

NEMA

Model SSB0014D-C-RND
MFG PN: TSSF56HC1.5U4B

Model SSB0014D-C-RND

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSB0014D-C-RND	1.5	1750	230/460	3	60	56HC	Round Body/C-Flange	TEFC

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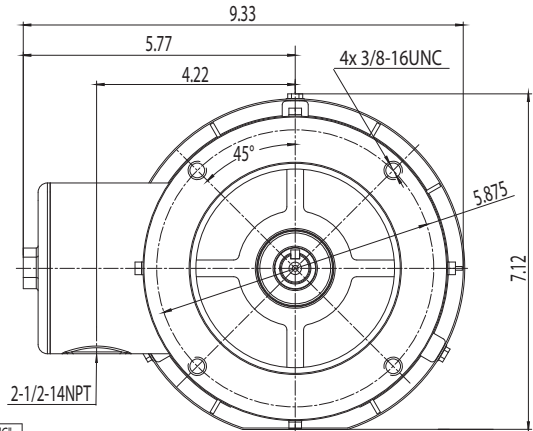
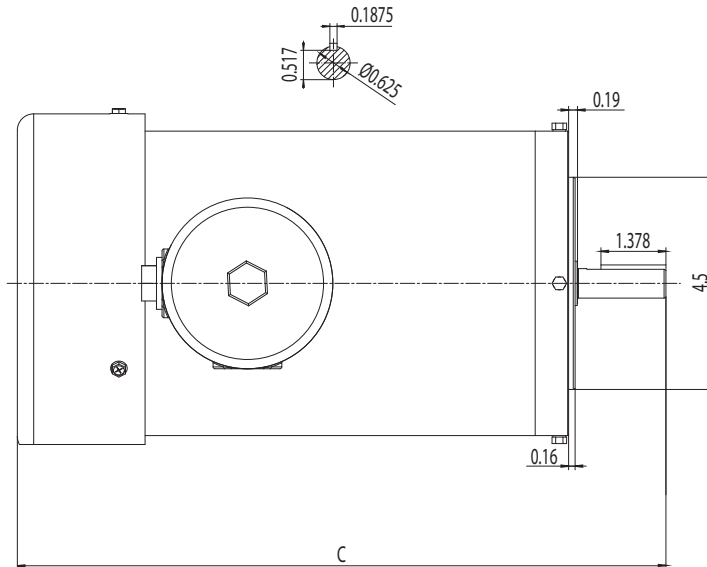
ELECTRICAL DATA		
Rated Motor Output Power	1.5	HP
	1.1	kW
Rated Motor Speed	1750	r/min 60Hz
	1430	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	4.45/2.22	A (I _n) @ 60Hz
	5.22/2.61	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	16.6	A (I _n) @ 60Hz
FI Current @ 208V	4.92	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	H	50Hz
Nominal Efficiency	86.5	% @ 60Hz
Nominal Power Factor	0.73	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	49.1	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56HC	
Enclosure	TEFC	
Mounting	Round Body/C-Flange	
Approximate Weight (lbs.)	47.2 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	YES
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

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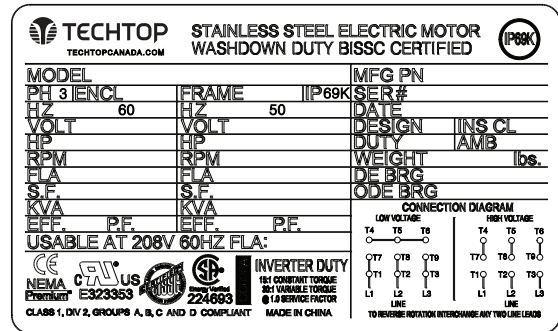
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HP	"C"
1-1.5 2P, 1 4P	13.2
2 2P, 1.5 4P	13.8
3 2P, 2 4P	14.6
3 4P	16.2
5 2P	16.6

NAMEPLATE DATA	60Hz	50Hz
Horse Power	1.5	1.5
RPM	1750	1430
Voltage	230/460	190/380
Full Load Amps	4.45/2.22	5.22/2.61
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	4.92	-
Nominal Efficiency	86.5	83.5
Nominal Power Factor	0.73	0.78
Design	B	
Frame	56HC	
Enclosure Type	TEFC	
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)	47.2	

