

NEMA

Model BMB.754D-C
MFG PN: T56 3/4U4B

Model **BMB.754D-C**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMB.754D-C	0.75	1750	208-230/460	3	60	56C	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	0.75	HP
	-	kW
Rated Motor Speed	1750	r/min 60Hz
	1430	r/min 50Hz
Rated Motor Voltage (+/-10%)	208-230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	2.48-2.5/1.25	A (I _n) @ 60Hz
	2.82/1.41	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	8.65	A (I _n) @ 60Hz
FI Current @ 208V	2.48	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	H	50Hz
Nominal Efficiency	81.5	% @ 60Hz
Nominal Power Factor	0.68	cosΦ @ 60Hz
Leads (Qty, Size)	9	18
Connection	YY/Y	-
Coil Resistance	-	Ω
Start Capacitor	-	µF/V
Run Capacitor	-	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	29.7	°C @ 60Hz
	-	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	205	230
Brake Model	REB04-08B-205-008	
Rectifier Model	RZL141-170H	

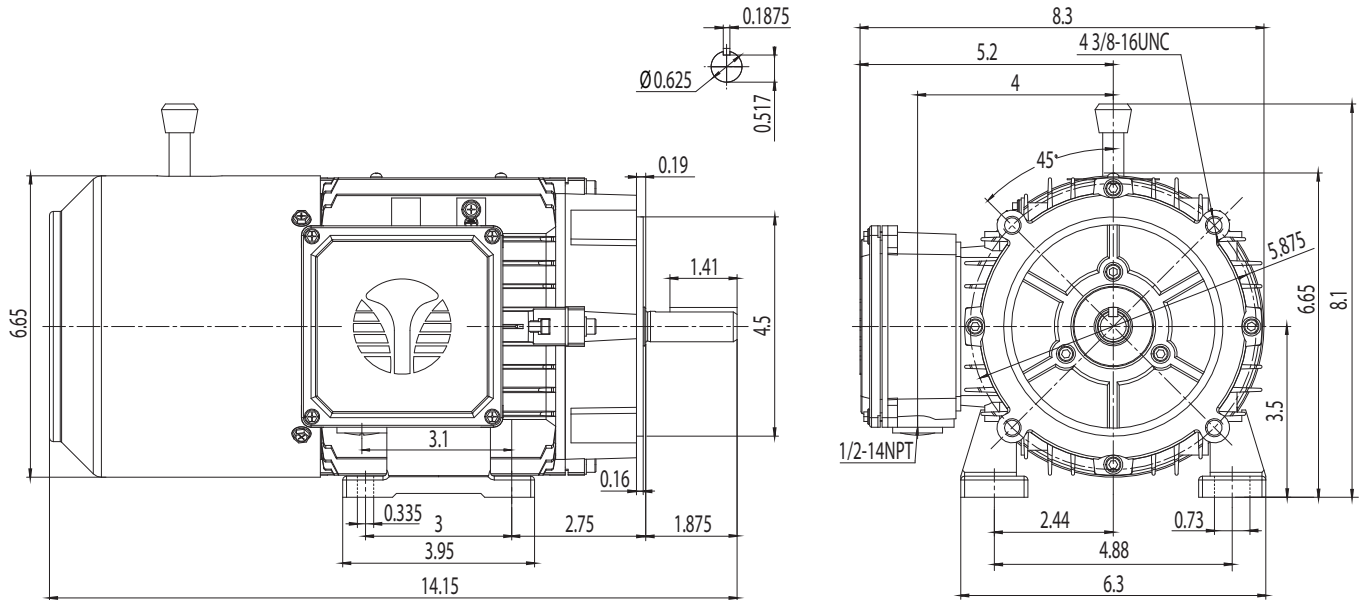
GENERAL DATA		
Frame Size	56C	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	27.4 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	B	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	YES	NO
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6204 ZZ	
Bearing ODE Side	6204 ZZ	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	-	
Sound Pressure @ 3 FT dBA	-	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	-	
Temperature Code	-	-

