

NEMA

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

Model SSBN.504F-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSBN.504F-C	0.5	1760	575	3	60	56C	Rigid/C-Flange	TENV

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Index

Motor General Data Sheet	P 2
Nameplate Information	P 3
Technical Performance Data	P 4
Motor General Wiring Diagram	P 5
Motor General Outline Drawing	P 6

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ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	0.37	kW
Rated Motor Speed	1760	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	0.66	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	5.94	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	N	60Hz
	-	50Hz
Nominal Efficiency	84	% @ 60Hz
Nominal Power Factor	0.68	cosΦ @ 60Hz
Leads (Qty, Size)	3	18
Connection	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	Rigid/C-Flange	
Approximate Weight (lbs.)	38.6 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	-	-

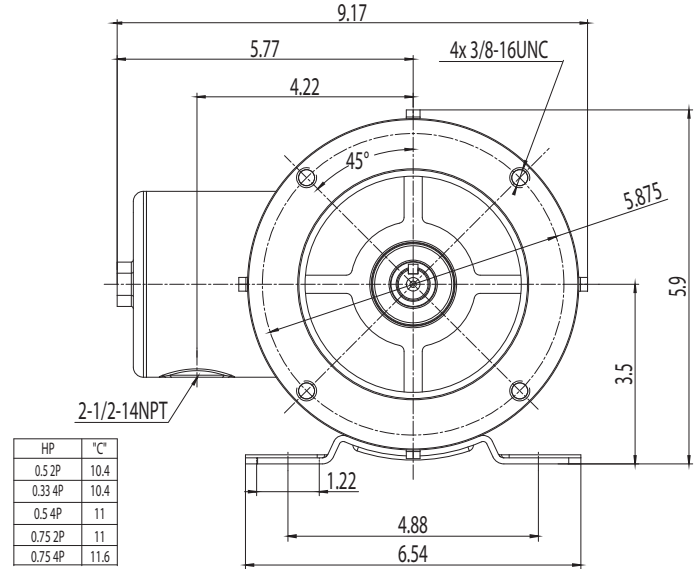
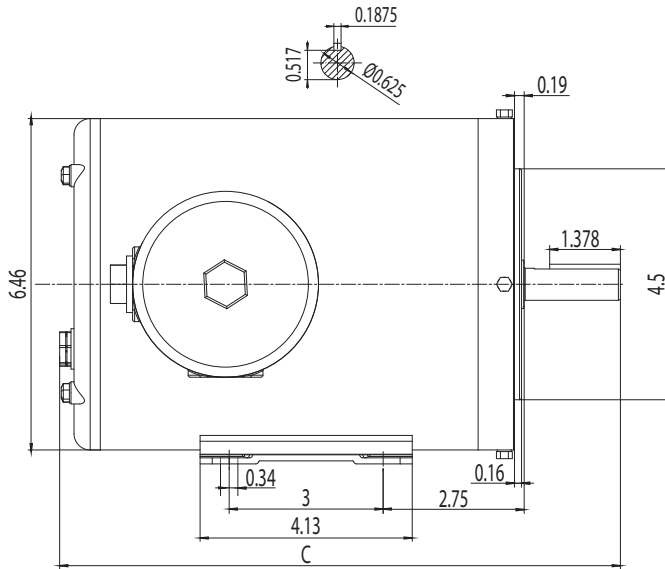
Questions? Call 1.888.286.1820

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



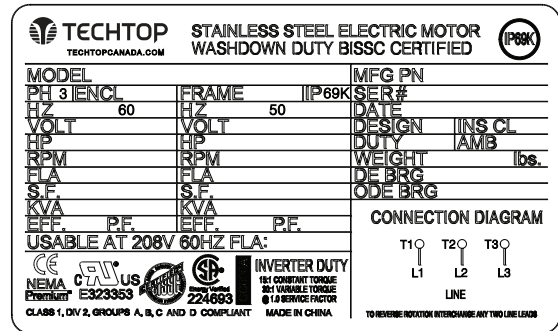
NEMA

Model SSBN.504F-C
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NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.5	-
RPM	1760	-
Voltage	575	-
Full Load Amps	0.66	-
Service Factor	1.25	-
KVA Code	N	-
Full Load Amps (208V)	-	-
Nominal Efficiency	84	-
Nominal Power Factor	0.68	-
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)	38.6	

