

NEMA

Model SSBN0004D-C-RND
MFG PN: TSSN56HC1U4B

Model SSBN0004D-C-RND

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSBN0004D-C-RND	1	1760	230/460	3	60	56HC	Round Body/C-Flange	TENV

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ELECTRICAL DATA		
Rated Motor Output Power	1	HP
	0.75	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	3.18/1.59	A (I _n) @ 60Hz
	3.60/1.80	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	3.52	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	N	60Hz
	K	50Hz
Nominal Efficiency	86.5	% @ 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	65.9	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56HC	
Enclosure	TENV	
Mounting	Round Body/C-Flange	
Approximate Weight (lbs.)	46.7 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	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	-	-

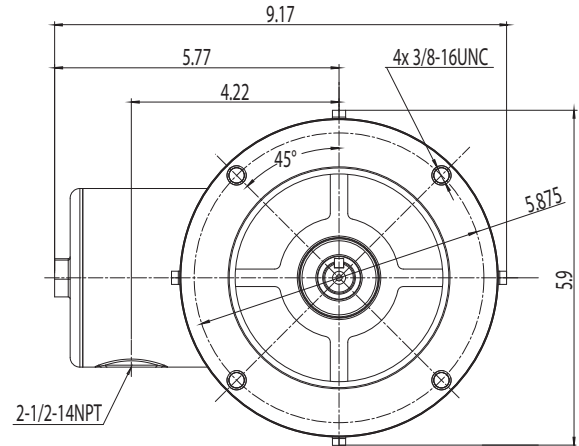
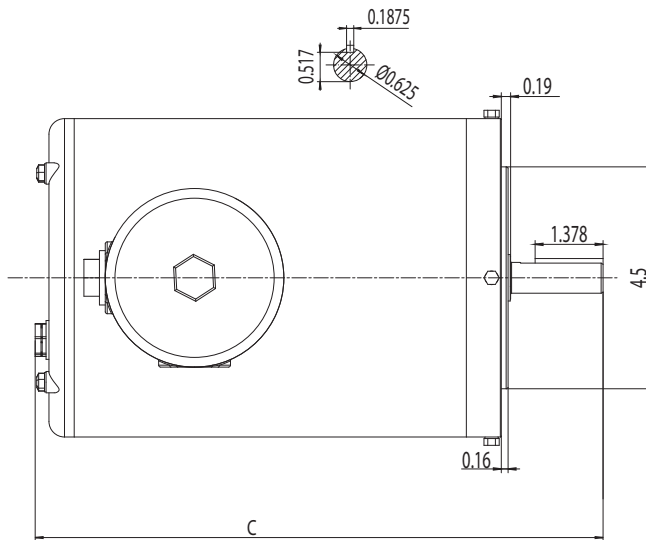
Questions? Call 1.888.286.1820

DATA SHEET: THREE-PHASE SQUIRREL CAGE MOTOR
STAINLESS STEEL IP69K MOTORS



NEMA

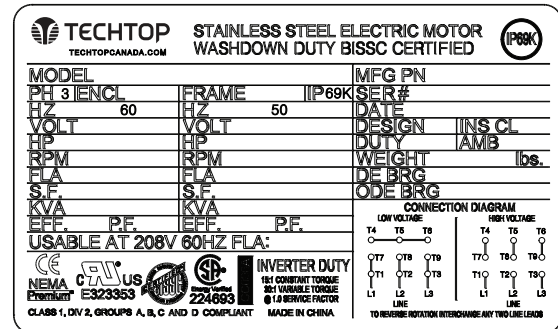
Model SSBN0004D-C-RND
MFG PN: TSSN56HC1U4B



HP & Pole	"C"
1/2P	11.6
1/4P	12.2

NAMEPLATE DATA	60Hz	50Hz
Horse Power	1	1
RPM	1760	1450
Voltage	230/460	190/380
Full Load Amps	3.18/1.59	3.60/1.80
Service Factor	1.25	1
KVA Code	N	K
Full Load Amps (208V)	3.52	-
Nominal Efficiency	86.5	85
Nominal Power Factor	0.68	0.74
Design	B	
Frame	56HC	
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)	46.7	

