	10314103A
QP500C	444744	444703	–	10303106A	10314105A

Product	Starter	Overload	Auto Transformer Controller	demand Voltage Controller	demand Inverter
QP200C	–	–	–	444164	444169
QP250C	–	–	–	444164	444169
QP315C	444744	444700	–	444164	444169
QP400C	444744	444702	RTRE35	444164	444169
QP500C	444744	444703	RTRE60	444164	444169

Fig. 1 QP315C. Connected to a D.O.L. starter

1 PHASE SUPPLY
(230V 50Hz)

230V D.O.L. starter

A suitable sized overload relay must be fitted to provide motor protection.

N.B. Links between terminals 1 to A1, 3 to 6, 5 to 95 and 14 to 96 must be fitted.

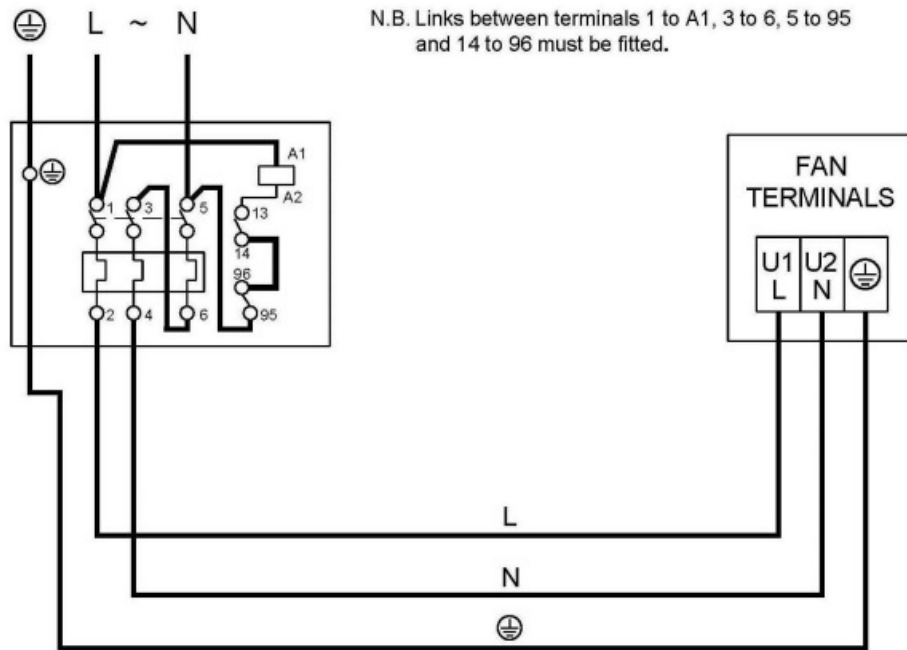


Fig. 2 QP200C, QP250C. Supply connections

Note; this diagram does not apply to QP315C!

1 PHASE SUPPLY
(230V 50Hz)

N ~ L

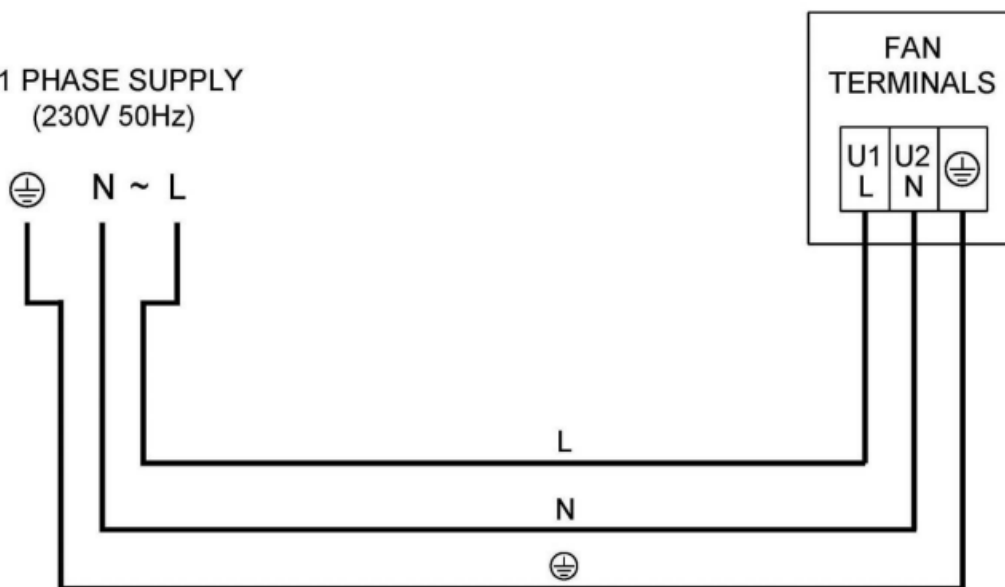


Fig. 3 QP400C, QP500C.

