

NEMA

Model SSB0052D-C
MFG PN: TSSF56HC5U2B

Model SSB0052D-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSB0052D-C	5	3480	230/460	3	60	56HC	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	5	HP
	3.7	kW
Rated Motor Speed	3480	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	-	V/50Hz
Rated Motor Current	11.9/5.94	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	13.1	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)	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	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	-	-

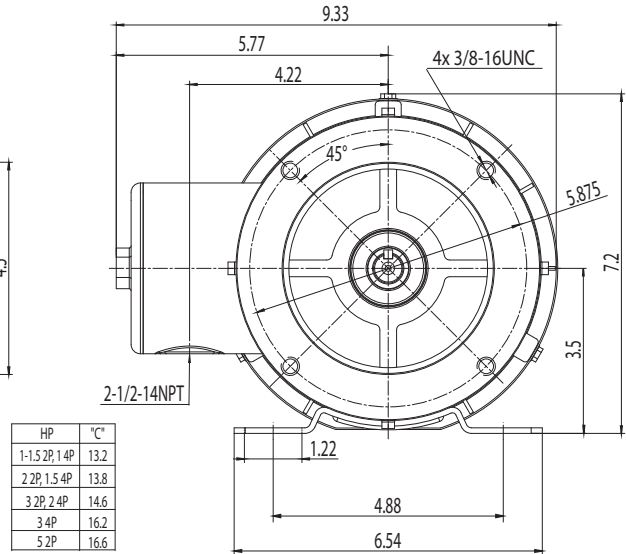
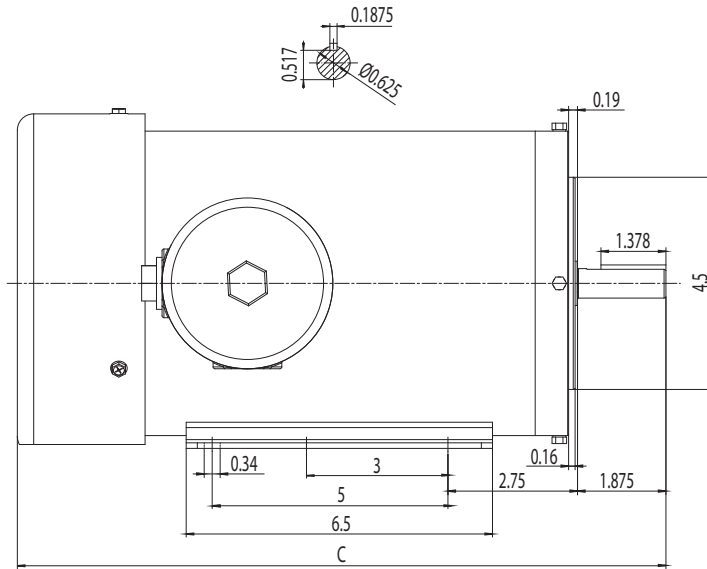
Questions? Call 1.888.286.1820

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



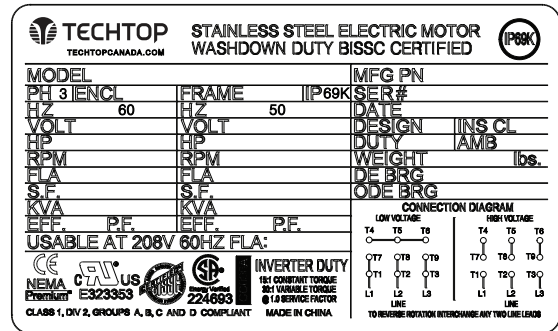
NEMA

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	5	-
RPM	3480	-
Voltage	230/460	-
Full Load Amps	11.9/5.94	-
Service Factor	1	-
KVA Code	L	-
Full Load Amps (208V)	13.1	-
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



