**Electrical connections AC**

**Fans (1~ 230 VAC power line)**

- **A1)** Single-phase capacitor motor with TOP wired internally
  
  ![Diagram A1](image)

  - U₁ = blue
  - U₂ = black
  - Z = brown
  - \( \ominus \) = green/yellow

- **A2a)** Single-phase capacitor motor with connection for external TOP
  
  ![Diagram A2a](image)

  - U₁ = blue
  - U₂ = black
  - Z = brown
  - \( \ominus \) = green/yellow

- **A2b)** Single-phase capacitor motor with connection for external TOP
  
  ![Diagram A2b](image)

  - U₁ = blue
  - U₂ = black
  - Z = brown
  - \( \ominus \) = green/yellow

**Fans, 1 speed (3~ 230 VAC power line)**

- **B)** Shaded pole motor with TOP wired internally
  
  ![Diagram B](image)

  - L = blue
  - N = brown
  - \( \ominus \) = green/yellow

**C1)** Delta connection (3~ 230 VAC power system) without TOP

![Diagram C1](image)

  - U₁ = black
  - U₂ = green
  - V₁ = blue
  - V₂ = white
  - W₁ = brown
  - W₂ = yellow
  - \( \ominus \) = green/yellow

**D1)** Delta connection (3~ 230 VAC power line) with TOP

![Diagram D1](image)

  - U₁ = black
  - U₂ = green
  - V₁ = blue
  - V₂ = white
  - W₁ = brown
  - W₂ = yellow
  - \( \ominus \) = green/yellow

**Direction of rotation** is reversed by swapping two line phases.
Fans, 1 speed (3 ~ 400 VAC power line)

- **C2)** Star connection (3 ~ 400 VAC power system)
  - without TOP
  - Direction of rotation is reversed by swapping two line phases.

- **D2)** Star connection (3 ~ 400 VAC power line)
  - with TOP

Fans, 2 speeds via ∆/Y-switch (3 ~ 400 VAC power line)

- **E1)** Delta connection (high speed)
  - without TOP

- **E2)** Star connection (low speed)
  - without TOP

- **F1a)** Delta connection (high speed)
  - with TOP

- **F2a)** Star connection (low speed)
  - with TOP

- **F1b)** Delta connection (high speed)
  - with TOP

- **F2b)** Star connection (low speed)
  - with TOP

Direction of rotation is reversed by swapping two line phases.