

NEMA

Model SSG0032DS-TC
 MFG PN: TSSF140TC3U2B

Model SSG0032DS-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSG0032DS-TC	3	3510	230/460	3	60	140TC	Rigid/C-Flange	TEFC

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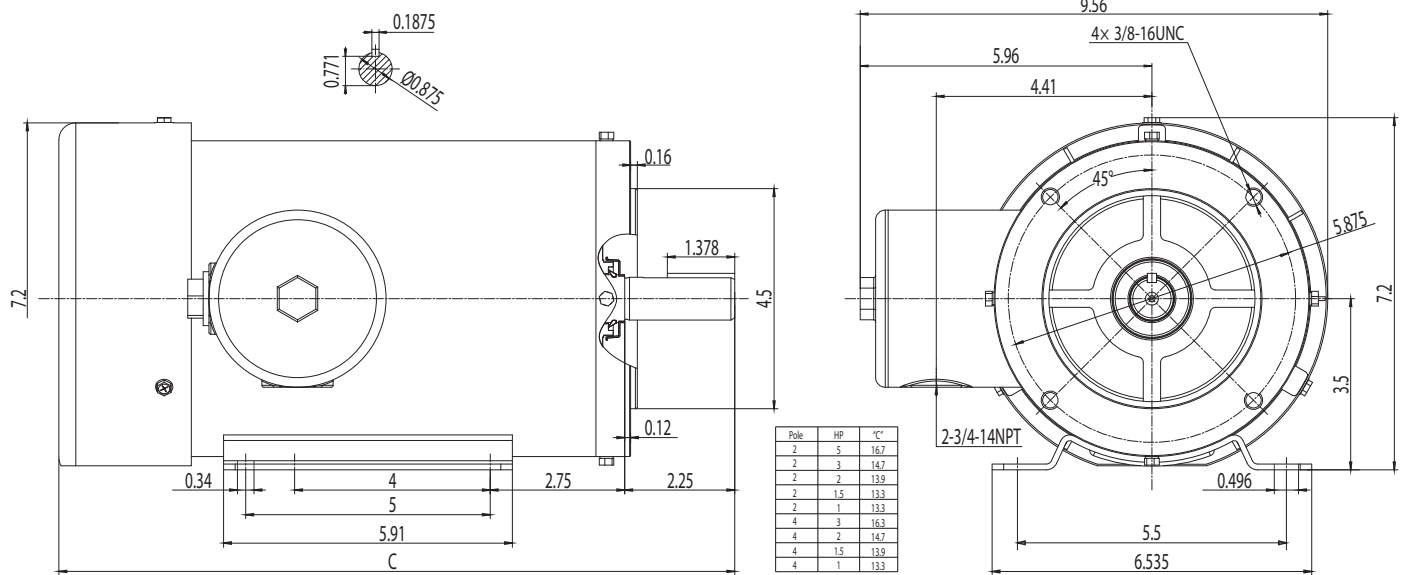
ELECTRICAL DATA		
Rated Motor Output Power	3	HP
	2.2	kW
Rated Motor Speed	3510	r/min 60Hz
	2880	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	7.55/3.78	A (I _n) @ 60Hz
	9.26/4.63	A (I _n) @ 50Hz
Phase	3	∅
Locked Rotor Current @ High Voltage	33.31	A (I _n) @ 60Hz
FI Current @ 208V	8.35	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	G	50Hz
Nominal Efficiency	86.5	% @ 60Hz
Nominal Power Factor	0.86	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	56.6	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	140TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	60 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-ft ²)	-	
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	-	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	3	3
RPM	3510	2880
Voltage	230/460	190/380
Full Load Amps	7.55/3.78	9.26/4.63
Service Factor	1.25	1
KVA Code	K	G
Full Load Amps (208V)	8.35	-
Nominal Efficiency	86.5	83.5
Nominal Power Factor	0.86	0.88
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)	60	

NAMEPLATE LAYOUT

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

MODEL: PH 3 ENCL 60 HZ 3 VOLT 60 HP 3510 RPM 1.25 S.F. K 8.35 EFF. RE. 86.5
 FRAME: IP69K 50 HZ 50 VOLT 50 HP 2880 RPM 1.0 S.F. G 4.63 EFF. PE. 83.5
 MFG PN: SER # DATE DESIGN INS CL DUTY AMB lbs. DE BRG ODE BRG