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

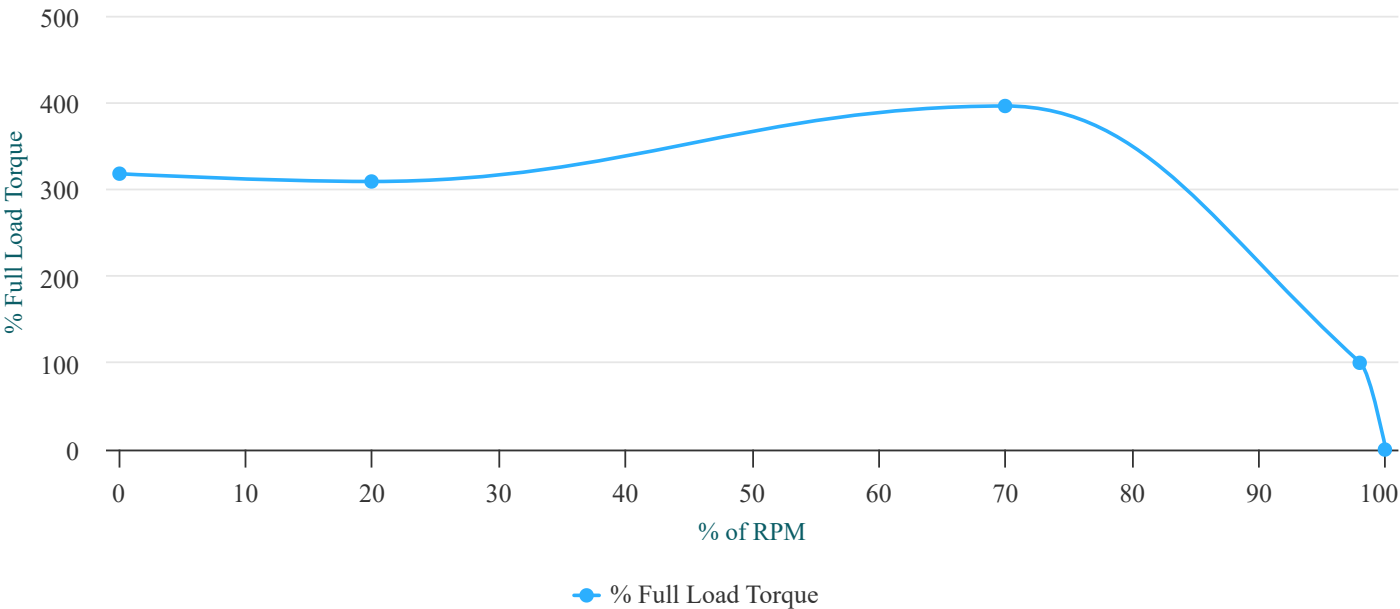
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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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	14.3	318	Start Configuration	DOL
Pull-Up Torque	13.9	309	Starting Current (A)	16.6
Breakdown Torque	17.8	396	No-Load Current (A)	1.4
Full Load Torque	4.5	100	No-Load Power Factor	0.08

