

NEMA

Model SSG0024D-TC
MFG PN: TSSF140TC2U4B

Model SSG0024D-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSG0024D-TC	2	1750	230/460	3	60	140TC	Rigid/C-Flange	TEFC

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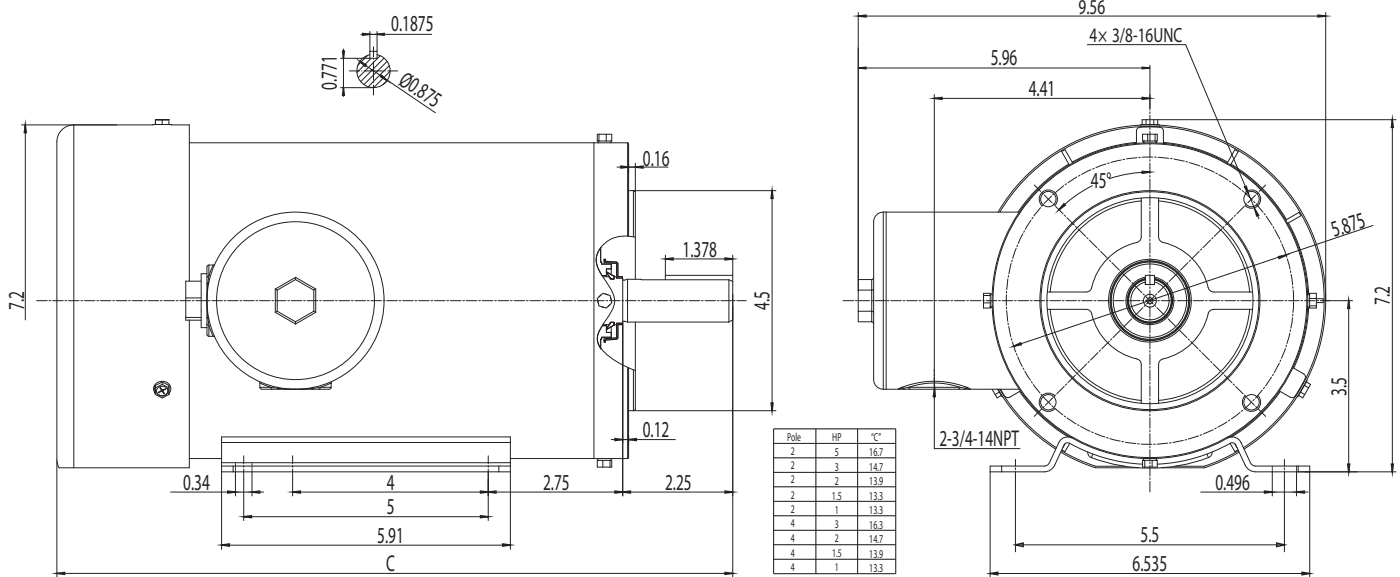
ELECTRICAL DATA		
Rated Motor Output Power	2	HP
	1.5	kW
Rated Motor Speed	1750	r/min 60Hz
	1430	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	190/380	V/50Hz
Rated Motor Current	5.77/2.89	A (I _n) @ 60Hz
	6.79/3.39	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	22.55	A (I _n) @ 60Hz
FI Current @ 208V	6.38	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	1	@ 50Hz
KVA Code	K	60Hz
	H	50Hz
Nominal Efficiency	86.5	% @ 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	56.3	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	140TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	54.9 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

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	2	2
RPM	1750	1430
Voltage	230/460	190/380
Full Load Amps	5.77/2.89	6.79/3.39
Service Factor	1.25	1
KVA Code	K	H
Full Load Amps (208V)	6.38	-
Nominal Efficiency	86.5	83.5
Nominal Power Factor	0.75	0.8
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)	54.9	

