

NEMA

Model SSB.504D-C
MFG PN: TSSF56C1/2U4B

Model SSB.504D-C

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSB.504D-C	0.5	1750	230/460	3	60	56C	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	0.5	HP
	0.37	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	1.84/0.92	A (I _n) @ 60Hz
	2.07/1.03	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	2.03	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	M	60Hz
	J	50Hz
Nominal Efficiency	78.5	% @ 60Hz
Nominal Power Factor	0.65	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	27.4	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	56C	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	34.6 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	-	-

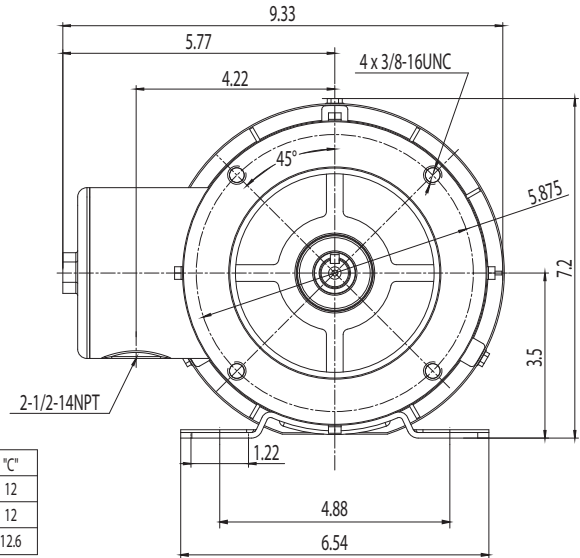
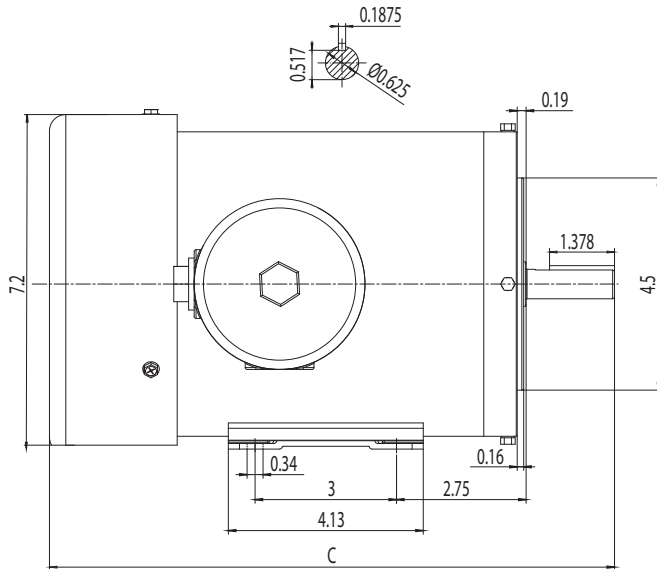
Questions? Call 1.888.286.1820

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



NEMA

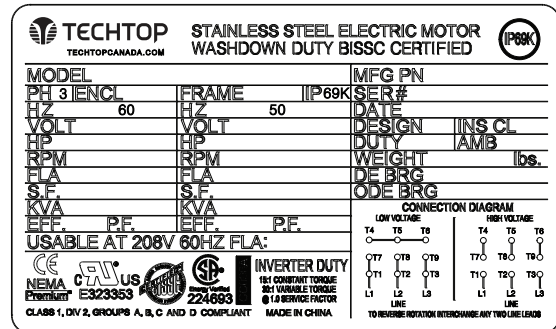
Model SSB.504D-C
MFG PN: TSSF56C1/2U4B



HP	°C
0.5	12
0.75 2P	12
0.75 4P	12.6

NAMEPLATE DATA	60Hz	50Hz
Horse Power	0.5	0.5
RPM	1750	1430
Voltage	230/460	190/380
Full Load Amps	1.84/0.92	2.07/1.03
Service Factor	1.25	1
KVA Code	M	J
Full Load Amps (208V)	2.03	-
Nominal Efficiency	78.5	77.3
Nominal Power Factor	0.65	0.71
Design	B	
Frame	56C	
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)	34.6	