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

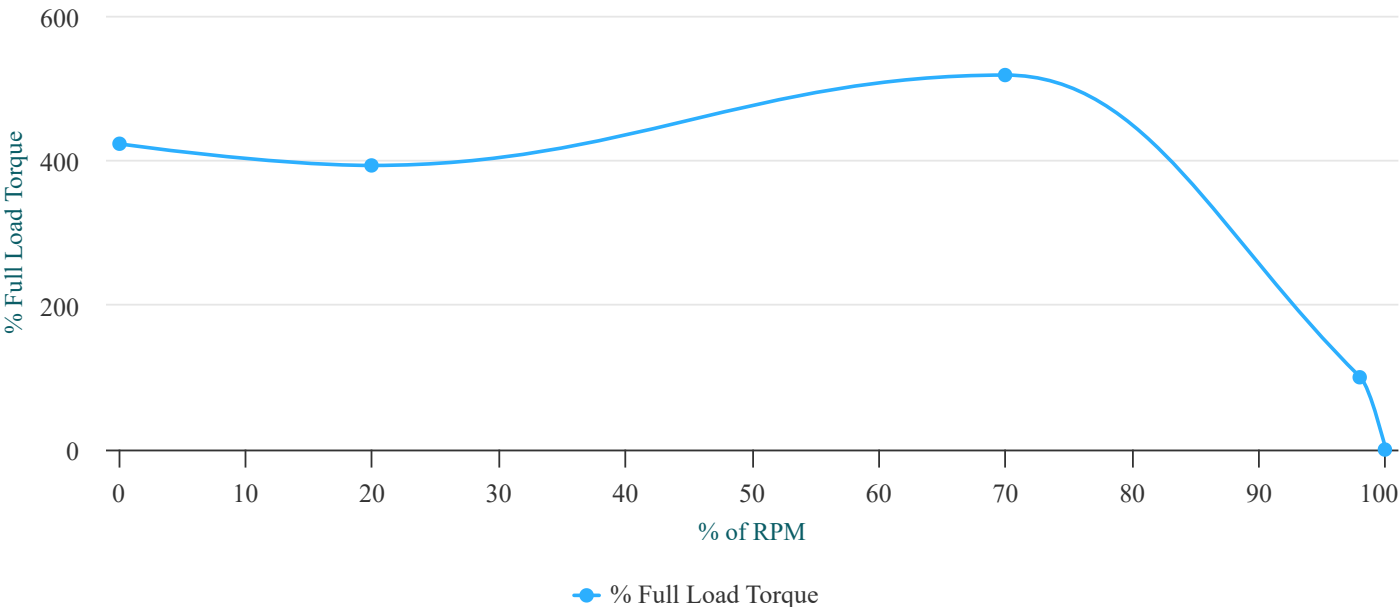
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

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Model SSBN0004D-C-RND
MFG PN: TSSN56HC1U4B

Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	12.6	423
Pull-Up Torque	11.7	393
Breakdown Torque	15.5	518
Full Load Torque	3	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

