

NEMA

Model SSB0024D-C
MFG PN: TSSF56HC2U4B

Model SSB0024D-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSB0024D-C	2	1750	230/460	3	60	56HC	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	2	HP
	1.5	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	5.77/2.89	A (I _n) @ 60Hz
	6.79/3.39	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	22.55	A (I _n) @ 60Hz
FI Current @ 208V	6.38	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	0.75	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	56.3	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56HC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	54.9 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	-	-

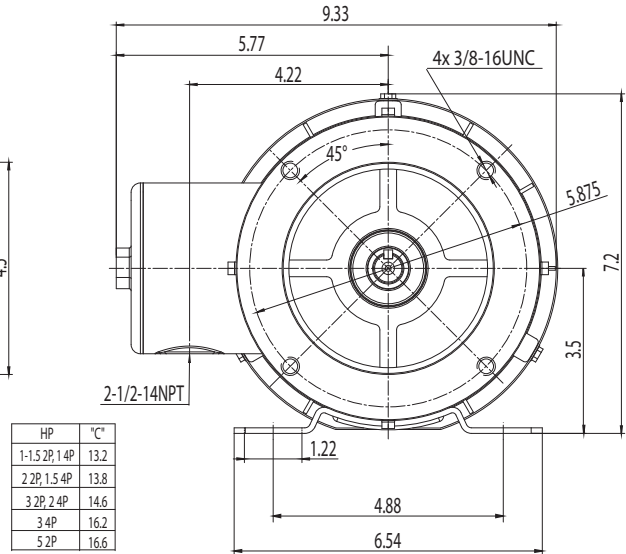
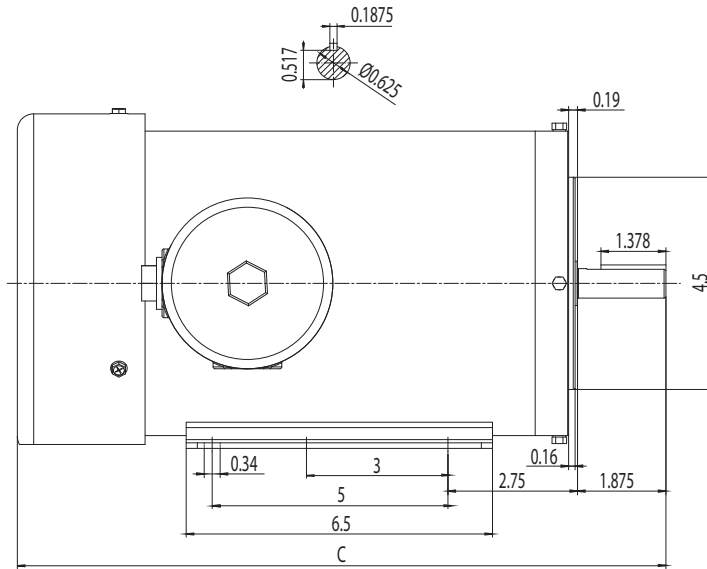
Questions? Call 1.888.286.1820

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



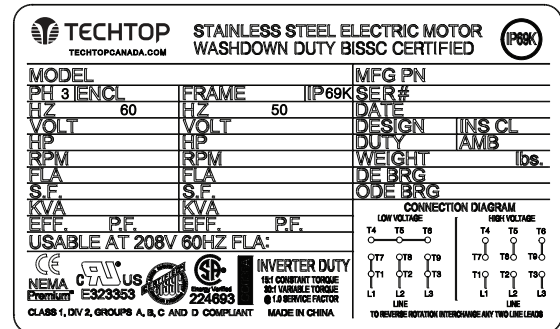
NEMA

Model SSB0024D-C
MFG PN: TSSF56HC2U4B



NAMEPLATE DATA	60Hz	50Hz
Horse Power	2	2
RPM	1750	1430
Voltage	230/460	190/380
Full Load Amps	5.77/2.89	6.79/3.39
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	6.38	-
Nominal Efficiency	86.5	83.5
Nominal Power Factor	0.75	0.8
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)	54.9	

