



Model BMM71B4D
MFG PN: TM712-4

Model BMM71B4D

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMM71B4D	0.5	1690	230/460	3	60	71	B3	TEFC

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Moncton

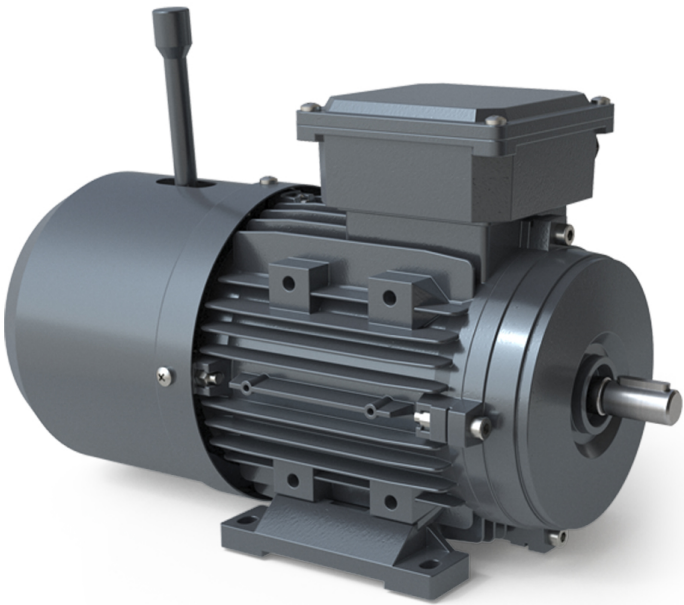
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ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	0.37	kW
Rated Motor Speed	1690	r/min 60Hz
	1370	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	1.88/0.94	A (I _n) @ 60Hz
	2.18/1.09	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	1.9	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	1	@ 50Hz
KVA Code	J	60Hz
	F	50Hz
Nominal Efficiency	72.5	% @ 60Hz
Nominal Power Factor	0.68	cosΦ @ 60Hz
Leads (Qty, Size)	9	0.5 mm ²
Connection	YY/Y	-
Coil Resistance	-	Ω
Start Capacitor	-	µF/V
Run Capacitor	-	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	10:1	6 - 60
Constant Torque	4:1	12 - 60
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	-	°C @ 60Hz
	-	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	205	230
Brake Model	REB04-06B-205-006	
Rectifier Model	RZL141-170H	

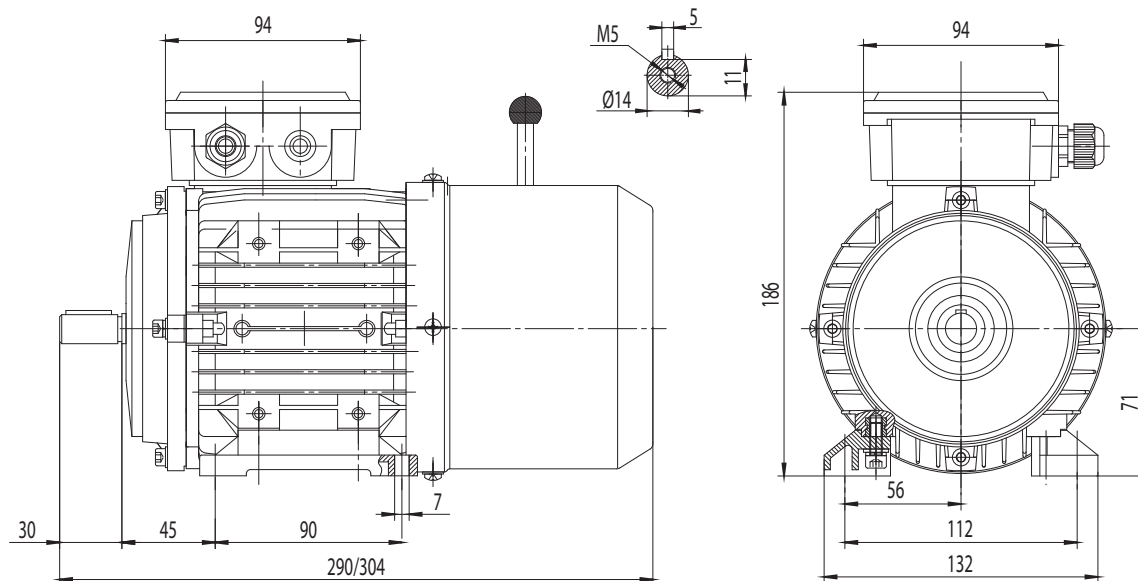
GENERAL DATA		
Frame Size	71	
Enclosure	TEFC	
Mounting	B3	
Approximate Weight (lbs.)	20.3 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	-	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F0	
Feet Removable / Double Drilled	YES	NO
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6202 ZZ	
Bearing ODE Side	6202 ZZ	
Grease Type	Mobil Polyrex EM	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft ²)	-	
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)	4.4
Rated Torque (Nm)	6

