

# 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-DA145TSR-4</b>
<b>Catalog Number:</b>	<b>BA4N002V4</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>	BA4N002V4	<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>	<b>GP</b>
<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>	4	<b>NEMA Design:</b>	B
<b>Output Power:</b>	2HP	<b>Nominal Efficiency:</b>	86.5 %
<b>RPM:</b>	1735	<b>Guaranteed Efficiency:</b>	84.0 %
<b>Voltage:</b>	208-230/460	<b>3/4 Load Efficiency:</b>	86.9 %
<b>Hertz:</b>	60	<b>KVA Code:</b>	K
<b>Amps - FL:</b>	5.31/2.65	<b>Max KVAR:</b>	9
<b>Service Factor:</b>	1.25@60Hz	<b>Power Factor:</b>	82%
<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:  
190-200/400V  
6.19/3.10AMPS  
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**

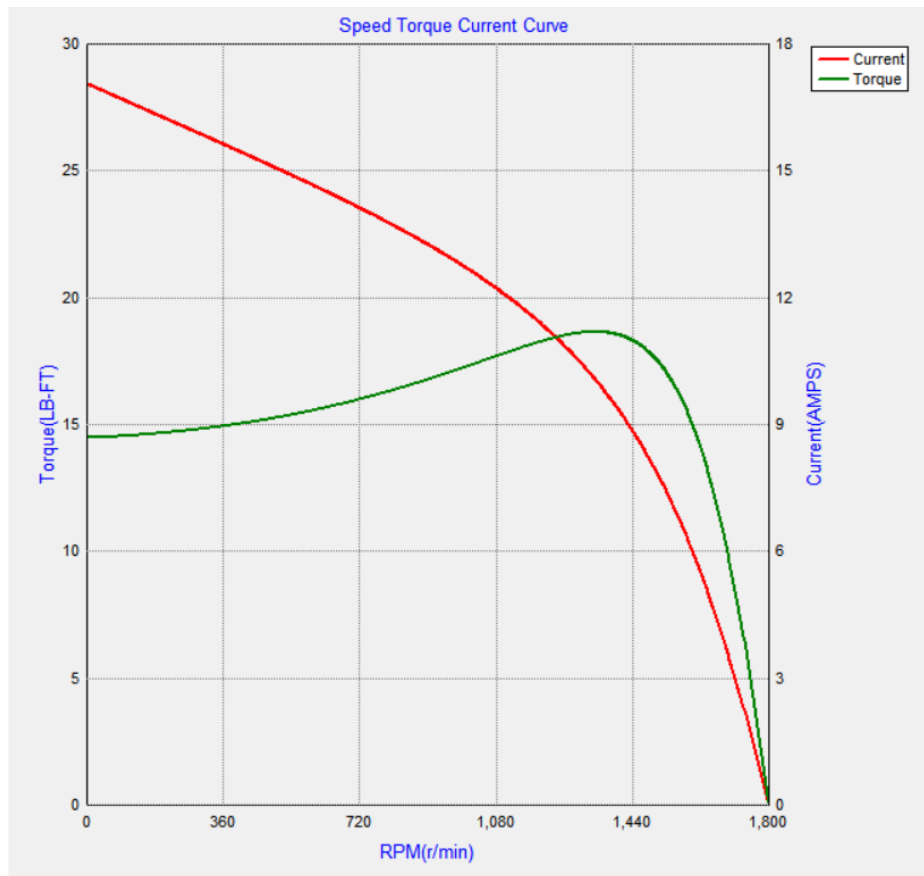
**Marks:**

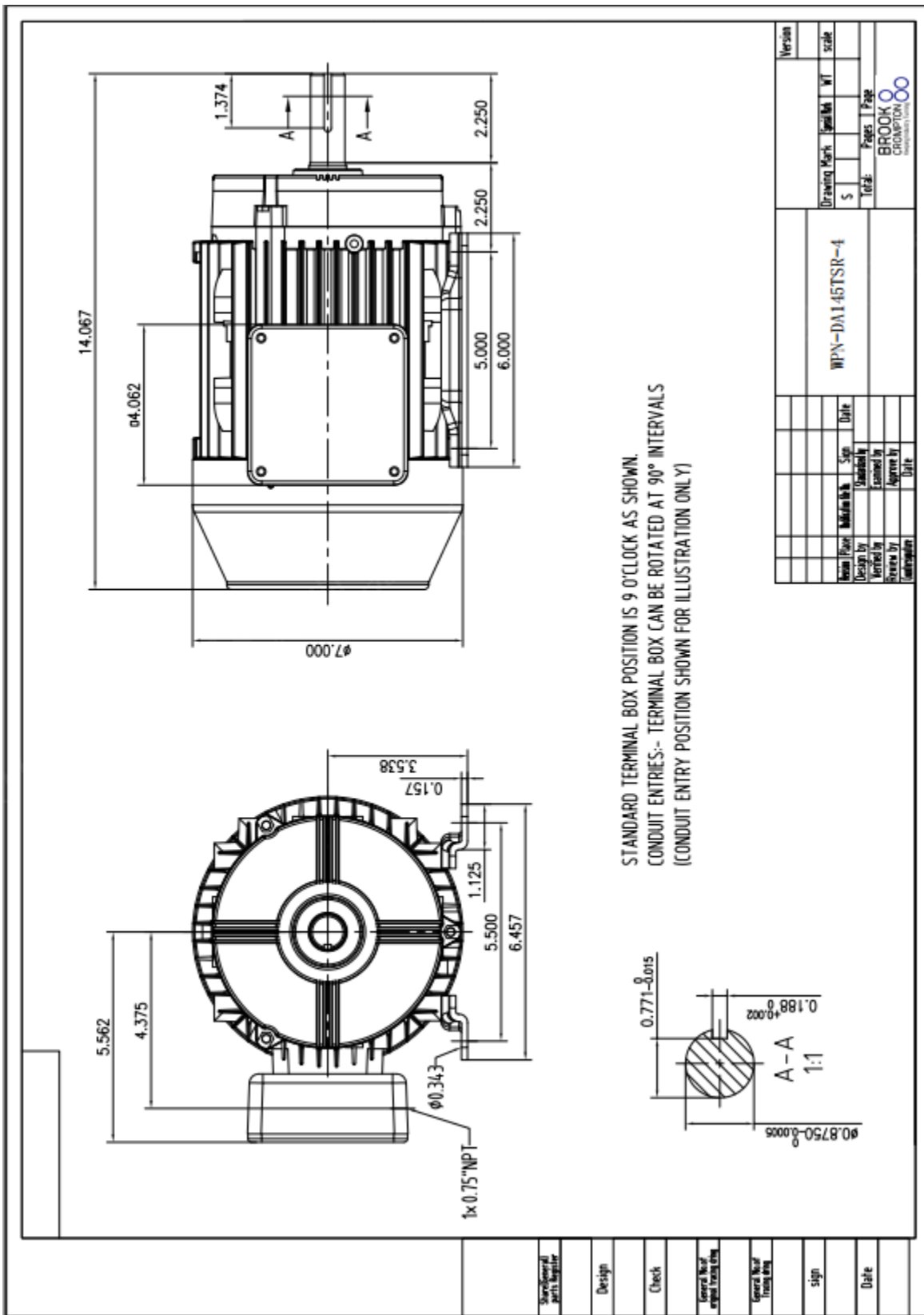
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	10.0
% EFF	85.35	85.88	86.52	86.99	86.17	80.99	66.53
% PF	84.23	83.56	82.00	76.91	66.40	44.20	22.23
AMPS(460V)	3.28	3.02	2.65	2.11	1.63	1.28	1.16

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 <sup>2</sup> (Kg-m <sup>2</sup> ):	0.088(0.004)
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):	6.4
Safe stall time (sec): Cold/Hot	42/17





Marks:

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### Connection Diagram