Connected to a D.O.L. starter

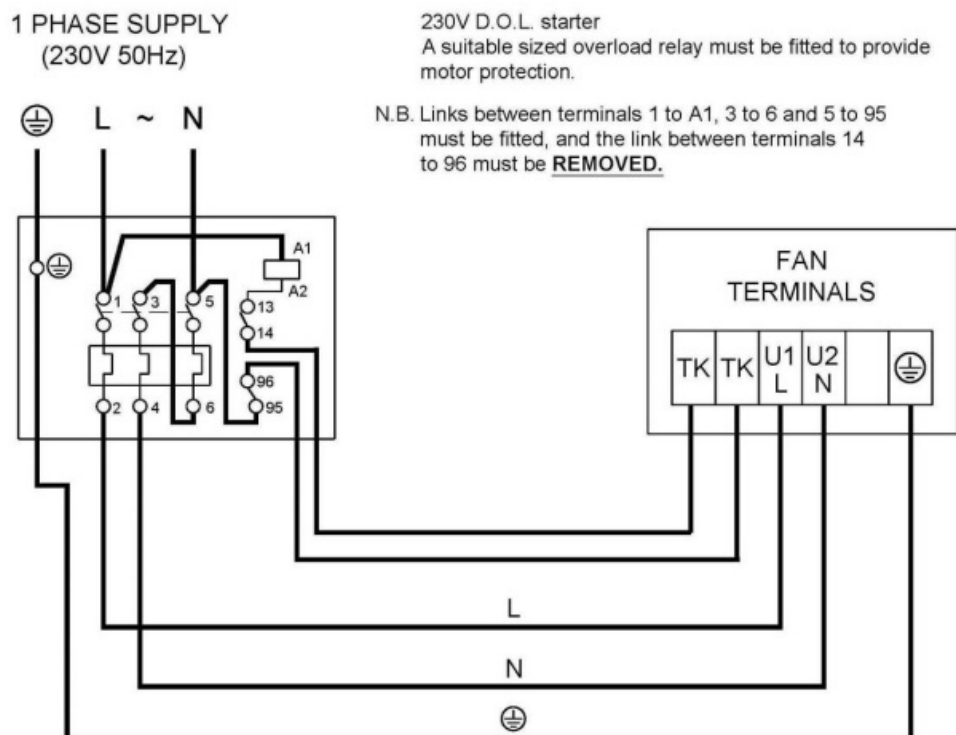


Fig. 4 QP200C, QP250C.

Connected to an electronic controller

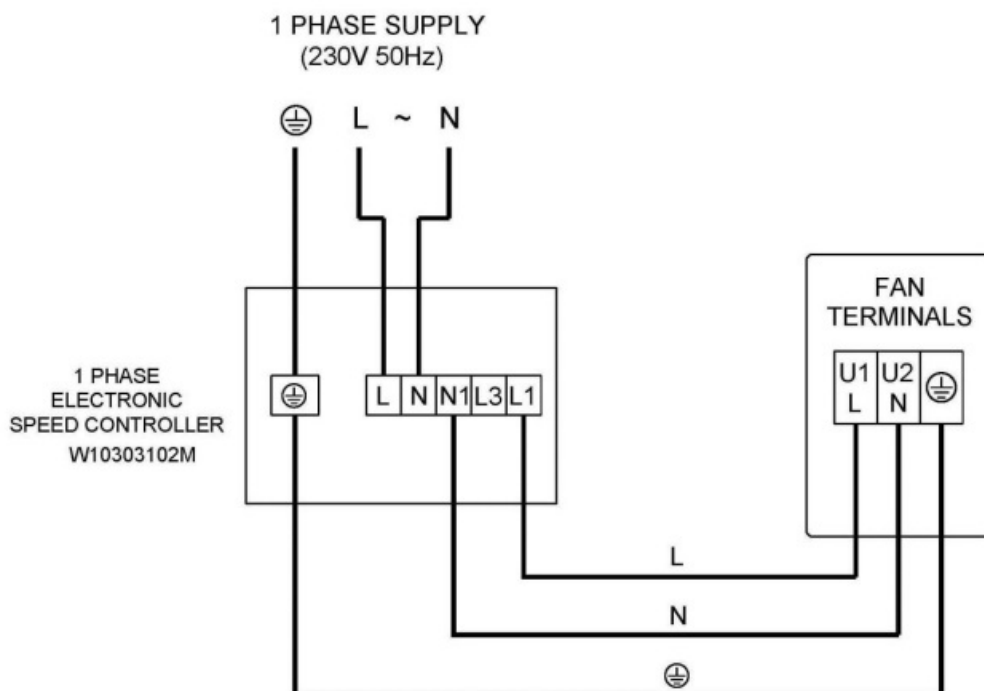


Fig. 5 QP315C.

