

Product Information Packet

February 5, 2024

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

Model Number:	WPN-DF145TSU-6
Catalog Number:	BC6N001V4
Connection Diagram:	See Page 4
Outline Drawing:	See Page 3

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Marks:

MODEL NUMBER:	BC6N001V4	Estimated Weight:	60 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:	145T	Alt Ambient Max(°C):	40
Phases:	3	Insulation Class:	F
Poles:	6	NEMA Design:	B
Output Power:	1HP	Nominal Efficiency:	82.5 %
RPM:	1160	Guaranteed Efficiency:	80.0 %
Voltage:	208-230/460	3/4 Load Efficiency:	82.0%
Hertz:	60	KVA Code:	G
Amps - FL:	3.21/1.61	Max KVAR:	6.3
Service Factor:	1.25@60Hz	Power Factor:	71%
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:
 190-200/400V
 3.86/1.93AMPS
 RPM 965
 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

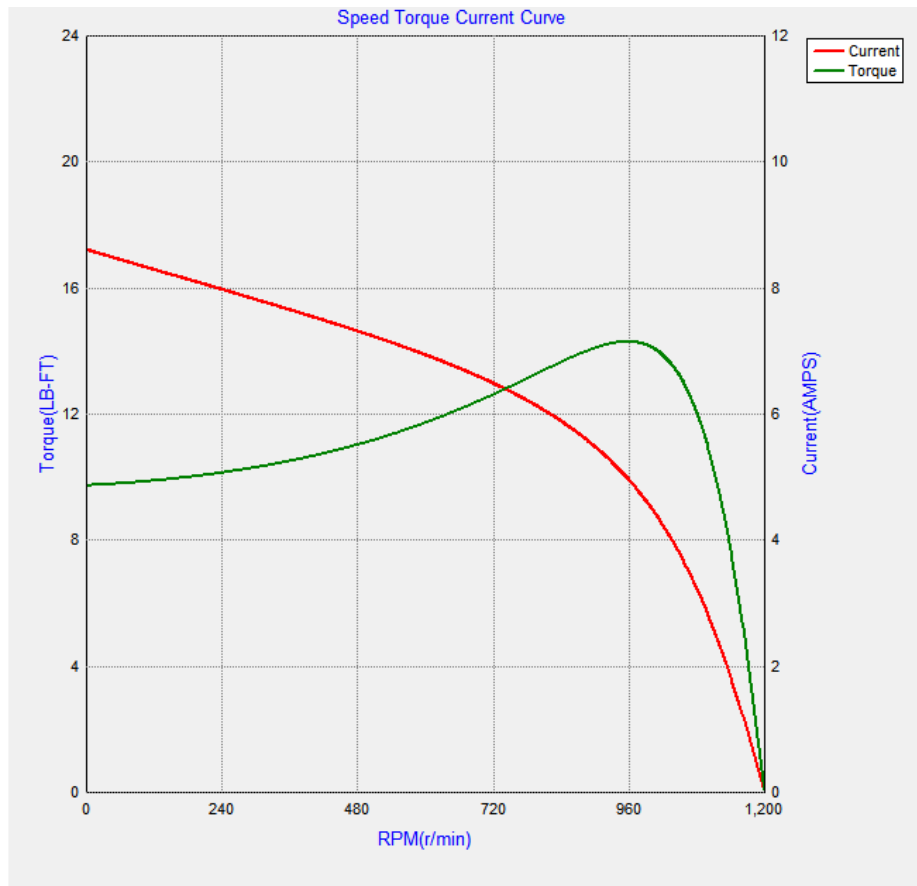
Marks:

