

NEMA

Model BLA0052DP-C
MFG PN: T56H5U2B

Model BLA0052DP-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
BLA0052DP-C	5	3500	230/460	3	60	L56HC	Rigid/C-Flange	TEFC

Toronto

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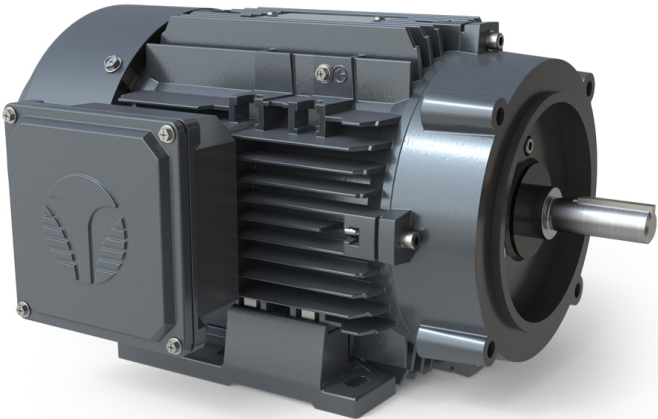
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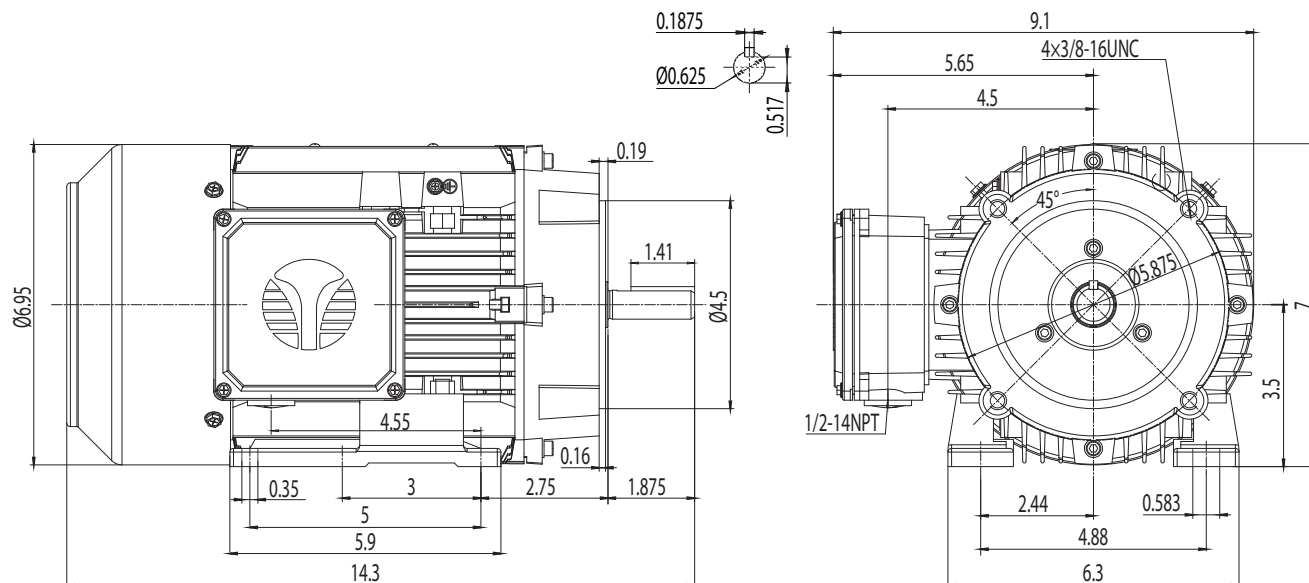
ELECTRICAL DATA		
Rated Motor Output Power	5	HP
	-	kW
Rated Motor Speed	3500	r/min 60Hz
	2860	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	12.1/6.05	A (I _n) @ 60Hz
	14.7/7.35	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	60.77	A (I _n) @ 60Hz
FI Current @ 208V	13	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	L	60Hz
	J	50Hz
Nominal Efficiency	88.5	% @ 60Hz
Nominal Power Factor	0.87	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	48.2	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	L56HC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	42.6 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	S2	
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	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	T2D	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	5	3
RPM	3500	2860
Voltage	230/460	190/380
Full Load Amps	12.1/6.05	14.7/7.35
Service Factor	1.25	1
KVA Code	L	J
Full Load Amps (208V)	13	-
Nominal Efficiency	88.5	85
Nominal Power Factor	0.87	-
Design	B	
Frame	L56HC	
Enclosure Type	TEFC	
IP Rating	55	
Duty	S2	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6205 ZZ	
Opposite Drive End Bearing	6205 ZZ	
Weight (lbs)	42.6	

