

NEMA

Model SSB0034D-C
MFG PN: TSSF56HC3U4B

Model SSB0034D-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSB0034D-C	3	1750	230/460	3	60	56HC	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	3	HP
	2.2	kW
Rated Motor Speed	1750	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	-	V/50Hz
Rated Motor Current	8.37/4.18	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	9.25	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	L	60Hz
	-	50Hz
Nominal Efficiency	89.5	% @ 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	67.7	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56HC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	69.5 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	-	-

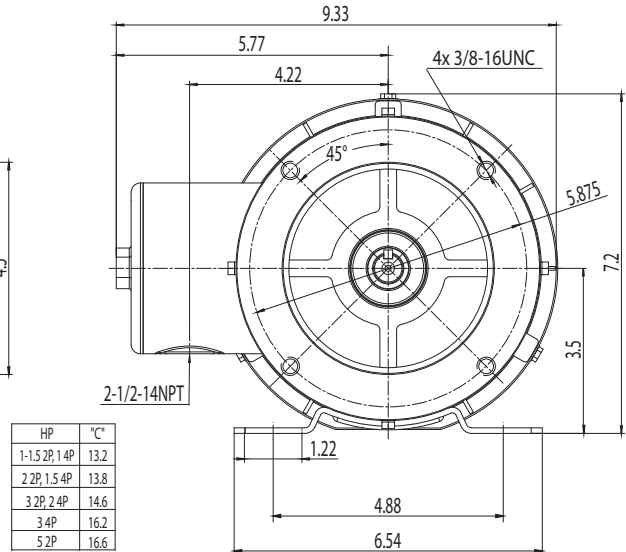
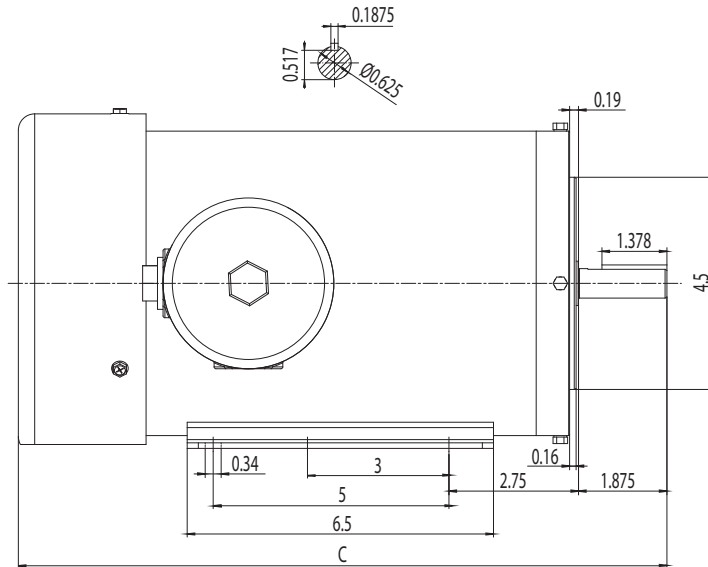
Questions? Call 1.888.286.1820

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



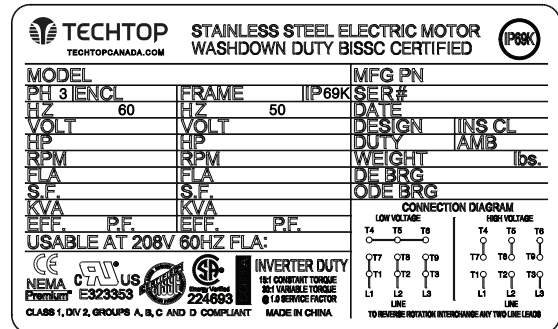
NEMA

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	3	-
RPM	1750	-
Voltage	230/460	-
Full Load Amps	8.37/4.18	-
Service Factor	1.25	-
KVA Code	L	-
Full Load Amps (208V)	9.25	-
Nominal Efficiency	89.5	-
Nominal Power Factor	0.75	-
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)	69.5	

