

# Product Information Packet

February 13, 2024

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

|                            |                        |
|----------------------------|------------------------|
| <b>Model Number:</b>       | <b>WPN-DA256TSM-2D</b> |
| <b>Catalog Number:</b>     | <b>BA2N020V3D</b>      |
| <b>Connection Diagram:</b> | <b>See Page 4</b>      |
| <b>Outline Drawing:</b>    | <b>See Page 3</b>      |

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**Marks:**

|                            |             |                               |           |
|----------------------------|-------------|-------------------------------|-----------|
| <b>MODEL NUMBER:</b>       | BA2N020V3D  | <b>Estimated Weight:</b>      | 292 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>              | 256TD       | <b>Alt Ambient Max(°C):</b>   | 40        |
| <b>Phases:</b>             | 3           | <b>Insulation Class:</b>      | F         |
| <b>Poles:</b>              | 2           | <b>NEMA Design:</b>           | B         |
| <b>Output Power:</b>       | 20HP        | <b>Nominal Efficiency:</b>    | 91.0 %    |
| <b>RPM:</b>                | 3510        | <b>Guaranteed Efficiency:</b> | 89.5 %    |
| <b>Voltage:</b>            | 208/416     | <b>3/4 Load Efficiency:</b>   | 91.5 %    |
| <b>Hertz:</b>              | 60          | <b>KVA Code:</b>              | G         |
| <b>Amps - FL:</b>          | 49.76/24.88 | <b>Max KVAR:</b>              | 6.3       |
| <b>Service Factor:</b>     | 1.25@60Hz   | <b>Power Factor:</b>          | 92%       |
| <b>Alt Service Factor:</b> | 1.15        | <b>Bearing - DE:</b>          | 6309-ZZC3 |
|                            |             | <b>Bearing - ODE:</b>         | 6307-ZZC3 |

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

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

50HZ DATA:  
RPM 2925  
SF 1.0

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**

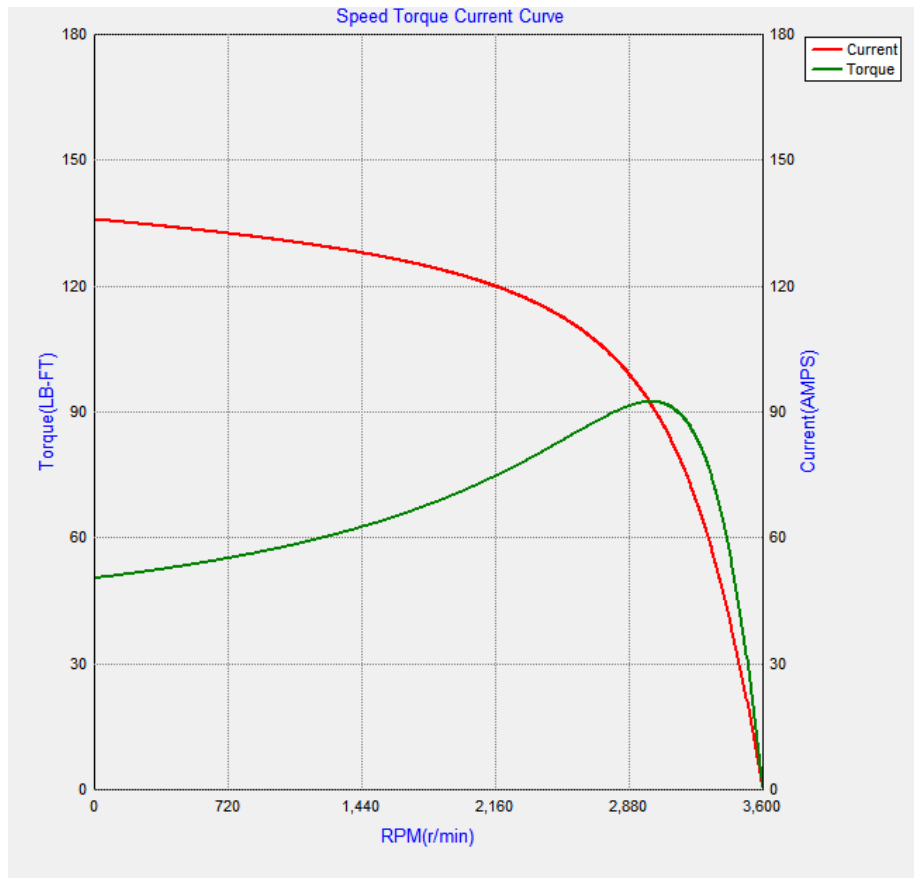
**Marks:**

| LOAD %     | 150.0 | 125.0 | 100.0 | 75.0  | 50.0  | 25.0  |
|------------|-------|-------|-------|-------|-------|-------|
| % EFF      | 87.87 | 89.47 | 91.01 | 91.57 | 91.38 | 87.89 |
| % PF       | 92.52 | 93.02 | 92.80 | 91.99 | 87.99 | 75.22 |
| AMPS(460V) | 34.70 | 28.28 | 22.29 | 16.76 | 11.71 | 7.12  |

TORQUE(FL) LB-FT      40.81    TORQUE(LR)%FL      170    TORQUE(BD)%FL      310  
 AMPS(LR 460V)      158    PF AT START      44

**Other Useful Information for Application:**

|  |                                    |
|--|------------------------------------|
| Rotor Inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):    | 1.390(0.058)                       |
| 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):              | 11.7                               |
| Safe stall time (sec): Cold/Hot                            | 34/14                              |



**Please contact Brook Crompton for drawings.**

Marks:

Connection Diagram

Thermistor Connection  
235A3027VD