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

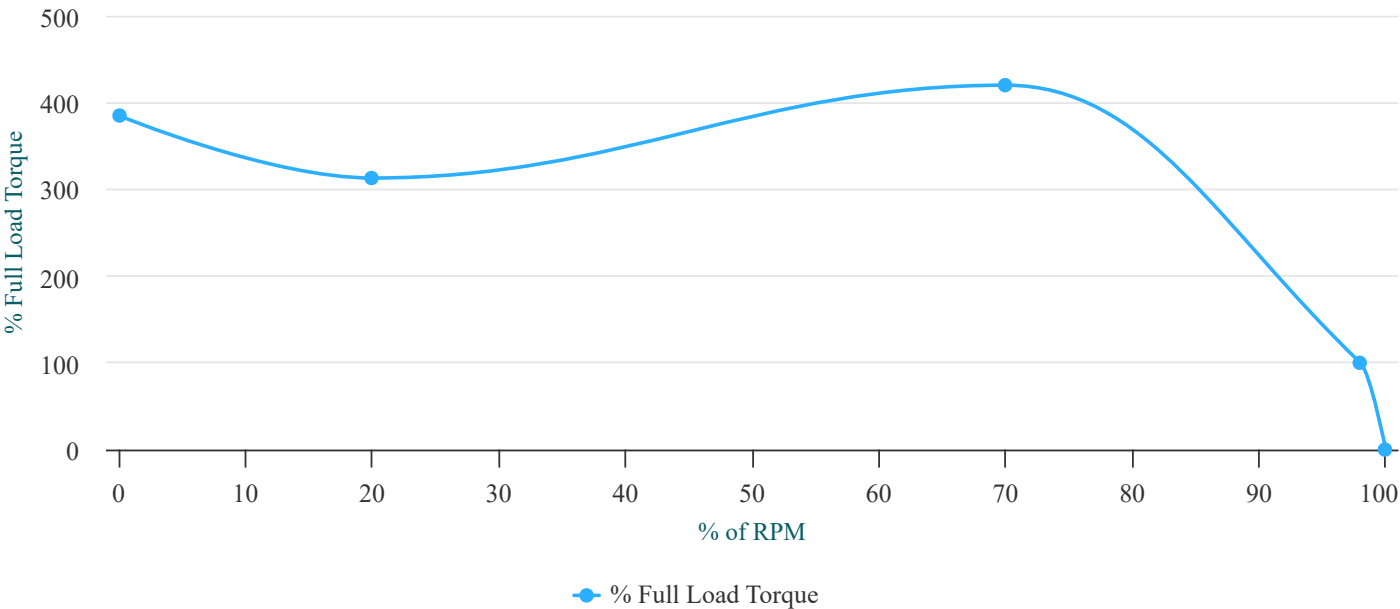
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

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NEMA

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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)	2
Full Load Torque	7.5	100	No-Load Power Factor	-