BRAKE TORQUE	
Rated Torque (ft.lb)	5.9
Rated Torque (Nm)	8

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.75	0.75
RPM	1750	1430
Voltage	208-230/460	190/380
Full Load Amps	2.48-2.5/1.25	2.82/1.41
Service Factor	1.25	1
KVA Code	L	H
Full Load Amps (208V)	2.48	-
Nominal Efficiency	81.5	77
Nominal Power Factor	0.68	-
Design	B	
Frame	56C	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6204 ZZ	
Opposite Drive End Bearing	6204 ZZ	
Weight (lbs)	27.4	

NAMEPLATE LAYOUT

TECHTOP INDUSTRIAL THREE PHASE MOTOR
 INVERTER DUTY 15:1 CT 30:1 VT - 1.0 SF

MODEL MFG PN

60Hz 50Hz MFG DATE

HP SER #

RPM DESIGN

VOLT FRAME

FLA ENCL / IP 55

SF DUTY

KVA CODE INS CL

NOM.EFF AMB

EFF 75% DE

PF ODE

USABLE AT 208V WEIGHT lbs

NEMA Premium

TECHTOPCANADA.COM

BRAKE: NM FT-LBS VOLTS: VAC VDC MADE IN CHINA

CC088A
E323353
US
224653
Energy Verified Only

VFD DUTY (S.F. 1.0)	RATIO	Hz*
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

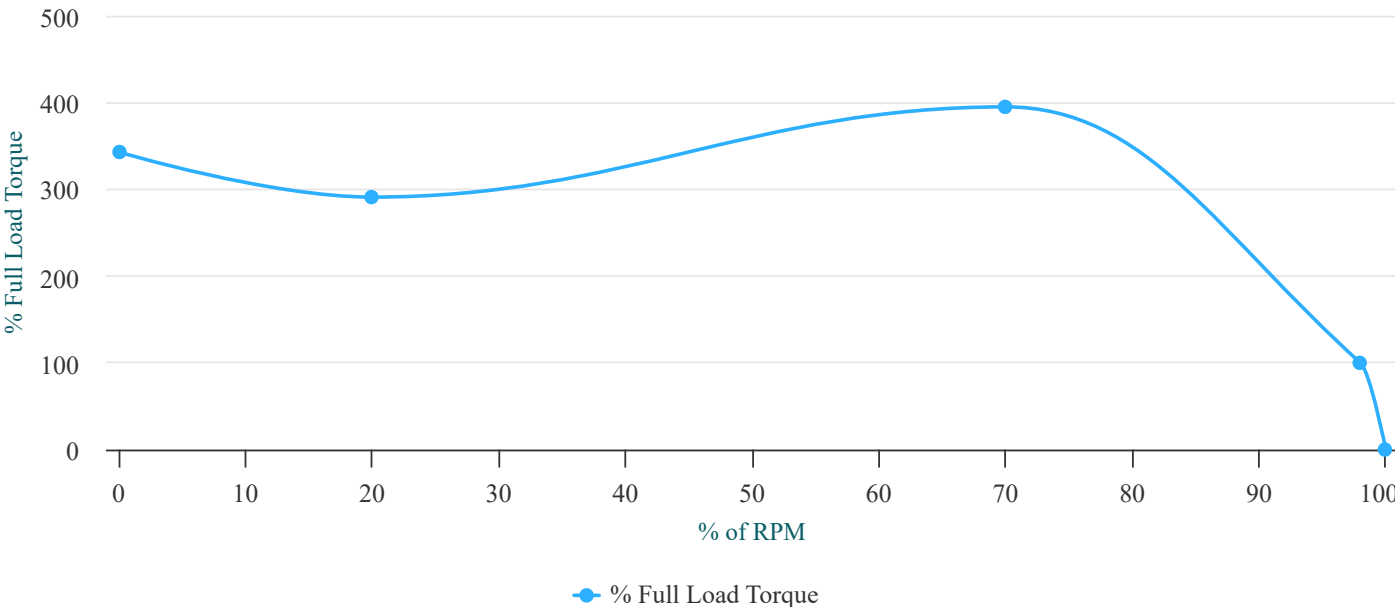
DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	8	5.9
Brake Volts (VDC / VAC)	205	230

