VENT-AXIA
BIFURCATED CASE AXIAL FAN
WIRING DIAGRAMS

THREE PHASE FAN
CONNECTED TO A 415V COIL D.O.L. STARTER

3 Phase Supply (380-415V 50Hz)

415 Volt D.O.L. Starter
A suitable sized overload relay must be fitted to provide motor protection.

N.B. Links between terminals 5 to 95 and 24 to 96 must be fitted.

THREE PHASE FAN
CONNECTED TO A 240V COIL D.O.L. STARTER

3 Phase Supply (380-415V 50Hz)

240 Volt D.O.L. Starter
A suitable sized overload relay must be fitted to provide motor protection.

N.B. Links between terminals 5 to 95 and 24 to 96 must be fitted.

BIFURCATED CASE AXIAL FAN
WIRING DIAGRAMS

THREE PHASE FAN
CONNECTED TO A STAR / DELTA STARTER & A 1.4, 4.0, 7.0 OR 11.0 AMP AUTO TRANSFORMER CONTROLLER

3 Phase Supply (380-415V 50Hz)

415 Volt D.O.L. Starter
A suitable sized overload relay must be fitted to provide motor protection.

N.B. Links between terminals 1 to A1, 5 to 95 must be fitted and the link between terminals 24 to 96 must be FITTED.

3 Phase Auto Transformer Speed Controller.

103 14 301
103 14 304
103 14 307
103 14 311

NOTE: If a Auto Transformer is being used to control the fan speed, the manual reset facility must be disabled. Contact Vent-Axia’s Technical Support line for details.
Wiring Diagrams

**Bifurcated Case Axial Fan Connections**

**Three Phase Fan**

- Single Phase In - Three Phase (240V) Out
- LC Fan Connected to an Inverter Speed Controller Kit (103 20 101)

**Metal Enclosure & Wiring by Others.**

**1. Phase Supply** (220 - 240V).

**Wiring by Others.**

- From the Inverter to the Fan (shielded cable required).

**50m Maximum Distance**

**SINGLE PHASE IN - THREE PHASE (240V) OUT**

**NE ~L**

**BIF 250/2/3/8-32**

- **BIF 315/2/3/8-32**

- **BIF 400/4/3/8-32**

**Relay**

- **E**

- **(L) PR**

- **L1**

- **12VFW RE SP RS**

**Three Phase Fan**

- Single Phase In - Three Phase (240V) Out
- LC Fan Connected to an Inverter Speed Controller Kit (103 20 102 or 103 20 103)

**Metal Enclosure & Wiring by Others.**

**1. Phase Supply** (220 - 240V).

**Wiring by Others.**

- From the Inverter to the Fan (shielded cable required).

**50m Maximum Distance**

**SINGLE PHASE IN - THREE PHASE (240V) OUT**

**NE ~L**

**BIF 400/2/3/8-22**

- **BIF 500/4/3/8-22**

- **BIF 630/3/8-26**

**Relay**

- **E**

- **(L) PR**

- **L1**

- **12VFW RE SP RS**

**Three Phase Fan**

- Single Phase In - Three Phase Out
- LC Fan Connected to an Inverter Speed Controller Kit (103 20 301, 103 20 302, 103 20 303 or 103 20 305)

**Metal Enclosure & Wiring by Others.**

**1. Phase Supply** (220 - 240V).

**Wiring by Others.**

- From the Inverter to the Fan (shielded cable required).

**50m Maximum Distance**

**SINGLE PHASE IN - THREE PHASE (240V) OUT**

**NE ~L**

**BIF 500/2/3/8-20**

- **BIF 315/2/3/8-32**

- **BIF 250/4/3/8-32**

- **BIF 400/4/3/8-32**

- **BIF 500/4/3/8-32**

- **BIF 630/4/3/8-32**

**Relay**

- **E**

- **(L) PR**

- **L1**

- **12VFW RE SP RS**

**Three Phase Fan**

- Single Phase In - Three Phase Out
- LC Fan Connected to an Inverter Speed Controller Kit (103 20 350)

**Metal Enclosure & Wiring by Others.**

**1. Phase Supply** (220 - 240V).

**Wiring by Others.**

- From the Inverter to the Fan (shielded cable required).

**50m Maximum Distance**

**SINGLE PHASE IN - THREE PHASE (240V) OUT**

**NE ~L**

**BIF 500/4/3/8-32**

- **BIF 400/4/3/8-32**

- **BIF 315/2/3/8-32**

- **BIF 250/4/3/8-32**

- **BIF 400/3/8-22**

- **BIF 500/4/3/8-22**

- **BIF 630/4/3/8-26**

**Relay**

- **E**

- **(L) PR**

- **L1**

- **12VFW RE SP RS**

**Three Phase Fan**

- Single Phase In - Three Phase Out
- LC Fan Connected to an Inverter Speed Controller Kit (103 20 305)

**Metal Enclosure & Wiring by Others.**

**1. Phase Supply** (220 - 240V).

**Wiring by Others.**

- From the Inverter to the Fan (shielded cable required).

**50m Maximum Distance**

**SINGLE PHASE IN - THREE PHASE (240V) OUT**

**NE ~L**

**BIF 800/4/3/8-18**