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

CC0088A
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

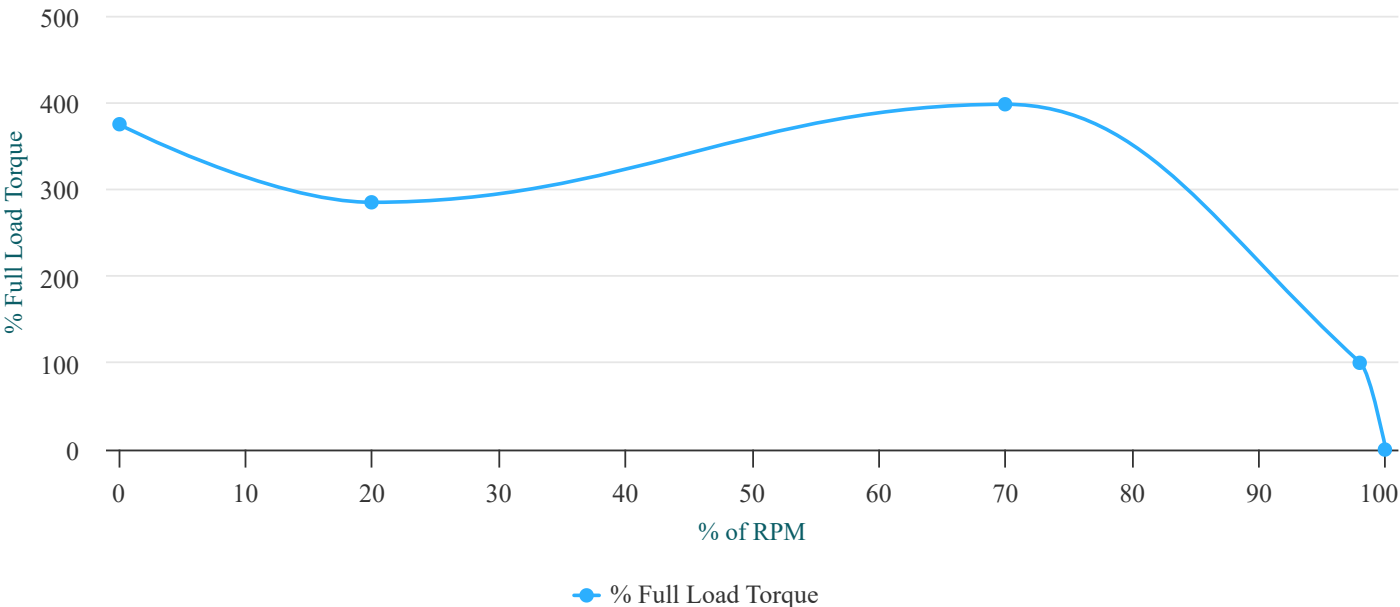
HAZARDOUS LOCATIONS	CSA CERTIFIED
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	28.1	375	Start Configuration	DOL
Pull-Up Torque	21.4	285	Starting Current (A)	60.77
Breakdown Torque	29.9	398	No-Load Current (A)	-
Full Load Torque	7.5	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)	2.9	3.8	4.8	6.1	7.5	7.5
Efficiency (%)	83.4	88.6	89.4	88.8	87.6	87.6
Speed (r/min)	3577	3556	3533	3508	3480	3480
Power Factor (cosΦ)	0.48	0.71	0.82	0.87	0.9	0.9
Input Power (kW)	1124.7	2115.6	3145.4	4222.1	5353.1	5353.1

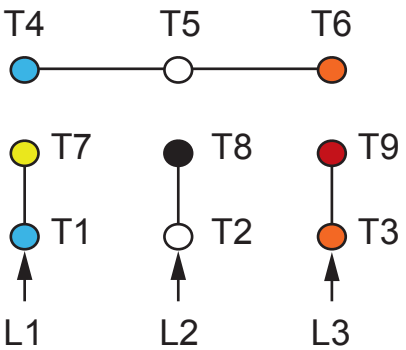
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HIGH VOLTAGE
(Y)