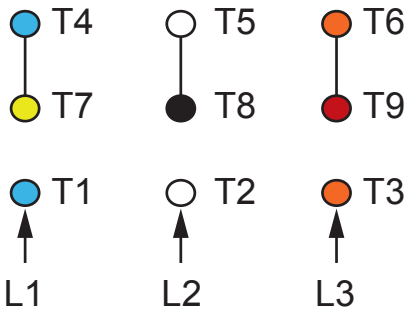
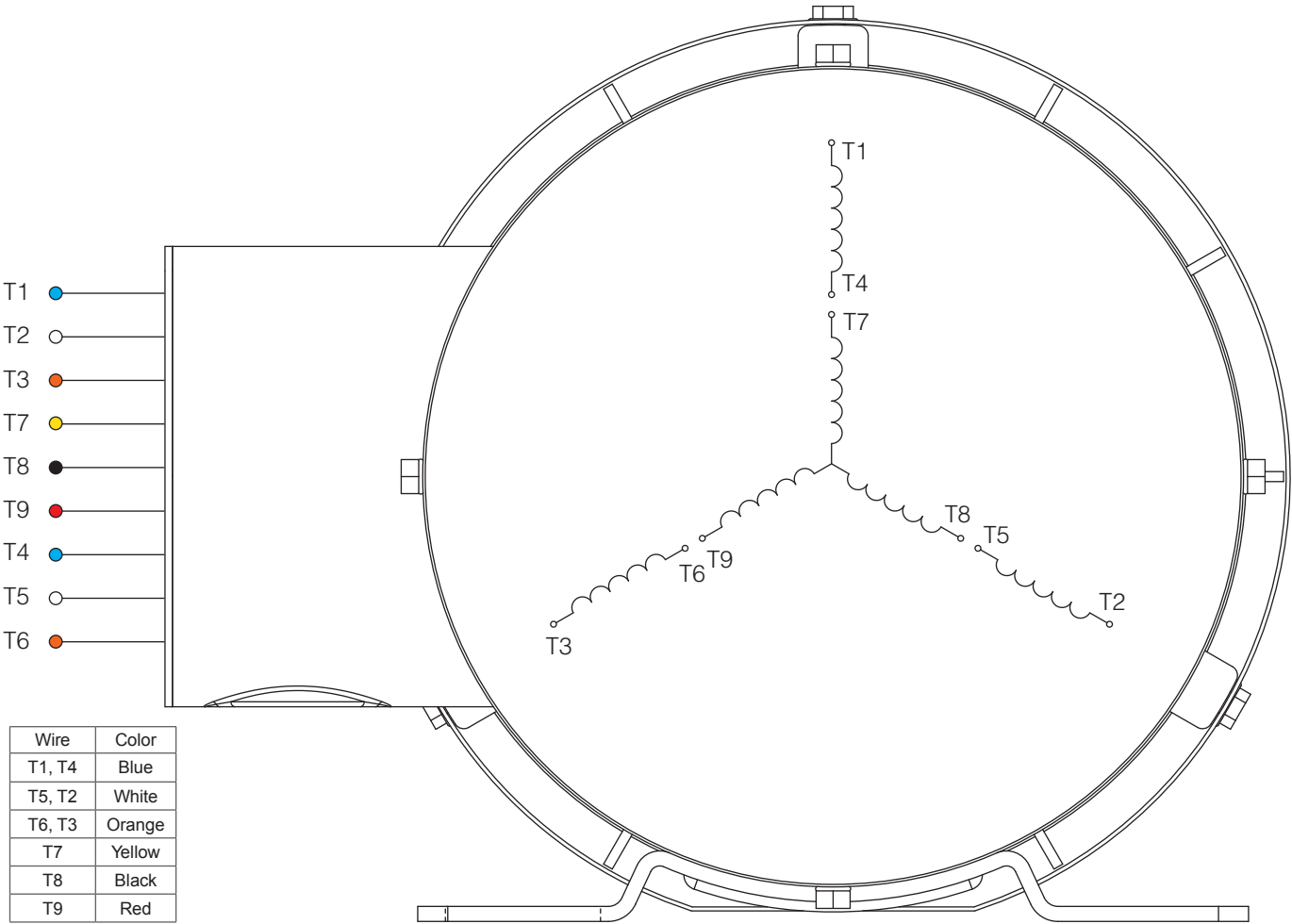
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1
Line Amperes (A)	2.4	3.3	4.5	5.8	7.3	7.3
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

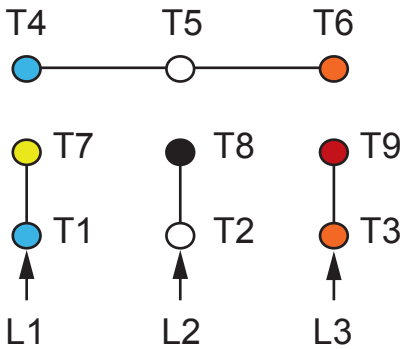
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HIGH VOLTAGE
(Y)