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

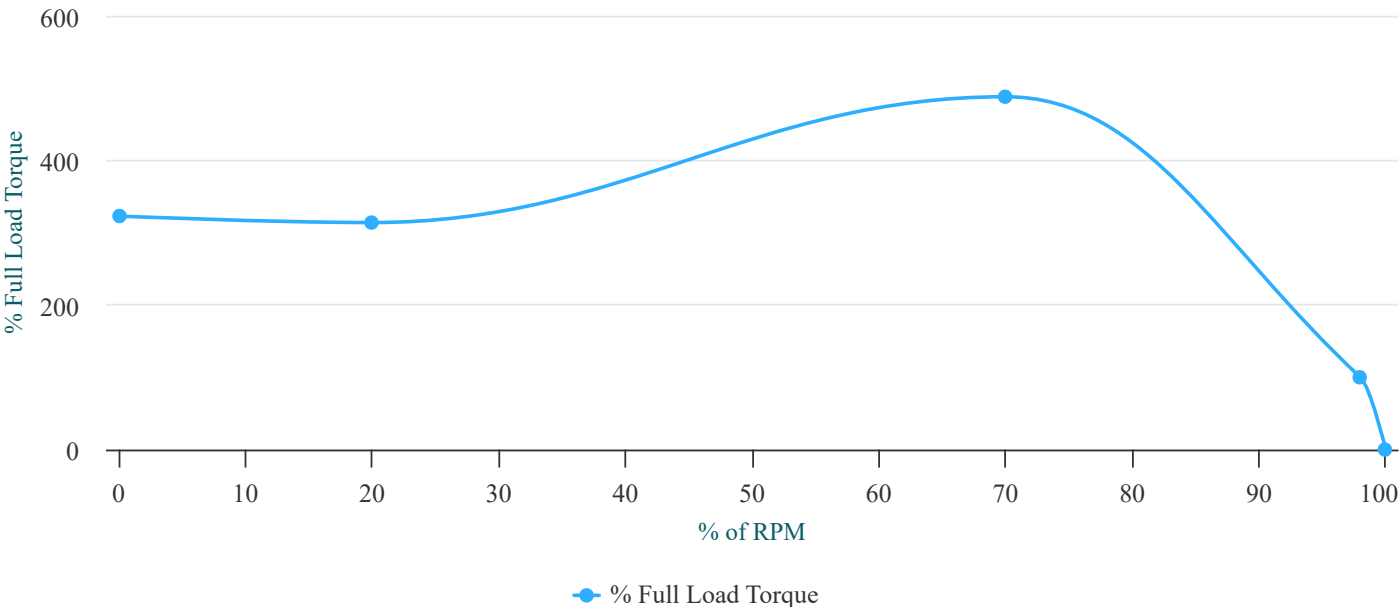
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

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Model SSB.504D-C
MFG PN: TSSF56C1/2U4B

Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	4.8	323	Start Configuration	DOL
Pull-Up Torque	4.7	314	Starting Current (A)	-
Breakdown Torque	7.3	488	No-Load Current (A)	0.8
Full Load Torque	1.5	100	No-Load Power Factor	-