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

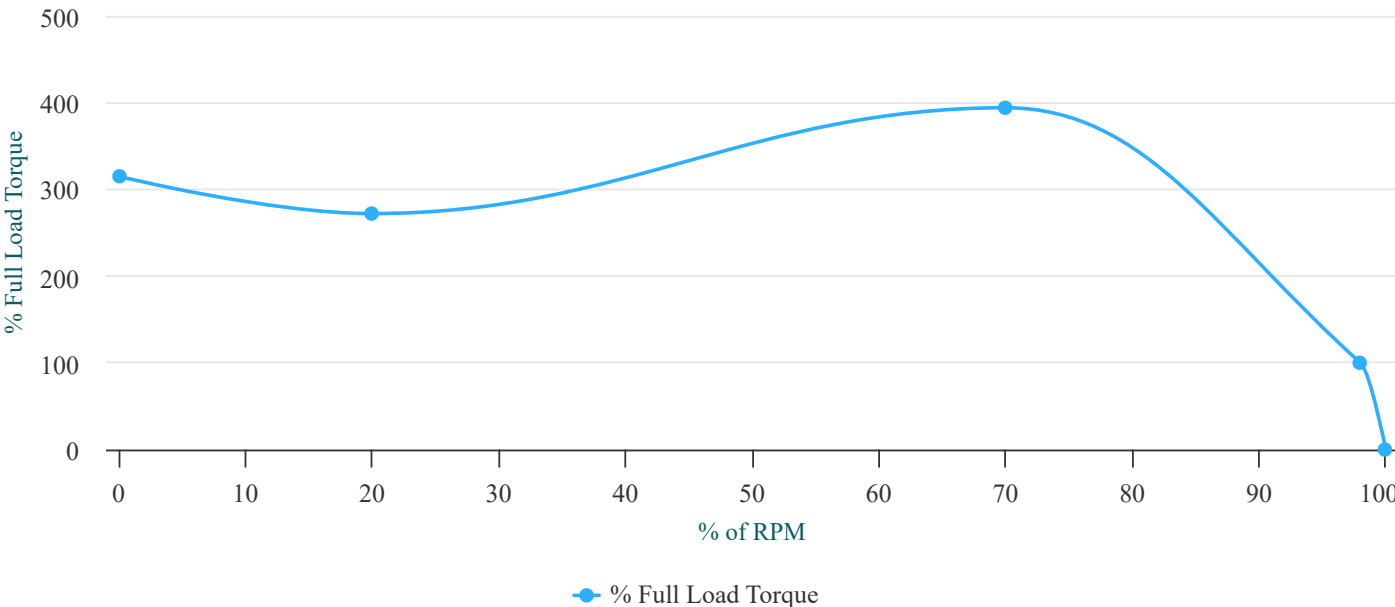
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

Questions? Call 1.888.286.1820



Model **SSB0034D-C**
MFG PN: TSSF56HC3U4B

Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	28.4	315
Pull-Up Torque	24.5	272
Breakdown Torque	35.5	394
Full Load Torque	9	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

