

NEMA

Model **BLA0004DP-C**
MFG PN: T561U4B

Model **BLA0004DP-C**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BLA0004DP-C	1	1745	230/460	3	60	56C	Rigid/C-Flange	TEFC

Toronto

TOLL FREE 1.888.286.1820
PHONE 905.829.1001
EMAIL info@techtopcanada.com

Montreal

TOLL FREE 1.844.354.5111
PHONE 514.354.1002
EMAIL infoQC@techtopcanada.com

Moncton

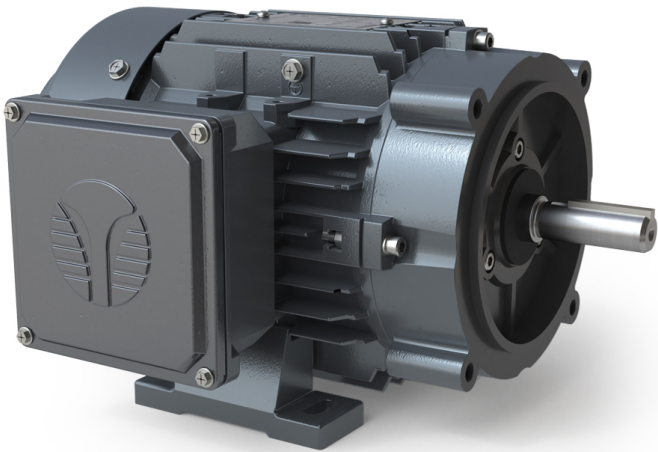
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techtopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techtopcanada.com



Index

Motor General Data Sheet	P 2
Nameplate Information	P 3
Technical Performance Data	P 4
Motor General Wiring Diagram	P 5
Motor General Outline Drawing	P 6

NEMA

Model BLA0004DP-C
MFG PN: T561U4B

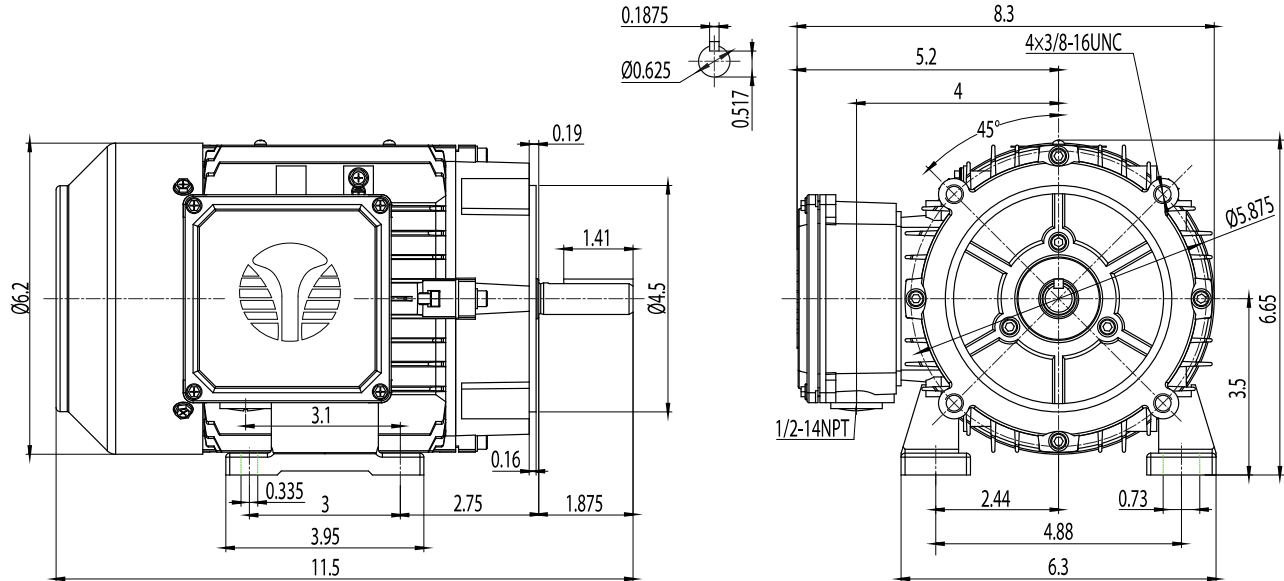
ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	-	kW
Rated Motor Speed	1745	r/min 60Hz
	1430	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	3.18/1.59	A (I _n) @ 60Hz
	3.56/1.78	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	12.15	A (I _n) @ 60Hz
FI Current @ 208V	3.18	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	H	50Hz
Nominal Efficiency	85.5	% @ 60Hz
Nominal Power Factor	0.69	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	26	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56C	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	25.7 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	A, B, C & D	
Temperature Code	T4	-