NAMEPLATE LAYOUT

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

MODEL PH 3 ENCL 60 HZ VOLT 60 HP 1750 RPM FLA 5.77 S.F. 1.25 EFF. 86.5 P.F. 0.75

FRAME 140TC IP69K MFG PN TSSF140TC2U4B

DATE 10/1/2019 DESIGN 1000 INS CL F DUTY CONT. WEIGHT 54.9 LBS DE BRG 6205 ZZ ODE BRG 6204 ZZ

CONNECTION DIAGRAM

LOW VOLTAGE T4 T5 T6 T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T26 T27 T28 T29 T30 T31 T32 T33 T34 T35 T36 T37 T38 T39 T40 T41 T42 T43 T44 T45 T46 T47 T48 T49 T50 T51 T52 T53 T54 T55 T56 T57 T58 T59 T60 T61 T62 T63 T64 T65 T66 T67 T68 T69 T70 T71 T72 T73 T74 T75 T76 T77 T78 T79 T80 T81 T82 T83 T84 T85 T86 T87 T88 T89 T90 T91 T92 T93 T94 T95 T96 T97 T98 T99 T100

INVERTER DUTY 15:1 CONSTANT TORQUE 10:1 VARIABLE TORQUE 1.0 SERVICE FACTOR

CE NEMA C1A US E323353 224663 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

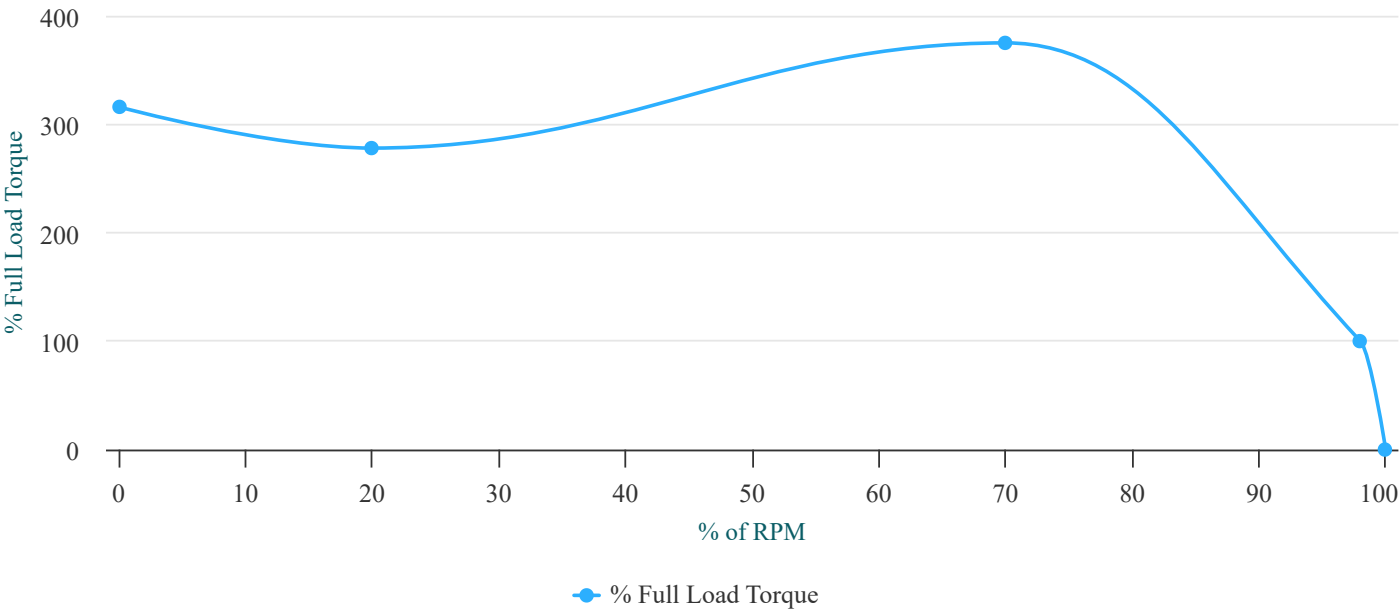
HAZARDOUS LOCATIONS	CSA COMPLIANT
Class / Division	Class I, Division II
Groups	A, B, C & D

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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	19	316	Start Configuration	DOL
Pull-Up Torque	16.7	278	Starting Current (A)	22.55
Breakdown Torque	22.5	375	No-Load Current (A)	1.8
Full Load Torque	6	100	No-Load Power Factor	0.08

