

NEMA

Model SSB0052F-C
MFG PN: TSSF56HC5U2B

Model SSB0052F-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSB0052F-C	5	3510	575	3	60	56HC	Rigid/C-Flange	TEFC

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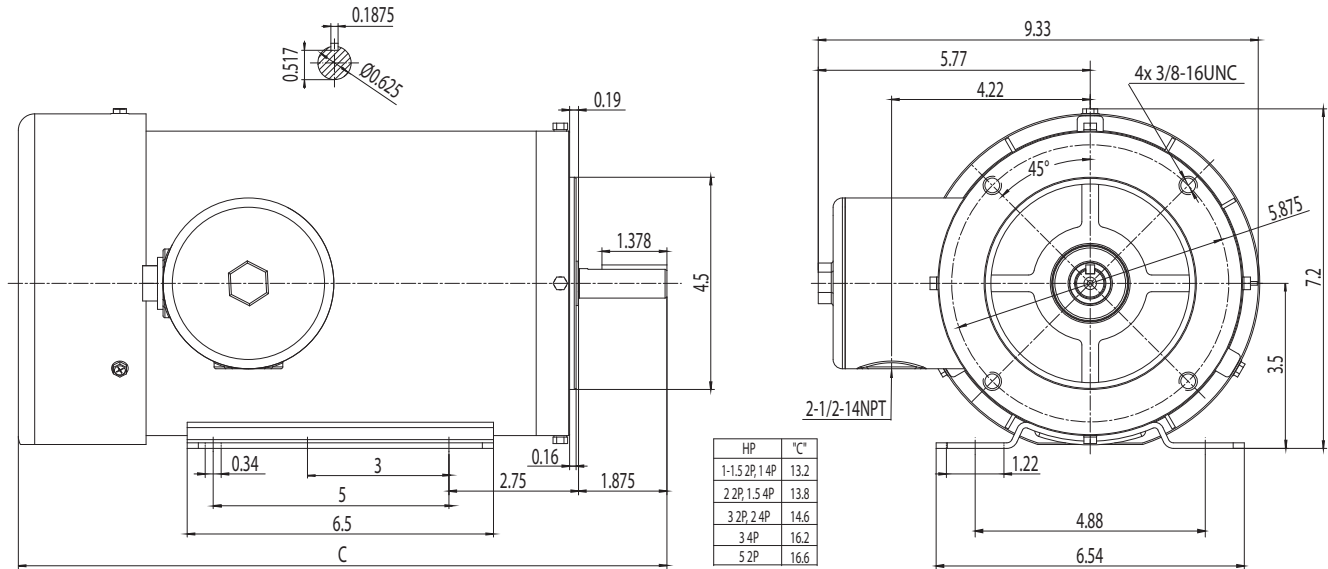
ELECTRICAL DATA		
Rated Motor Output Power	5	HP
	4	kW
Rated Motor Speed	3510	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	4.75	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1	@ 60Hz
	-	@ 50Hz
KVA Code	L	60Hz
	-	50Hz
Nominal Efficiency	88.5	% @ 60Hz
Nominal Power Factor	0.89	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	68.3	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56HC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	67.9 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	-	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	5	-
RPM	3510	-
Voltage	575	-
Full Load Amps	4.75	-
Service Factor	1	-
KVA Code	L	-
Full Load Amps (208V)	-	-
Nominal Efficiency	88.5	-
Nominal Power Factor	0.89	-
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)	67.9	

NAMEPLATE LAYOUT

TECHTOP STAINLESS STEEL ELECTRIC MOTOR WASHDOWN DUTY BISSC CERTIFIED (IP69K)

MODEL PH 3 ENCL 60 HZ VOLT 60 HP 3510 RPM 575V 4.75 FLA 1 S.F. 88.5 EFF. 0.89 P.F. FRAME 56HC MFG PN TSSF56HC5U2B SER# DATE DESIGN INS CL DUTY AMB WEIGHT lbs. DE BRG ODE BRG

USABLE AT 208V 60HZ FLA: INVERTER DUTY 15:1 CONSTANT TORQUE 15:1 VARIABLE TORQUE 1.0 SERVICE FACTOR CLASS 1, DIV 2, GROUPS A, B, C AND D COMPLIANT MADE IN CHINA

