



# Product Information Packet

April 1, 2024

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

<b>Model Number:</b>	<b>WPN-DF445TSR-6</b>
<b>Catalog Number:</b>	<b>BC6N125V9</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>	BC6N125V9	<b>Estimated Weight:</b>	1896 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>	445TS	<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>	125HP	<b>Nominal Efficiency:</b>	95.0 %
<b>RPM:</b>	1185	<b>Guaranteed Efficiency:</b>	94.1 %
<b>Voltage:</b>	460	<b>3/4 Load Efficiency:</b>	95.0 %
<b>Hertz:</b>	60	<b>KVA Code:</b>	H
<b>Amps - FL:</b>	142	<b>Max KVAR:</b>	7.1
<b>Service Factor:</b>	1.25@60Hz	<b>Power Factor:</b>	84%
<b>Alt Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6319-C3
		<b>Bearing - ODE:</b>	6319-C3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

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

50HZ DATA:

400V

163AMPS

RPM 985

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**

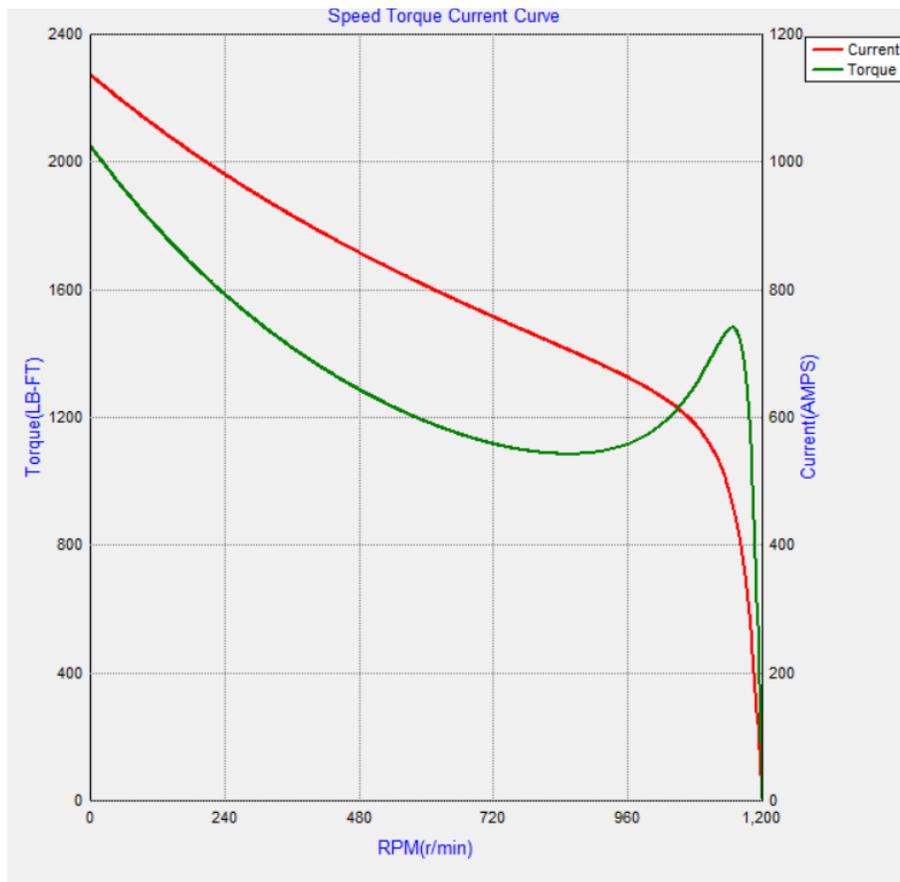
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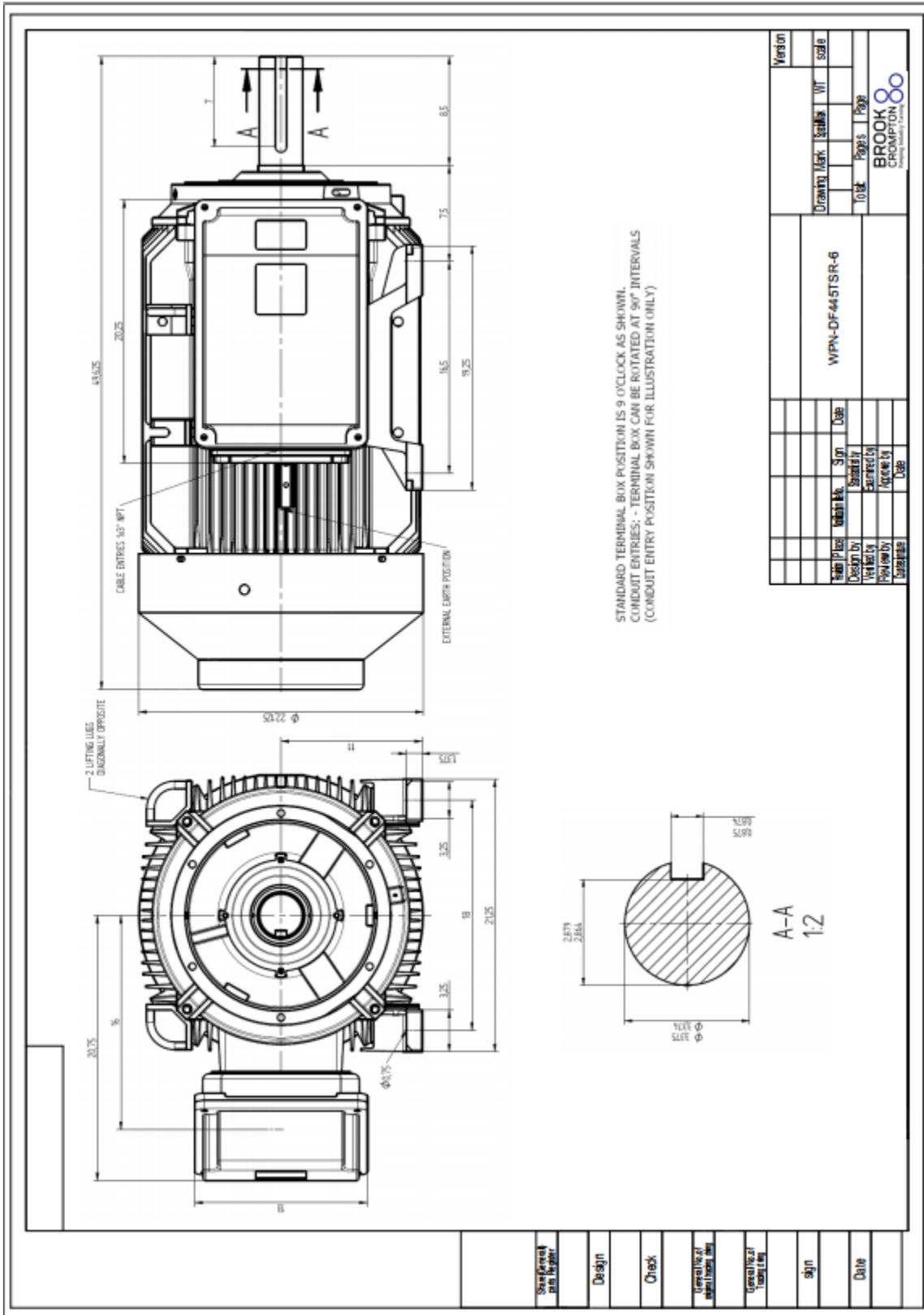
LOAD %	150.0	125.0	100.0	75.0	50.0	25.0
% EFF	94.7	95.0	95.2	95.2	94.6	92.2
% PF	83.9	83.9	82.5	78.9	70.2	48
AMPS(460V)	213	177	144	113	85.1	63.8

