

NEMA

Model BMS0024C-TC
MFG PN: TLFB145T2Z4L

Model **BMS0024C-TC**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BMS0024C-TC	2	1745	115/208-230	1	60	145TC	Rigid/C-Flange	TEFC

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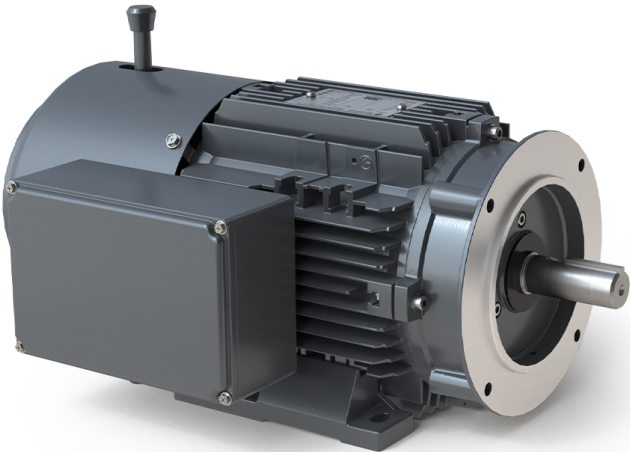
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ELECTRICAL DATA		
Rated Motor Output Power	2	HP
	-	kW
Rated Motor Speed	1745	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	115/208-230	V/60Hz
	-	V/50Hz
Rated Motor Current	17.6/9.71-8.78	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	1	Ø
Locked Rotor Current @ High Voltage	52.66	A (I _n) @ 60Hz
FI Current @ 208V	9.71	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	G	60Hz
	-	50Hz
Nominal Efficiency	83	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	6	-
Connection	-	-
Coil Resistance	1.33	Ω
Start Capacitor	500µF/165V	µF/V
Run Capacitor	80µF/250V	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	-	-
Constant Torque	-	-
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	35	°C @ 60Hz
	-	°C @ 50Hz

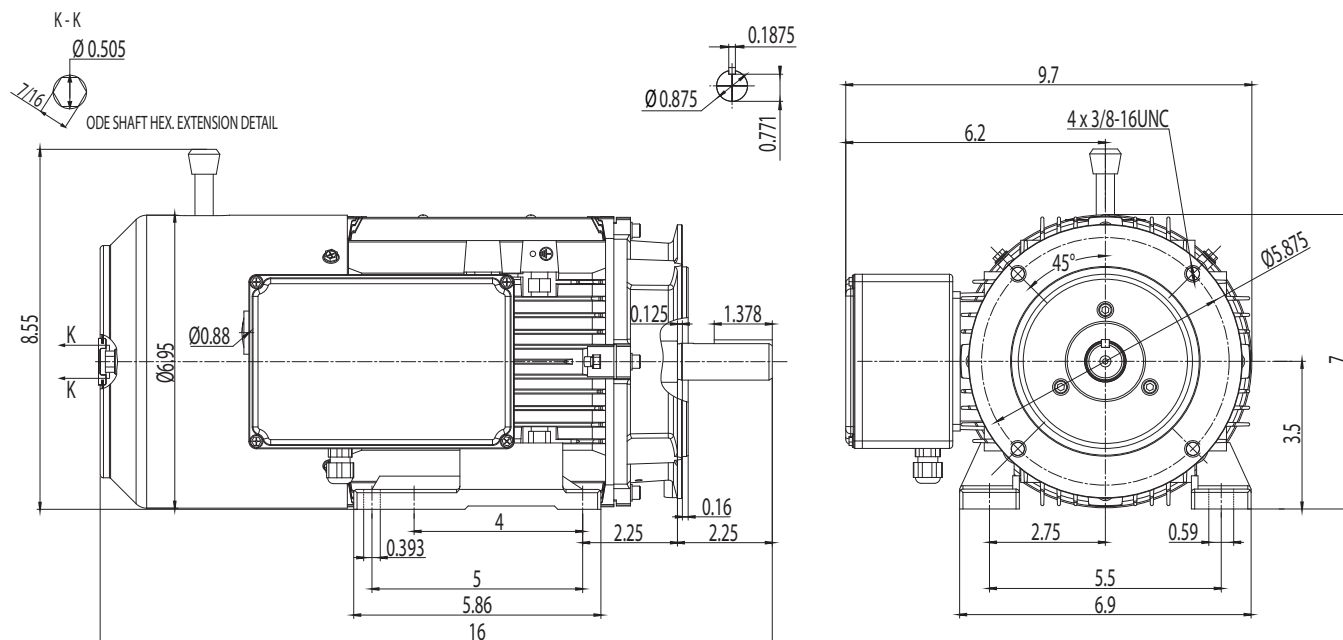
BRAKE DATA	VDC	VAC
Brake Volts / Rectifier Volts	103	115
Brake Model	REB04-10B-103-023	
Rectifier Model	RZL141-170H	