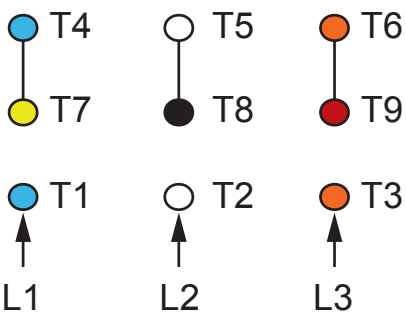
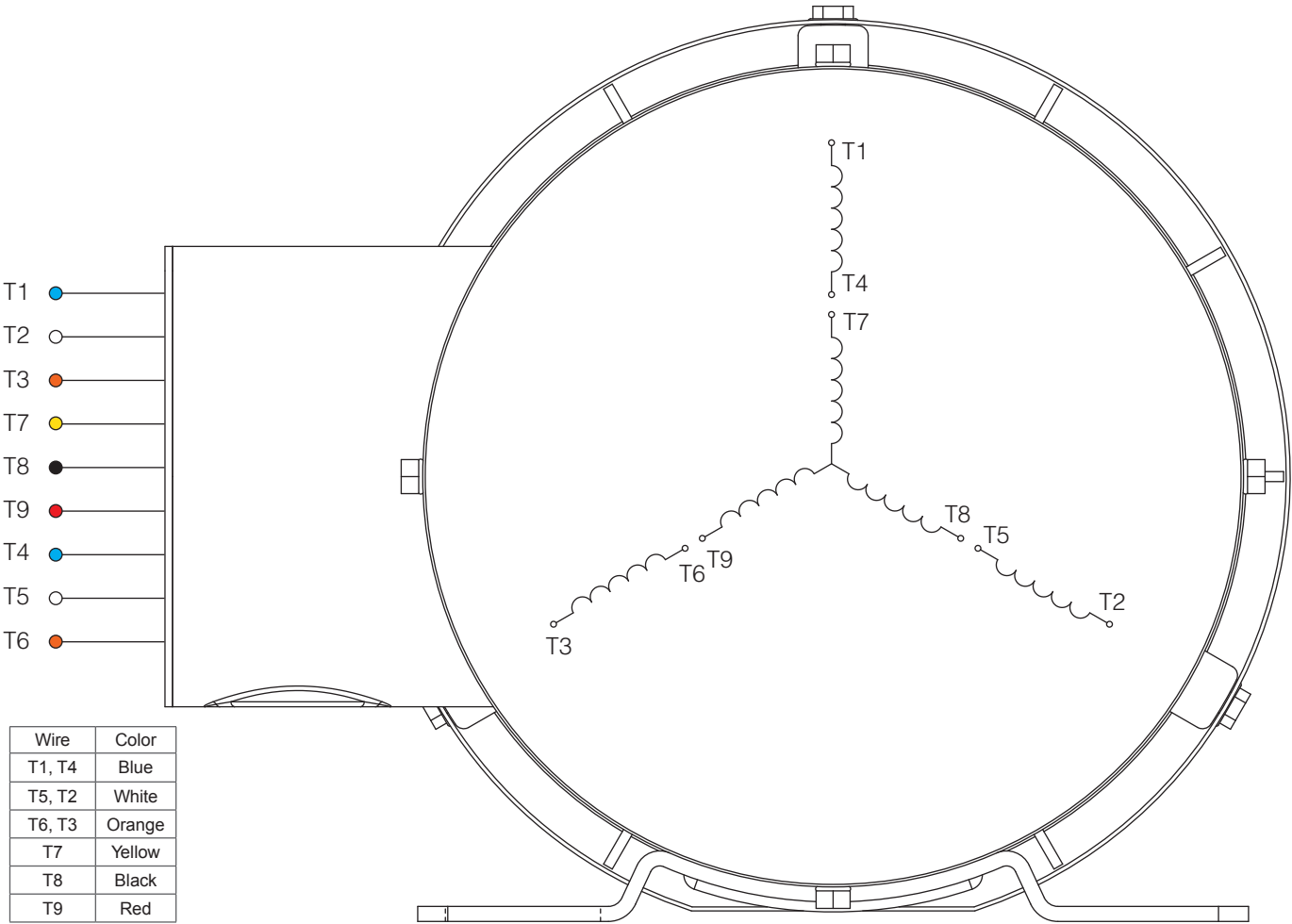
PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	-
No-Load Current (A)	2.6
No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	2.7	3.0	3.5	4.2	4.9	4.9
Efficiency (%)	78.1	85.8	87.6	87.7	86.9	86.9
Speed (r/min)	1788.0	1777.0	1764.0	1751.0	1736.0	1736.0
Power Factor (cosΦ)	0.33	0.53	0.67	0.76	0.81	0.81
Input Power (kW)	0.7	1.3	1.9	2.5	3.2	3.2

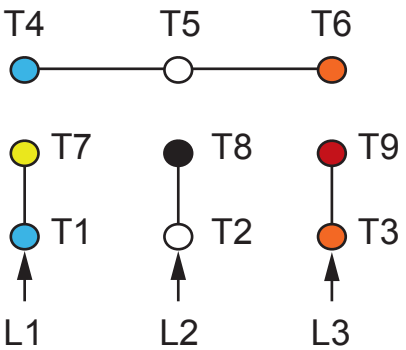
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HIGH VOLTAGE
(Y)



