BROOK CROMPTON
Keeping Industry Turning

Product Information Packet

April 4, 2025

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

Model Number:	**WPN-DF225MF-6**
Catalog Number:	**BC6M040V4D**
Connection Diagram:	**See Page 4**
Outline Drawing:	**See Page 3**

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Marks:

MODEL NUMBER:	BC6M040V4D	**Estimated Weight:**	1050Lbs
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:	225M	**Alt Ambient Max(°C):**	40
Phases:	3	**Insulation Class:**	F
Poles:	6	**NEMA Design:**	B
Output Power:	40HP	**Nominal Efficiency:**	94.1 %
RPM:	1185	**Guaranteed Efficiency:**	93.0 %
Voltage:	208-230/460	**3/4 Load Efficiency:**	94.3%
Hertz:	60	**KVA Code:**	G
Amps - FL:	93.1/46.5	**Max KVAR:**	6.3
Service Factor:	1.25@60Hz	**Power Factor:**	86%
Alt Service Factor:	1.15	**Bearing - DE:**	6316-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
108/54.2AMPS
RPM 985
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

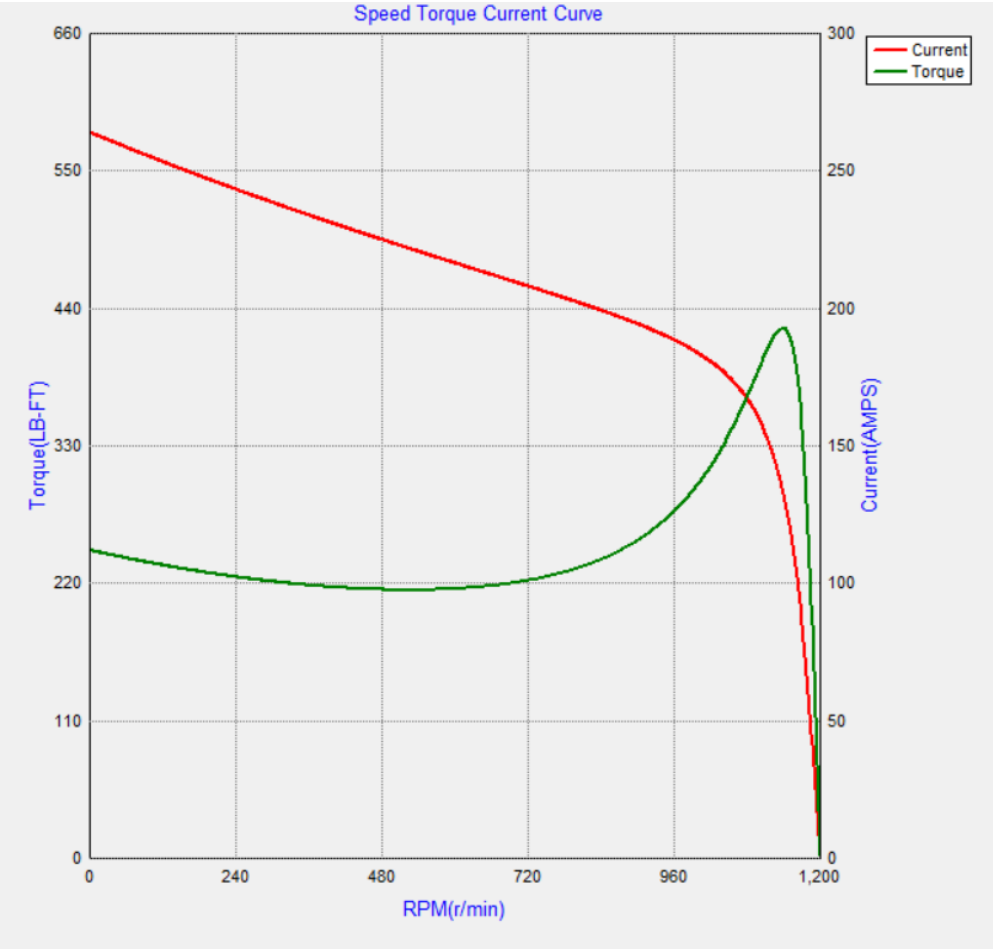
Marks:

