

NEMA

Model BMS0004C-C
MFG PN: TLFB561Z4L

Model **BMS0004C-C**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMS0004C-C	1	1745	115/208-230	1	60	56HC	Rigid/C-Flange	TEFC

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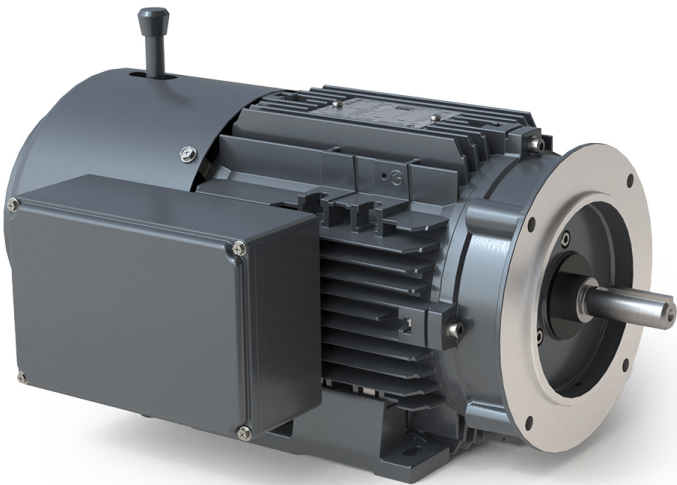
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ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1745	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	115/208-230	V/60Hz
	-	V/50Hz
Rated Motor Current	9.06/5.01-4.53	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	1	Ø
Locked Rotor Current @ High Voltage	30.46	A (I _n) @ 60Hz
FI Current @ 208V	5.01	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	H	60Hz
	-	50Hz
Nominal Efficiency	80	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	6	-
Connection	-	-
Coil Resistance	2.74	Ω
Start Capacitor	300µF/165V	µF/V
Run Capacitor	50µF/250V	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	-	-
Constant Torque	-	-
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	42.8	°C @ 60Hz
	-	°C @ 50Hz

BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	103	115
Brake Model	REB04-10B-103-016	
Rectifier Model	RZL141-170H	

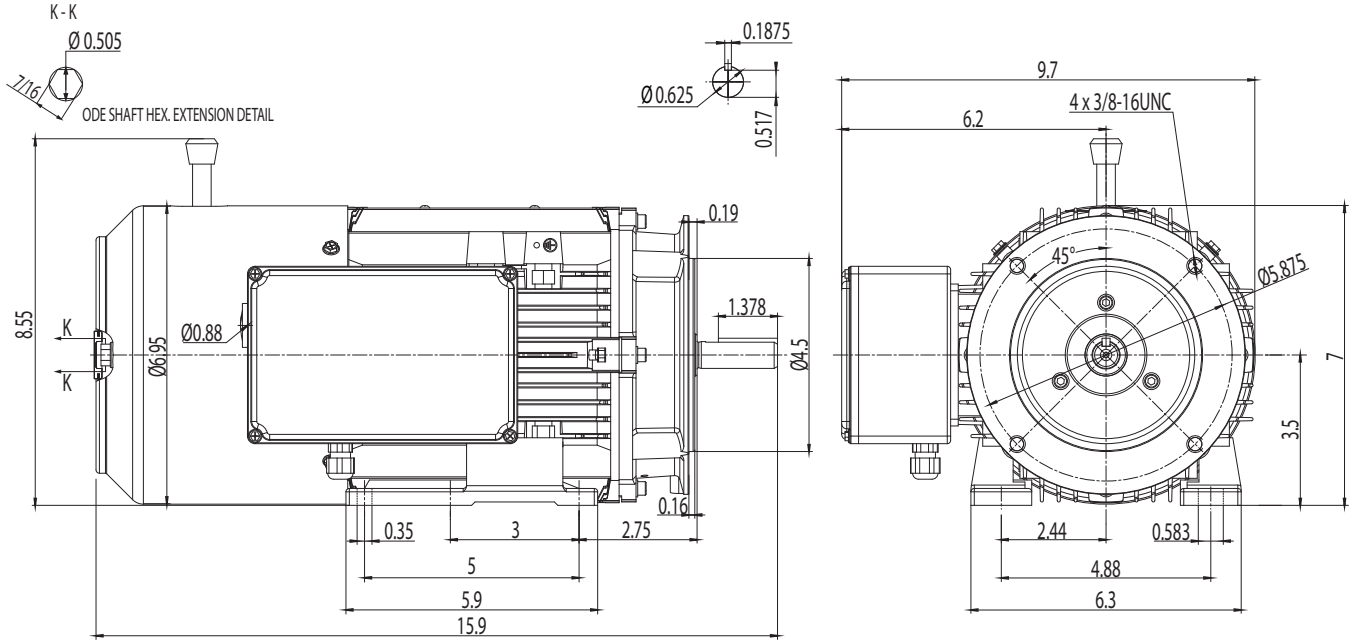
GENERAL DATA		
Frame Size	56HC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	39 lbs.	
Casing Material / Fan Cover	Cast Aluminum	Steel
Shaft Material	1045	
NEMA Design	L	
Degree of Protection (IP)	55	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	YES	YES
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6205 ZZ	
Bearing ODE Side	6205 ZZ	
Grease Type	ASE-L	
Compensation Ring (wavy washer)	NDE	
Moment of Inertia (lb-ft²)	-	
Sound Pressure @ 3 FT dBA	60	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	-	
Temperature Code	-	-