Connected to a D.O.L. starter and electronic controller

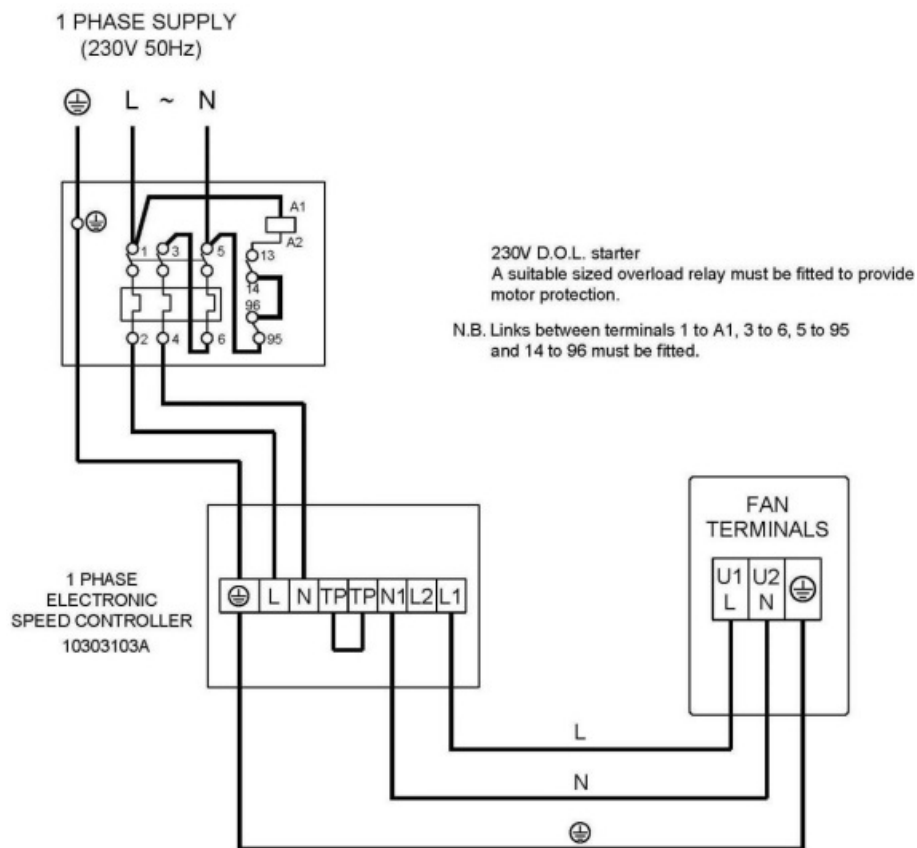


Fig. 6 QP200C, QP250C.

Connected to an electronic controller

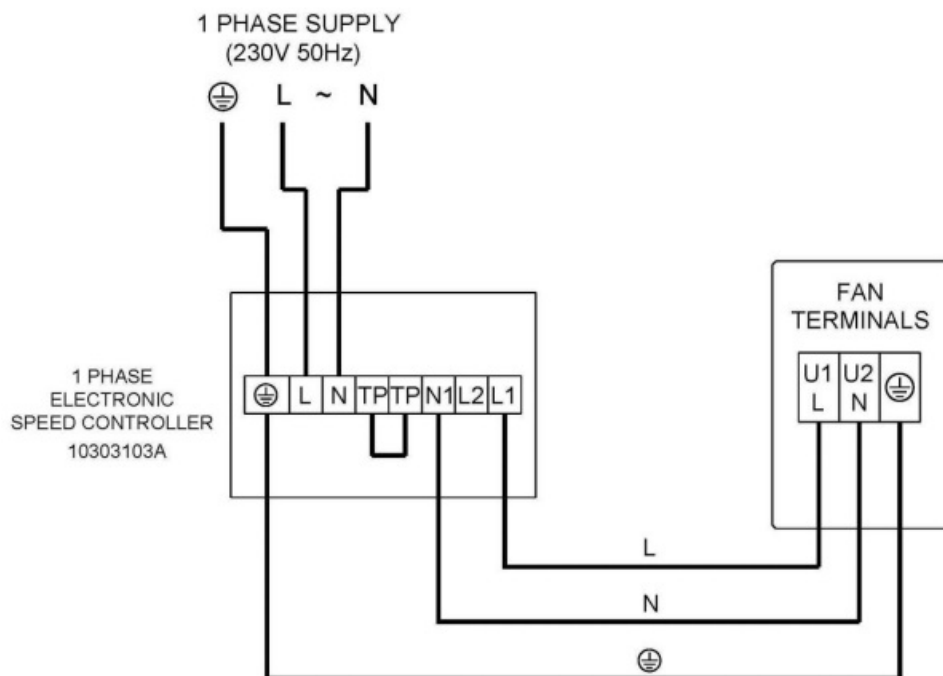


Fig. 7 QP400C, QP500C.

Connected to an electronic controller

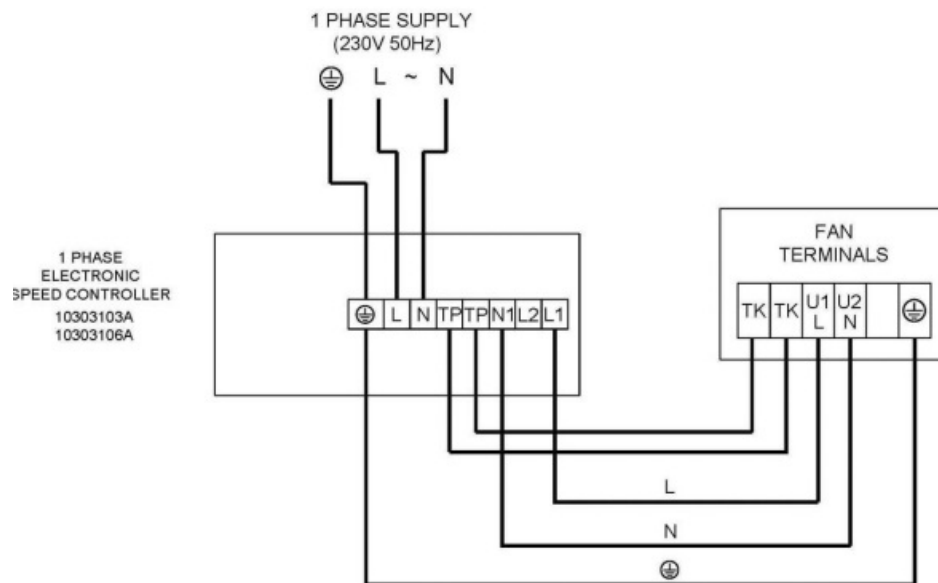


Fig. 8 QP315C.

