

NEMA

Model SSG0014F-TC
MFG PN: TSSF140TC1.5U4B

Model SSG0014F-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSG0014F-TC	1.5	1750	575	3	60	140TC	Rigid/C-Flange	TEFC

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ELECTRICAL DATA		
Rated Motor Output Power	1.5	HP
	1.1	kW
Rated Motor Speed	1750	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	575	V/60Hz
	-	V/50Hz
Rated Motor Current	1.78	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	13.28	A (I _n) @ 60Hz
FI Current @ 208V	-	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	K	60Hz
	-	50Hz
Nominal Efficiency	86.5	% @ 60Hz
Nominal Power Factor	0.73	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	49.1	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	140TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	48.7 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	-	-

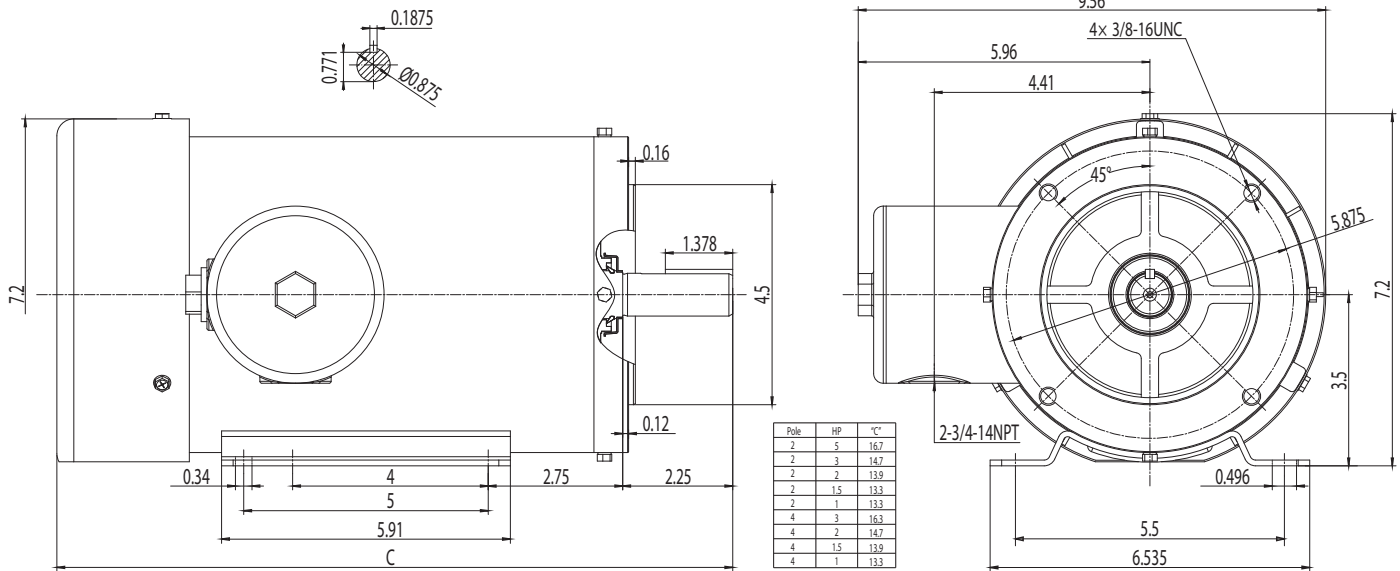
Questions? Call 1.888.286.1820

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



NEMA

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	1.5	-
RPM	1750	-
Voltage	575	-
Full Load Amps	1.78	-
Service Factor	1.25	-
KVA Code	K	-
Full Load Amps (208V)	-	-
Nominal Efficiency	86.5	-
Nominal Power Factor	0.73	-
Design	B	
Frame	140TC	
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)	48.7	

NAMEPLATE LAYOUT

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

TECHTOPCANADA.COM

MODEL PH 3 ENCL 60 HZ VOLT 60 HP 1.5 RPM 1750 FLA 1.78 S.F. 1.25 KVA 1.78 EFF. 86.5 P.F. 0.73

FRAME 140TC IP69K

MFG PN TSSF140TC1.5U4B

DATE 10/1/2019

DESIGN SSG0014F-TC

DUTY CONT. / S1

WEIGHT 48.7 lbs.