BRAKE TORQUE	
Rated Torque (ft.lb)	16
Rated Torque (Nm)	22

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	-
RPM	1745	-
Voltage	115/208-230	-
Full Load Amps	9.06/5.01-4.53	-
Service Factor	1.15	-
KVA Code	H	-
Full Load Amps (208V)	5.01	-
Nominal Efficiency	80	-
Nominal Power Factor	0.9	-
Design	L	
Frame	56HC	
Enclosure Type	TEFC	
IP Rating	55	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6205 ZZ	
Opposite Drive End Bearing	6205 ZZ	
Weight (lbs)	39	

NAMEPLATE LAYOUT

TECHTOP DATE OF MFG
SINGLE PHASE BRAKE MOTOR SERIAL NUMBER
MODEL: BMS MFG PN: TLFB
FRAME HP ENCL/IP
VOLTS HZ 60 AMPS
RPM DUTY
KVA CODE PF CS μ F V
INS.CLASS F EFF CR μ F V
SF DES AMB °C
BRK VOLTS VDC/VAC DE ZZ
BRK TORQUE NM/FT-LBS ODE ZZ C US 224693
TECHTOPCANADA.COM MADE IN CHINA

CAPACITOR DATA

	μ F	VOLTAGE
Start Capacitor	300	165
Run Capacitor	50	250

*For max speed please contact Techtop Canada

DC BRAKE DATA

Brake Torque (Nm / ft.lb)	22	16
Brake Volts (VDC / VAC)	103	115

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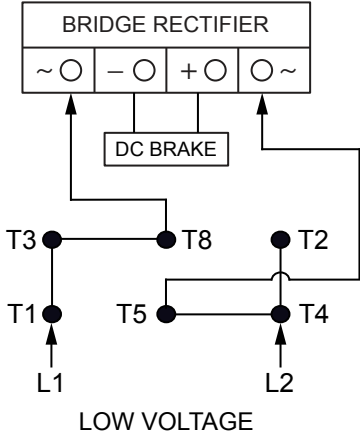
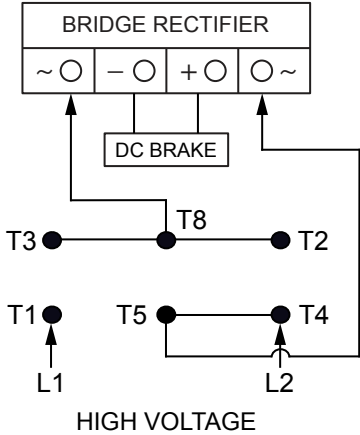
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz			TYPICAL PERFORMANCE - NOT GUARANTEED VALUES	
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	-	293	Start Configuration	DOL
Pull-Up Torque	-	214	Starting Current (A)	30.46
Breakdown Torque	-	231	No-Load Current (A)	2.4
Full Load Torque	8.7	100	No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	-	-	-	4.8	5.7	-
Efficiency (%)	-	-	-	77.8	78	-
Speed (r/min)	-	-	-	1742	1718	-
Power Factor (cosΦ)	-	-	-	0.88	0.91	-
Input Power (kW)	-	-	-	0.96	1.2	-