Connected to a D.O.L. starter and auto transformer controller

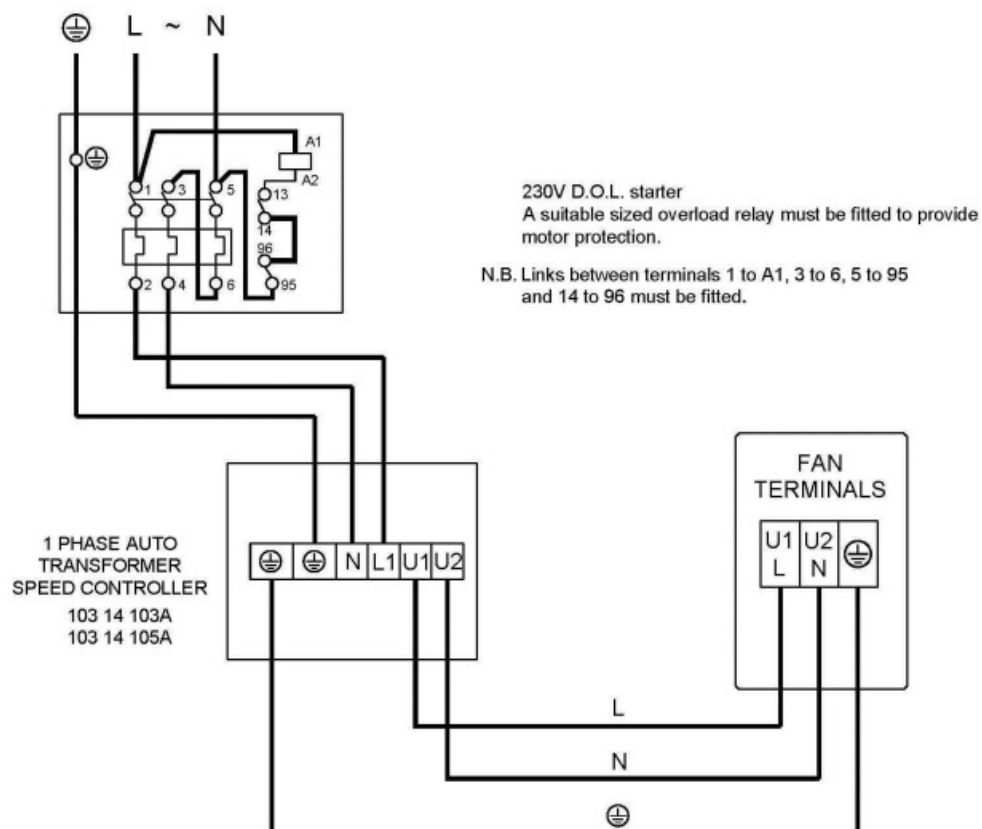


Fig. 9 QP200C, QP250C.

Connected to an autotransformer controller

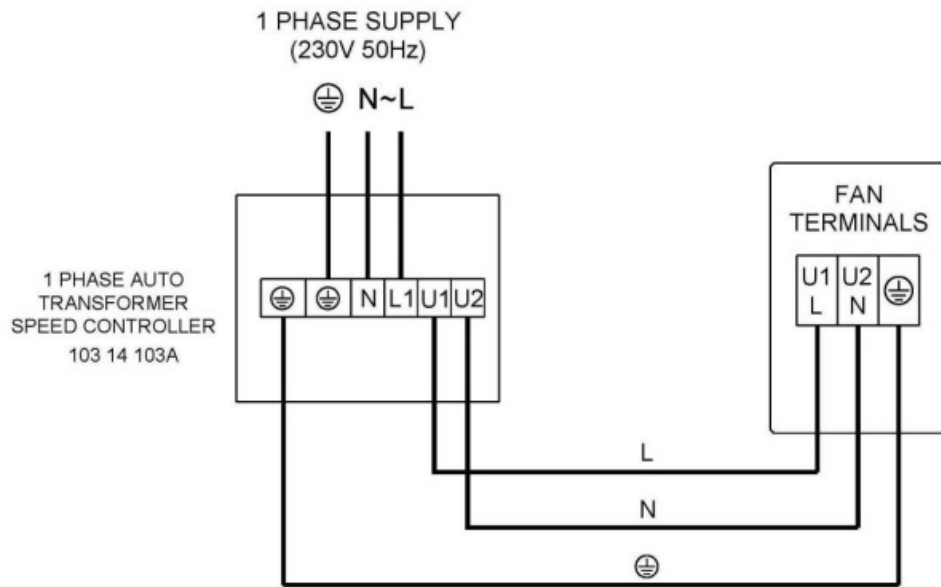


Fig. 10 QP400C, QP500C.