CONNECTION DIAGRAM: T1 L1, T2 L2, T3 L3, LINE. TO REVERSE ROTATION INTERCHANGE ANY TWO LINE LEADS

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

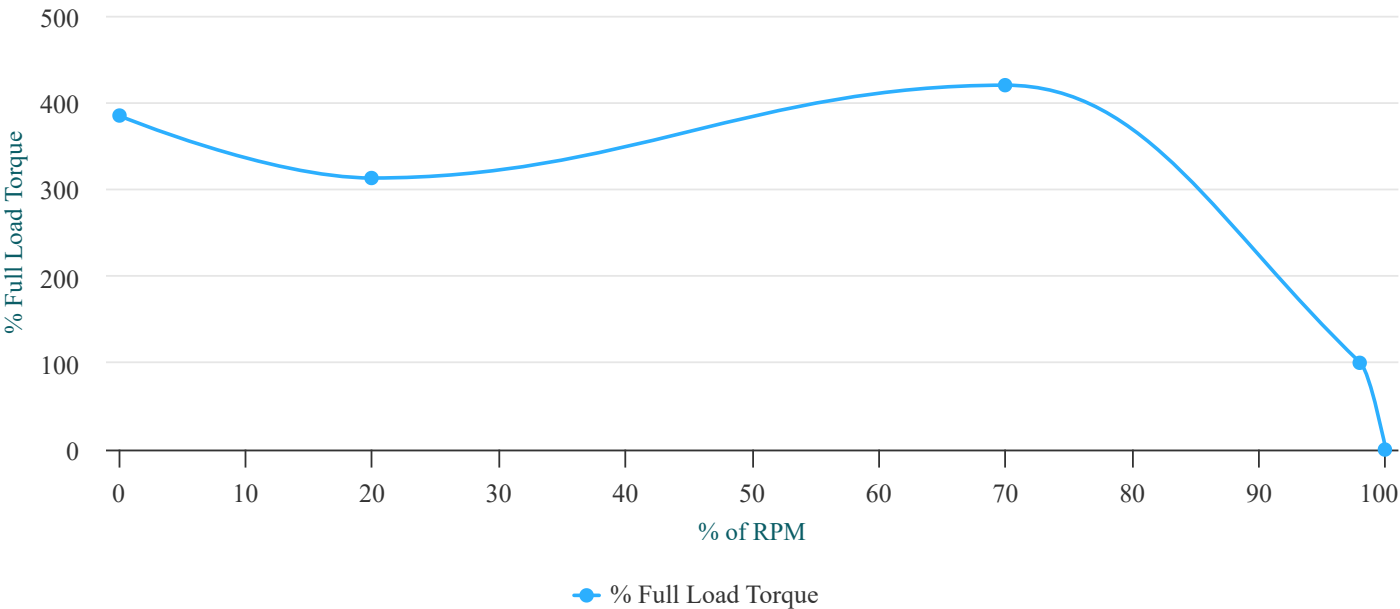
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	28.8	385	Start Configuration	DOL
Pull-Up Torque	23.4	313	Starting Current (A)	-
Breakdown Torque	31.4	420	No-Load Current (A)	1.6
Full Load Torque	7.5	100	No-Load Power Factor	-