DE BRG 6205 ZZ

ODE BRG 6204 ZZ

CONNECTION DIAGRAM

T1 T2 T3
L1 L2 L3
LINE

TO REVERSE ROTATION INTERCHANGE ANY TWO LINE LEADS

USABLE AT 208V 60HZ FLA:

CE, NEMA, CULUS, E323353, 224663, INVERTER DUTY, 15:1 CONSTANT TORQUE, 30:1 VARIABLE TORQUE, 1.0 SERVICE FACTOR, CLASS 1, DIV 2, GROUPS A, B, C AND D COMPLIANT, MADE IN CHINA

VFD DUTY (S.F. 1.0)

Variable Torque
 Constant Torque

RATIO

30:1
 15:1

Hz*

2 - 60
 4 - 60

*For max speed please contact Techtop Canada

HAZARDOUS LOCATIONS

Class / Division
 Groups

CSA COMPLIANT

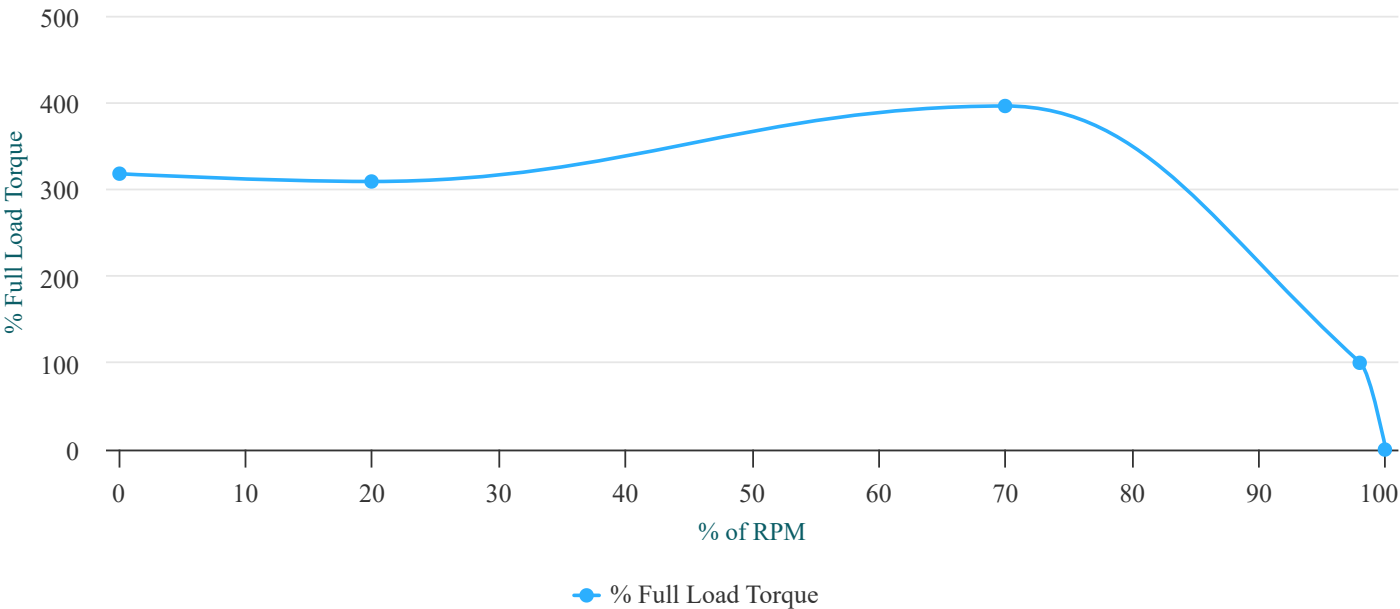
Class I, Division II
 A, B, C & D

Questions? Call 1.888.286.1820

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	14.3	318	Start Configuration	DOL
Pull-Up Torque	13.9	309	Starting Current (A)	13.28
Breakdown Torque	17.8	396	No-Load Current (A)	1.1
Full Load Torque	4.5	100	No-Load Power Factor	0.08