Connected to a D.O.L. starter and auto transformer controller

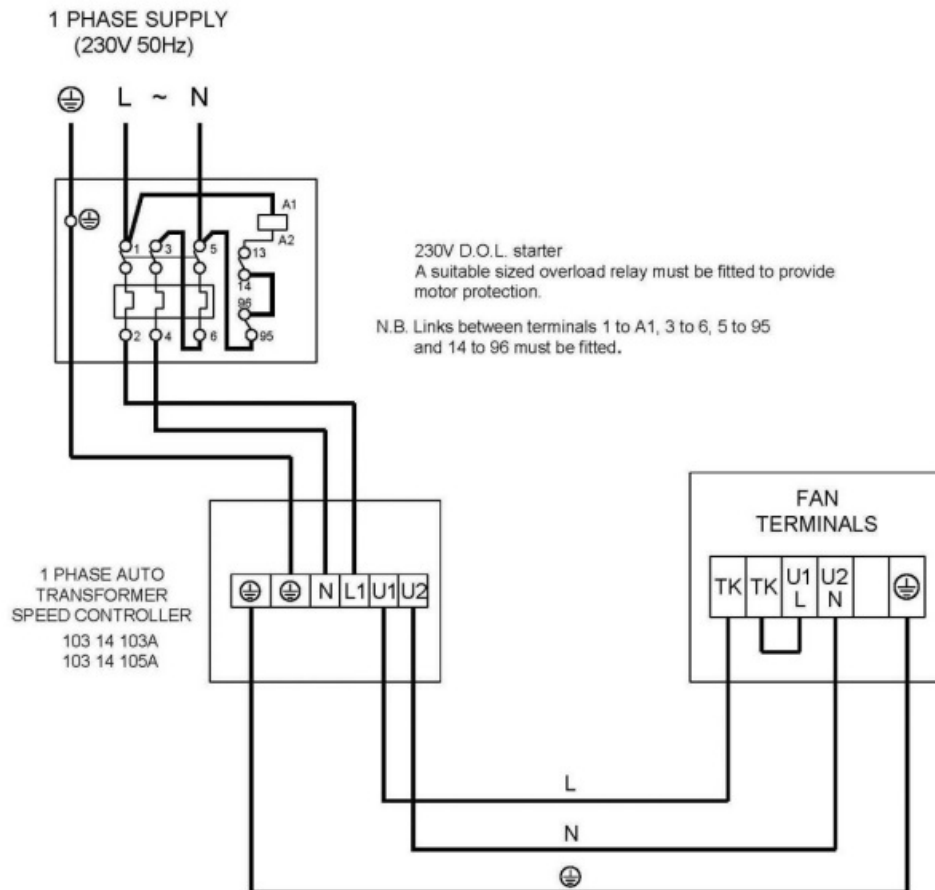


Fig. 11 QP400C, QP500C.

Connected to an autotransformer controller

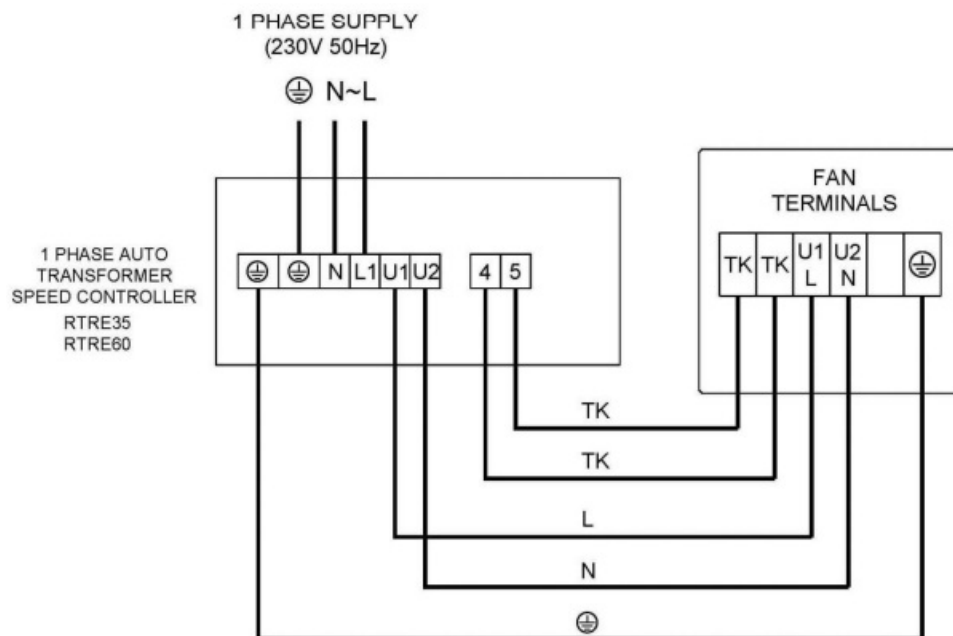


Fig. 12 QP315C.

