

# Product Information Packet

February 22, 2024

**Data shown is for the current revision model #. Ensure your nameplate model # matches.**

|                            |                       |
|----------------------------|-----------------------|
| <b>Model Number:</b>       | <b>WPN-DF180LW-4D</b> |
| <b>Catalog Number:</b>     | <b>BC4M030V5D</b>     |
| <b>Connection Diagram:</b> | <b>See Page 4</b>     |
| <b>Outline Drawing:</b>    | <b>See Page 3</b>     |

## Table of Contents

|                             |    |
|-----------------------------|----|
| Specification               | 01 |
| Performance Characteristics | 02 |
| Outline Drawing             | 03 |
| Connection Drawing(s)       | 04 |

**Marks:**

|                            |            |                               |           |
|----------------------------|------------|-------------------------------|-----------|
| <b>MODEL NUMBER:</b>       | BC4M030V5D | <b>Estimated Weight:</b>      | 368 Lbs   |
| <b>Outline Drawing:</b>    | See Page 3 | <b>Time Rating:</b>           | S1        |
| <b>Connection Diagram:</b> | See Page 4 | <b>Enclosure:</b>             | TEFC      |
| <b>Design Code:</b>        | B          | <b>Encl Construction:</b>     | <b>GP</b> |
| <b>Type:</b>               | KS         | <b>Ambient Max(°C):</b>       | 40        |
| <b>Frame:</b>              | H180       | <b>Alt Ambient Max(°C):</b>   | 40        |
| <b>Phases:</b>             | 3          | <b>Insulation Class:</b>      | F         |
| <b>Poles:</b>              | 4          | <b>NEMA Design:</b>           | B         |
| <b>Output Power:</b>       | 30HP       | <b>Nominal Efficiency:</b>    | 93.6 %    |
| <b>RPM:</b>                | 1775       | <b>Guaranteed Efficiency:</b> | 92.4 %    |
| <b>Voltage:</b>            | 575        | <b>3/4 Load Efficiency:</b>   | 94.5 %    |
| <b>Hertz:</b>              | 60         | <b>KVA Code:</b>              | K         |
| <b>Amps - FL:</b>          | 27.44      | <b>Max KVAR:</b>              | 9         |
| <b>Service Factor:</b>     | 1.25@60Hz  | <b>Power Factor:</b>          | 86%       |
| <b>Alt Service Factor:</b> | 1.15       | <b>Bearing - DE:</b>          | 6310-ZZC3 |
|                            |            | <b>Bearing - ODE:</b>         | 6308-ZZC3 |

**Enclosure is Totally Enclosed Fan-Cooled**

---

**Stamped Nameplate Notes:**

12-60HZ CONSTANT TORQUE, 6-60Hz VARIABLE TORQUE

CSA APPROVED FOR CLASS I; DIVISION 2; GROUPS A, B, C & D, ZONE 2; GROUPS IIA & IIB T3 WITH VFD

**Additional Information:**

F1/F2/F3/ROUND BODY MOUNTING USING REMOVABLE/REPOSITIONABLE FEET  
 INVERTER DUTY: CT5:1(12Hz~60Hz)@100%TN, CT15:1(4Hz~60Hz)@66.7%TN, VT20:1

**Performance Characteristics**

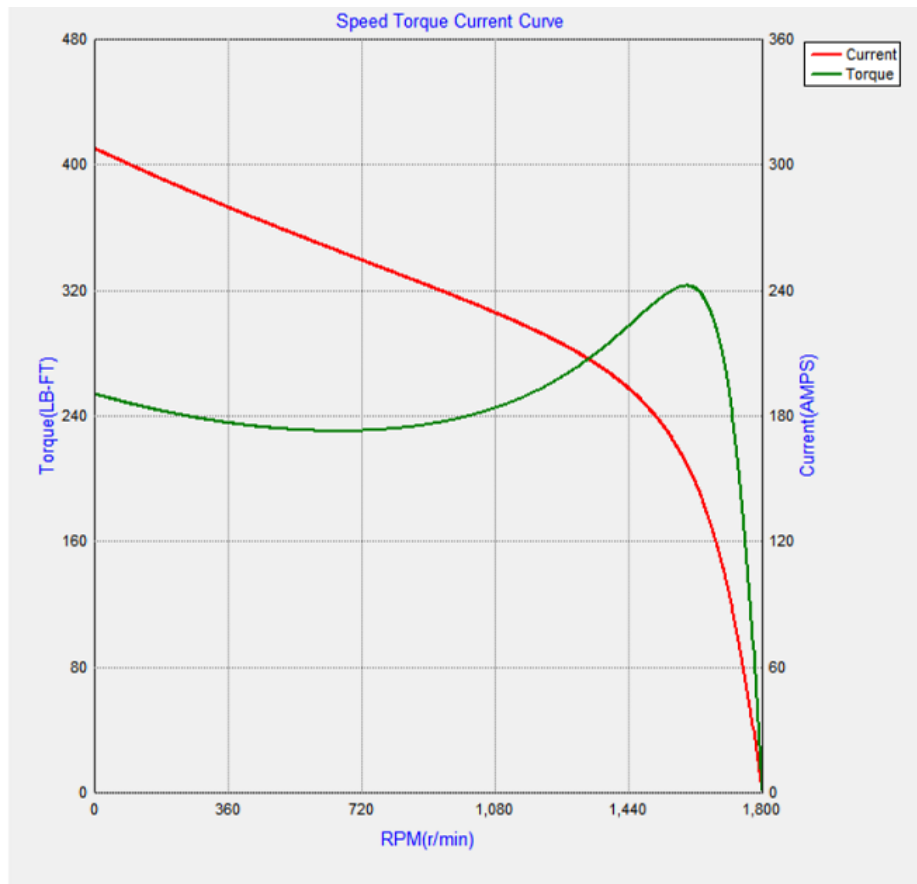
**Marks:**

| LOAD %     | 150.0 | 125.0 | 100.0 | 75.0  | 50.0  | 25.0  |
|------------|-------|-------|-------|-------|-------|-------|
| % EFF      | 93.28 | 93.94 | 94.39 | 94.50 | 93.87 | 90.63 |
| % PF       | 88.23 | 87.66 | 85.55 | 80.67 | 70.60 | 50.14 |
| AMPS(460V) | 50.33 | 41.92 | 34.20 | 27.17 | 20.83 | 15.19 |

TORQUE(FL) LB-FT      118.37    TORQUE(LR)%FL      211    TORQUE(BD)%FL      360  
 AMPS(LR 460V)      384    PF AT START      25

**Other Useful Information for Application:**

|  |                                    |
|--|------------------------------------|
| Rotor Inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):    | 5.340(0.224)                       |
| Max load inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ): |                                    |
| Load Type:   | Square Torque/Speed Characteristic |
| Voltage:   | 100%                               |
| Number of starts per hour:                                 | 2 Cold or 1 Hot                    |
| Acceleration Time with maximum inertia (sec):              | 13.4                               |
| Safe stall time (sec): Cold/Hot                            | 27/11                              |



### Place GE's Outline drawing