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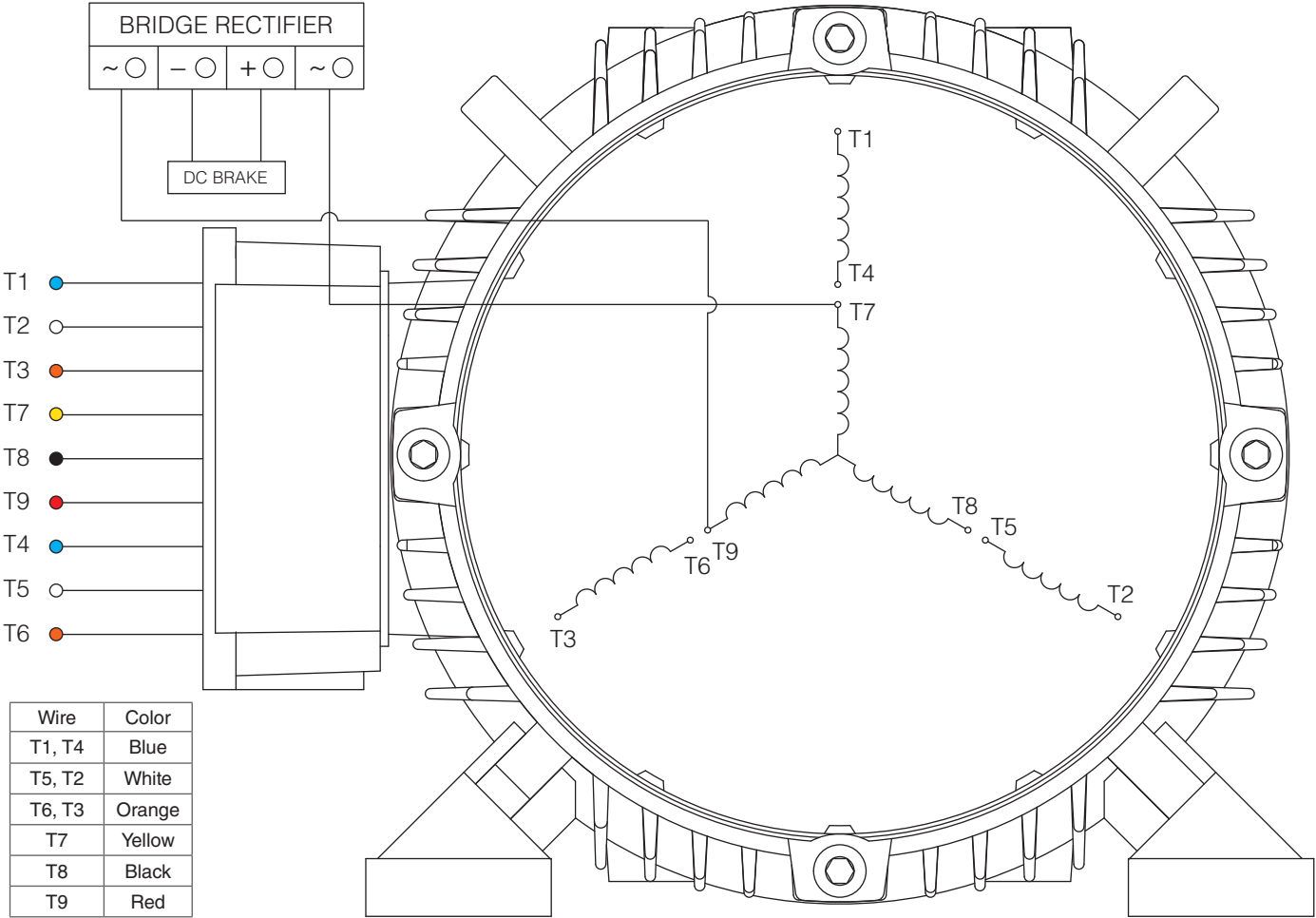
Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz			TYPICAL PERFORMANCE - NOT GUARANTEED VALUES	
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	2.3	343	Start Configuration	DOL
Pull-Up Torque	6.5	291	Starting Current (A)	8.65
Breakdown Torque	8.9	395	No-Load Current (A)	1
Full Load Torque	7.7	100	No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1	1	1.1	1.3	1.4	1.4
Efficiency (%)	62.8	75.7	80.2	81.8	82	82
Speed (r/min)	1787	1776	1763	1749	1734	1734
Power Factor (cosΦ)	0.28	0.44	0.57	0.67	0.74	0.74
Input Power (kW)	0.22	0.37	0.52	0.68	0.85	0.85