Connected to a D.O.L. starter and a demand voltage controller

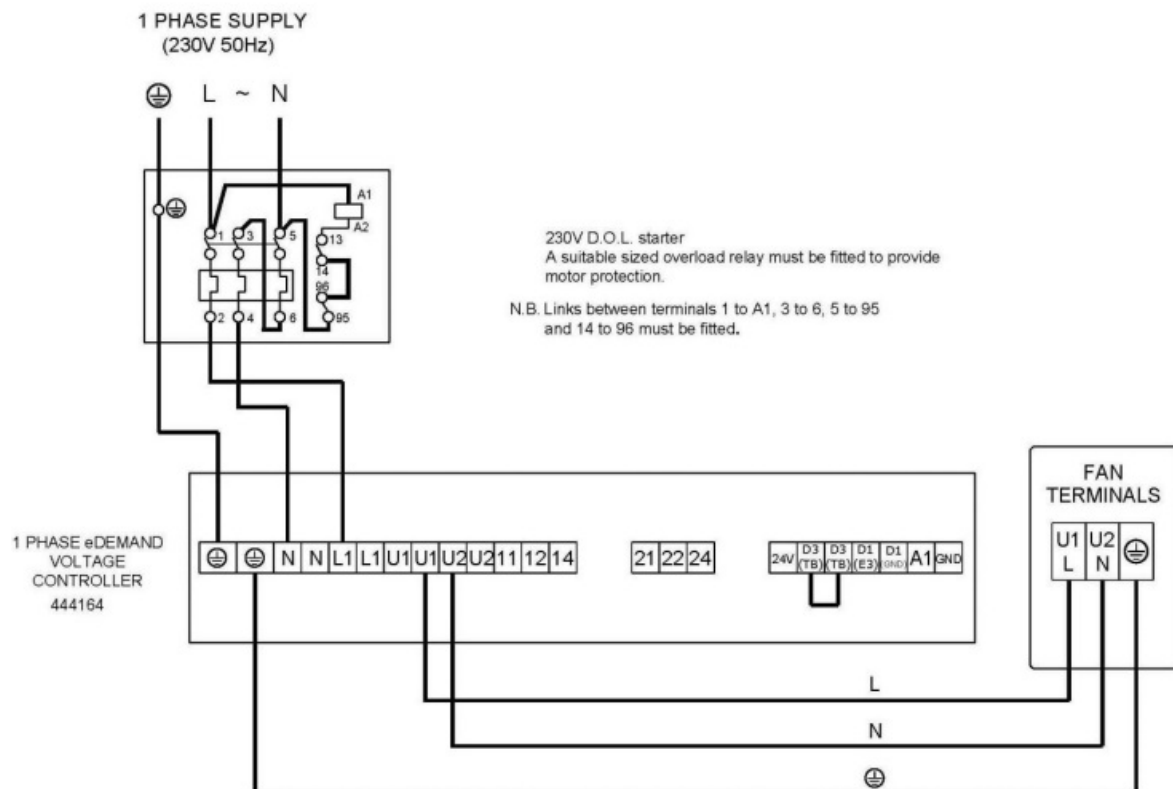


Fig. 13 QP200C, QP250C.

Connected to a demand voltage controller

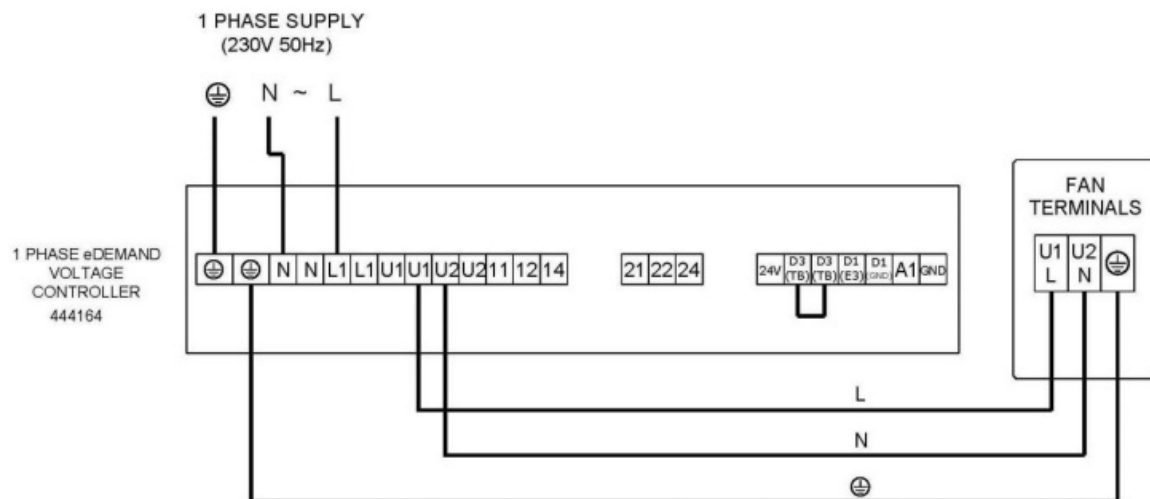


Fig. 14 QP400C, QP500C.