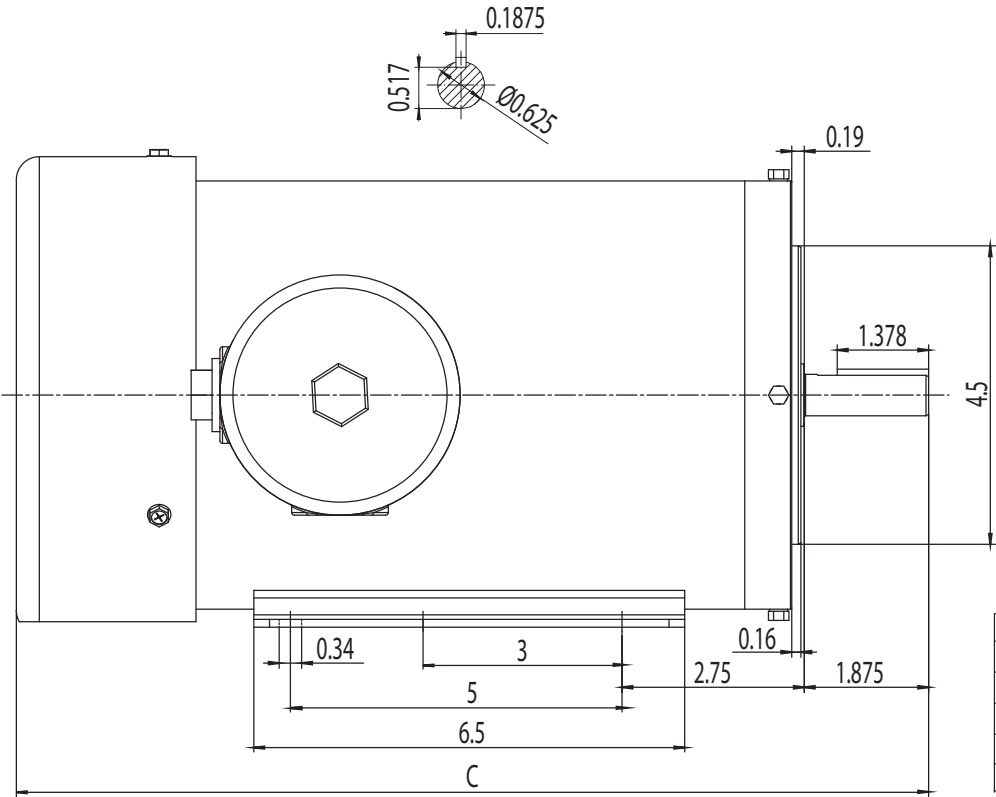
LOW VOLTAGE
(YY)

- 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

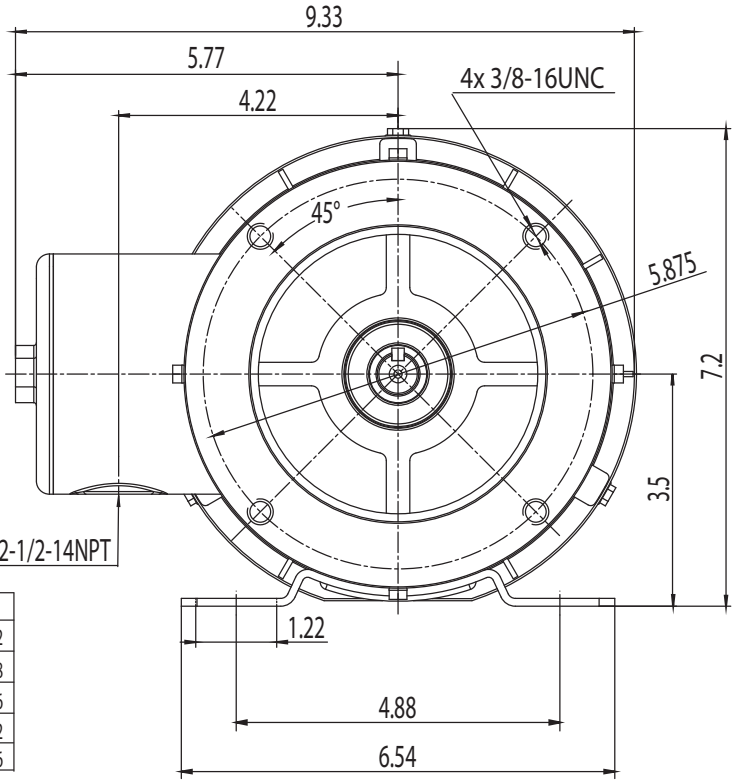


NEMA 3Ø YY/Y 9-Lead Dual Voltage

DRAWING NUMBER:	NEMA-3-9-YY-Y-SS	ISSUED DATE	20/11/25
CONNECTION:	YY/Y	STAINLESS STEEL IP69K MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		



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		