CONNECTION DIAGRAM
 LOW VOLTAGE: T4 T5 T6 T7 T8 T9
 HIGH VOLTAGE: T1 T2 T3 T4 T5 T6 T7 T8 T9
 L1 L2 L3 L1 L2 L3

USABLE AT 208V 60HZ FLA:
 NEMA E32353 IEC 224683 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)	RATIO	Hz*
Variable Torque	30:1	2 - 60
Constant Torque	15:1	4 - 60

*For max speed please contact Techtop Canada

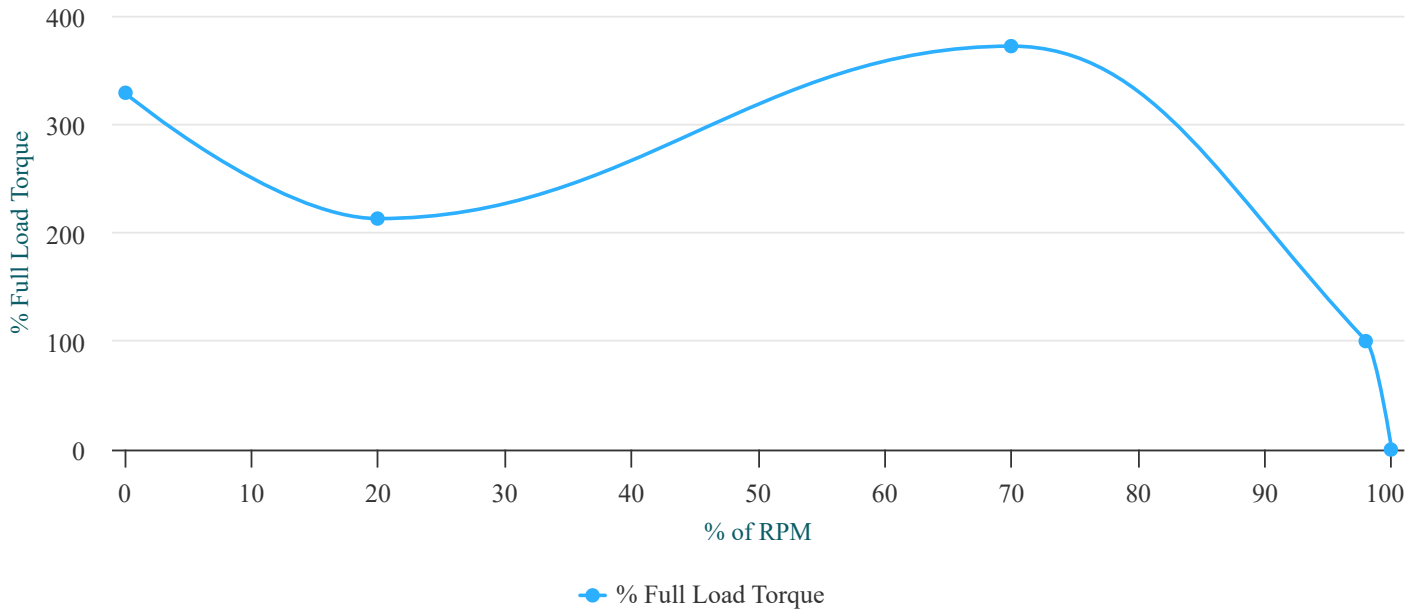
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class 1, Div. 2
Groups	A, B, C & D