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

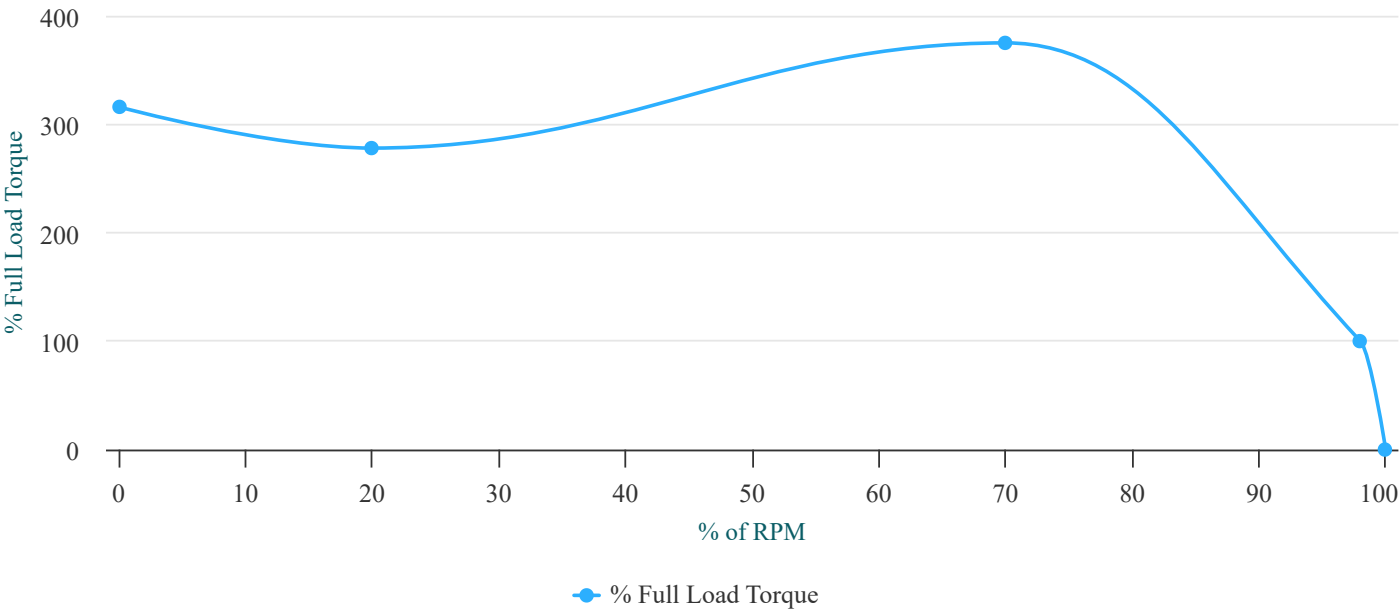
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	19	316	Start Configuration	DOL
Pull-Up Torque	16.7	278	Starting Current (A)	22.55
Breakdown Torque	22.5	375	No-Load Current (A)	1.8
Full Load Torque	6	100	No-Load Power Factor	0.08