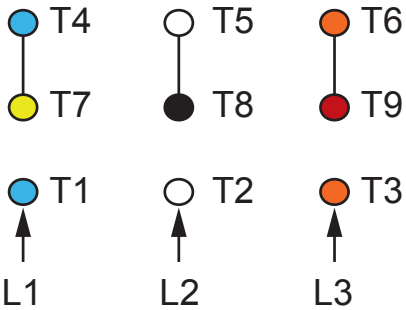
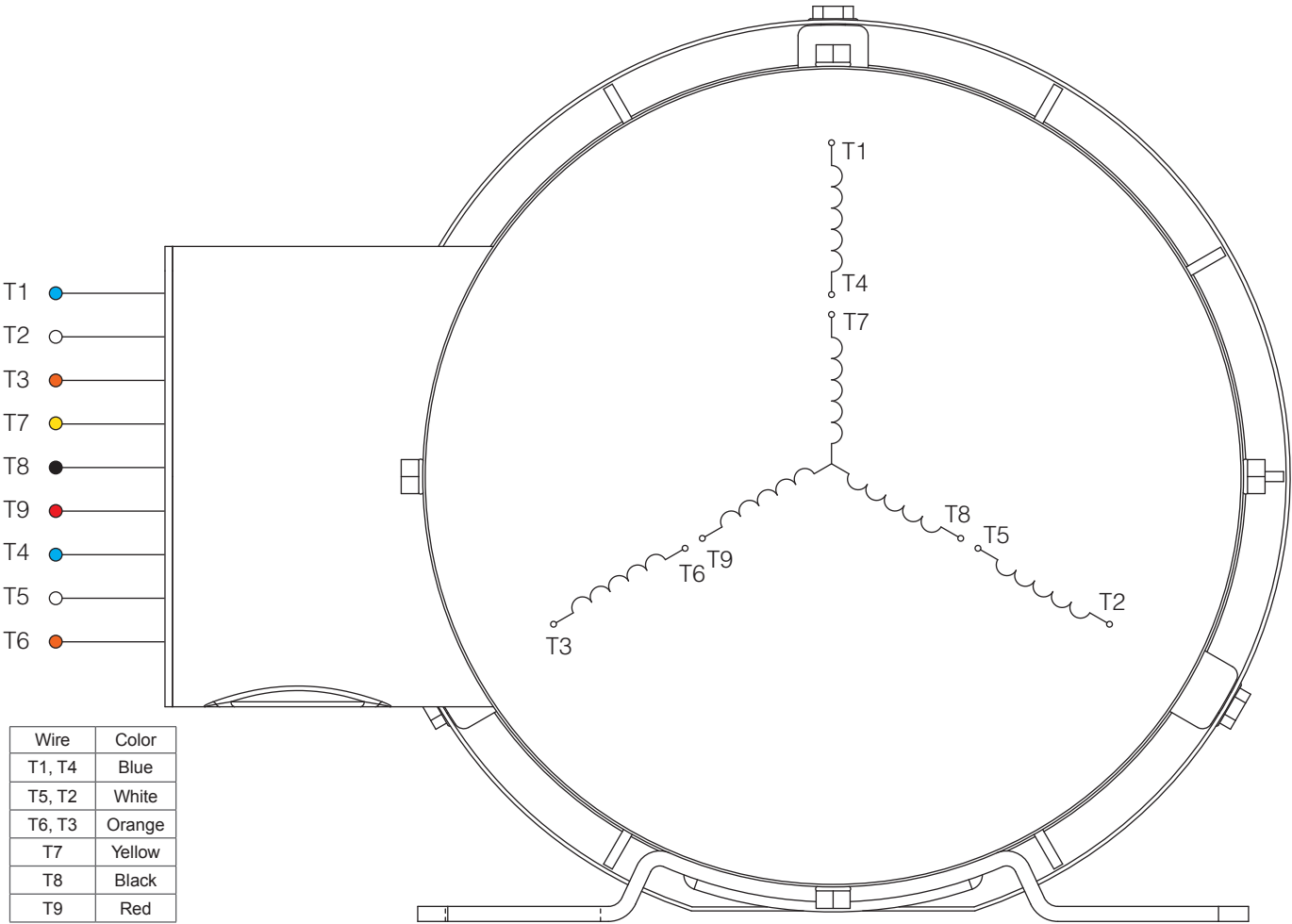
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	0.8	0.9	0.9	1.0	1.1	1.1
Efficiency (%)	56.6	71.3	77.5	80.5	82.0	82.0
Speed (r/min)	1791.0	1784.0	1777.0	1769.0	1761.0	1761.0
Power Factor (cosΦ)	0.25	0.39	0.50	0.60	0.67	0.67
Input Power (kW)	0.2	0.3	0.4	0.5	0.6	0.6

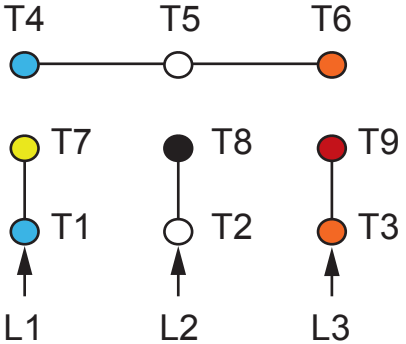
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Model **SSB.504D-C**
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HIGH VOLTAGE
(Y)



LOW VOLTAGE
(YY)