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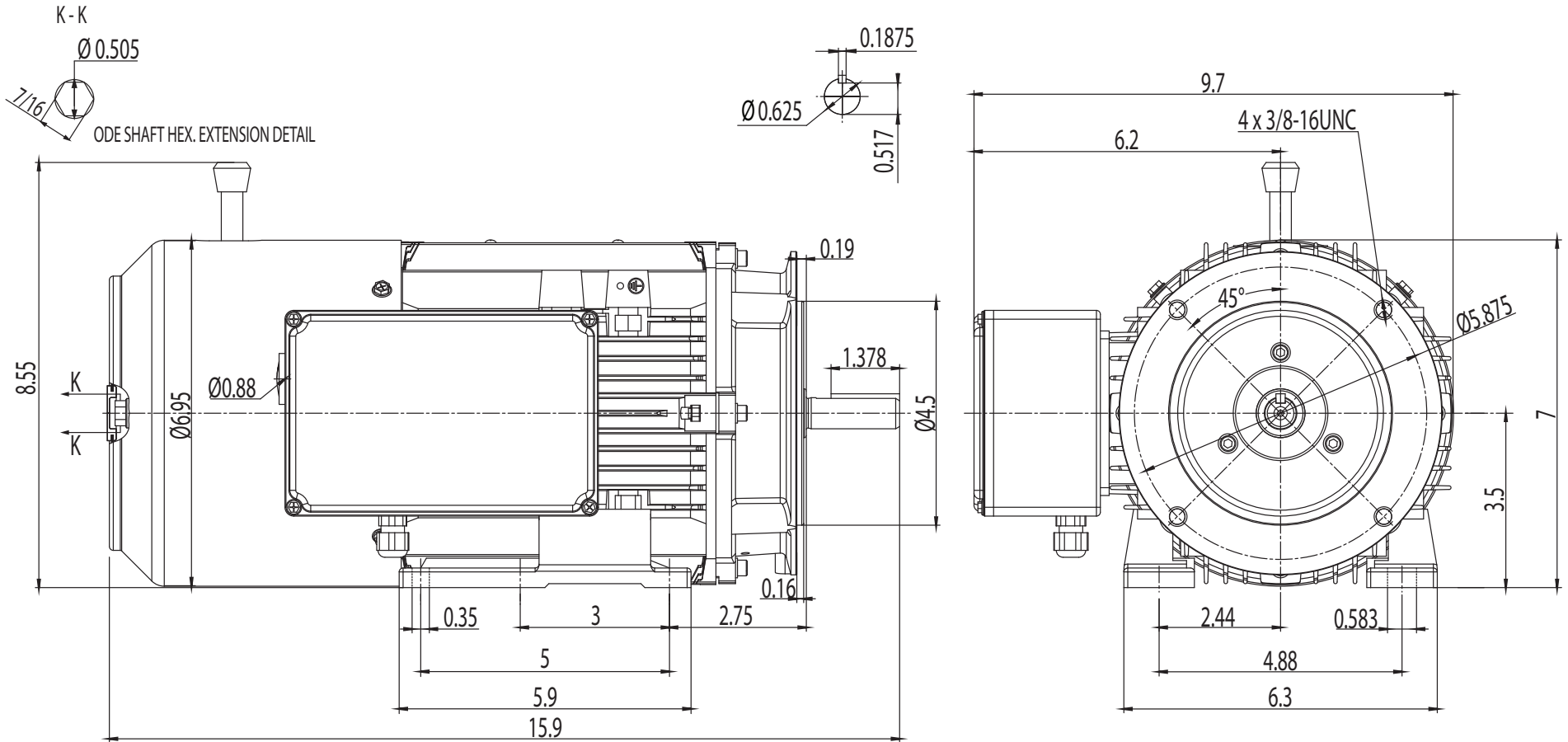


Model **BMS0004C-C**
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NEMA 1Ø 6-Lead Dual Voltage

DRAWING NUMBER:	NEMA-BL1-56-140T-BRK	ISSUED DATE	11/07/25
CONNECTION:	-	SINGLE PHASE BRAKE MOTORS	
NUMBER OF LEADS:	6		
THERMAL PROTECTION:	-		



TEFC 56HC

DRAWING NUMBER:

BL1-AL-TF-56HC-BRK

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Cast Aluminum

ISSUED DATE

11/07/25

SINGLE PHASE BRAKE MOTORS