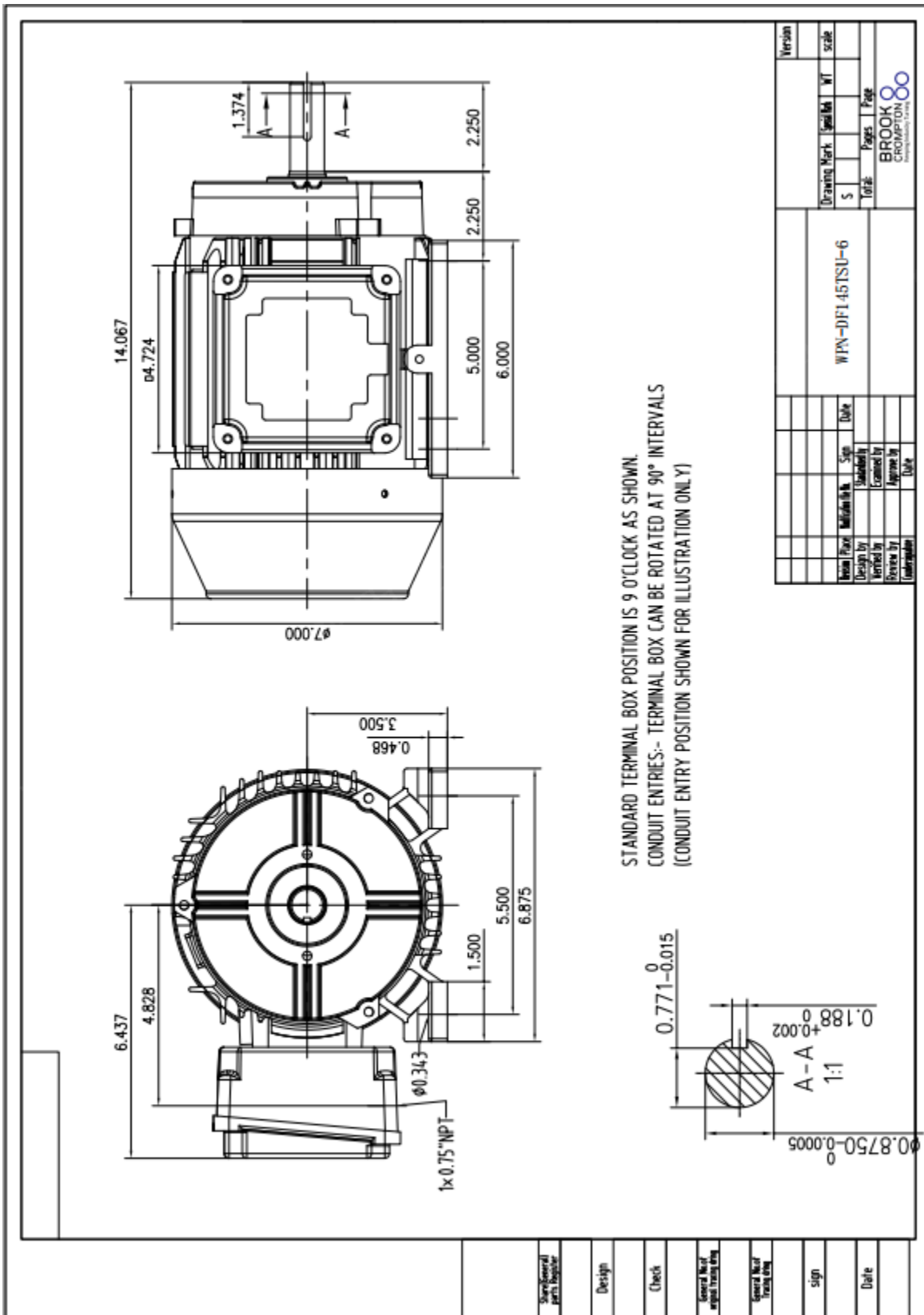
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	10.0
% EFF	81.0	82.1	82.5	82.0	79.6	71.3	81.0
% PF	78.4	75.8	71.0	63.1	50.3	31.1	78.4
AMPS(460V)	2.2	1.9	1.6	1.4	1.2	1.1	2.2

TORQUE(FL) LB-FT 4.6 TORQUE(LR)%FL 220 TORQUE(BD)%FL 310
 AMPS(LR 460V) 8.76 PF AT START 28

Other Useful Information for Application:

Rotor Inertia: Lb-Ft ² (Kg-m ²):	0.140(0.006)
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):	5.7
Safe stall time (sec): Cold/Hot	96/39





Marks:

Connection Diagram

