

NEMA

Model GPS.502C-C-01
MFG PN: SLF561/2Z2L

Model **GPS.502C-C-01**

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
GPS.502C-C-01	0.5	3450	115/208-230	1	60	56	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

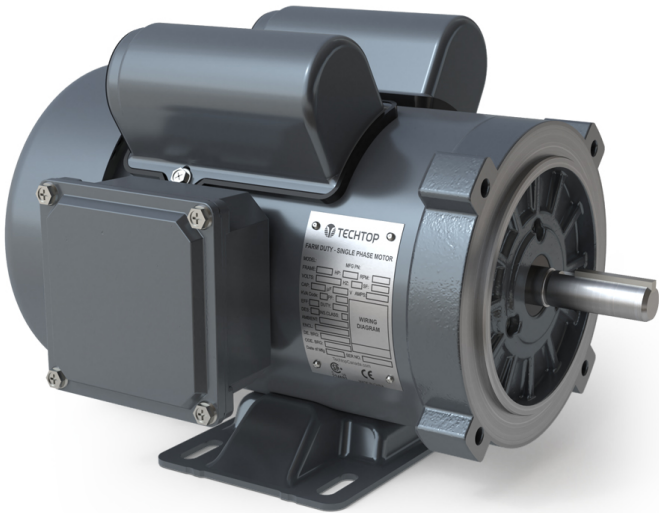
PHONE 506.386.5794
EMAIL infoNB@techtopcanada.com

Winnipeg

PHONE 204.633.2779
EMAIL infoMB@techtopcanada.com

Vancouver

PHONE 604.525.1551
EMAIL infoBC@techtopcanada.com



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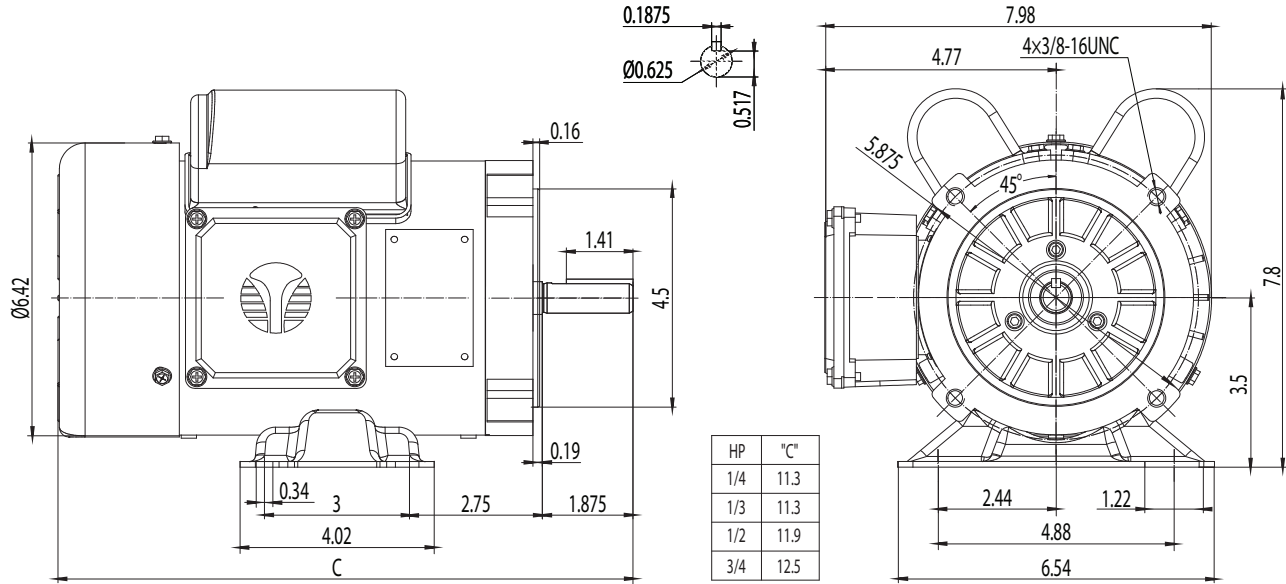
ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	-	kW
Rated Motor Speed	3450	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	115/208-230	V/60Hz
	-	V/50Hz
Rated Motor Current	5.0/2.7-2.5	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	1	Ø
Locked Rotor Current @ High Voltage	18.61	A (I _n) @ 60Hz
FI Current @ 208V	2.7	A (I _n) @ 60Hz
Service Factor	1.15	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	71	% @ 60Hz
Nominal Power Factor	0.9	cosΦ @ 60Hz
Leads (Qty, Size)	6	14
Connection	-	-
Coil Resistance	-	Ω
Start Capacitor	250/125	µF/V
Run Capacitor	40/250	µF/V
VFD DUTY (S.F. 1.0)	RATIO	Hz
Variable Torque	-	-
Constant Torque	-	-
FULL LOAD TEMPERATURE RISE		
Full Load Temperature Rise	36	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	24 lbs.	
Casing Material / Fan Cover	Rolled Steel	Steel
Shaft Material	1045	
NEMA Design	L	
Degree of Protection (IP)	54	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	NO	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	NO	NO
Paintwork	7024	
	Graphite Gray	
MECHANICAL DATA		
Bearing DE Side	6203 2RS	
Bearing ODE Side	6202 2RS	
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	-	
Temperature Code	-	-

Questions? Call 1.888.286.1820

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.5	-
RPM	3450	-
Voltage	115/208-230	-
Full Load Amps	5.0/2.7-2.5	-
Service Factor	1.15	-
KVA Code	K	-
Full Load Amps (208V)	2.7	-
Nominal Efficiency	71	-
Nominal Power Factor	0.9	-
Design	L	
Frame	56	
Enclosure Type	TEFC	
IP Rating	54	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6203 2RS	
Opposite Drive End Bearing	6202 2RS	
Weight (lbs)	24	

NAMEPLATE LAYOUT

TECHTOP

GEN. PURPOSE SINGLE PHASE MOTOR

MODEL: _____ MFG PN: _____

FRAME: _____ HP: _____ RPM: _____

VOLTS: _____ HZ: _____ SF: _____

CAP: _____ μ F _____ V AMPs: _____

KVA Code: _____ PF: _____

EFF: _____ DUTY: _____

DES: _____ INS. CLASS: _____

AMBIENT: _____

ENCL: _____

DE. BRG: _____

ODE. BRG: _____

Date of Mfg: _____ SER NO: _____

WIRING DIAGRAM

TechtopCanada.com

224693

MADE IN CHINA

CAPACITOR DATA

Start Capacitor
Run Capacitor

μ F

VOLTAGE

250
40

125
250

*For max speed please contact Techtop Canada

HAZARDOUS LOCATIONS

Class / Division
Groups

-

-

-

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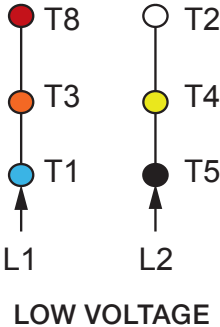
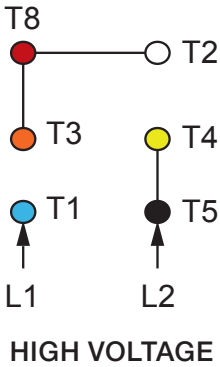
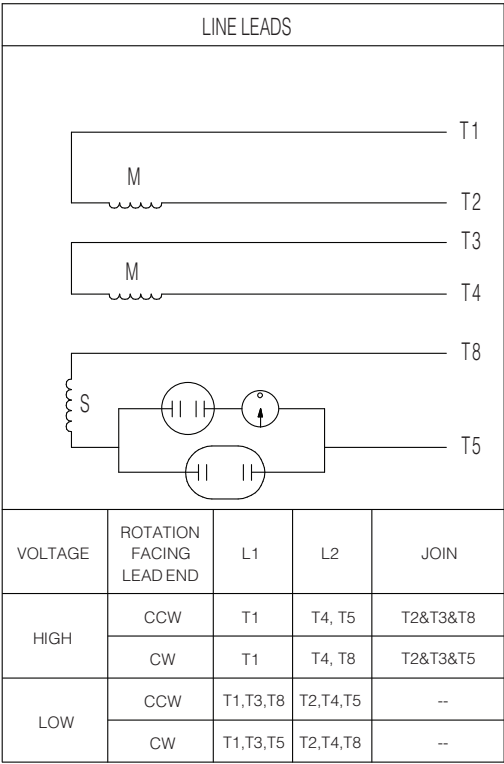
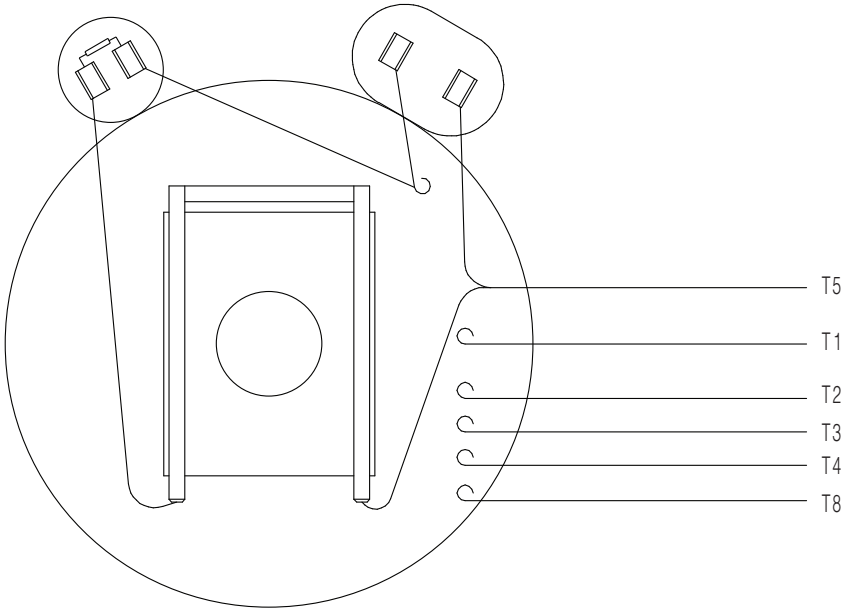