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NAMEPLATE DATA	60Hz	50Hz
HP/kW	0.5/0.37	0.5/0.37
RPM	1690	1370
Voltage	230/460	190/380
Full Load Amps	1.88/0.94	2.18/1.09
Service Factor	1.15	1
KVA Code	J	F
Full Load Amps (208V)	1.9	-
Nominal Efficiency	72.5	-
Nominal Power Factor	0.68	-
Design	-	
Frame	71	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6202 ZZ	
Opposite Drive End Bearing	6202 ZZ	
Weight (lbs)	20.3	

NAMEPLATE LAYOUT

TECHTOP INDUSTRIAL THREE PHASE MOTOR
 INVERTER DUTY 4:1 CT 10:1 VT - 1.0 SF

MODEL			MFG PN	
	60Hz	50Hz	MFG DATE	
HP/KW			SER #	
RPM			DESIGN	
VOLT			FRAME	
FLA			ENCL / IP	TEFC 55
SF			DUTY	
KVA CODE			INS CL	
NOM.EFF			AMB	
EFF 75%			DE	
PF			ODE	
USABLE AT 208V		A	WEIGHT	lbs

TECHTOPCANADA.COM

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

CC088A
 E323353
 C-ULUS
 224653
 Energy Verified Only

VFD DUTY (S.F. 1.0)	RATIO	Hz*
Variable Torque	10:1	6 - 60
Constant Torque	4:1	12 - 60

*For max speed please contact Techtop Canada

DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	6	4.4
Brake Volts (VDC / VAC)	205	230

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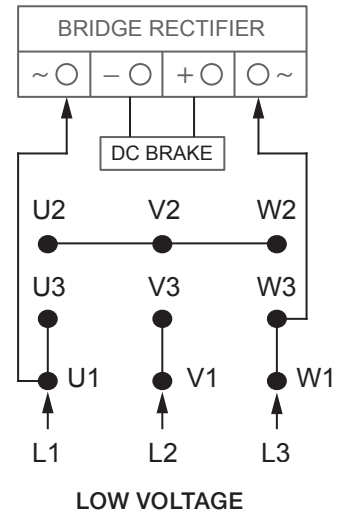
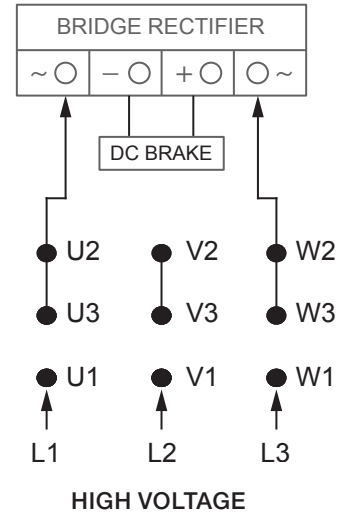
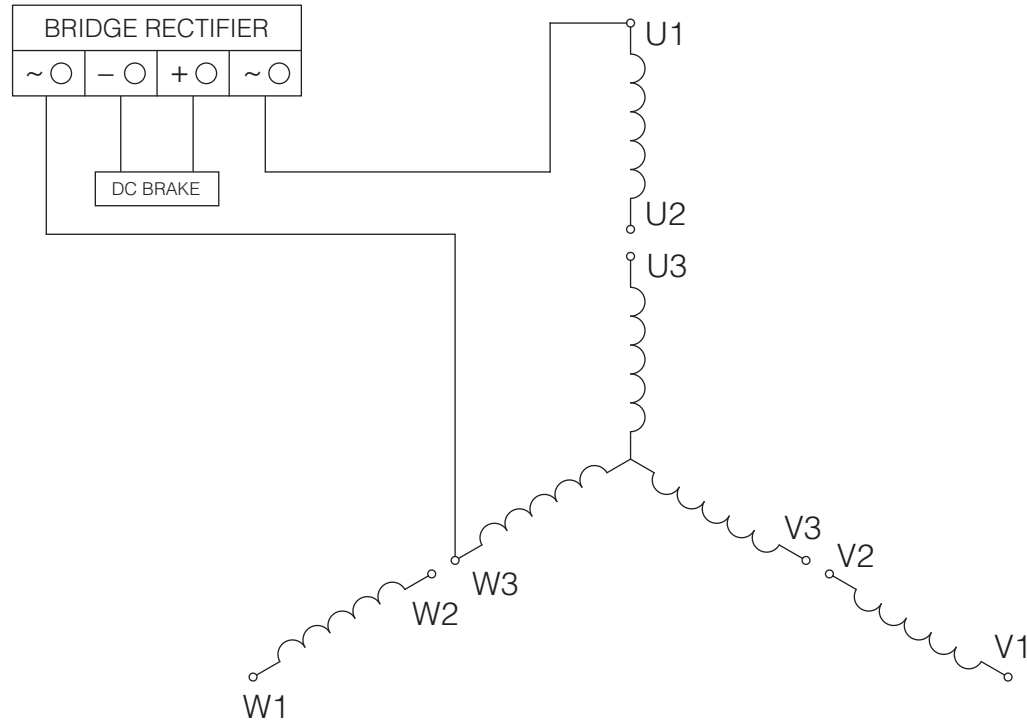
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	1.6	320	Start Configuration	DOL
Pull-Up Torque	-	-	Starting Current (A)	-
Breakdown Torque	4.2	270	No-Load Current (A)	-
Full Load Torque	5	100	No-Load Power Factor	-