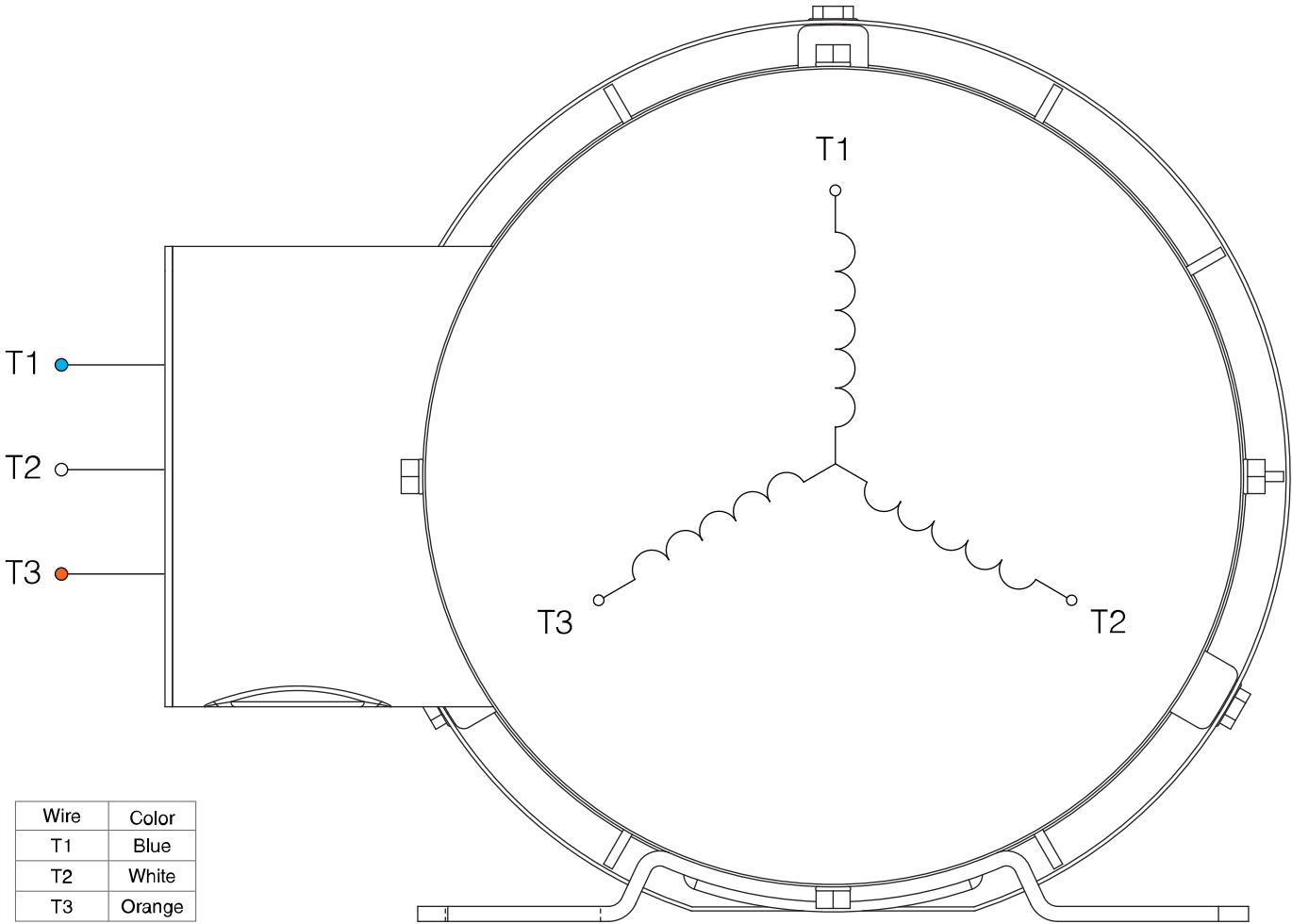
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1
Line Amperes (A)	1.9	2.7	3.6	4.7	5.8	5.8
Efficiency (%)	85.2	89.7	90.2	89.4	88.0	88.0
Speed (r/min)	3573.0	3548.0	3520.0	3489.0	3456.0	3456.0
Power Factor (cosΦ)	0.58	0.78	0.87	0.91	0.92	0.92
Input Power (kW)	1.1	2.1	3.1	4.2	5.3	5.3

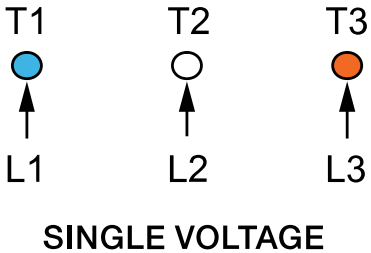
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Wire	Color
T1	Blue
T2	White
T3	Orange