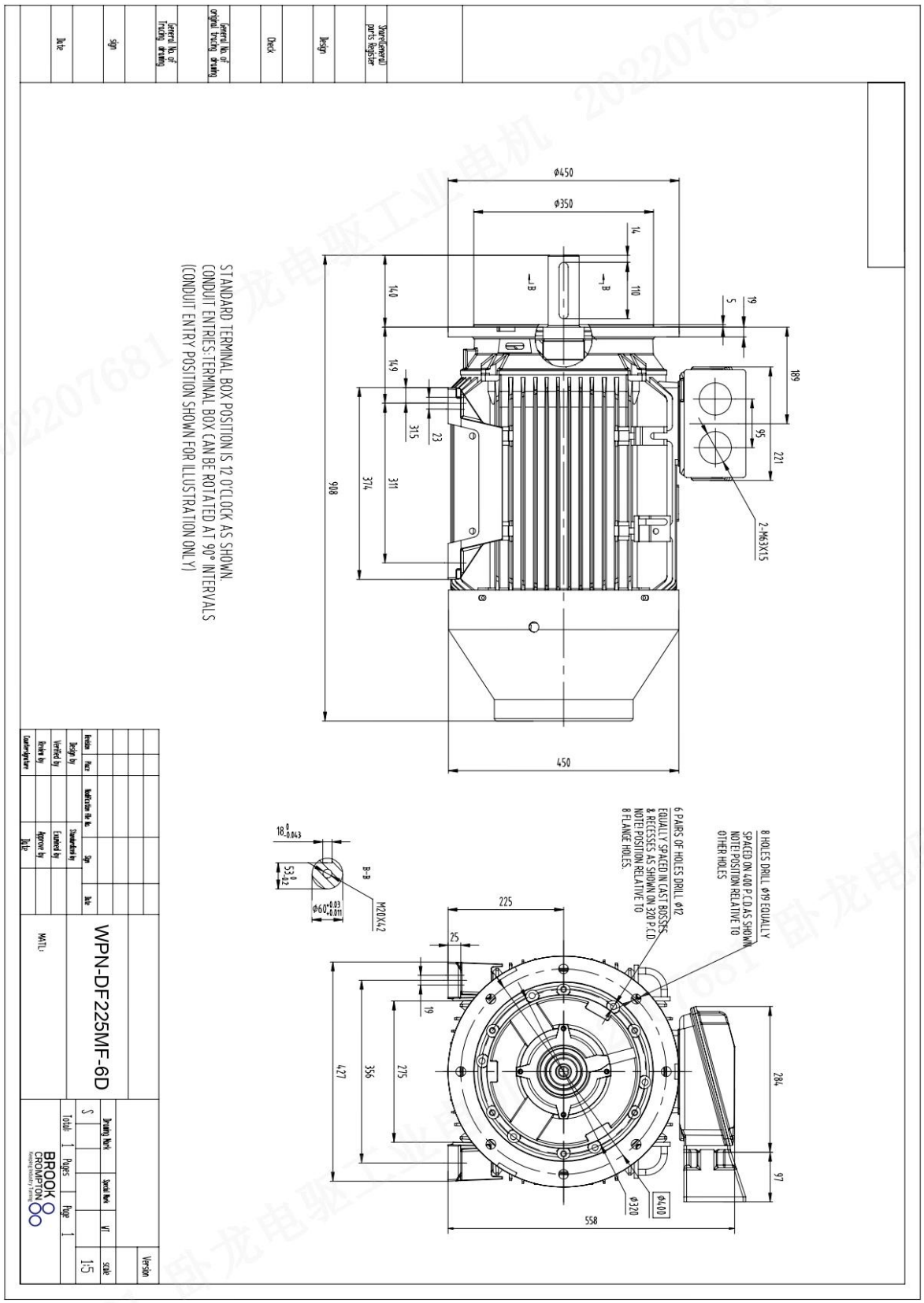
LOAD %	150.0	125.0	100.0	75.0	50.0	25.0
% EFF	93.0	93.7	94.1	94.3	93.9	91.7
% PF	86.3	83.7	83.3	80.6	73.2	52.3
AMPS(460V)	70.4	60.0	48.0	37.2	27.4	19.6

TORQUE(FL) LB-FT	242	TORQUE(LR)%FL	140	TORQUE(BD)%FL	236
AMPS(LR 460V)	276	PF AT START	25		

Other Useful Information for Application:

Rotor Inertia: Lb-Ft^2 (Kg-m^2):	18.6(0.783)
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):	15
Safe stall time (sec): Cold/Hot	78/32




STANDARD TERMINAL BOX POSITION IS 12 O'CLOCK AS SHOWN.
CONDUIT ENTRIES:TERMINAL BOX CAN BE ROTATED AT 90° INTERVALS
(CONDUIT ENTRY POSITION SHOWN FOR ILLUSTRATION ONLY)
8 HOLES DRILL Φ19 EQUALLY SPACED ON 400 P.C.D.AS SHOWN NOTE: POSITION RELATIVE TO OTHER HOLES
6 PAIRS OF HOLES DRILL Φ12 EQUALLY SPACED IN CAST BOSSES & RECESSES AS SHOWN ON 320 P.C.D. NOTE: POSITION RELATIVE TO 8 FLANGE HOLES.
WPN-DF225MF-6D
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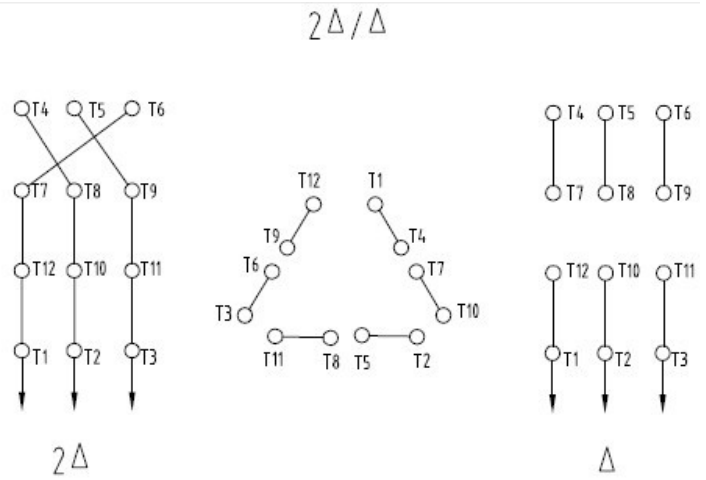
Model Number: BC6M040V4D	**April 4, 2025**

Marks:

Connection Diagram



Thermistor Connection