BROOK CROMPTON
Keeping Industry Turning

Product Information Packet

February 5, 2024

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

Model Number:	**WPN-DF213TSM-4C**
Catalog Number:	**BC4N7.5V4C**
Connection Diagram:	**See Page 4**
Outline Drawing:	**See Page 3**

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Marks:

MODEL NUMBER:	BC4N7.5V4C	Estimated Weight:	142 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:	213TC	Alt Ambient Max(°C):	40
Phases:	3	Insulation Class:	F
Poles:	4	NEMA Design:	B
Output Power:	7.5HP	Nominal Efficiency:	91.7 %
RPM:	1765	Guaranteed Efficiency:	90.2 %
Voltage:	208-230/460	3/4 Load Efficiency:	91.6 %
Hertz:	60	KVA Code:	H
Amps - FL:	17.9/8.96	Max KVAR:	7.1
Service Factor:	1.25@60Hz	Power Factor:	84%
Alt Service Factor:	1.15	Bearing - DE:	6208-ZZC3
		Bearing - ODE:	6208-ZZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
12-60HZ CONSTANT TORQUE, 6-60Hz VARIABLE TORQUE

50HZ DATA:
190-200/400V
21.1/10.6AMPS
RPM 1470
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	90.71	91.36	91.71	91.63	90.57	86.09
% PF	86.29	85.88	83.96	79.76	70.27	48.22
AMPS(460V)	13.24	11.01	8.97	7.09	5.43	4.16

TORQUE(FL) LB-FT   29.76   TORQUE(LR)%FL   210   TORQUE(BD)%FL   310

AMPS(LR 460V)   74.4   PF AT START   23

Other Useful Information for Application:

Rotor Inertia: Lb-Ft^2 (Kg-m^2):	0.859(0.036)
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):	8.7
Safe stall time (sec): Cold/Hot	37/15

Speed Torque Current Curve

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STANDARD TERMINAL BOX POSITION IS 9 O'CLOCK AS SHOWN.
CONDUIT ENTRIES:- TERMINAL BOX CAN BE ROTATED AT 90° INTERVALS
(CONDUIT ENTRY POSITION SHOWN FOR ILLUSTRATION ONLY)

WPN-DF213TSM-4C

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Marks:

Connection Diagram

2Y/Y

2Y

Y