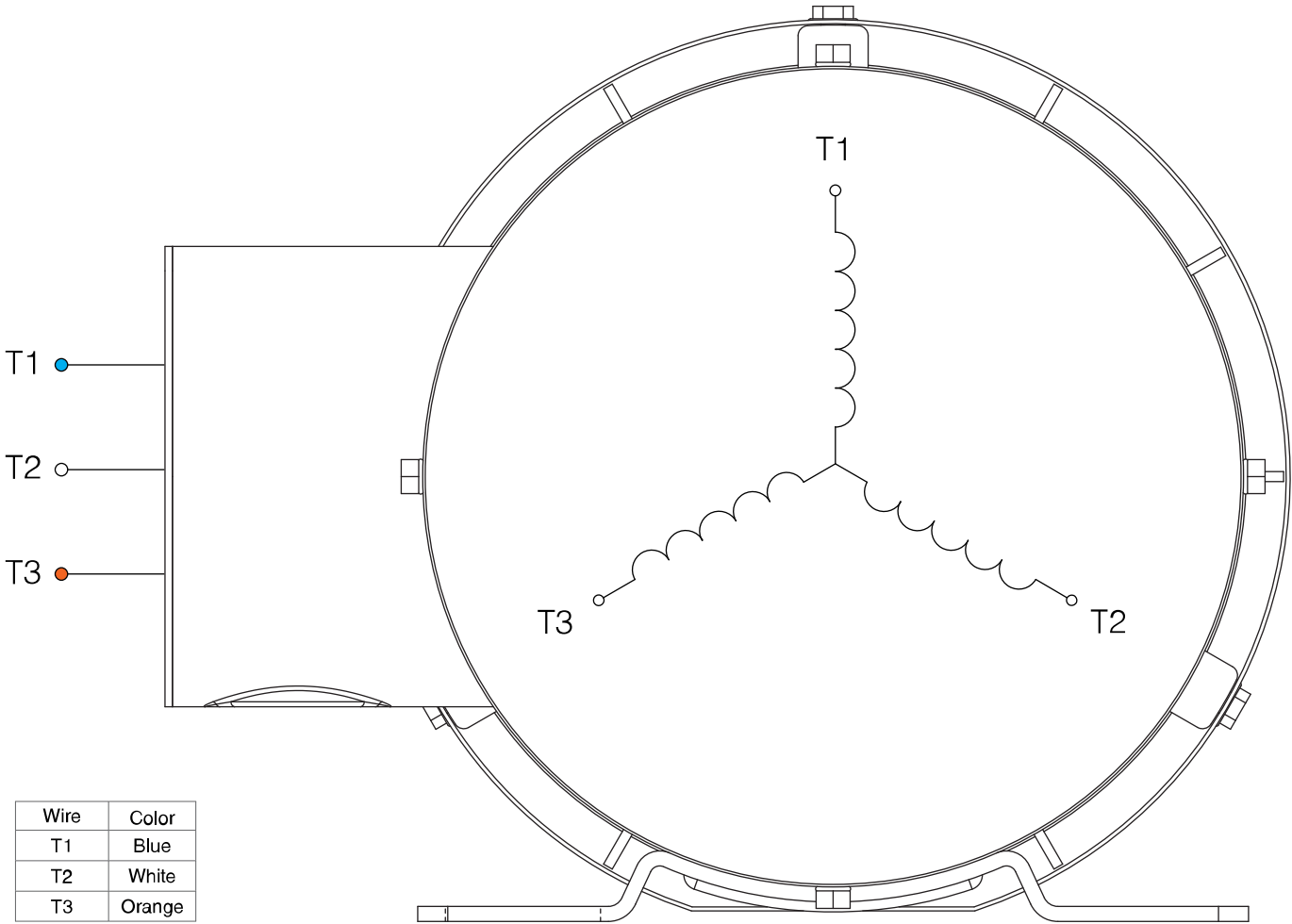
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.2	1.3	1.5	1.7	2.0	2.0
Efficiency (%)	74.4	83.5	86.0	86.4	85.8	85.8
Speed (r/min)	1787.0	1774.0	1761.0	1746.0	1730.0	1730.0
Power Factor (cosΦ)	0.32	0.51	0.65	0.74	0.80	0.80
Input Power (kW)	0.4	0.7	1.0	1.3	1.6	1.6