Connected to an eDemand voltage controller

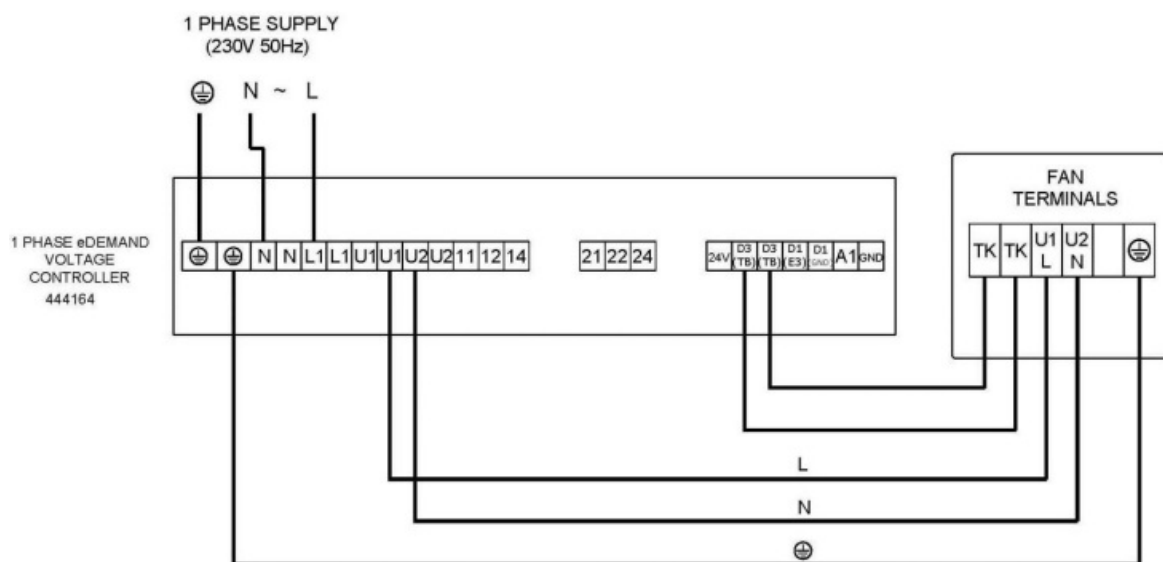


Fig. 15 QP315C.

Connected to a D.O.L. starter and an eDemand inverter

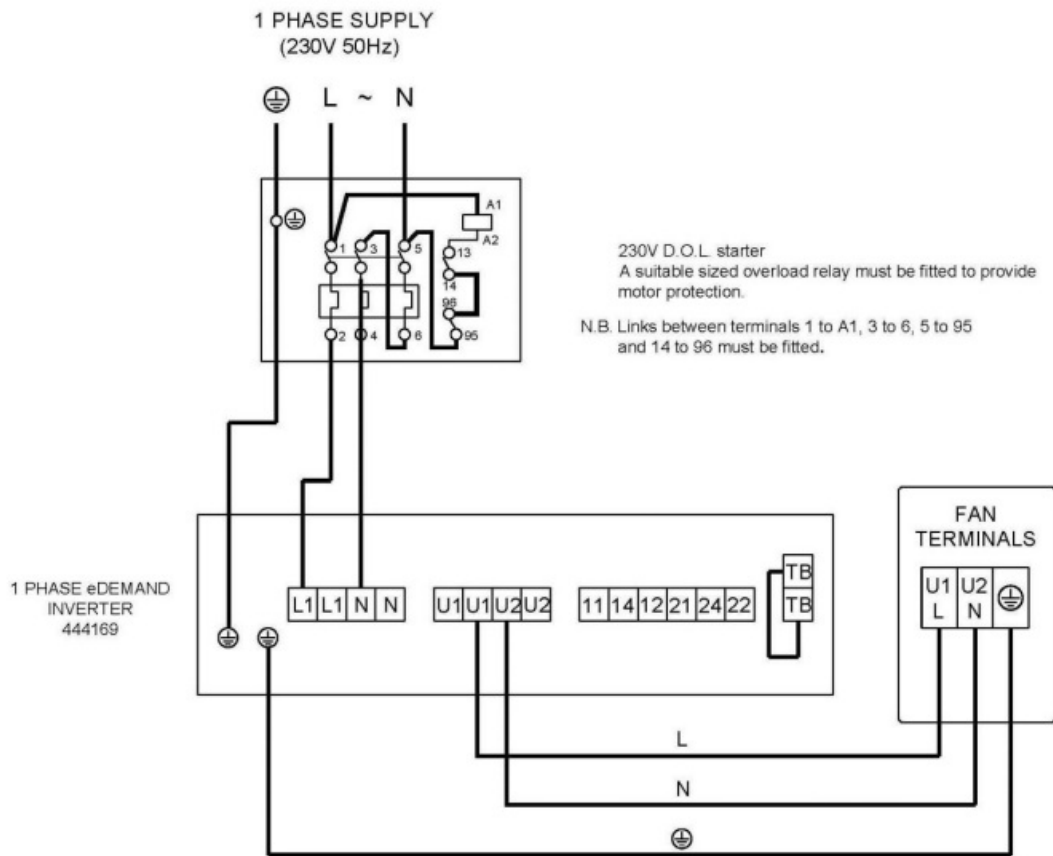


Fig. 16 QP200C, QP250C.