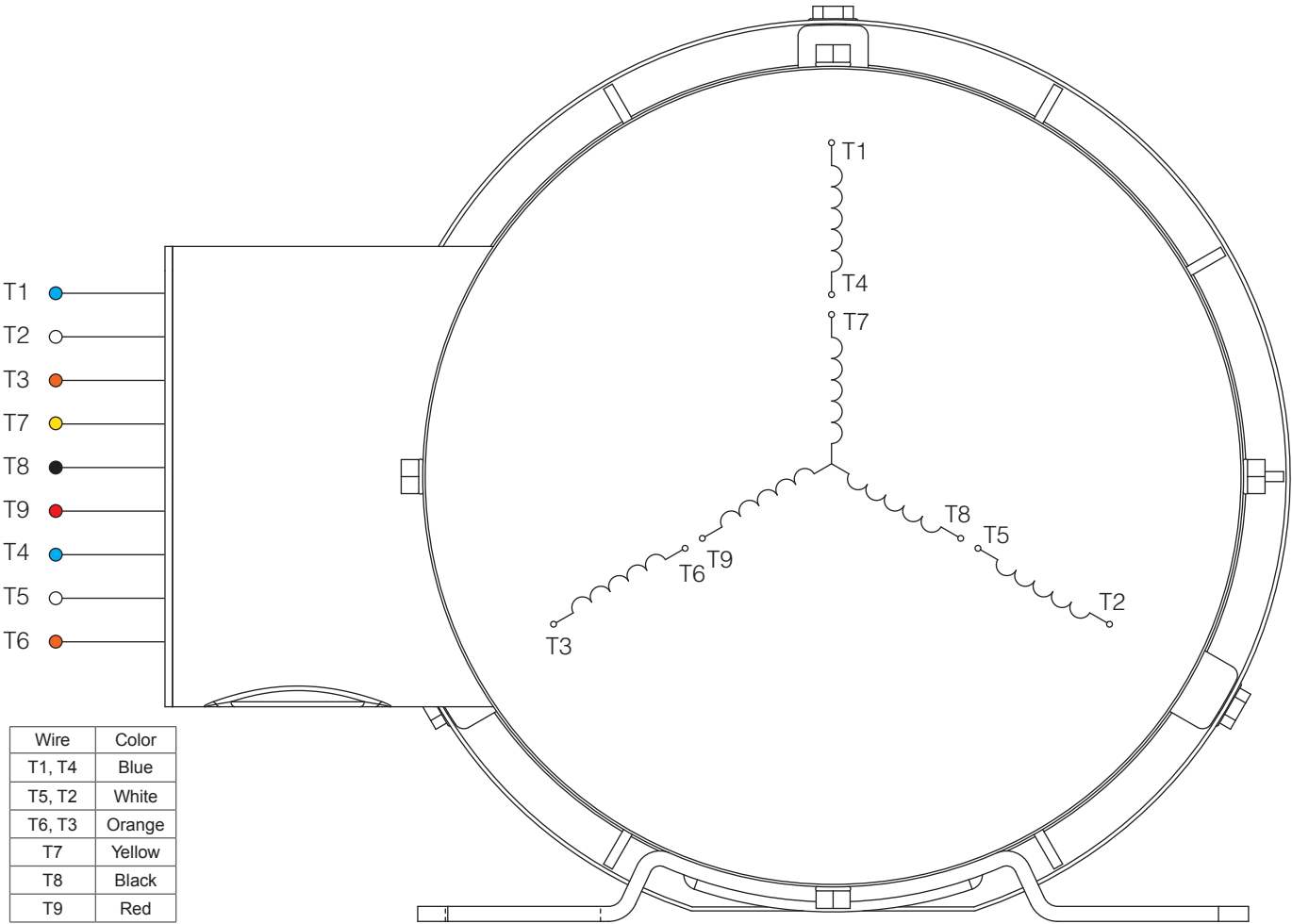
PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	-
No-Load Current (A)	1.2
No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.2	1.3	1.4	1.6	1.8	1.8
Efficiency (%)	71.3	81.9	85.4	86.6	86.7	86.7
Speed (r/min)	1790.0	1780.0	1770.0	1759.0	1748.0	1748.0
Power Factor (cosΦ)	0.28	0.45	0.58	0.68	0.75	0.75
Input Power (kW)	0.3	0.5	0.7	0.9	1.1	1.1

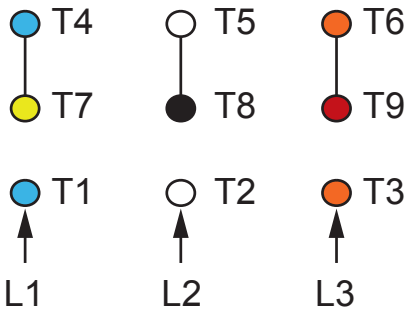
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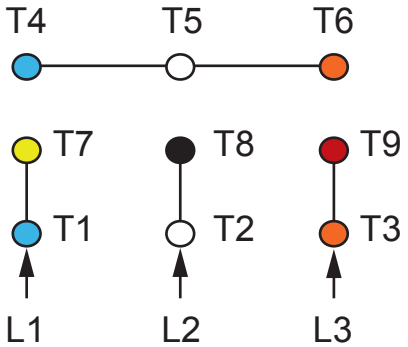
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Wire	Color
T1, T4	Blue
T5, T2	White
T6, T3	Orange
T7	Yellow
T8	Black
T9	Red



HIGH VOLTAGE
(Y)



LOW VOLTAGE
(YY)