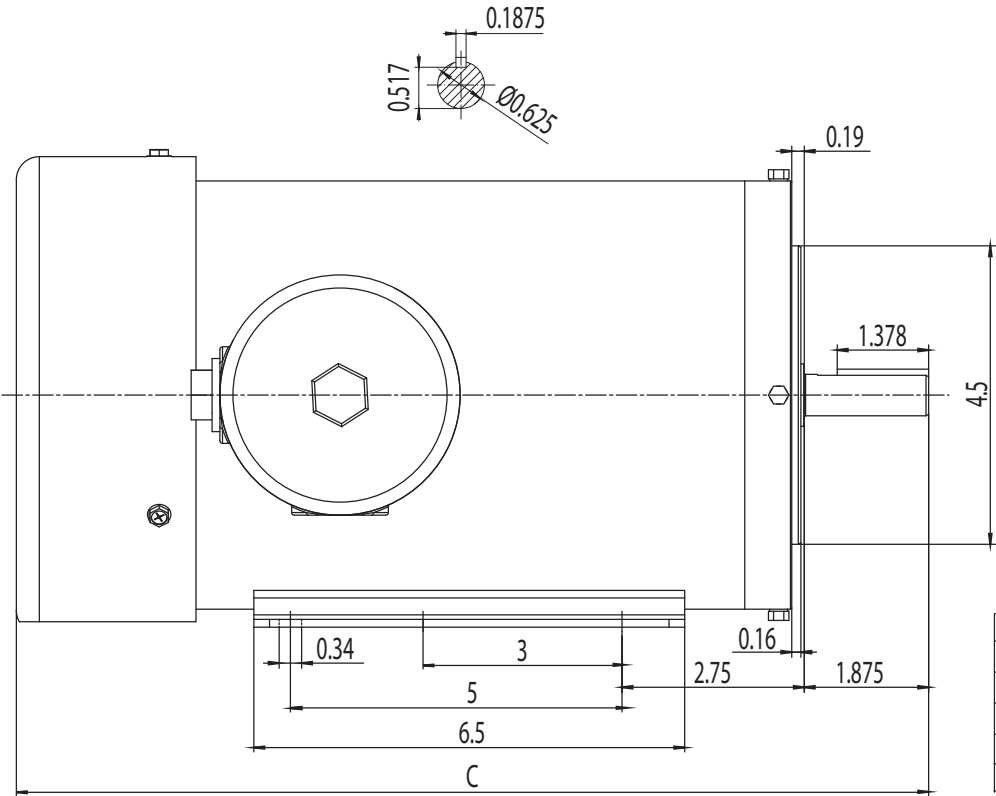
LOW VOLTAGE
(YY)

- 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

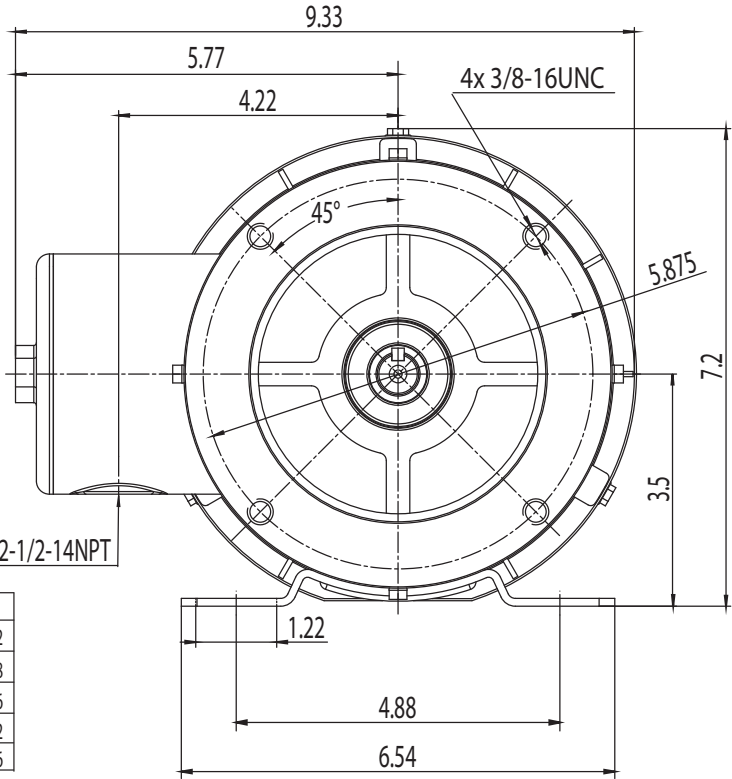


NEMA 3Ø YY/Y 9-Lead Dual Voltage

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

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Stainless Steel

ISSUED DATE

20/11/25

STAINLESS STEEL IP69K MOTORS