Questions? Call 1.888.286.1820

NEMA

Model BLA0004DP-C
MFG PN: T561U4B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1745	1430
Voltage	230/460	190/380
Full Load Amps	3.18/1.59	3.56/1.78
Service Factor	1.25	1
KVA Code	L	H
Full Load Amps (208V)	3.18	-
Nominal Efficiency	85.5	83
Nominal Power Factor	0.69	-
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)	25.7	

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

CLASS 1, DIV 2, GROUPS A, B, C AND D

MADE IN CHINA

CC088A
E323353
SP
C224653
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

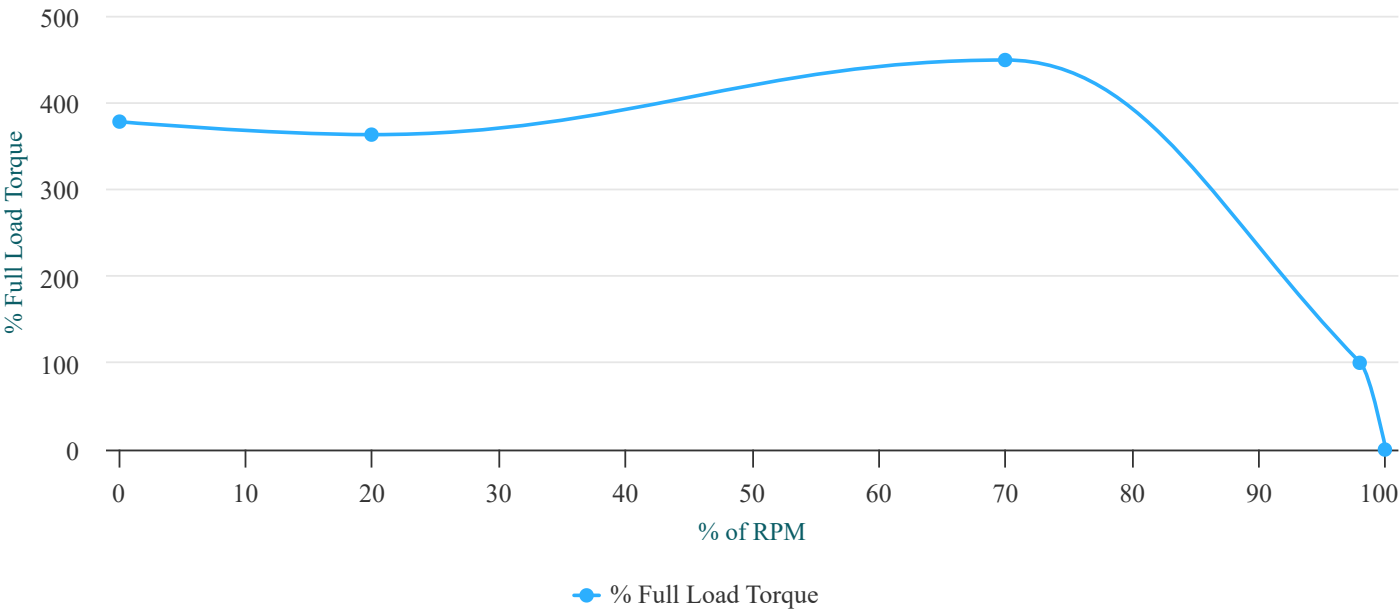
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

Questions? Call 1.888.286.1820

NEMA

Model BLA0004DP-C
MFG PN: T561U4B

Torque Speed (T-n) Curve



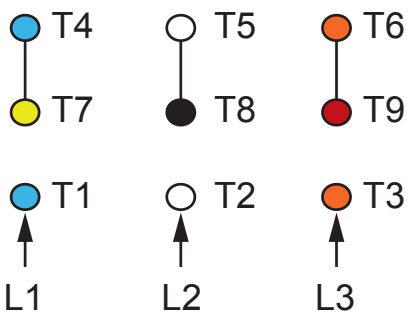
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	11.4	378	Start Configuration	DOL
Pull-Up Torque	10.9	363	Starting Current (A)	12.15
Breakdown Torque	13.5	449	No-Load Current (A)	1.1
Full Load Torque	3	100	No-Load Power Factor	-

