

Product Information Packet

February 5, 2024

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

| | |
|----------------------------|------------------------|
| Model Number: | WPN-DA145TSR-4C |
| Catalog Number: | BA4N002V45C |
| 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: | BA4N002V5C | Estimated Weight: | 52 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: | 145TC | Alt Ambient Max(°C): | 40 |
| Phases: | 3 | Insulation Class: | F |
| Poles: | 4 | NEMA Design: | B |
| Output Power: | 2HP | Nominal Efficiency: | 86.5 % |
| RPM: | 1735 | Guaranteed Efficiency: | 84.0 % |
| Voltage: | 575 | 3/4 Load Efficiency: | 86.9 % |
| Hertz: | 60 | KVA Code: | K |
| Amps - FL: | 2.12 | Max KVAR: | 9 |
| Service Factor: | 1.25@60Hz | Power Factor: | 82% |
| 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 1455

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 | 85.35 | 85.88 | 86.52 | 86.99 | 86.17 | 80.99 | 66.53 |
| % PF | 84.23 | 83.56 | 82.00 | 76.91 | 66.40 | 44.20 | 22.23 |
| AMPS(460V) | 3.28 | 3.02 | 2.65 | 2.11 | 1.63 | 1.28 | 1.16 |

TORQUE(FL) LB-FT 8.26 TORQUE(LR)%FL 245 TORQUE(BD)%FL 301
 AMPS(LR 460V) 18.6 PF AT START 22

Other Useful Information for Application:

| | |
|--|------------------------------------|
| Rotor Inertia: Lb-Ft ² (Kg-m ²): | 0.088(0.004) |
| 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): | 6.4 |
| Safe stall time (sec): Cold/Hot | 42/17 |



