Product Information Packet

February 13, 2024

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

Model Number:	**WPN-DA145TSU-6D**
Catalog Number:	**BA6N001V4D**
Connection Diagram:	**See Page 4**
Outline Drawing:	**See Page 3**

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Marks:

MODEL NUMBER:	BA6N001V4D	**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:	145TD	**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

BROOK CROMPTON
Keeping Industry Turning

Model Number: BA6N001V4D	**February 13, 2024**

Performance Characteristics

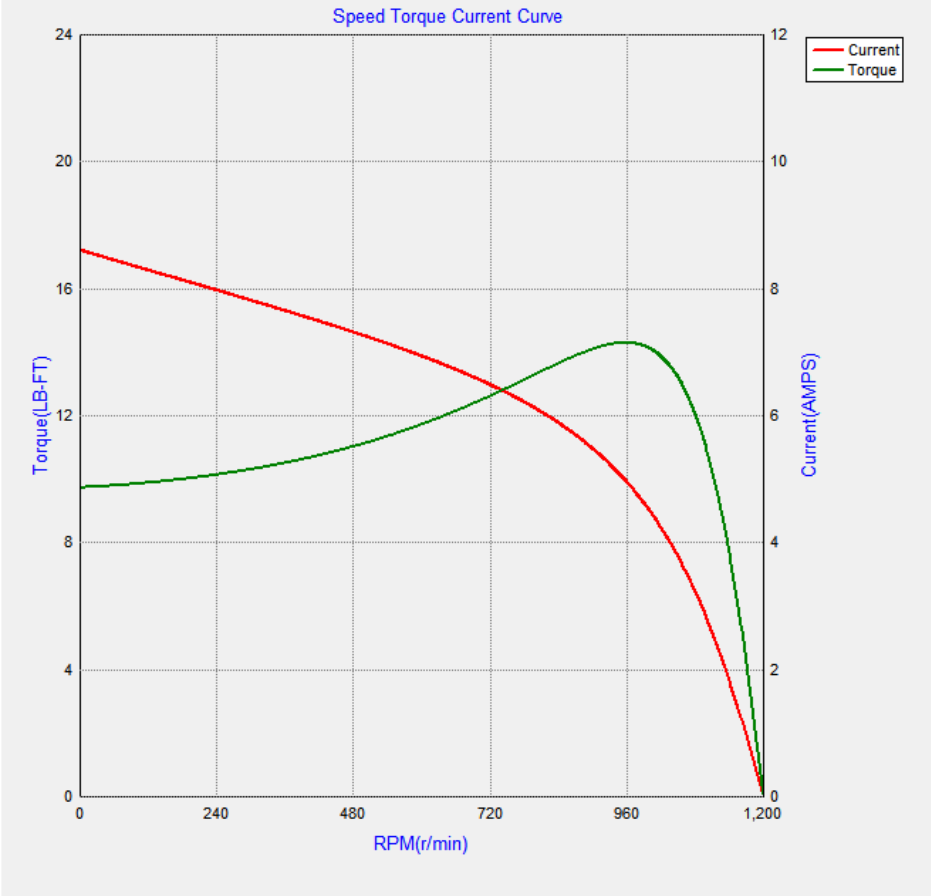
Marks:

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



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Please contact Brook Crompton for drawings.

Marks:

Connection Diagram