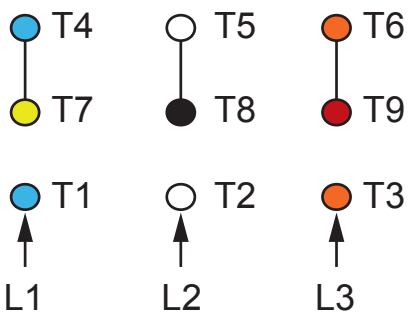
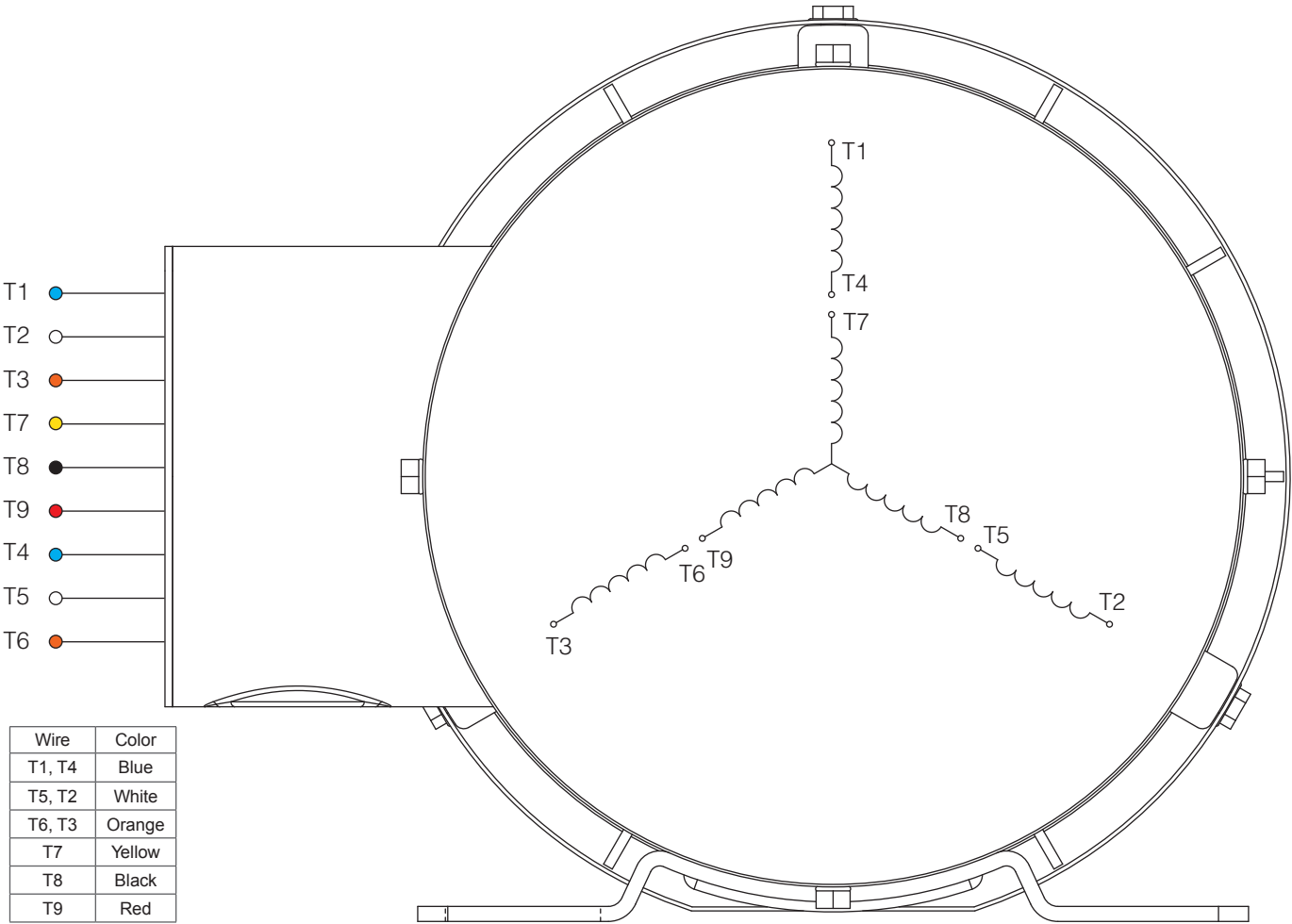
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.5	1.6	1.9	2.2	2.5	2.5
Efficiency (%)	74.4	83.5	86	86.4	85.8	85.8
Speed (r/min)	1787	1774	1761	1746	1730	1730
Power Factor (cosΦ)	0.32	0.51	0.65	0.74	0.8	0.8
Input Power (kW)	0.37	0.66	0.96	1.27	1.6	1.6

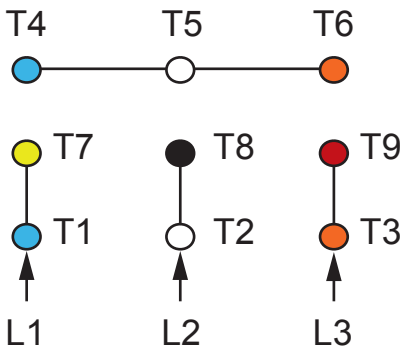
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HIGH VOLTAGE
(Y)