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Torque Speed (T-n) Curve



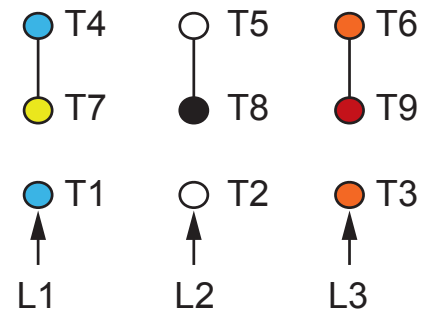
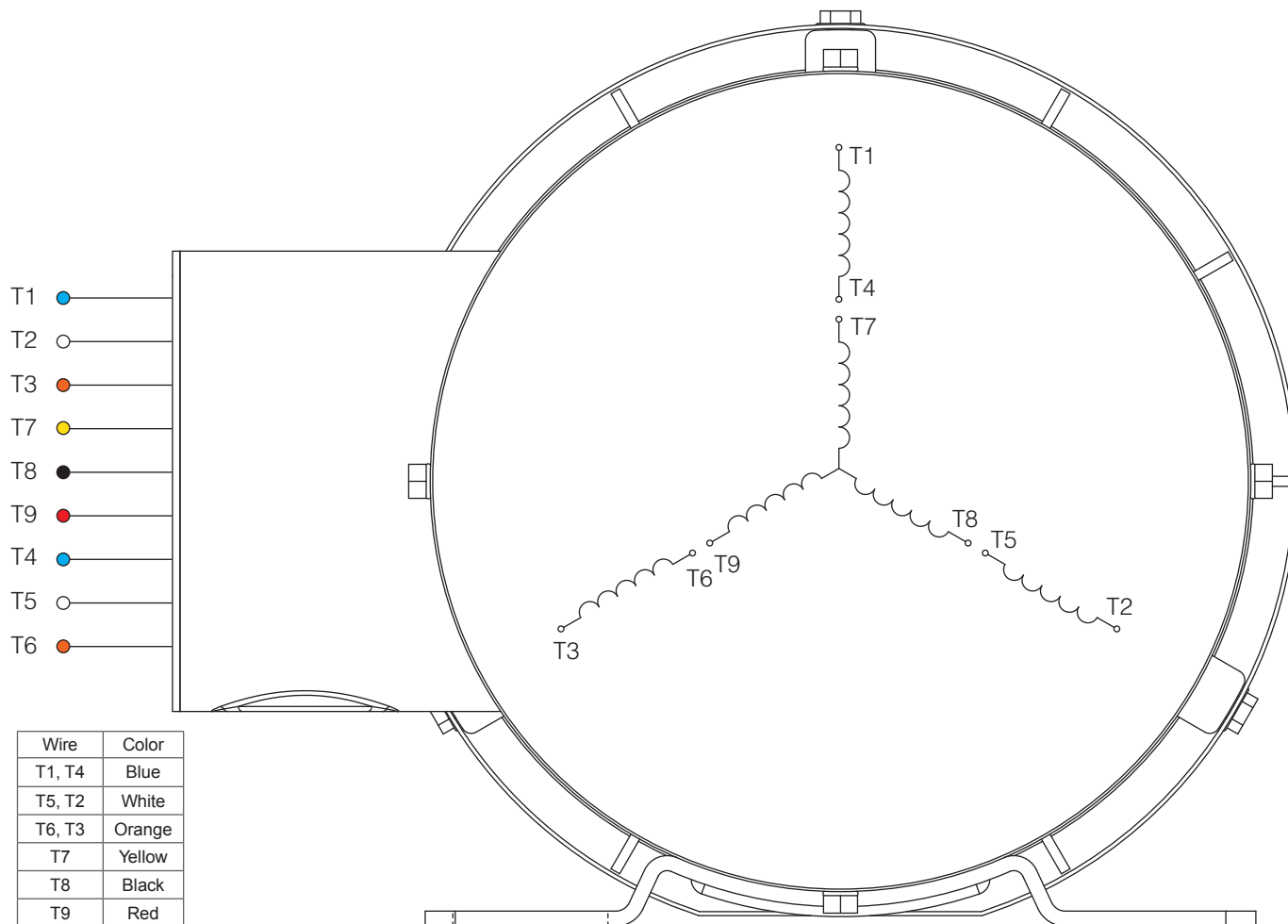
PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

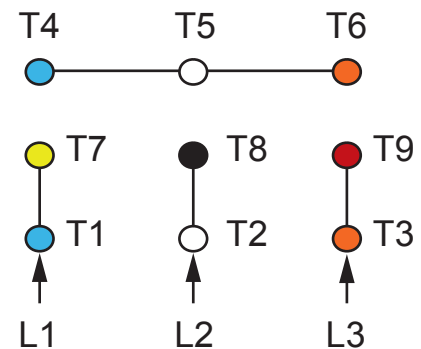
TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)	PERFORMANCE VALUES	
Locked Rotor Torque	4.5	329	Start Configuration	DOL
Pull-Up Torque	9.6	213	Starting Current (A)	33.31
Breakdown Torque	16.7	372	No-Load Current (A)	1.2
Full Load Torque	14.8	100	No-Load Power Factor	0.11