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

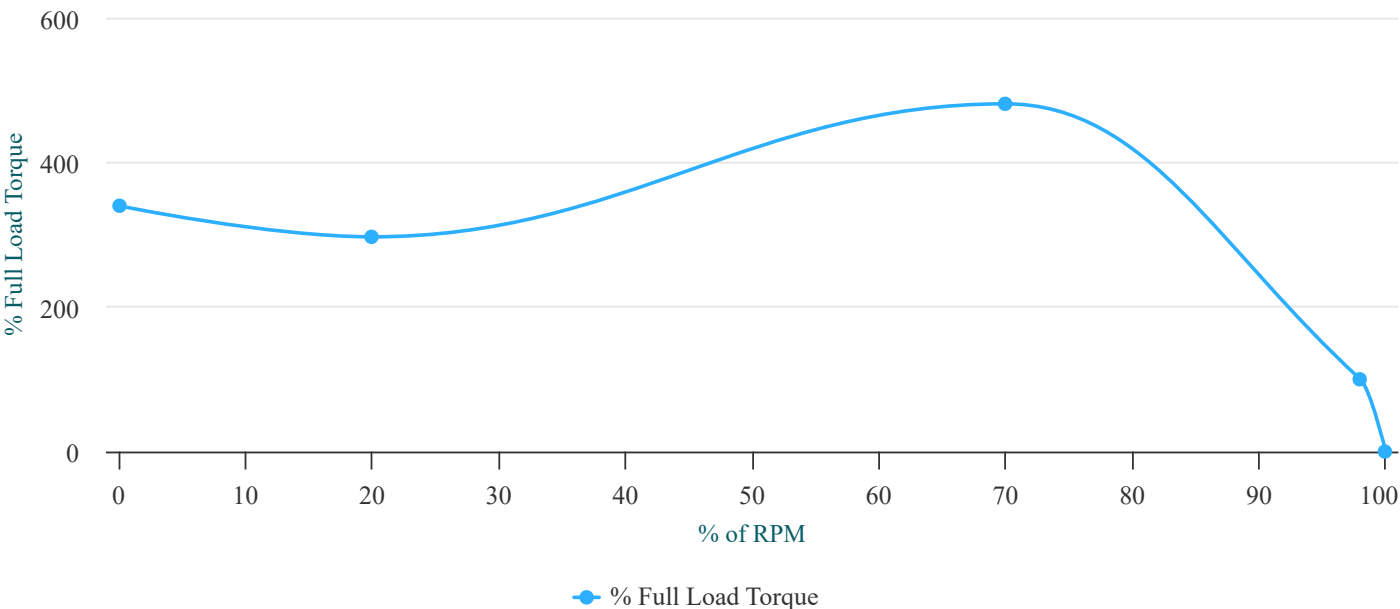
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	5.1	340
Pull-Up Torque	4.4	297
Breakdown Torque	7.2	481
Full Load Torque	1.5	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