TORQUE(FL) LB-FT            725    TORQUE(LR)%FL            387    TORQUE(BD)%FL            274  
 AMPS(LR 460V)            1182    PF AT START            22

**Other Useful Information for Application:**

Rotor Inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):	108(4.53)
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):	23
Safe stall time (sec): Cold/Hot	27/11





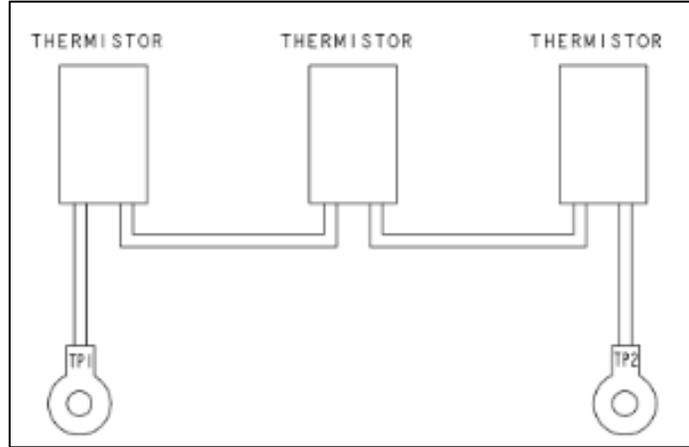
Version				
Drawing Mark	Scale	UT	UT	Scale
Total	Pages	Page		
 BROOK CROMPTON Keeping Industry Turning				

WPN-DF445TSR-6				
Item No.	Part No.	Rev	Date	
Design by	Checked by	Approved by	Date	
Drawn by	Reviewed by	Released by	Date	
Manufactured by	Assembled by	Inspected by	Date	
Completed by	Released by	Released by	Date	

Marks:

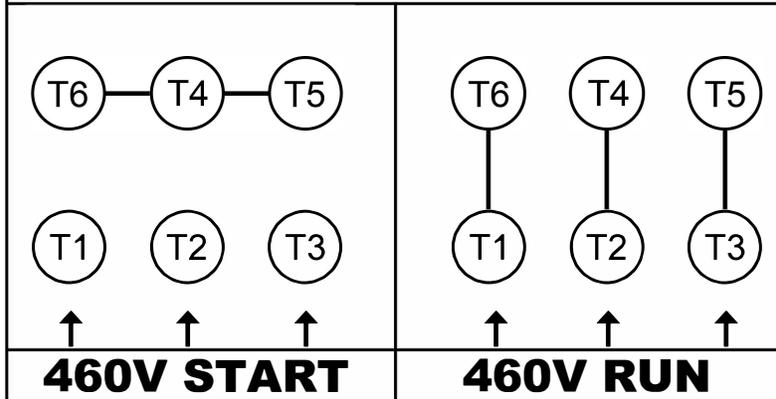
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**Thermistor Connection**



**6 LEAD CONNECTION - NEMA**

**FOR WYE DELTA STARTER CONNECT  
STAR START - DELTA RUN**



**DIRECT ON LINE**

