

Product Information Packet

April 1, 2024

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

Model Number:	WPN-DF405TSX-4
Catalog Number:	BC4N100V4
Connection Diagram:	See Page 4
Outline Drawing:	See Page 3

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Marks:

MODEL NUMBER:	BC4N100V4	Estimated Weight:	1384 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:	405TS	Alt Ambient Max(°C):	40
Phases:	3	Insulation Class:	F
Poles:	4	NEMA Design:	B
Output Power:	100HP	Nominal Efficiency:	95.4 %
RPM:	1785	Guaranteed Efficiency:	94.5%
Voltage:	208-230/460	3/4 Load Efficiency:	95.5%
Hertz:	60	KVA Code:	G
Amps - FL:	230/115	Max KVAR:	6.3
Service Factor:	1.25@60Hz	Power Factor:	86%
Alt Service Factor:	1.15	Bearing - DE:	6318-C3
		Bearing - ODE:	6314-C3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

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

50HZ DATA:
 190-200/400V
 265/133AMPS
 RPM 1485
 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

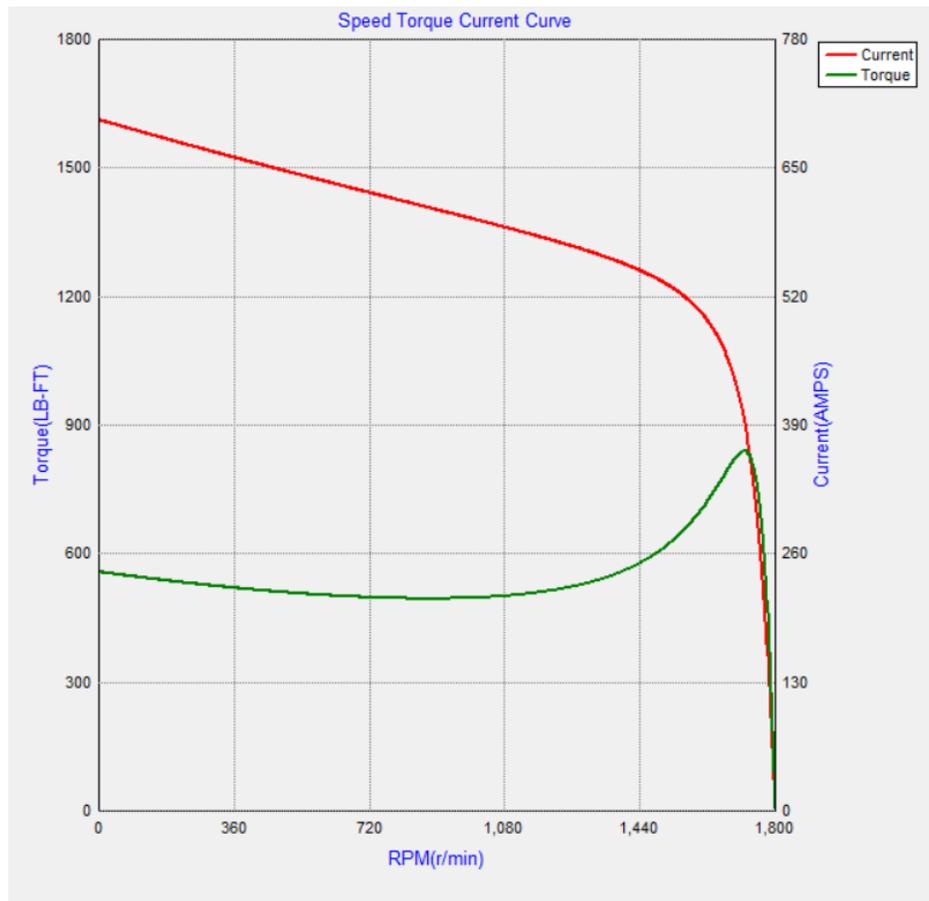
Marks:

LOAD %	150.0	125.0	100.0	75.0	50.0	25.0
% EFF	94.8	95.2	95.5	95.6	95.4	93.7
% PF	86.5	86.7	86.0	83.4	76.5	55.8
AMPS(460V)	172	143	115	88.6	64.5	45.0

TORQUE(FL) LB-FT 401 TORQUE(LR)%FL 190 TORQUE(BD)%FL 284
 AMPS(LR 460V) 484 PF AT START 38

Other Useful Information for Application:

Rotor Inertia: Lb-Ft ² (Kg-m ²):	27.6(1.16)
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):	21.3
Safe stall time (sec): Cold/Hot	47/19



Marks:

Connection Diagram

Thermistor Connection