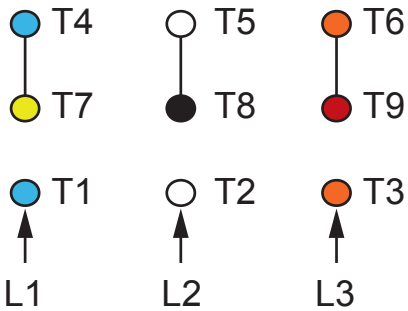
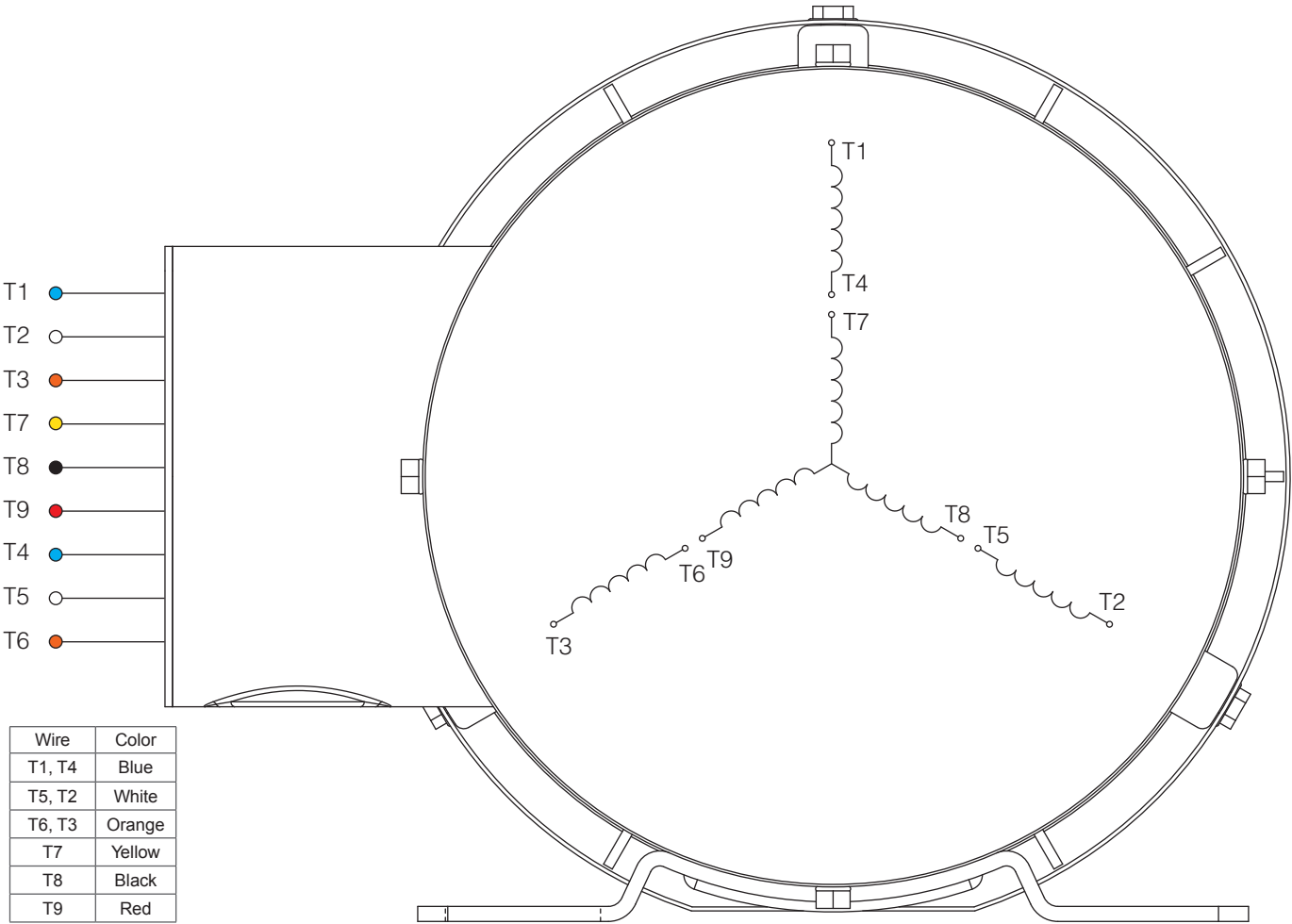
TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	1.8	2.1	2.4	2.8	3.4	3.4
Efficiency (%)	76.5	84.7	86.7	86.8	86.0	86.0
Speed (r/min)	1788.0	1776.0	1763.0	1749.0	1733.0	1733.0
Power Factor (cosΦ)	0.34	0.54	0.68	0.76	0.81	0.81
Input Power (kW)	0.5	0.9	1.3	1.7	2.2	2.2