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.1	1.2	1.4	1.6	1.8	1.8
Efficiency (%)	71.2	81.5	84.6	85.5	85.3	85.3
Speed (r/min)	1787	1776	1763	1749	1734	1734
Power Factor (cosΦ)	0.29	0.47	0.6	0.7	0.76	0.76
Input Power (kW)	0.26	0.46	0.66	0.88	1.1	1.1

Questions? Call 1.888.286.1820



HIGH VOLTAGE
(Y)



LOW VOLTAGE
(YY)

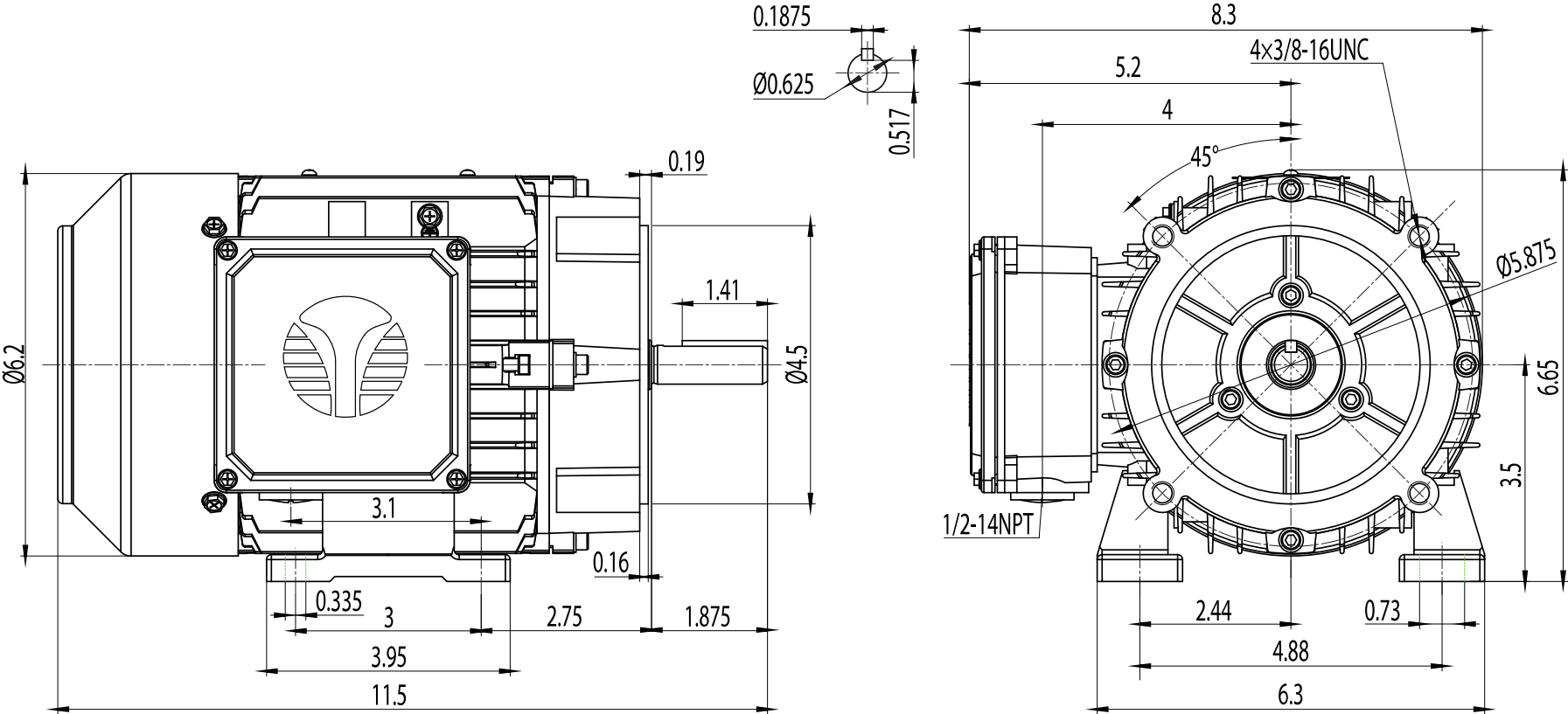
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



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

NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE	06/03/25
PREMIUM 56C ALUMINUM MOTORS	



NEMA Premium TEFC 56C

DRAWING NUMBER:	GR3-AL-TF-56C	ISSUED DATE	06/03/25
DIMENSIONS:	Inches	PREMIUM 56C ALUMINUM MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Cast Aluminum		