BROOK CROMPTON
Keeping Industry Turning

Product Information Packet

February 13, 2024

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

Model Number:	**WPN-DA143TSJ-2D**
Catalog Number:	**BA2N1.5V4D**
Connection Diagram:	**See Page 4**
Outline Drawing:	**See Page 3**

Table of Contents

Marks:

MODEL NUMBER:	BA2N1.5V4D	**Estimated Weight:**	50 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:	143TD	**Alt Ambient Max(°C):**	40
Phases:	3	**Insulation Class:**	F
Poles:	2	**NEMA Design:**	B
Output Power:	1.5HP	**Nominal Efficiency:**	84.0 %
RPM:	3490	**Guaranteed Efficiency:**	81.5 %
Voltage:	208-230/460	**3/4 Load Efficiency:**	84.2 %
Hertz:	60	**KVA Code:**	K
Amps - FL:	3.78/1.89	**Max KVAR:**	9
Service Factor:	1.25@60Hz	**Power Factor:**	87%
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
4.41/2.21AMPS
RPM 2905
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

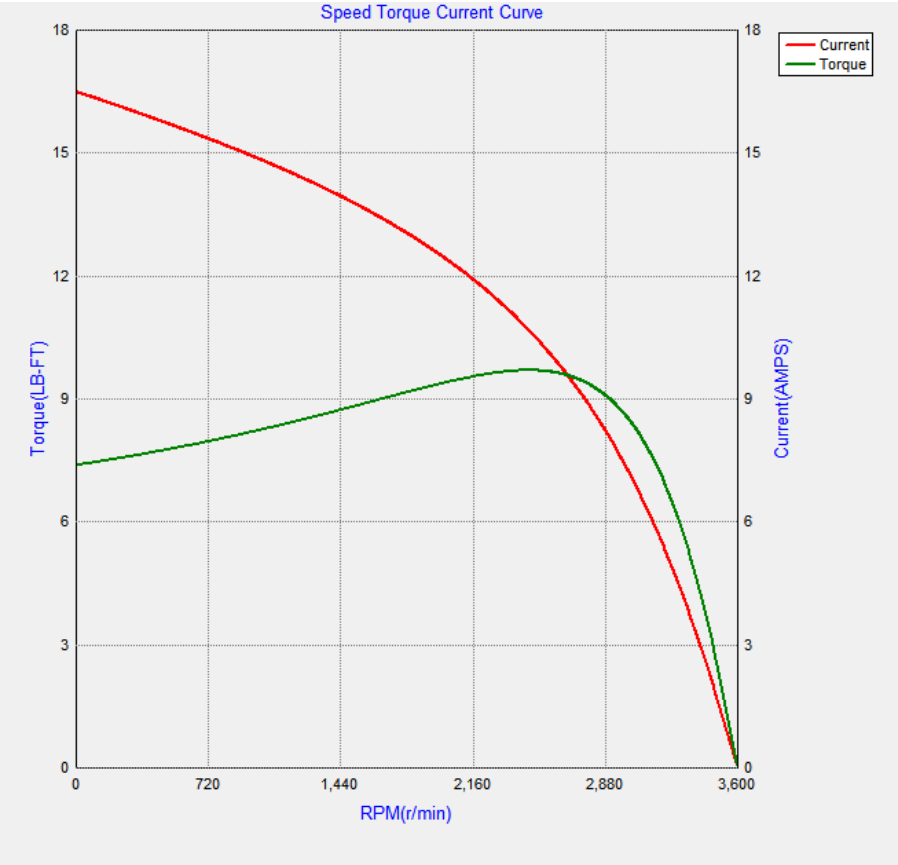
Marks:

LOAD %	150.0	125.0	100.0	75.0	50.0	25.0
% EFF	81.88	83.15	84.01	84.24	83.16	77.62
% PF	90.33	89.40	87.11	83.23	74.17	52.49
AMPS(460V)	2.80	2.32	1.88	1.48	1.12	0.85

TORQUE(FL) LB-FT	3.01	TORQUE(LR)%FL	330	TORQUE(BD)%FL	423
AMPS(LR 460V)	17.16	PF AT START	28		

Other Useful Information for Application:

Rotor Inertia: Lb-Ft^2 (Kg-m^2):	0.026(0.001)
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):	6.1
Safe stall time (sec): Cold/Hot	16/6



Please contact Brook Crompton for drawings.

Marks:

Connection Diagram