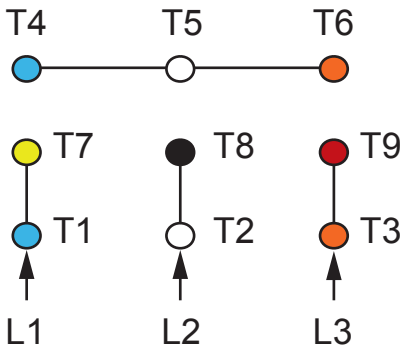
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HIGH VOLTAGE
(Y)



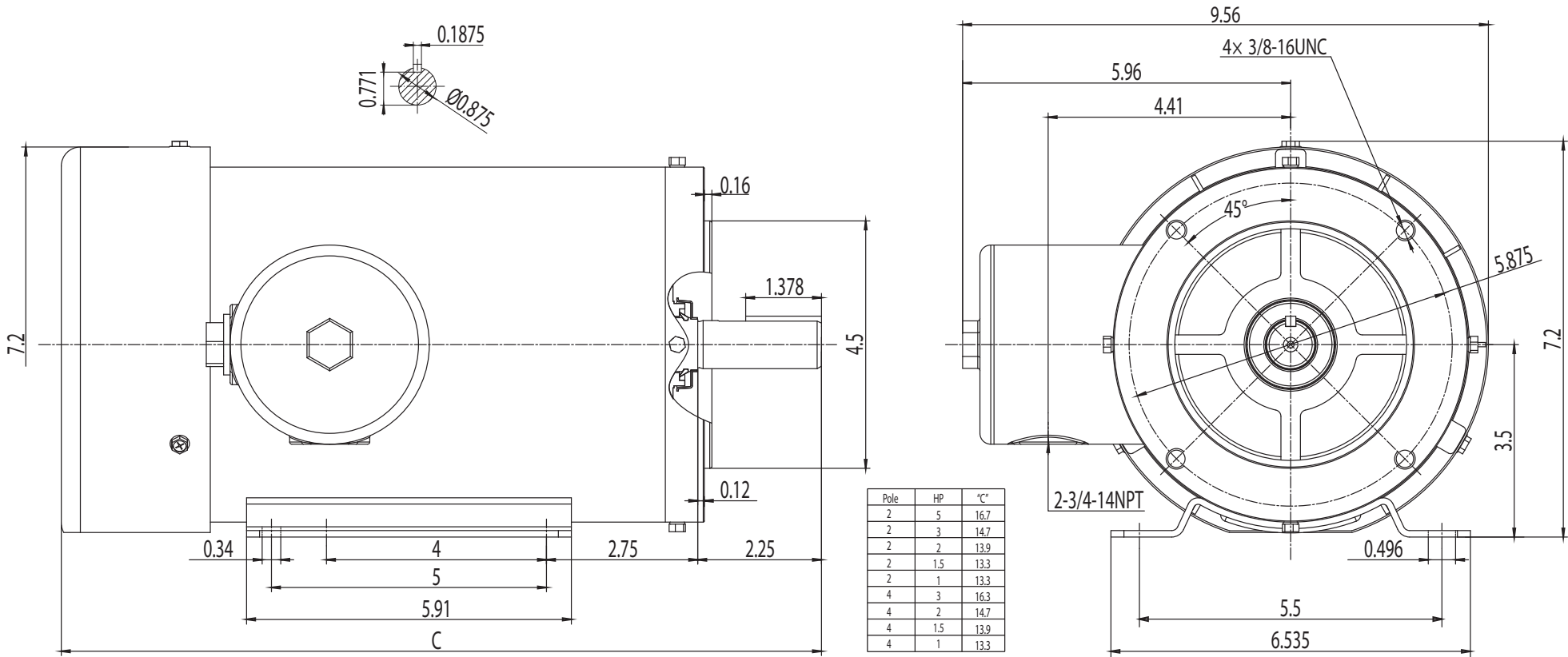
LOW VOLTAGE
(YY)

- 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:	-		



NEMA Premium TEFC 140TC

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