

Product Information Packet

February 13, 2024

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

| | |
|----------------------------|------------------------|
| Model Number: | WPN-DA143TSJ-2D |
| Catalog Number: | BA2N1.5V3D |
| Connection Diagram: | See Page 4 |
| Outline Drawing: | See Page 3 |

Table of Contents

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

Marks:

| | | | |
|----------------------------|------------|-------------------------------|-----------|
| MODEL NUMBER: | BA2N1.5V3D | Estimated Weight: | 50 Lbs |
| Outline Drawing: | See Page 3 | Time Rating: | S1 |
| Connection Diagram: | See Page 4 | Enclosure: | TEFC |
| Design Code: | B | Encl Construction: | GP |
| Type: | KS | Ambient Max(°C): | 40 |
| Frame: | 143TD | Alt Ambient Max(°C): | 40 |
| Phases: | 3 | Insulation Class: | F |
| Poles: | 2 | NEMA Design: | B |
| Output Power: | 1.5HP | Nominal Efficiency: | 84.0 % |
| RPM: | 3490 | Guaranteed Efficiency: | 81.5 % |
| Voltage: | 208/416 | 3/4 Load Efficiency: | 84.2 % |
| Hertz: | 60 | KVA Code: | K |
| Amps - FL: | 4.18/2.09 | Max KVAR: | 9 |
| Service Factor: | 1.25 @60Hz | Power Factor: | 87% |
| Alt Service Factor: | 1.15 | Bearing - DE: | 6205-ZZC3 |
| | | Bearing - ODE: | 6203-ZZC3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

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

50HZ DATA:
RPM 2905
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

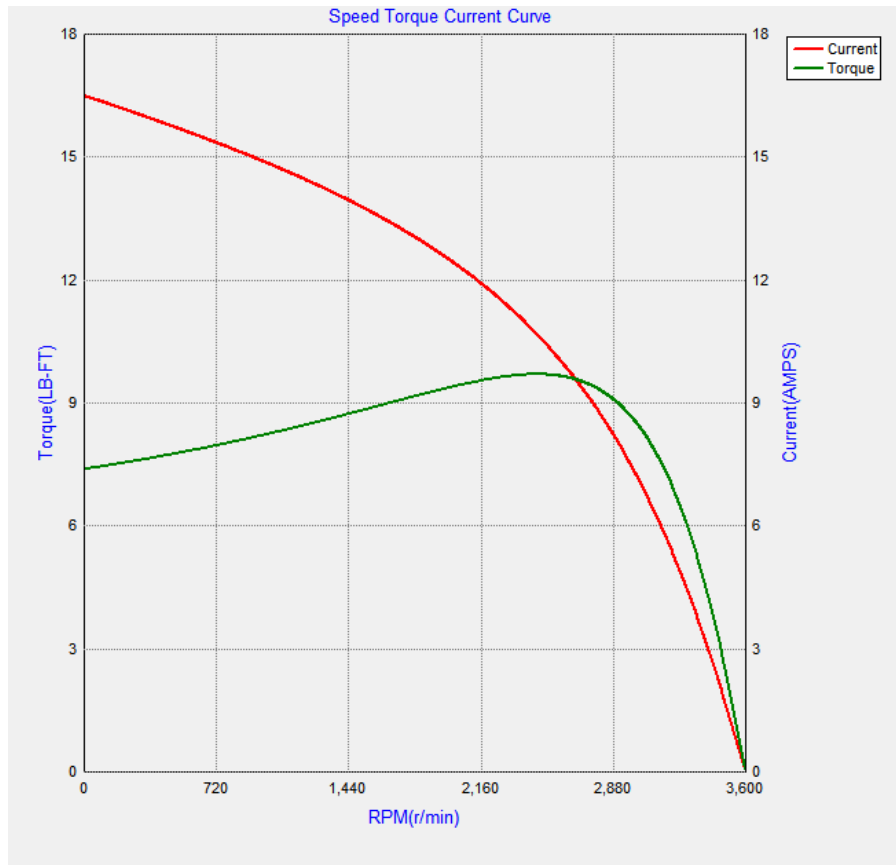
Marks:

| LOAD % | 150.0 | 125.0 | 100.0 | 75.0 | 50.0 | 25.0 |
|------------|-------|-------|-------|-------|-------|-------|
| % EFF | 81.88 | 83.15 | 84.01 | 84.24 | 83.16 | 77.62 |
| % PF | 90.33 | 89.40 | 87.11 | 83.23 | 74.17 | 52.49 |
| AMPS(460V) | 2.80 | 2.32 | 1.88 | 1.48 | 1.12 | 0.85 |

TORQUE(FL) LB-FT 3.01 TORQUE(LR)%FL 330 TORQUE(BD)%FL 423
 AMPS(LR 460V) 17.16 PF AT START 28

Other Useful Information for Application:

| | |
|--|------------------------------------|
| Rotor Inertia: Lb-Ft ² (Kg-m ²): | 0.026(0.001) |
| Max load inertia: Lb-Ft ² (Kg-m ²): | |
| Load Type: | Square Torque/Speed Characteristic |
| Voltage: | 100% |
| Number of starts per hour: | 2 Cold or 1 Hot |
| Acceleration Time with maximum inertia (sec): | 6.1 |
| Safe stall time (sec): Cold/Hot | 16/6 |



Please contact Brook Crompton for drawings.

Marks:

Connection Diagram