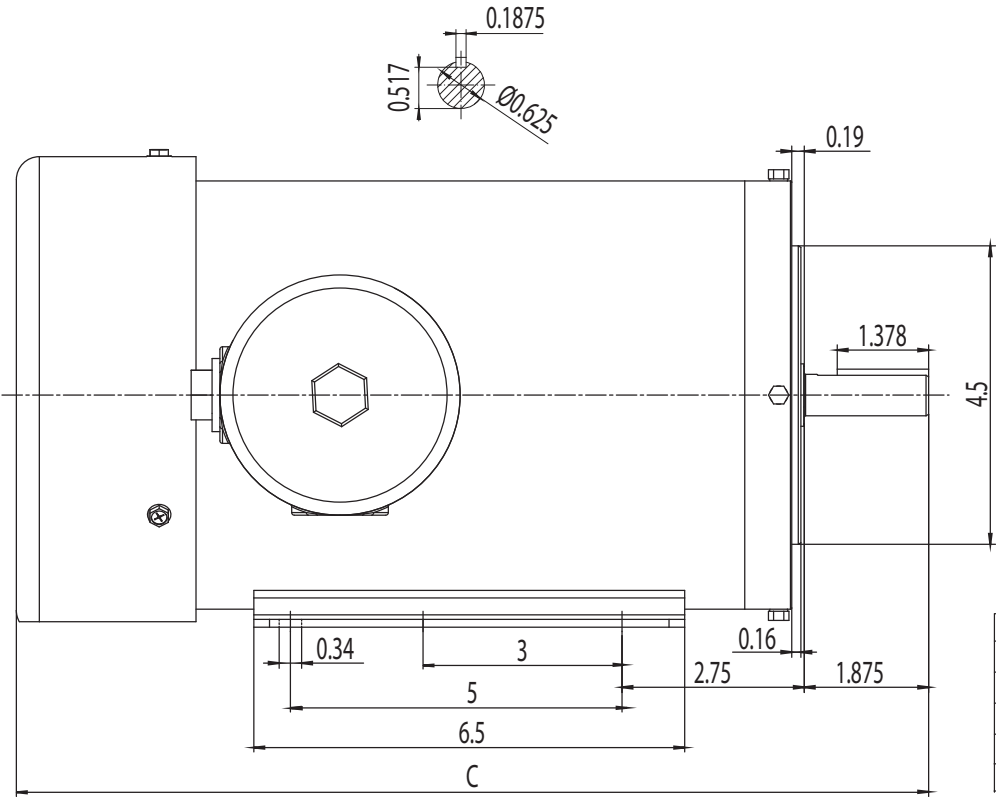
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



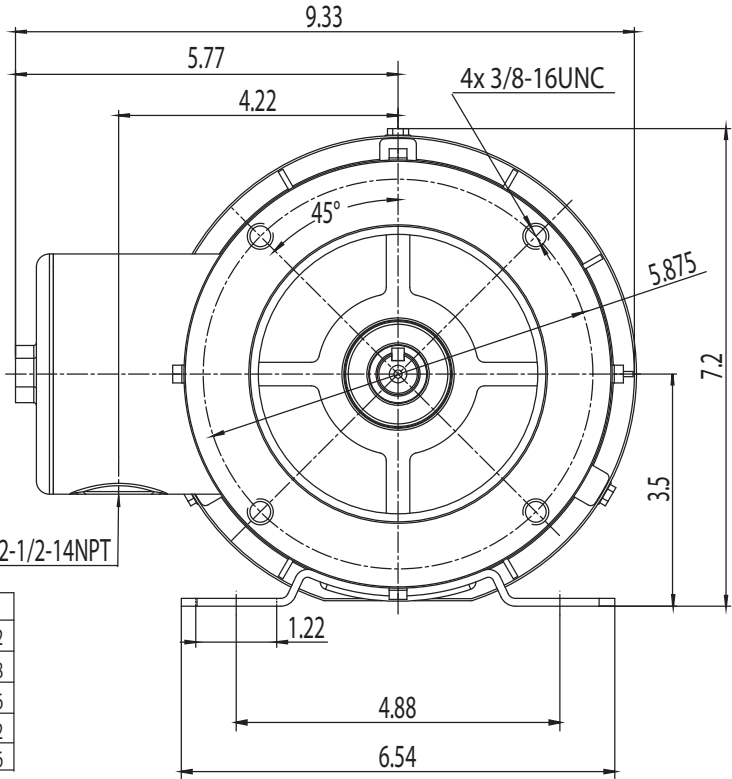
DRAWING NUMBER:	NEMA-3-3-Y-SS
CONNECTION:	Y
NUMBER OF LEADS:	3
THERMAL PROTECTION:	-

NEMA 3Ø Y 3-Lead Single Voltage

ISSUED DATE	20/11/25
STAINLESS STEEL IP69K MOTORS	



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



NEMA Premium TEFC 56HC

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