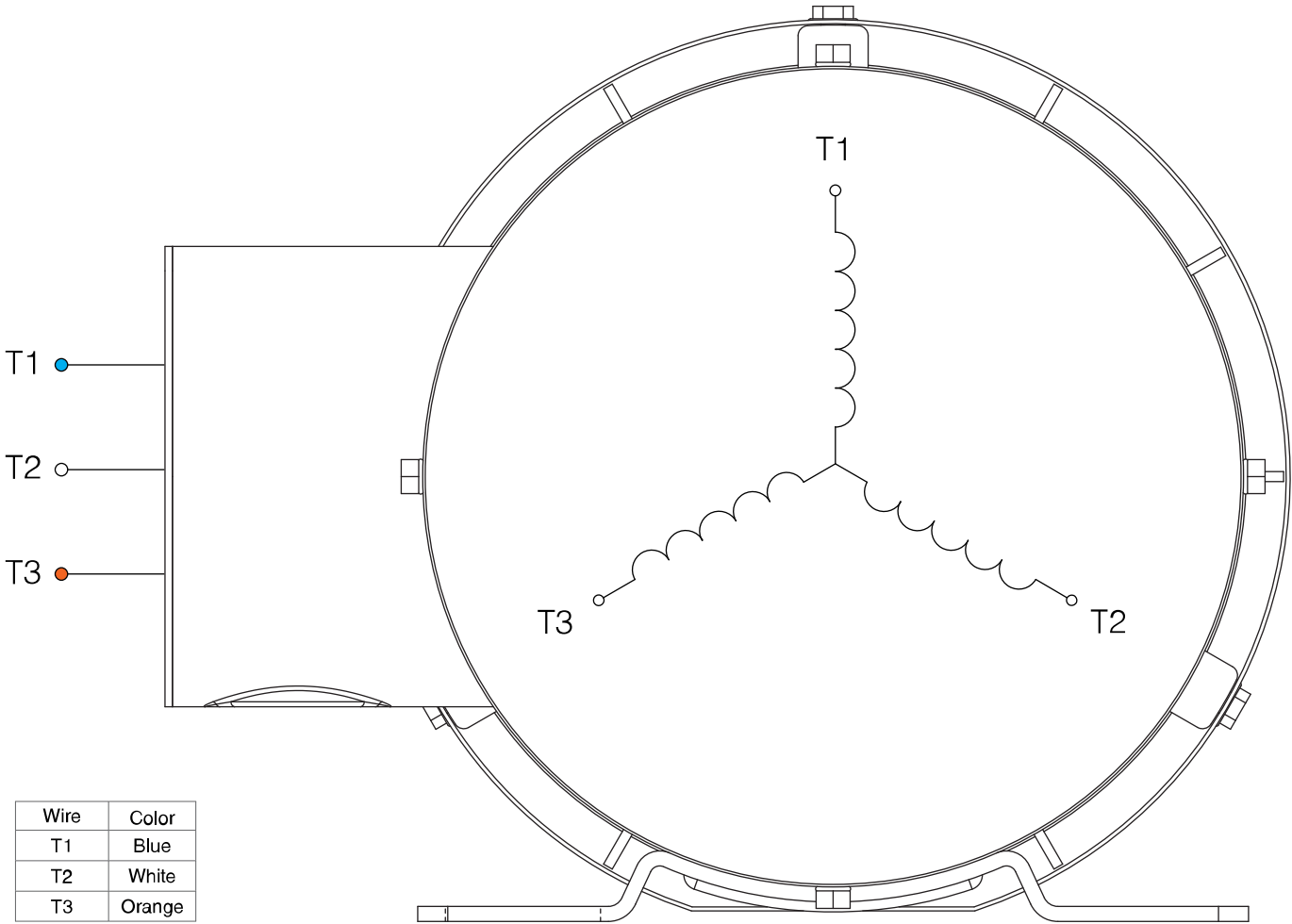
PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	5.94
No-Load Current (A)	0.5
No-Load Power Factor	0.1

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.5	0.5	0.6	0.7	0.7	0.7
Efficiency (%)	65.6	77.7	82.3	84.2	85	85
Speed (r/min)	1792	1785	1778	1770	1762	1762
Power Factor (cosΦ)	0.31	0.47	0.59	0.69	0.75	0.75
Input Power (kW)	0.14	0.24	0.34	0.45	0.55	0.55

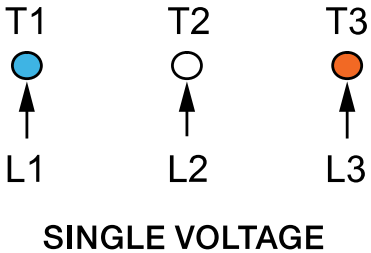
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Wire	Color
T1	Blue
T2	White
T3	Orange