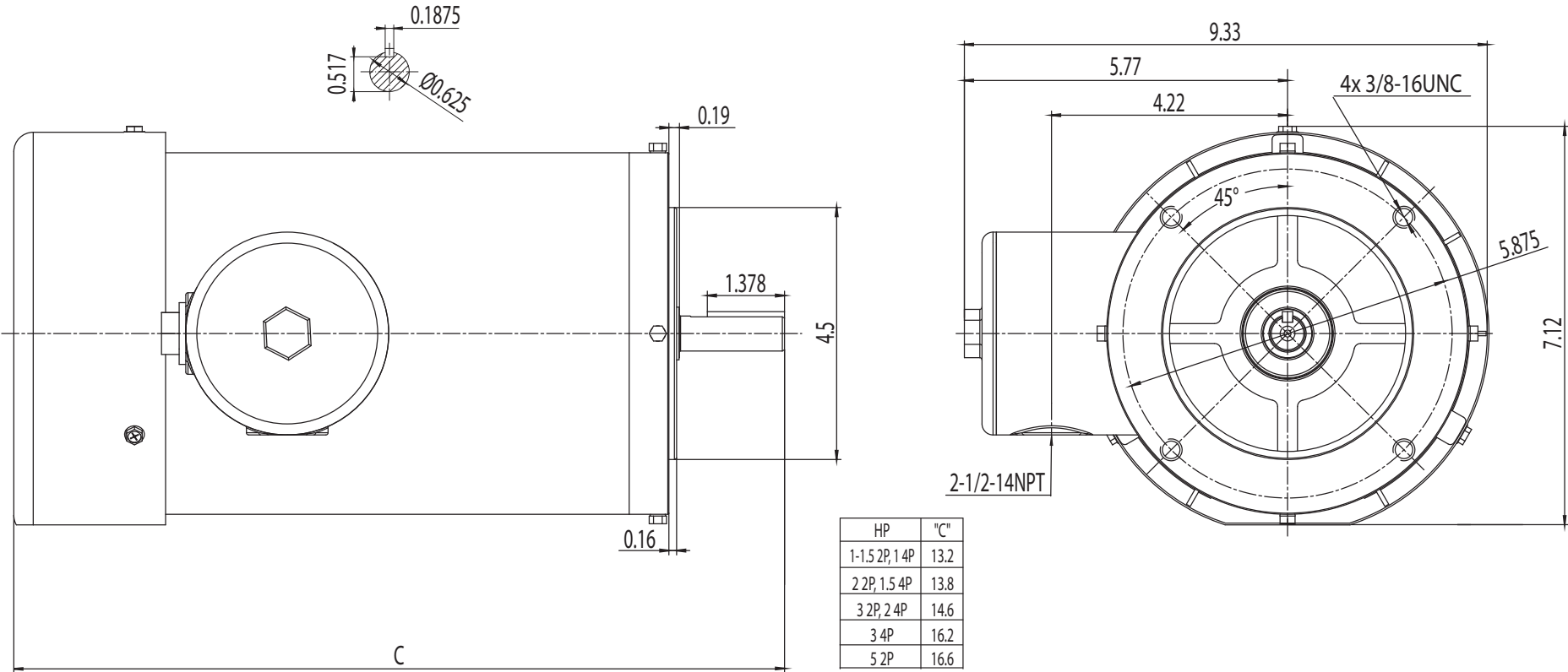
LOW VOLTAGE
(YY)

- 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



NEMA 3Ø YY/Y 9-Lead Dual Voltage

DRAWING NUMBER:	NEMA-3-9-YY-Y-SS	ISSUED DATE	24/02/25
CONNECTION:	YY/Y	STAINLESS STEEL IP69K MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		



NEMA Premium TEFC 56HC

DRAWING NUMBER:	SS3-TF-56HC-RND	ISSUED DATE	24/02/25
DIMENSIONS:	Inches	STAINLESS STEEL IP69K MOTORS	
MOUNTING:	Round Body/C-Flange		
CASING MATERIAL:	Stainless Steel		