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.4	2	2.7	3.5	4.3	4.3
Efficiency (%)	82.6	88	88.8	88.2	86.9	86.9
Speed (r/min)	3573	3549	3521	3491	3458	3458
Power Factor (cosΦ)	0.59	0.79	0.87	0.91	0.92	0.92
Input Power (kW)	0.67	1.25	1.86	2.49	3.17	3.17

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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

CONNECTION:

YY/Y

NUMBER OF LEADS:

9

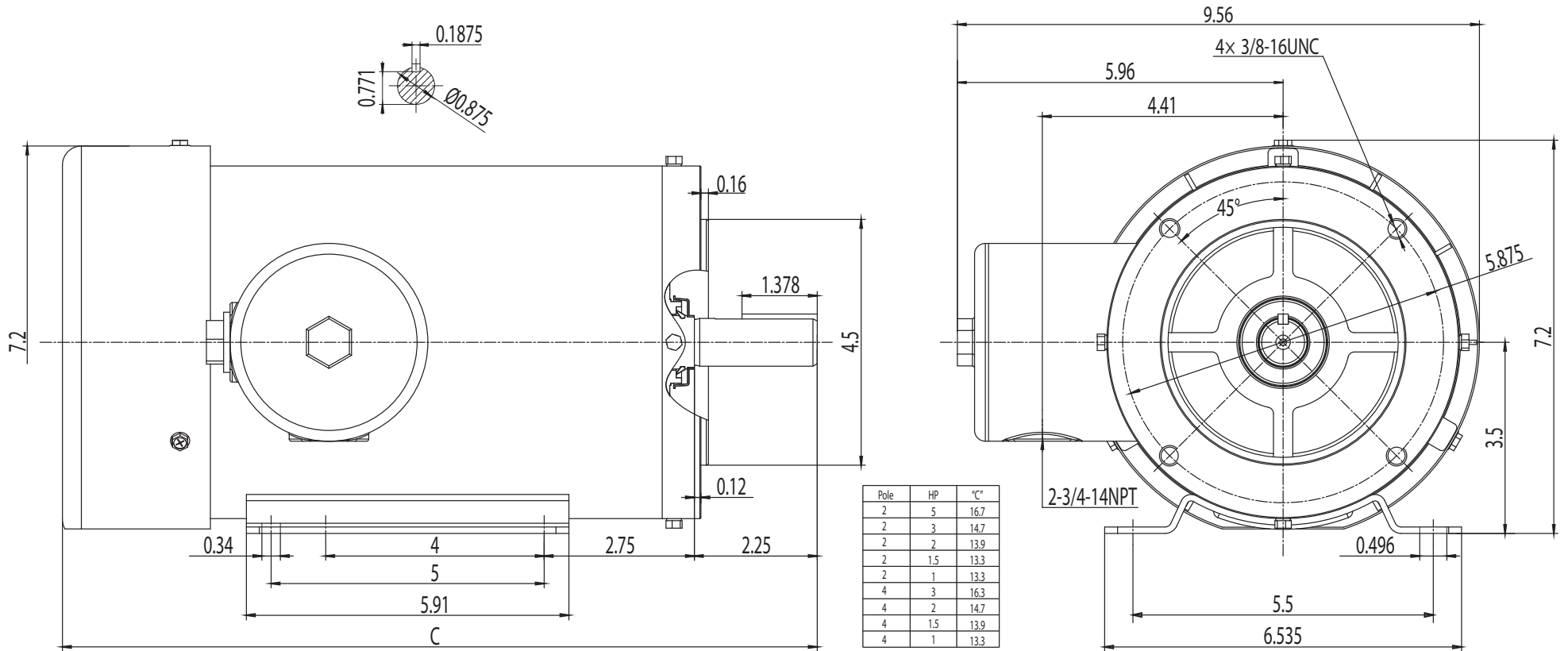
THERMAL PROTECTION:

-

ISSUED DATE

24/02/25

STAINLESS STEEL IP69K MOTORS



NEMA Premium TEFC 140TC

DRAWING NUMBER:

SS3-TF-140TC

ISSUED DATE

24/02/25

DIMENSIONS:

Inches

MOUNTING:

Rigid/C-Flange

CASING MATERIAL:

Stainless Steel

STAINLESS STEEL IP69K MOTORS