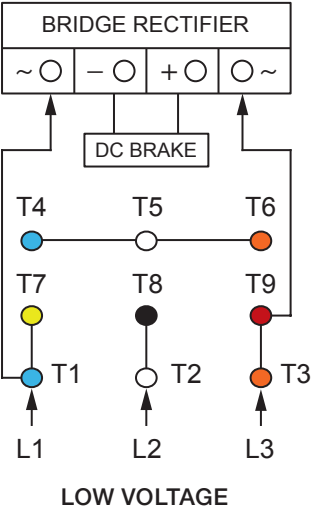
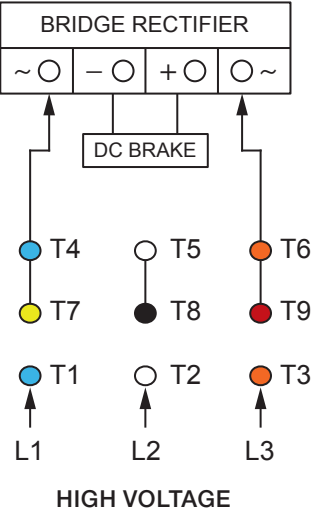
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- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED AND COLORED AS SHOWN
 - 5. DIAGRAMS FOR REFERENCE ONLY



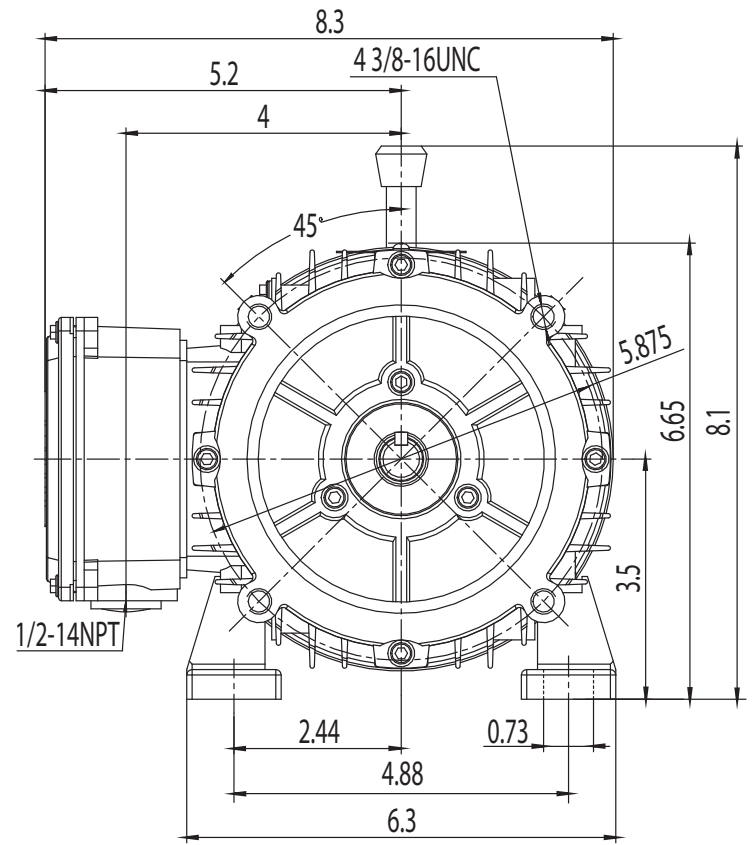
DRAWING NUMBER:	NEMA-3-9-YY-Y-BRK
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	Optional



NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE 04/07/25

PREMIUM 56C BRAKE MOTORS



DRAWING NUMBER:	GR3-AL-TF-56C-BRK	ISSUED DATE	04/07/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM 56C BRAKE MOTORS	
CASING MATERIAL:	Cast Aluminum		