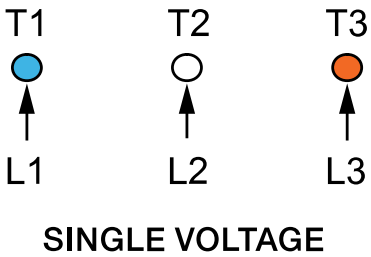
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Wire	Color
T1	Blue
T2	White
T3	Orange



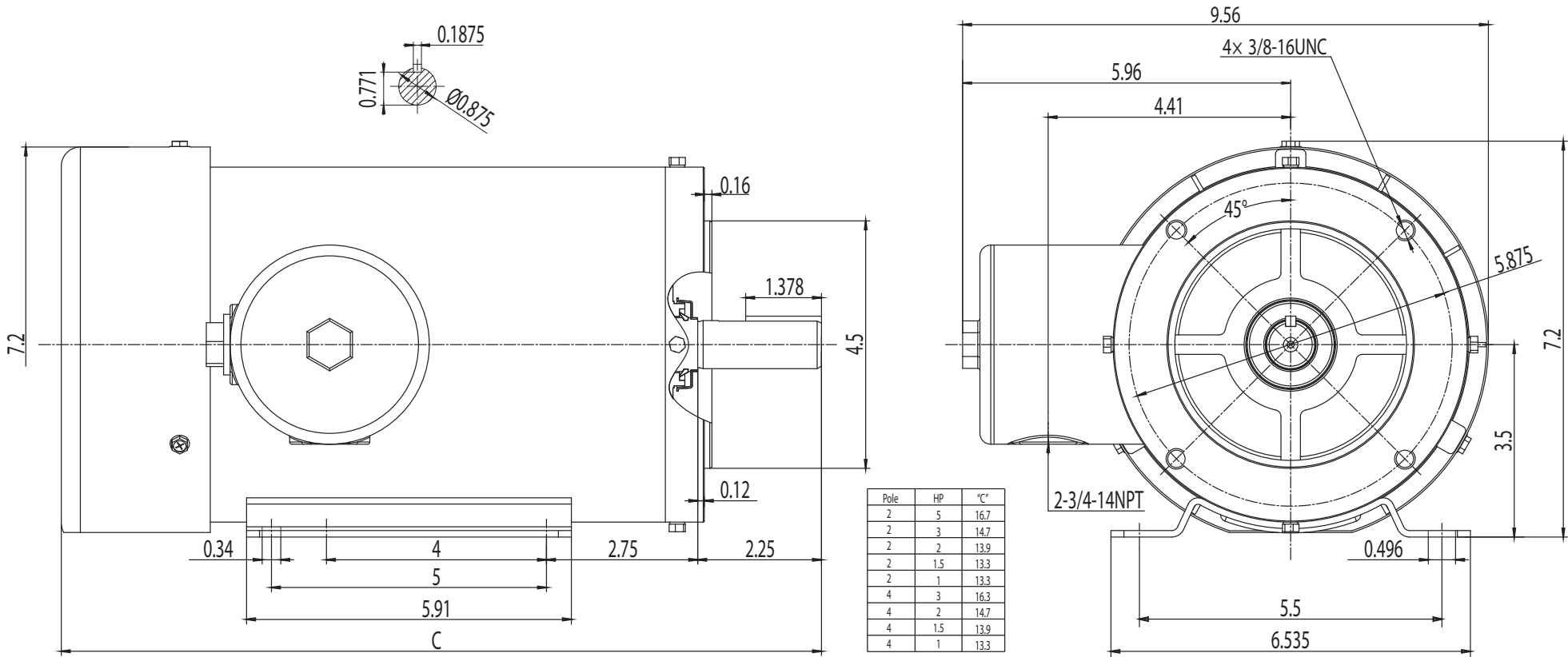
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
 - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
 - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
 - 4. LEADS MUST BE NUMBERED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



NEMA Premium TEFC 140TC

DRAWING NUMBER:	SS3-TF-140TC	ISSUED DATE	20/11/25
DIMENSIONS:	Inches	STAINLESS STEEL IP69K MOTORS	
MOUNTING:	Rigid/C-Flange		
CASING MATERIAL:	Stainless Steel		