GENERAL DATA		
Frame Size	145TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	58 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	61	
SITE CONDITIONS		
Ambient Temperature (°C)	40	
Meters Above Sea Level (MASL)	1000	
HAZARDOUS LOCATIONS		
CSA Certified	-	
Temperature Code	-	-

BRAKE TORQUE	
Rated Torque (ft.lb)	23
Rated Torque (Nm)	31

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	2	-
RPM	1745	-
Voltage	115/208-230	-
Full Load Amps	17.6/9.71-8.78	-
Service Factor	1.15	-
KVA Code	G	-
Full Load Amps (208V)	9.71	-
Nominal Efficiency	83	-
Nominal Power Factor	0.9	-
Design	L	
Frame	145TC	
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)	58	

 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	
TECHTOPCANADA.COM		C. MADE IN CHINA US 224693	

CAPACITOR DATA	μF	VOLTAGE
Start Capacitor	500	165
Run Capacitor	80	250

*For max speed please contact Techtop Canada

DC BRAKE DATA		
Brake Torque (Nm / ft.lb)	31	23
Brake Volts (VDC / VAC)	103	115

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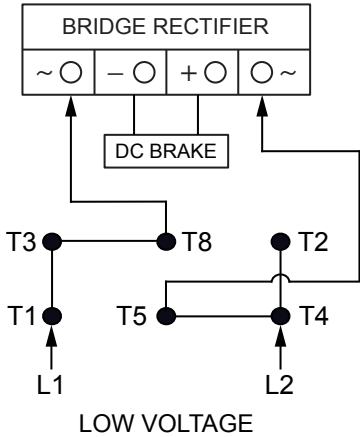
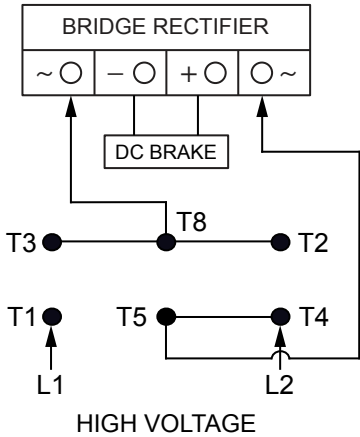
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz			TYPICAL PERFORMANCE - NOT GUARANTEED VALUES	
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	-	267	Start Configuration	DOL
Pull-Up Torque	-	195	Starting Current (A)	52.66
Breakdown Torque	-	214	No-Load Current (A)	2.4
Full Load Torque	15.8	100	No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	-	-	-	8.4	9.7	-
Efficiency (%)	-	-	-	82.2	81	-
Speed (r/min)	-	-	-	1736	1718	-
Power Factor (cosΦ)	-	-	-	0.95	0.95	-
Input Power (kW)	-	-	-	1.82	2.13	-

