NOTE:
PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104°F(40°C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 122°F(50°C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.

---

### Table: Voltage, Output Current, Weight Loss

<table>
<thead>
<tr>
<th>Model #</th>
<th>Voltage (VAC)</th>
<th>Output Current (A)</th>
<th>Weight (Lbs)</th>
<th>Heat Loss (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Three-Phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2A0046FXX</td>
<td>200/240</td>
<td>46.2</td>
<td>26 (12)</td>
<td>86 396 482</td>
</tr>
<tr>
<td>2A0059FXX</td>
<td></td>
<td>59.4</td>
<td>29 (13)</td>
<td>116 542 658</td>
</tr>
<tr>
<td>4A0034FXX</td>
<td></td>
<td>34.0</td>
<td>29 (13)</td>
<td>105 457 562</td>
</tr>
<tr>
<td>4A0040FXX</td>
<td>380/480</td>
<td>40.0</td>
<td>29 (13)</td>
<td>118 558 676</td>
</tr>
<tr>
<td>4A0052FXX</td>
<td></td>
<td>52.0</td>
<td>33 (15)</td>
<td>151 584 735</td>
</tr>
</tbody>
</table>

**NOTE:**
X DENOTES A-Z

---

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

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For dimensions, please refer to the drawing.
### Terminal and Wiring Details

**Control Circuit Terminals**

- 3.3 [83.8]
- 0.4 [10.2]
- 0.2 [5.2]
- 0.35 [8.9]

**Main Circuit Terminals**

- 4x0.20 = 0.79 [20]
- 0.1 [2.5]
- 3.88 [96.5]
- 5.79 [147]
- 4x0.20 = 0.8 [20.3]
- 4x0.20 = 0.8 [20.3]

**Ground Terminals**

- 6.95 [176.6]
- 3.52 [89.5]
- 1.28 [32.5]
- 7x0.59 = 4.13 [105]
- 0.13 [3.3]

---

### Terminal and Wire Specifications for Main Circuit and Ground

<table>
<thead>
<tr>
<th>MODEL #</th>
<th>TERMINAL SYMBOL</th>
<th>TERMINAL SCREW</th>
<th>CLAMPING TORQUE lb.in. (N.m)</th>
<th>WIRE RANGE AWG (mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A0046</td>
<td>R/L1, S/L2, T/L3, U/T1, V/T2, W/T3, -M, +M, ⊙</td>
<td>M5</td>
<td>24 TO 27 (2.7 TO 3.0)</td>
<td>10-4 (6.0-25)</td>
</tr>
<tr>
<td>2A0059</td>
<td>R/L1, S/L2, T/L3, U/T1, V/T2, W/T3, -M, +M, ⊙</td>
<td>M5</td>
<td>24 TO 27 (2.7 TO 3.0)</td>
<td>10-4 (6.0-25)</td>
</tr>
<tr>
<td>4A0034</td>
<td></td>
<td>M5</td>
<td>24 TO 27 (2.7 TO 3.0)</td>
<td>10-4 (6.0-25)</td>
</tr>
<tr>
<td>4A0040</td>
<td></td>
<td>M5</td>
<td>24 TO 27 (2.7 TO 3.0)</td>
<td>10-4 (6.0-25)</td>
</tr>
<tr>
<td>4A0052</td>
<td></td>
<td>M5</td>
<td>24 TO 27 (2.7 TO 3.0)</td>
<td>10-4 (6.0-25)</td>
</tr>
</tbody>
</table>

**Note:** Refer to applicable codes for proper wire type and size.

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**For Additional Details and Specifications, Consult Manual**

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**Yaskawa**

**DIMENSION DRAWING**

**FRAME SIZE 3**

**NEMA TYPE 1 ENCLOSURE**

**2A0046 - 0059, 4A0034 - 0052**

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**Design Info:**

- **Drawing No.:** DD Z1K FR3 N1
- **Date:** 01-17-11
- **Rev.:** R01
- **Sheet:** 2 of 3
- **Scale:** 1:4

---

**By View:**

- **Dimension In:** mm [in.

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MINIMUM INSTALLATION CLEARANCES (SCALE 1:8)

NOTE:
FOR SIDE-BY-SIDE MOUNTING
CONSULT MANUAL

PANEL CUTOUT FOR EXTERNAL HEATSINK
MOUNTING CONFIGURATION (SCALE 1:8)

NOTES:
1. EXTERNAL HEATSINK
CONFIGURATION REQUIRES
MOUNTING KIT
2. CUTOUT TOLERANCES:
+/- 0.02IN (0.5MM)
3. EXPOSED HEATSINK DEPTH
D=4.11" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL