

NEMA

Model SSBN.504D-C-RND
MFG PN: TSSN56C1/2U4B

Model SSBN.504D-C-RND

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSBN.504D-C-RND	0.5	1760	230/460	3	60	56C	Round Body/C-Flange	TENV

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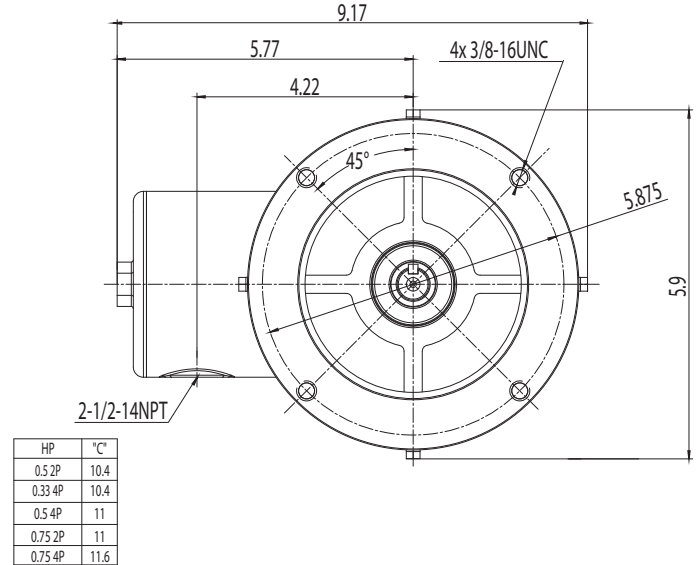
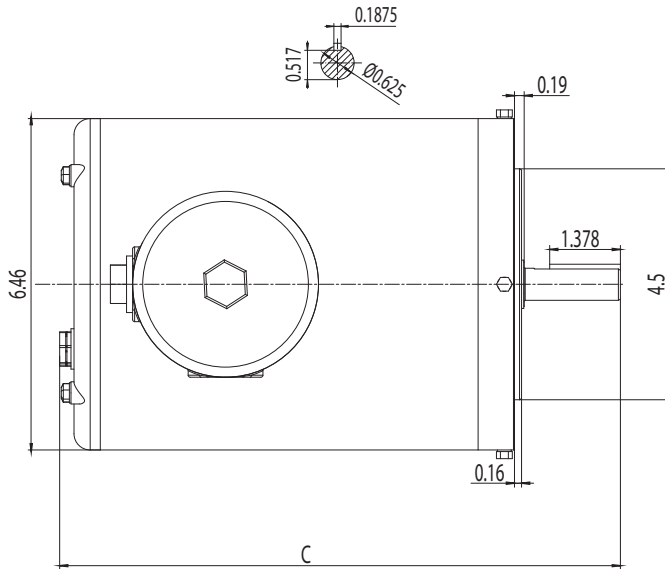
ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	0.37	kW
Rated Motor Speed	1760	r/min 60Hz
	1450	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	1.64/0.82	A (I _n) @ 60Hz
	1.83/0.92	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	7.43	A (I _n) @ 60Hz
FI Current @ 208V	1.81	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	N	60Hz
	K	50Hz
Nominal Efficiency	84	% @ 60Hz
Nominal Power Factor	0.68	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	37.5	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56C	
Enclosure	TENV	
Mounting	Round Body/C-Flange	
Approximate Weight (lbs.)	37.7 lbs.	
Casing Material / Fan Cover	Stainless Steel	Stainless Steel
Shaft Material	304 SS	
NEMA Design	B	
Degree of Protection (IP)	69K	
Insulation Class / Temp Rise (60Hz)	F	B
Tropicalization	YES	
Duty	Cont. / S1	
Conduit Box Location	F1	
Feet Removable / Double Drilled	NO	NO
Paintwork	unpainted	
	unpainted	
MECHANICAL DATA		
Bearing DE Side	6205 ZZ	
Bearing ODE Side	6204 ZZ	
Grease Type	Food grade Mobilgrease™ FM 222	
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	-	-

Questions? Call 1.888.286.1820

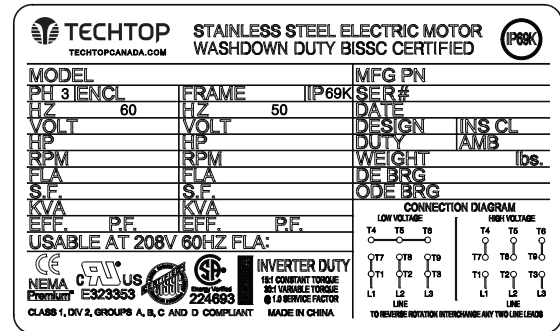
NEMA

Model SSBN.504D-C-RND
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NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.5	0.5
RPM	1760	1450
Voltage	230/460	190/380
Full Load Amps	1.64/0.82	1.83/0.92
Service Factor	1.25	1
KVA Code	N	K
Full Load Amps (208V)	1.81	-
Nominal Efficiency	84	83.5
Nominal Power Factor	0.68	0.74
Design	B	
Frame	56C	
Enclosure Type	TENV	
IP Rating	69K	
Duty	Cont. / S1	
Insulation Class	F	
Ambient Rating	40	
Drive End Bearing	6205 ZZ	
Opposite Drive End Bearing	6204 ZZ	
Weight (lbs)	37.7	

NAMEPLATE LAYOUT



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

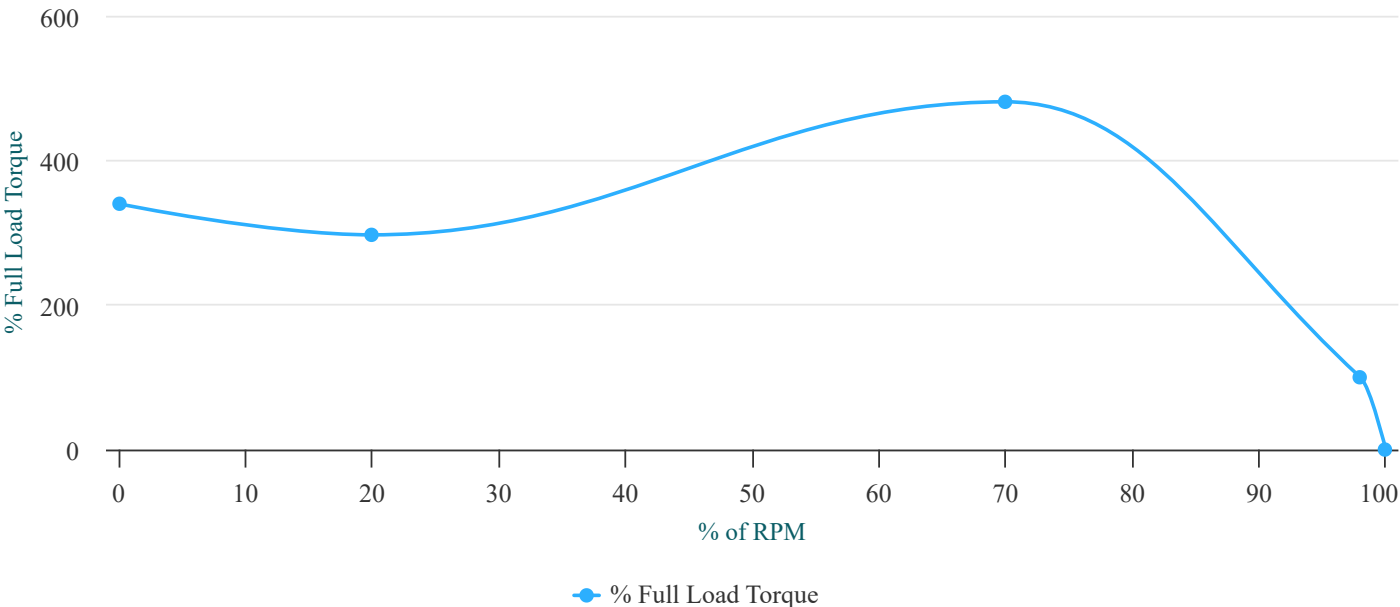
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

Questions? Call 1.888.286.1820

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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	5.1	340	Start Configuration	DOL
Pull-Up Torque	4.4	297	Starting Current (A)	7.43
Breakdown Torque	7.2	481	No-Load Current (A)	0.6
Full Load Torque	1.5	100	No-Load Power Factor	0.1

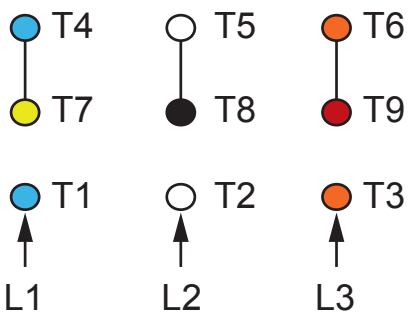
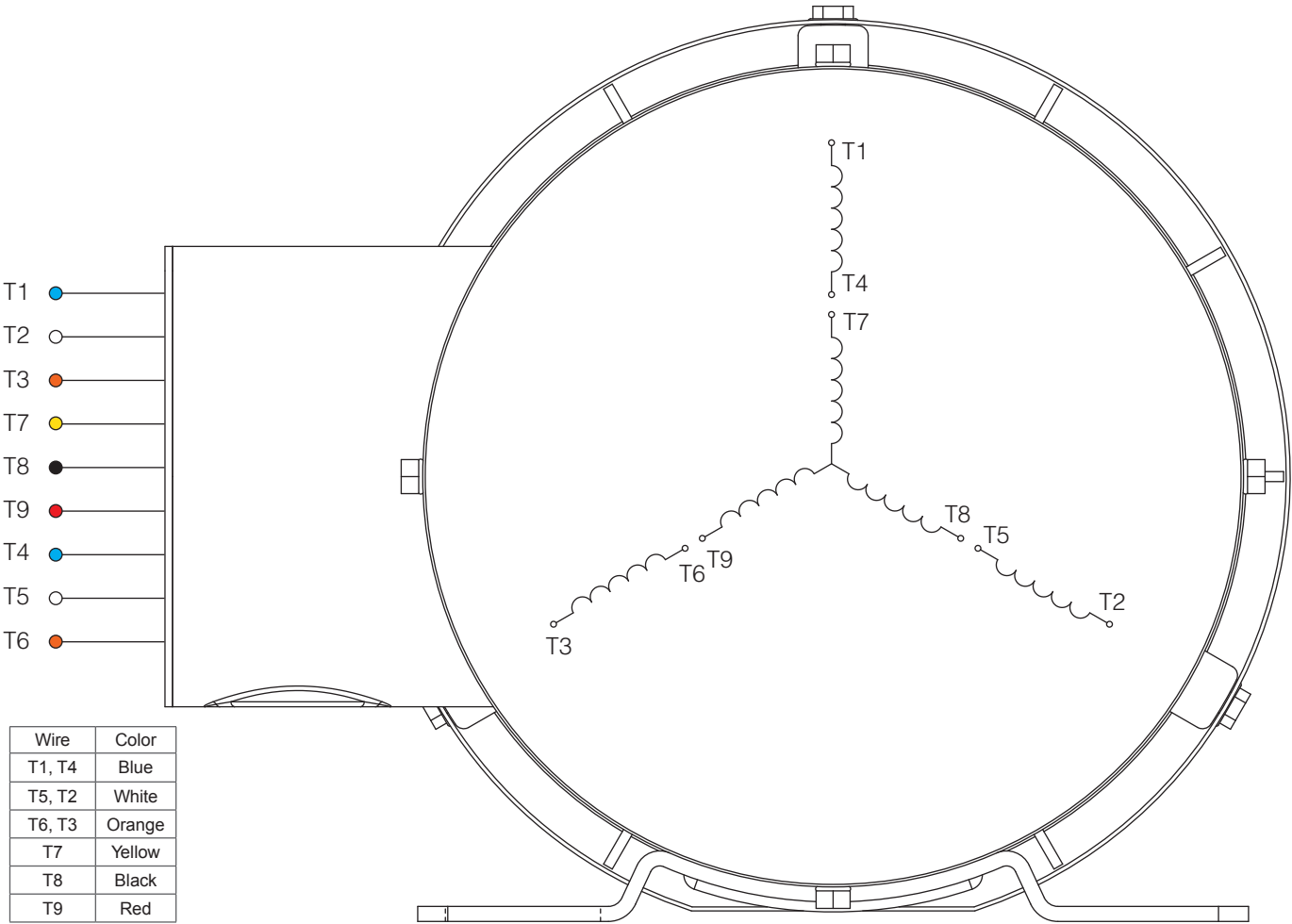
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.6	0.6	0.7	0.8	0.9	0.9
Efficiency (%)	65.6	77.7	82.3	84.2	85.0	85.0
Speed (r/min)	1792.0	1785.0	1778.0	1770.0	1762.0	1762.0
Power Factor (cosΦ)	0.31	0.47	0.59	0.69	0.75	0.75
Input Power (kW)	0.1	0.2	0.3	0.5	0.6	0.6

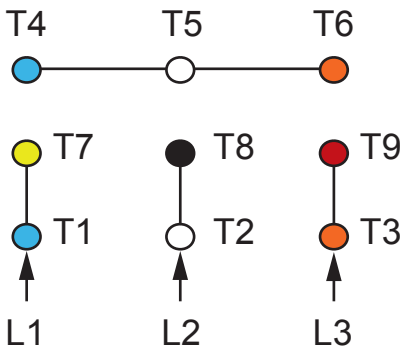
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HIGH VOLTAGE
(Y)



LOW VOLTAGE
(YY)

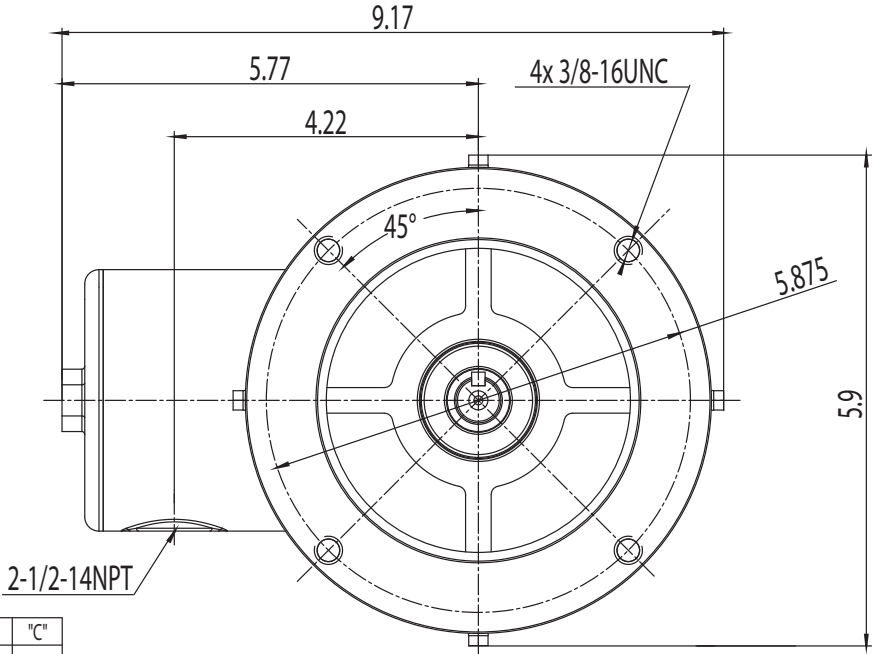
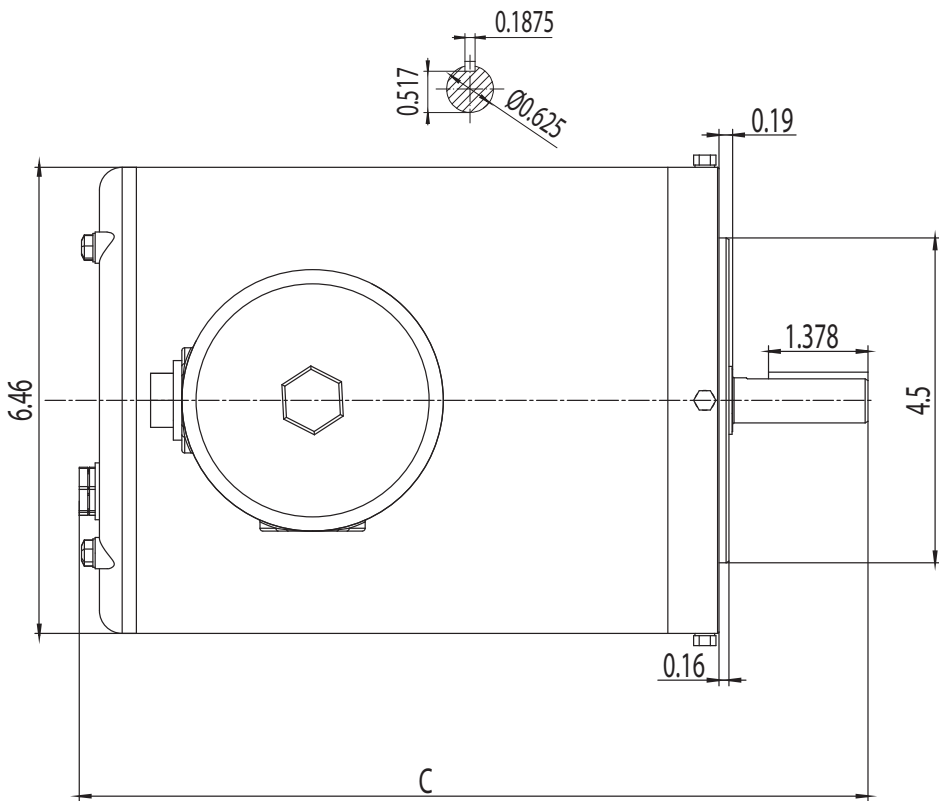
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



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

NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE	20/11/25
STAINLESS STEEL IP69K MOTORS	



HP	"C"
0.5 2P	10.4
0.33 4P	10.4
0.5 4P	11
0.75 2P	11
0.75 4P	11.6



NEMA Premium TENV 56C

DRAWING NUMBER:	SS3-MV-56C-RND
DIMENSIONS:	Inches
MOUNTING:	Round Body/C-Flange
CASING MATERIAL:	Stainless Steel

ISSUED DATE	20/11/25
STAINLESS STEEL IP69K MOTORS	