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



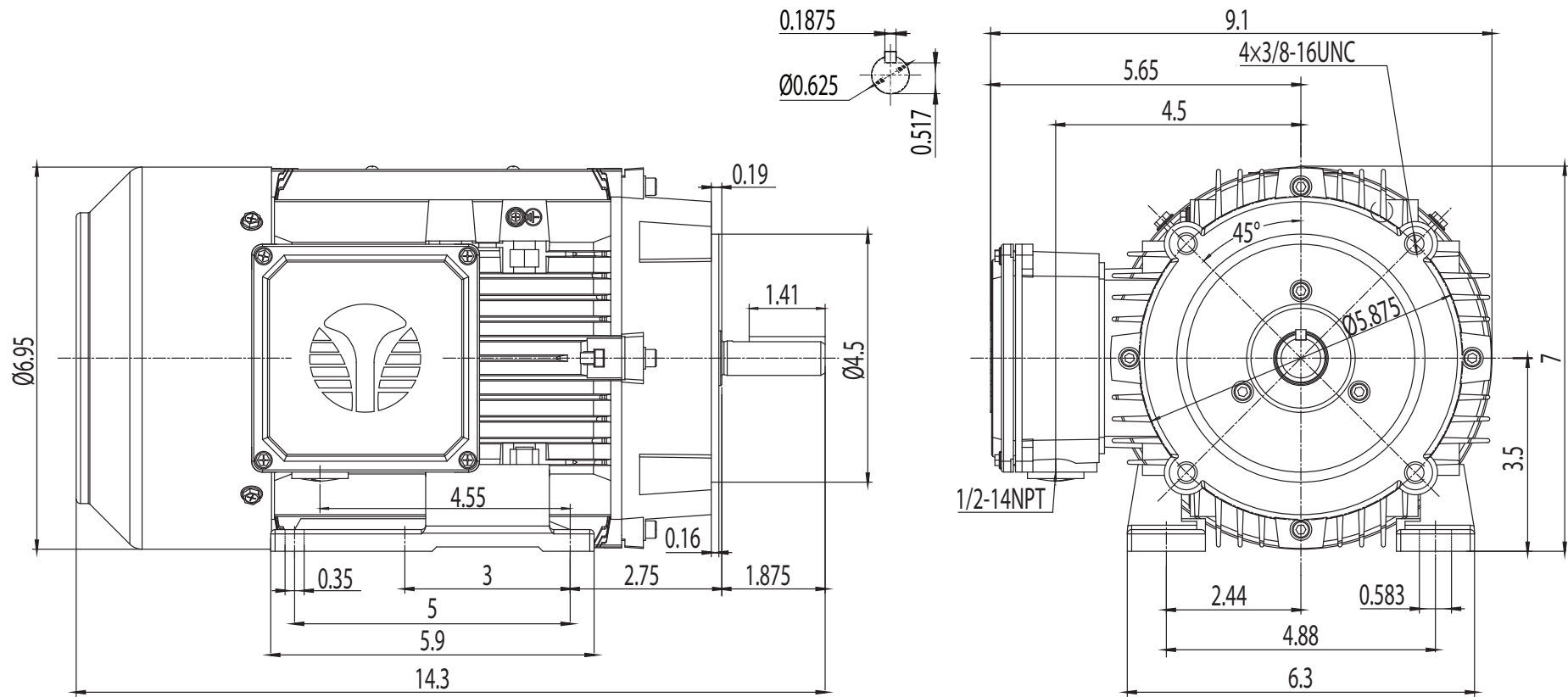
DRAWING NUMBER:	NEMA-3-9-YY-Y
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	-

NEMA 3Ø YY/Y 9-Lead Dual Voltage

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



Model **BLA0052DP-C**
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NEMA Premium TEFC L56HC

DRAWING NUMBER:	GR3-AL-TF-L56HC	ISSUED DATE	06/03/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange	PREMIUM 56C ALUMINUM MOTORS	
CASING MATERIAL:	Cast Aluminum		