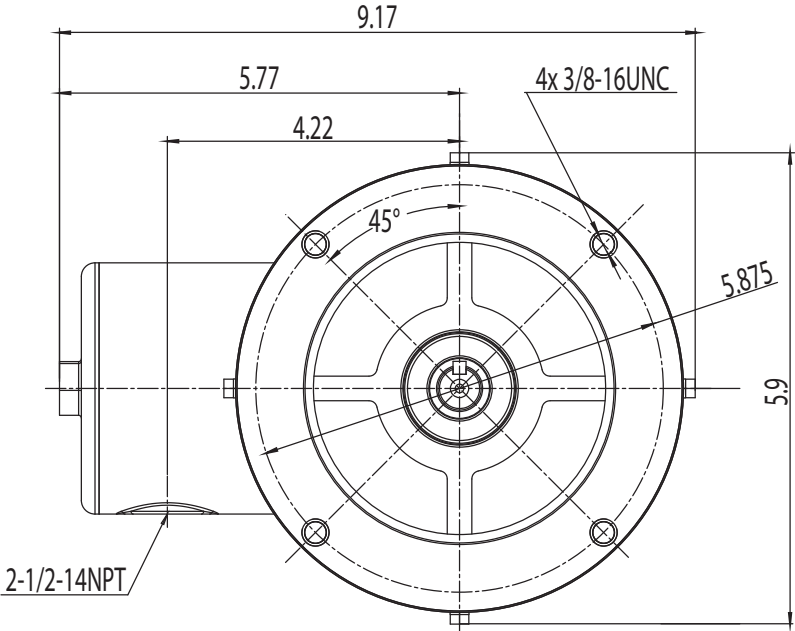
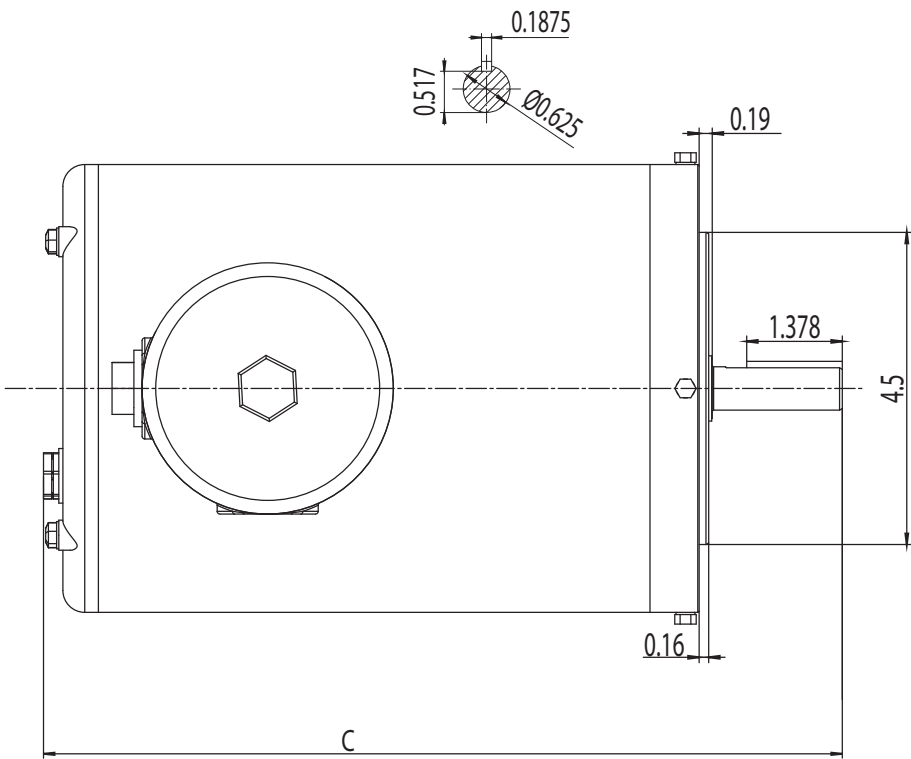
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED 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 & Pole	"C"
1 2P	11.6
1 4P	12.2



NEMA Premium TENV 56HC

DRAWING NUMBER:	SS3-NV-56HC-RND	ISSUED DATE	20/11/25
DIMENSIONS:	Inches	STAINLESS STEEL IP69K MOTORS	
MOUNTING:	Round Body/C-Flange		
CASING MATERIAL:	Stainless Steel		