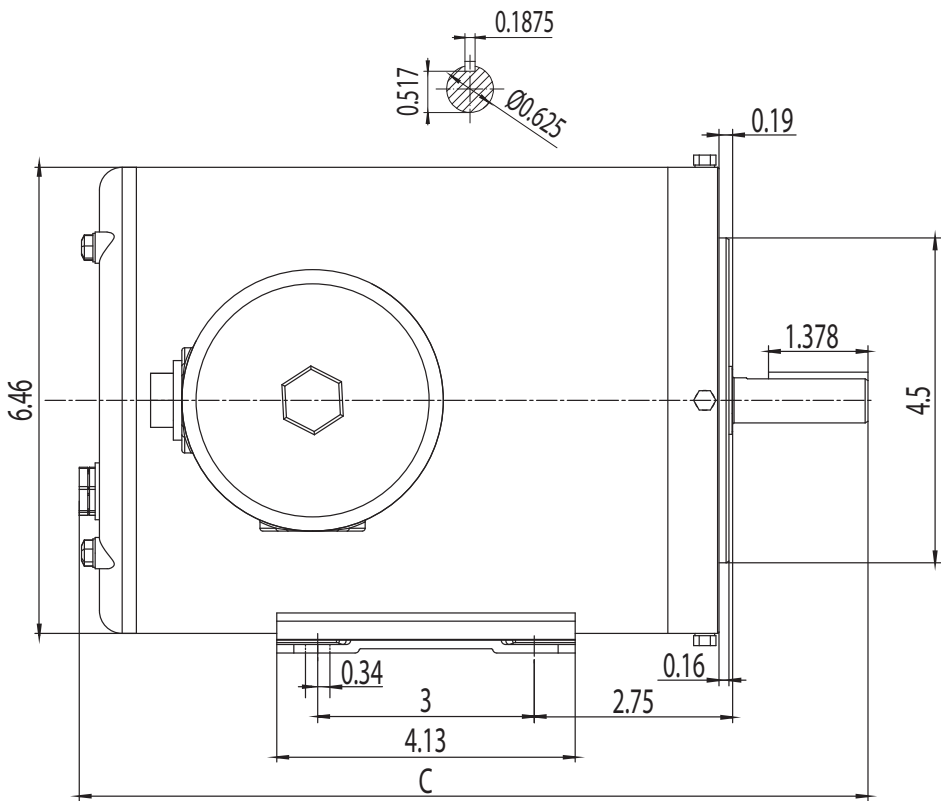
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



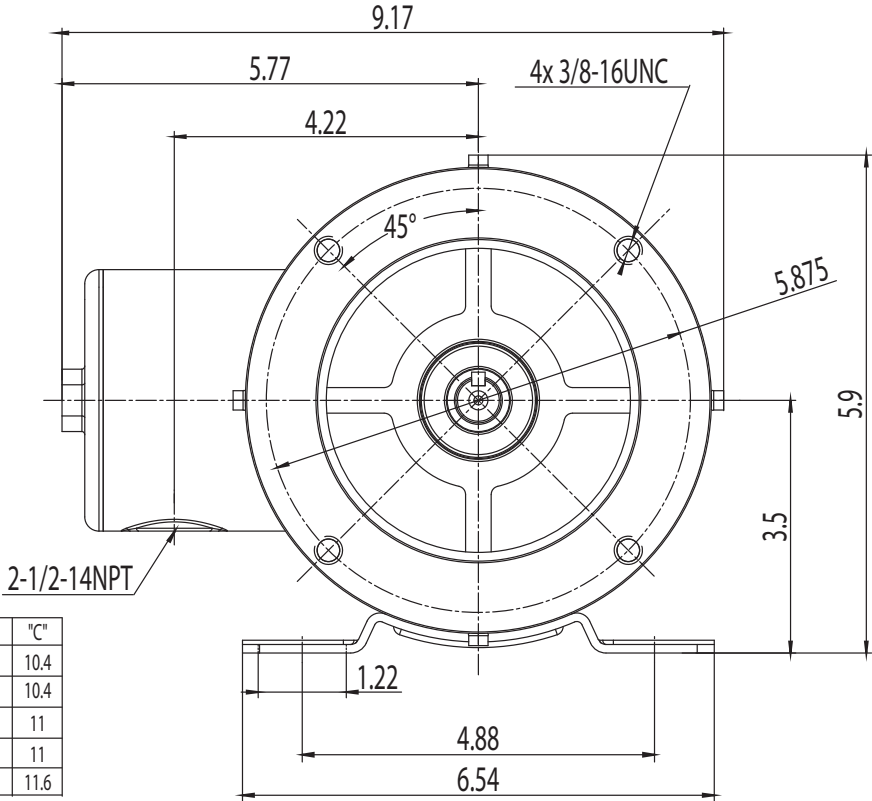
DRAWING NUMBER:	NEMA-3-3-Y-SS
CONNECTION:	Y
NUMBER OF LEADS:	3
THERMAL PROTECTION:	-

NEMA 3Ø Y 3-Lead Single Voltage

ISSUED DATE	24/02/25
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-NV-56C	ISSUED DATE	24/02/25
DIMENSIONS:	Inches	STAINLESS STEEL IP69K MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Stainless Steel		