

# Product Information Packet

February 5, 2024

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

|                            |                       |
|----------------------------|-----------------------|
| <b>Model Number:</b>       | <b>WPN-DA145TSU-6</b> |
| <b>Catalog Number:</b>     | <b>BA6N001V5</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>       | BA6N001V5  | <b>Estimated Weight:</b>      | 42 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>     | GP        |
| <b>Type:</b>               | KS         | <b>Ambient Max(°C):</b>       | 40        |
| <b>Frame:</b>              | 145T       | <b>Alt Ambient Max(°C):</b>   | 40        |
| <b>Phases:</b>             | 3          | <b>Insulation Class:</b>      | F         |
| <b>Poles:</b>              | 6          | <b>NEMA Design:</b>           | B         |
| <b>Output Power:</b>       | 1HP        | <b>Nominal Efficiency:</b>    | 82.5 %    |
| <b>RPM:</b>                | 1160       | <b>Guaranteed Efficiency:</b> | 80.0 %    |
| <b>Voltage:</b>            | 575        | <b>3/4 Load Efficiency:</b>   | 82.0%     |
| <b>Hertz:</b>              | 60         | <b>KVA Code:</b>              | G         |
| <b>Amps - FL:</b>          | 1.29       | <b>Max KVAR:</b>              | 6.3       |
| <b>Service Factor:</b>     | 1.25@60Hz  | <b>Power Factor:</b>          | 71%       |
| <b>Alt Service Factor:</b> | 1.15       | <b>Bearing - DE:</b>          | 6205-ZZC3 |
|                            |            | <b>Bearing - ODE:</b>         | 6203-ZZC3 |

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

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

50HZ DATA:

RPM 965

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 %     | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 10.0 |
|------------|-------|-------|-------|------|------|------|------|
| % EFF      | 81.0  | 82.1  | 82.5  | 82.0 | 79.6 | 71.3 | 81.0 |
| % PF       | 78.4  | 75.8  | 71.0  | 63.1 | 50.3 | 31.1 | 78.4 |
| AMPS(460V) | 2.2   | 1.9   | 1.6   | 1.4  | 1.2  | 1.1  | 2.2  |

TORQUE(FL) LB-FT            4.6    TORQUE(LR)%FL            220    TORQUE(BD)%FL            310  
 AMPS(LR 460V)            8.76    PF AT START            28

**Other Useful Information for Application:**

|  |                                    |
|--|------------------------------------|
| Rotor Inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):    | 0.140(0.006)                       |
| 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):              | 5.7                                |
| Safe stall time (sec): Cold/Hot                            | 96/39                              |