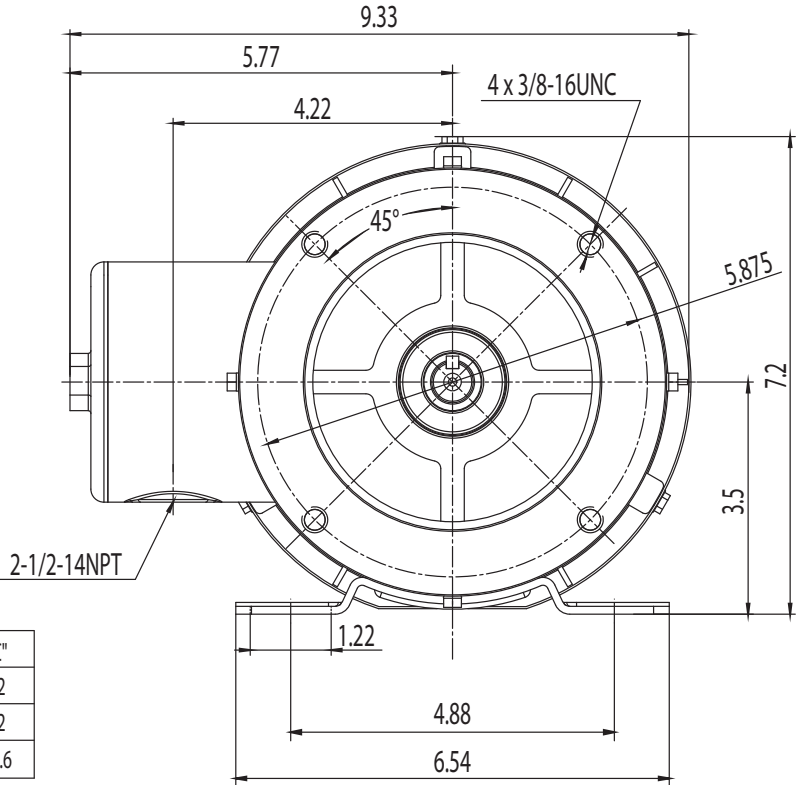
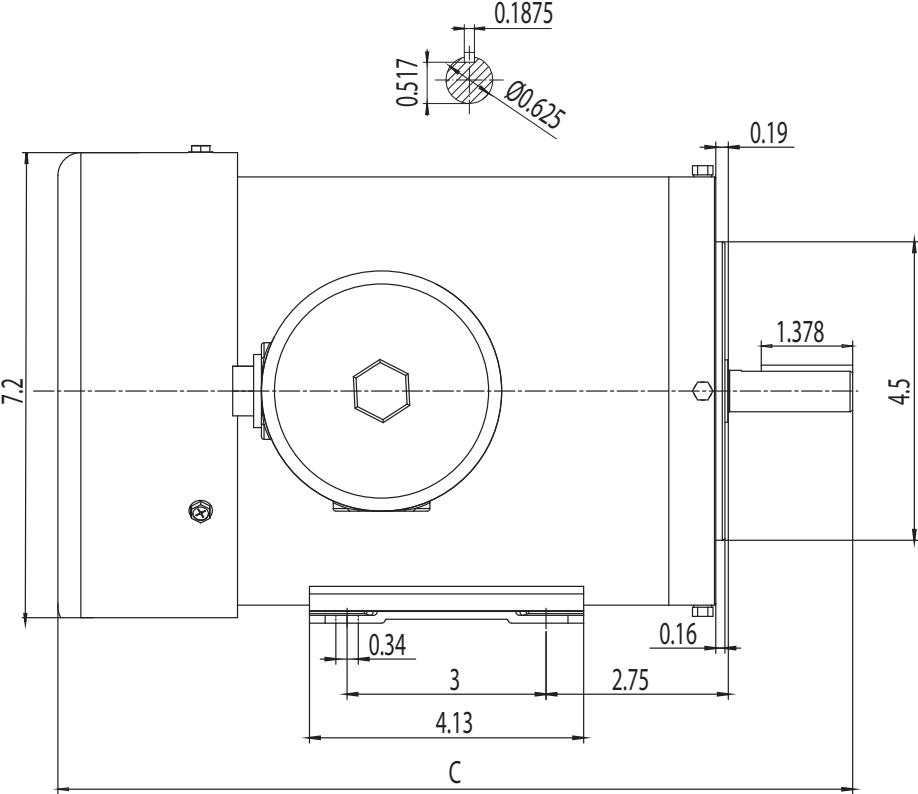
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED 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	13/11/25
STAINLESS STEEL IP69K MOTORS	



HP	"C"
0.5	12
0.75 2P	12
0.75 4P	12.6



NEMA Premium TEFC 56C

DRAWING NUMBER:	SS3-TF-56C	ISSUED DATE	13/11/25
DIMENSIONS:	Inches		
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Stainless Steel		STAINLESS STEEL IP69K MOTORS