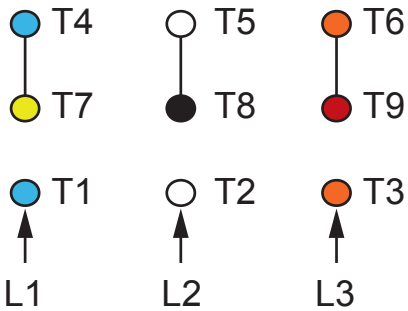
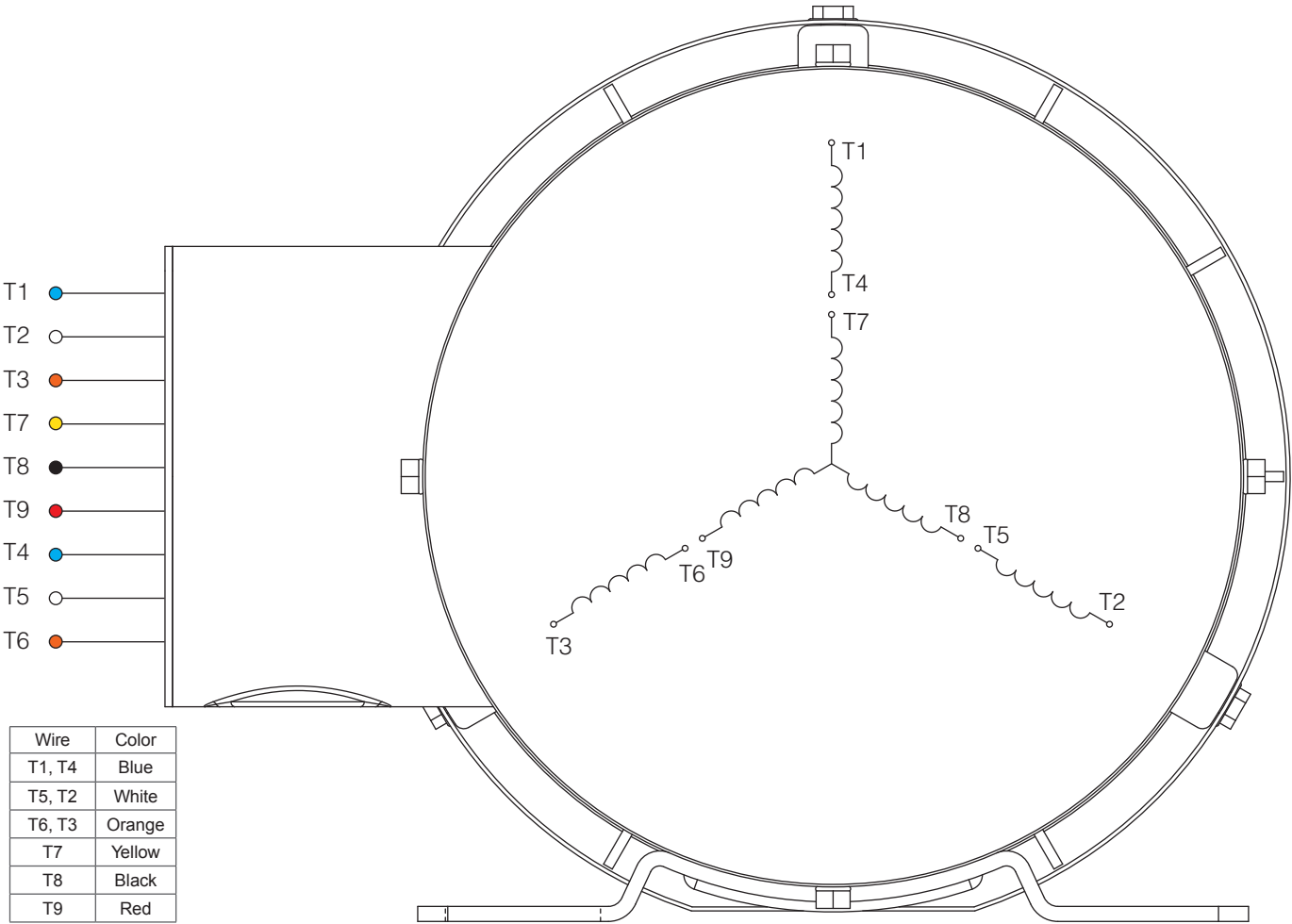
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.8	2.1	2.4	2.8	3.4	3.4
Efficiency (%)	76.5	84.7	86.7	86.8	86.0	86.0
Speed (r/min)	1788.0	1776.0	1763.0	1749.0	1733.0	1733.0
Power Factor (cosΦ)	0.34	0.54	0.68	0.76	0.81	0.81
Input Power (kW)	0.5	0.9	1.3	1.7	2.2	2.2

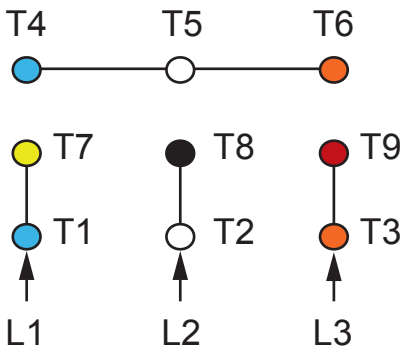
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HIGH VOLTAGE
(Y)



LOW VOLTAGE
(YY)

