

# Product Information Packet

April 1, 2024

**45Data shown is for the current revision model #. Ensure your nameplate model # matches.**

|                            |                       |
|----------------------------|-----------------------|
| <b>Model Number:</b>       | <b>WPN-DF324TSG-2</b> |
| <b>Catalog Number:</b>     | <b>BC2N040V4</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:

**MODEL NUMBER:** BC2N040V4  
**Outline Drawing:** See Page 3  
**Connection Diagram:** See Page 4  
**Design Code:** B  
**Type:** KS  
**Frame:** 324T  
**Phases:** 3  
**Poles:** 2  
**Output Power:** 40HP  
**RPM:** 3555  
**Voltage:** 208-230/460  
**Hertz:** 60  
**Amps - FL:** 91.6/45.8  
**Service Factor:** 1.25@60Hz  
**Alt Service Factor:** 1.15

**Estimated Weight:** 650 Lbs  
**Time Rating:** S1  
**Enclosure:** TEFC  
**Encl Construction:** GP  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** 40  
**Insulation Class:** F  
**NEMA Design:** B  
**Nominal Efficiency:** 92.4 %  
**Guaranteed Efficiency:** 91.0 %  
**3/4 Load Efficiency:** 92.8 %  
**KVA Code:** E  
**Max KVAR:** 5  
**Power Factor:** 89%  
**Bearing - DE:** 6313-C3  
**Bearing - ODE:** 6313-C3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

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

50HZ DATA:  
 190-200/400V  
 103/51.5AMPS  
 RPM 2960  
 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

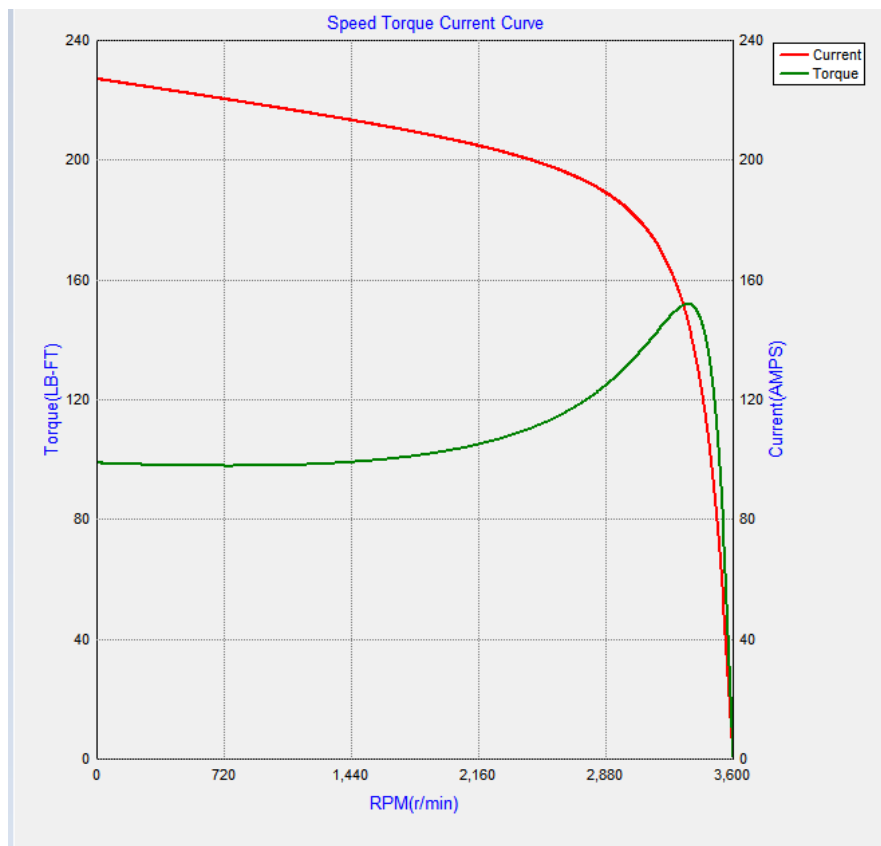
**Performance Characteristics****Marks:**

| LOAD %     | 150.0 | 125.0 | 100.0 | 75.0 | 50.0 | 25.0 |
|------------|-------|-------|-------|------|------|------|
| % EFF      | 90.9  | 91.8  | 92.4  | 92.8 | 92.7 | 91.1 |
| % PF       | 87.6  | 88.8  | 89.0  | 88.3 | 85.2 | 70.8 |
| AMPS(460V) | 70.9  | 57.7  | 45.8  | 34.5 | 23.8 | 14.6 |

TORQUE(FL) LB-FT      80.6    TORQUE(LR)%FL      170    TORQUE(BD)%FL      250  
 AMPS(LR 460V)      236    PF AT START      38

**Other Useful Information for Application:**

|                                                            |                                    |
|------------------------------------------------------------|------------------------------------|
| Rotor Inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):    | 3.607(0.152)                       |
| 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):              | 15.0                               |
| Safe stall time (sec): Cold/Hot                            | 46/19                              |





Marks: \_\_\_\_\_

Connection Diagram

Thermistor Connection