Connected to an eDemand inverter

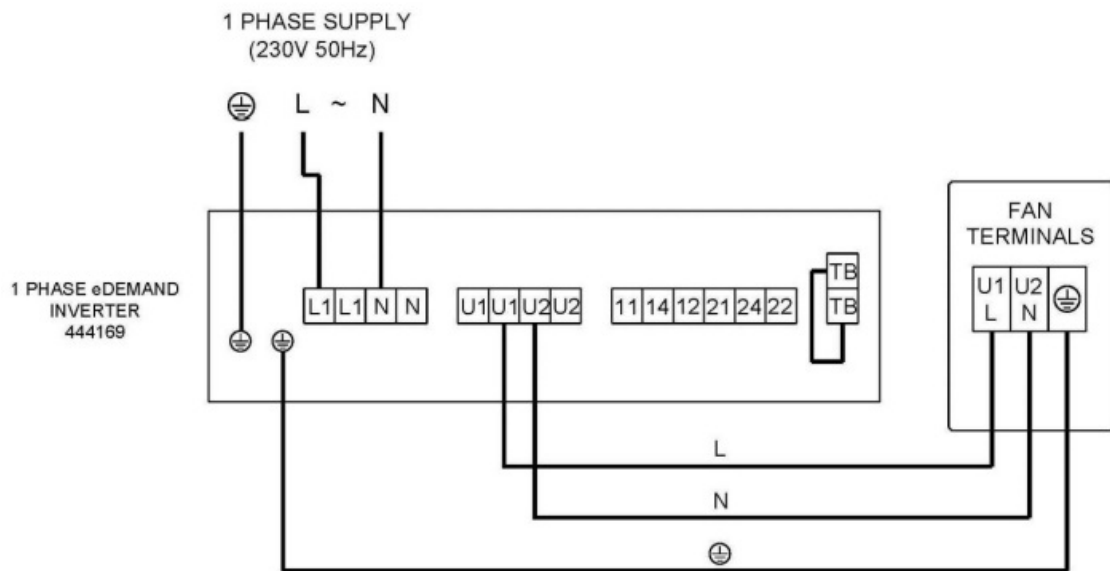
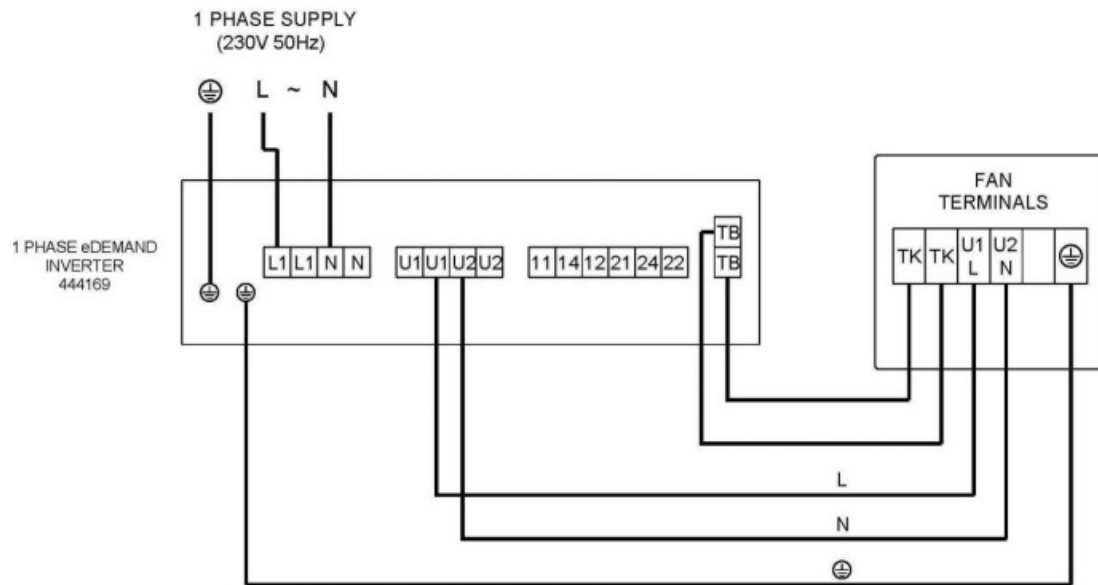


Fig. 17 QP400C, QP500C.

Connected to an eDemand inverter



Disposal

- This product should not be disposed of with household waste.
- Please recycle where facilities exist.
- Check with your local authority for recycling advice.

The Vent-AXia. Guarantee

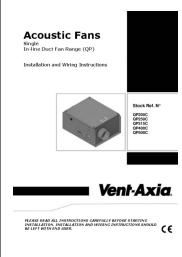
- Applicable only to products installed and used in the United Kingdom. For details of guarantee outside the United Kingdom contact your local supplier.
- Vent-Axia guarantees its products for two years from the date of purchase against faulty material or workmanship.
- In the event of any part being found to be defective, the product will be repaired, or at the Company's option replaced, without charge, provided that the product:-
- Has been installed and used under the instructions given with each unit.
- Has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit).
- Has not been subjected to misuse, neglect, or damage.
- Has not been modified or repaired by any person not authorized by the company.

IF CLAIMING UNDER TERMS OF GUARANTEE

- Please return the complete product, and carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit.
- Please ensure that it is adequately packed and accompanied by a letter marked "Guarantee Claim" stating the nature of the fault and providing evidence of the date and source of purchase.
- The guarantee is offered to you as an extra benefit and does not affect your legal rights.
- **Head Office:** Fleming Way, Crawley, West Sussex, RH10 9YX.
- UK NATIONAL CALL CENTRE
- Newton Road, Crawley, West Sussex, RH10 9JA

- SALES ENQUIRIES:
- TECHNICAL SUPPORT:
- Tel: 0344 8560590
- Tel: 0344 8560594
- Fax: 01293 565169
- Fax: 01293 539209
- For details of the warranty and returns procedure please refer to www.vent-axia.com or write to Vent-Axia Ltd, Fleming Way, Crawley, RH10 9YX

Documents / Resources

 <p>The image shows the cover of the instruction manual for the Vent-Axia QP200C Single In Line Duct Fan Range. It features a small photograph of the fan unit and the Vent-Axia logo at the bottom. The text on the cover includes 'Acoustic Fans', 'Single In Line Duct Fan Range (QP)', 'Installation and Wiring Instructions', and 'Model No. QP200C'.</p>	<p>Vent-Axia QP200C Single In Line Duct Fan Range [pdf] Instruction Manual QP200C Single In Line Duct Fan Range, QP200C, Single In Line Duct Fan Range, In Line Duct Fan Range, Line Duct Fan Range, Duct Fan Range, Fan Range, Range</p>
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References

- [Vent-Axia - Ventilation, Heating, Hygiene and Cooling](#)
- [User Manual](#)

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