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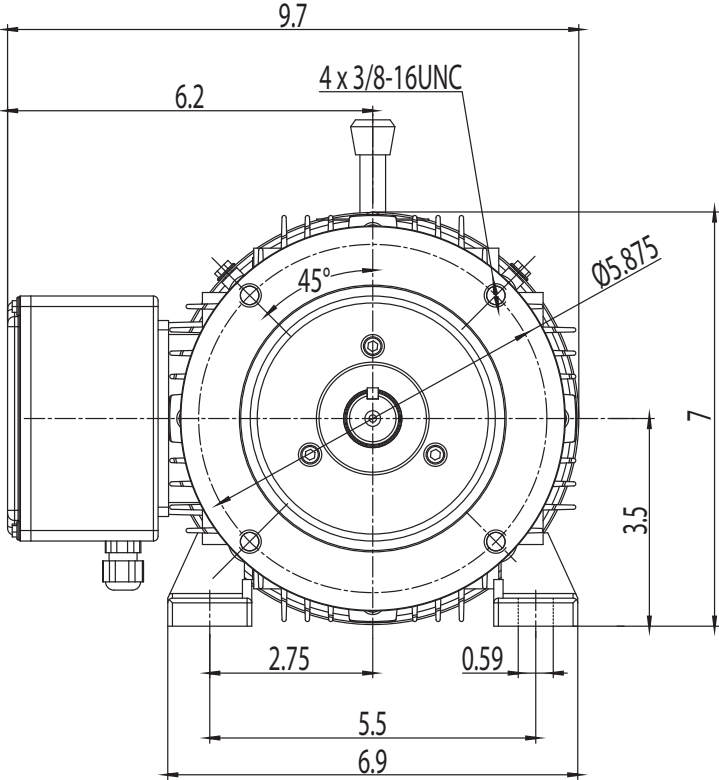
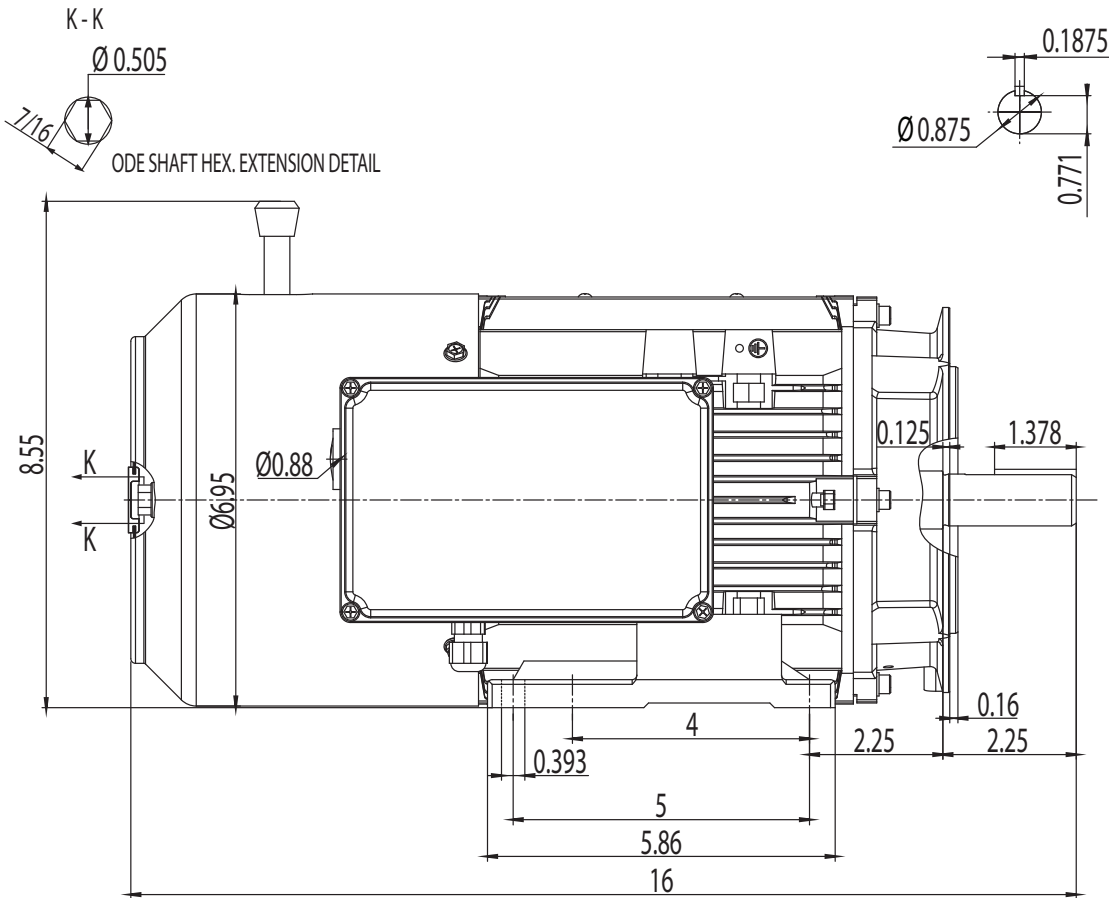


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NEMA 1Ø 6-Lead Dual Voltage

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



TEFC 145TC

DRAWING NUMBER:	BL1-AL-TF-140TC-BRK	ISSUED DATE	11/07/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		SINGLE PHASE BRAKE MOTORS