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

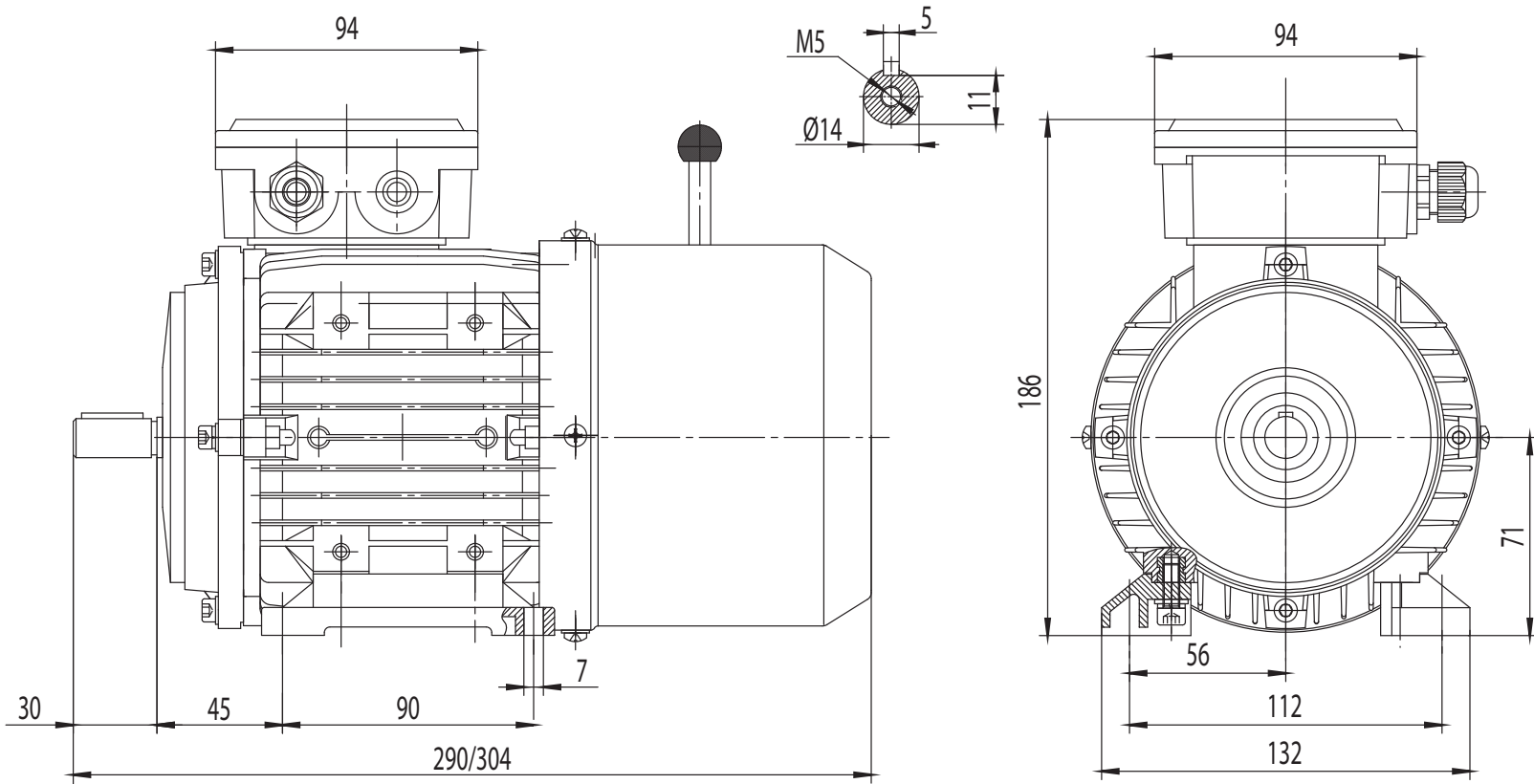
% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	-	-	-	-	-	-
Efficiency (%)	-	-	-	-	-	-
Speed (r/min)	-	-	-	-	-	-
Power Factor (cosΦ)	-	-	-	-	-	-
Input Power (kW)	-	-	-	-	-	-

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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



IE1 TEFC 71

DRAWING NUMBER:

BL3-AL-TF-71B3-BRK

DIMENSIONS:

mm

MOUNTING:

B3

CASING MATERIAL:

Cast Aluminum

ISSUED DATE

19/09/25

METRIC IE1/IE3 BRAKE MOTORS