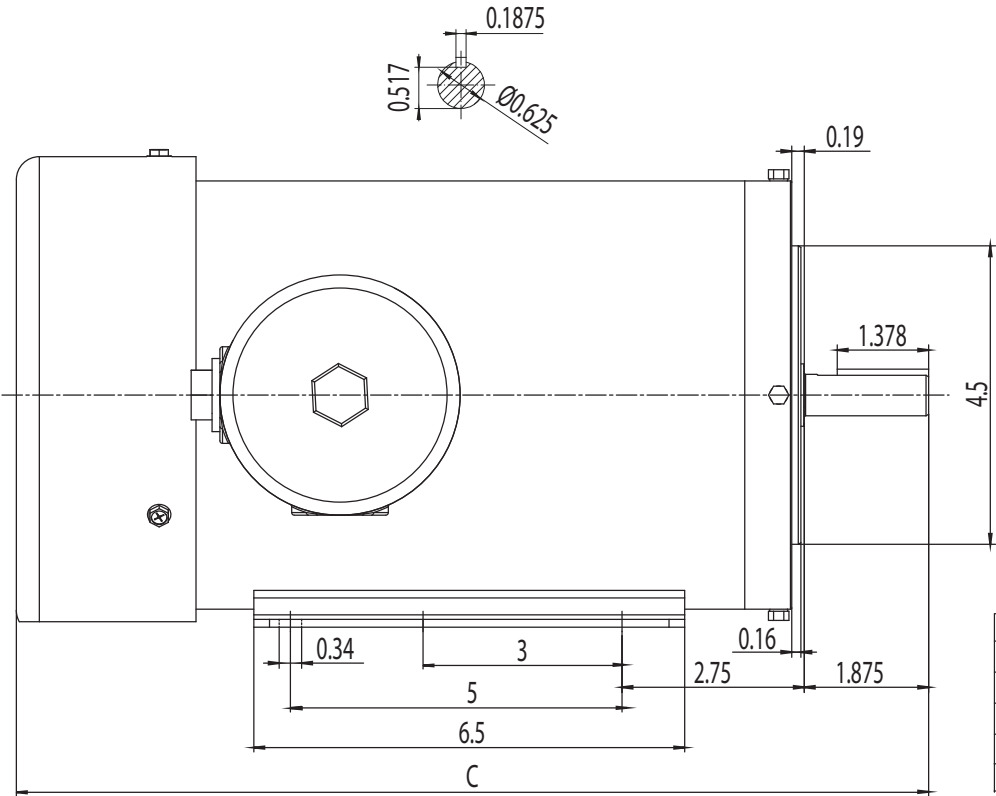
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



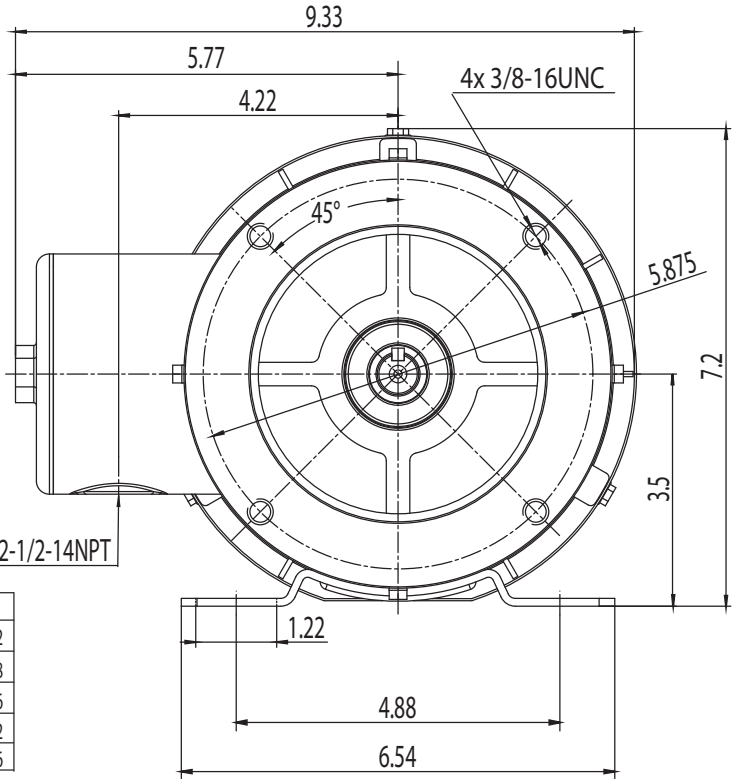
DRAWING NUMBER:	NEMA-3-9-YY-Y-SS
CONNECTION:	YY/Y
NUMBER OF LEADS:	9
THERMAL PROTECTION:	-

NEMA 3Ø YY/Y 9-Lead Dual Voltage

ISSUED DATE	20/11/25
STAINLESS STEEL IP69K MOTORS	



HP	"C"
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		
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Stainless Steel		STAINLESS STEEL IP69K MOTORS