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PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz			TYPICAL PERFORMANCE - NOT GUARANTEED VALUES	
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	0.8	339	Start Configuration	DOL
Pull-Up Torque	2	268	Starting Current (A)	18.61
Breakdown Torque	2.3	299	No-Load Current (A)	0.8
Full Load Torque	2.6	100	No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.15
Line Amperes (A)	-	-	-	2.2	-	2.5
Efficiency (%)	-	-	-	75.9	-	77.6
Speed (r/min)	-	-	-	3528	-	3516
Power Factor (cosΦ)	-	-	-	0.98	-	0.98
Input Power (kW)	-	-	-	-	-	-

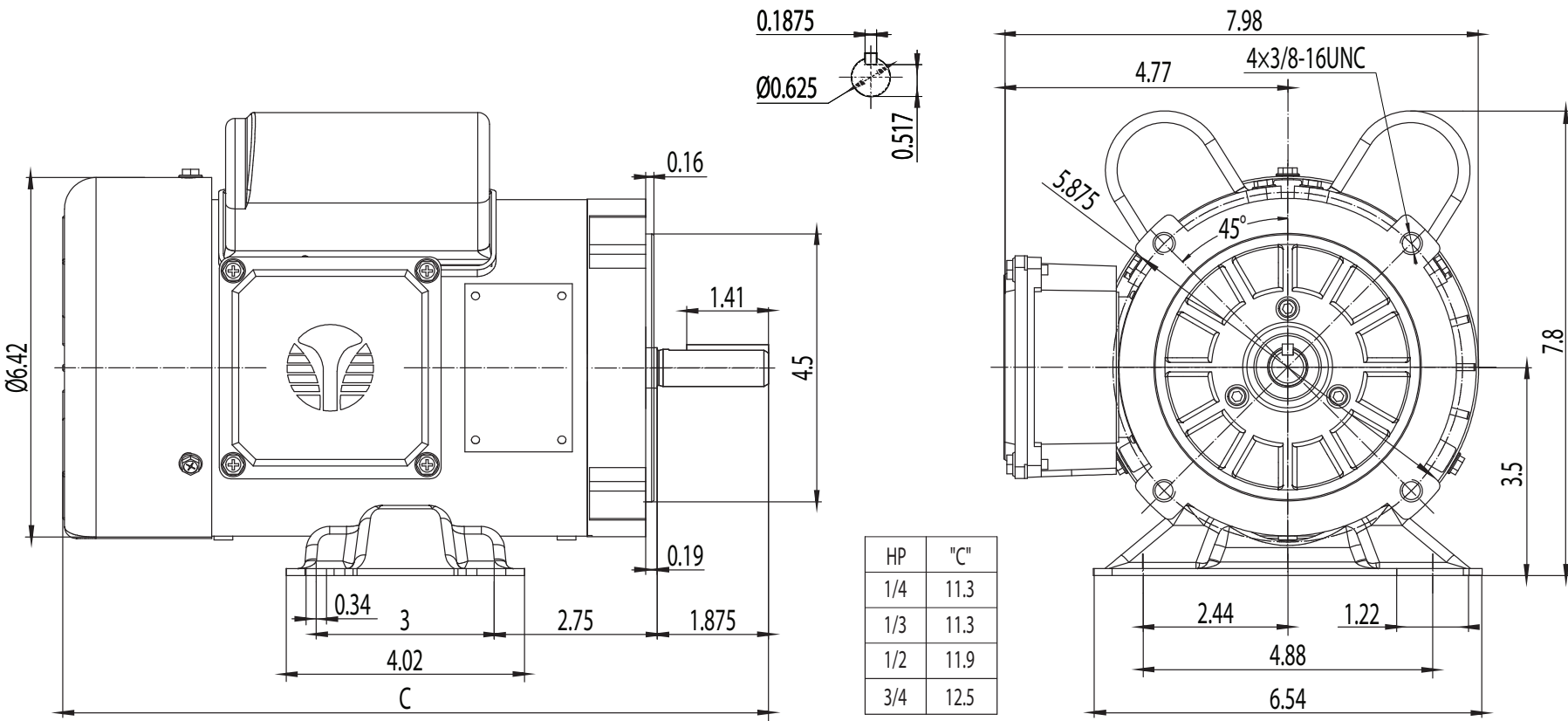
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NEMA 10 General Purpose Dual Voltage

DRAWING NUMBER:	NEMA-GP-56-140T
CONNECTION:	-
NUMBER OF LEADS:	6
THERMAL PROTECTION:	Optional

ISSUED DATE	28/07/25
GENERAL PURPOSE SINGLE PHASE MOTORS	



TEFC 56

DRAWING NUMBER:	BL1-RS-TF-56C-01	ISSUED DATE	28/07/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Rolled Steel		GENERAL PURPOSE SINGLE PHASE MOTORS