

NEMA

Model SSG0034DS-TC
MFG PN: TSSF140TC3U4B

Model SSG0034DS-TC

Product Data Package



MODEL	HP	RPM	VOLTAGE	PHASE	Hz	FRAME	MOUNT	ENCLOSURE
SSG0034DS-TC	3	1750	230/460	3	60	140TC	Rigid/C-Flange	TEFC

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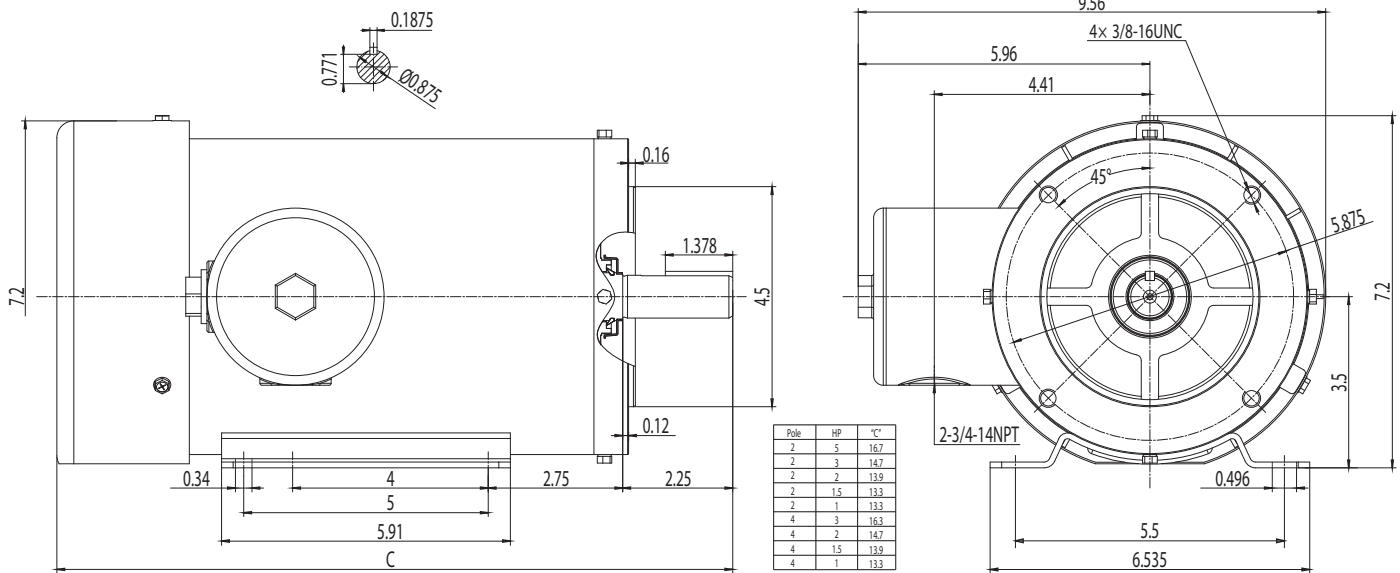
ELECTRICAL DATA		
Rated Motor Output Power	3	HP
	2.2	kW
Rated Motor Speed	1750	r/min 60Hz
	-	r/min 50Hz
Rated Motor Voltage (+/-10%)	230/460	V/60Hz
	-	V/50Hz
Rated Motor Current	8.37/4.18	A (I _n) @ 60Hz
	-	A (I _n) @ 50Hz
Phase	3	Ø
Locked Rotor Current @ High Voltage	-	A (I _n) @ 60Hz
FI Current @ 208V	9.25	A (I _n) @ 60Hz
Service Factor	1.25	@ 60Hz
	-	@ 50Hz
KVA Code	L	60Hz
	-	50Hz
Nominal Efficiency	89.5	% @ 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	67.7	°C @ 60Hz
	-	°C @ 50Hz

GENERAL DATA		
Frame Size	140TC	
Enclosure	TEFC	
Mounting	Rigid/C-Flange	
Approximate Weight (lbs.)	69.5 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	-	-

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NAMEPLATE DATA	60Hz	50Hz
Horse Power	3	-
RPM	1750	-
Voltage	230/460	-
Full Load Amps	8.37/4.18	-
Service Factor	1.25	-
KVA Code	L	-
Full Load Amps (208V)	9.25	-
Nominal Efficiency	89.5	-
Nominal Power Factor	0.75	-
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)	69.5	

NAMEPLATE LAYOUT

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

MODEL PH 3 ENCL 60 FRAME 50 IP69K MFG PN
 HZ 60 HZ 50
 VOLT 60 VOLT 50
 HP 60 HP 50
 RPM 60 RPM 50
 FLA 60 FLA 50
 S.F. 60 S.F. 50
 KVA 60 KVA 50
 EFF. 60 EFF. 50
 P.F. 60 P.F. 50

DATE _____
 DESIGN _____
 DUTY _____
 WEIGHT _____
 DE BRG _____
 ODE BRG _____

CONNECTION DIAGRAM
 LOW VOLTAGE HIGH VOLTAGE
 T4 T5 T6 T4 T5 T6
 C O C O C O
 Q77 Q78 Q79 T77 T78 T79
 Q71 Q72 Q73 T71 T72 T73
 L1 L2 L3 L1 L2 L3
 LINE LINE
 TO REVERSE ROTATION INTERCHANGE ANY TWO LINE LEADS

INVERTER DUTY
 15:1 CONSTANT TORQUE
 10:1 VARIABLE TORQUE
 0.75 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

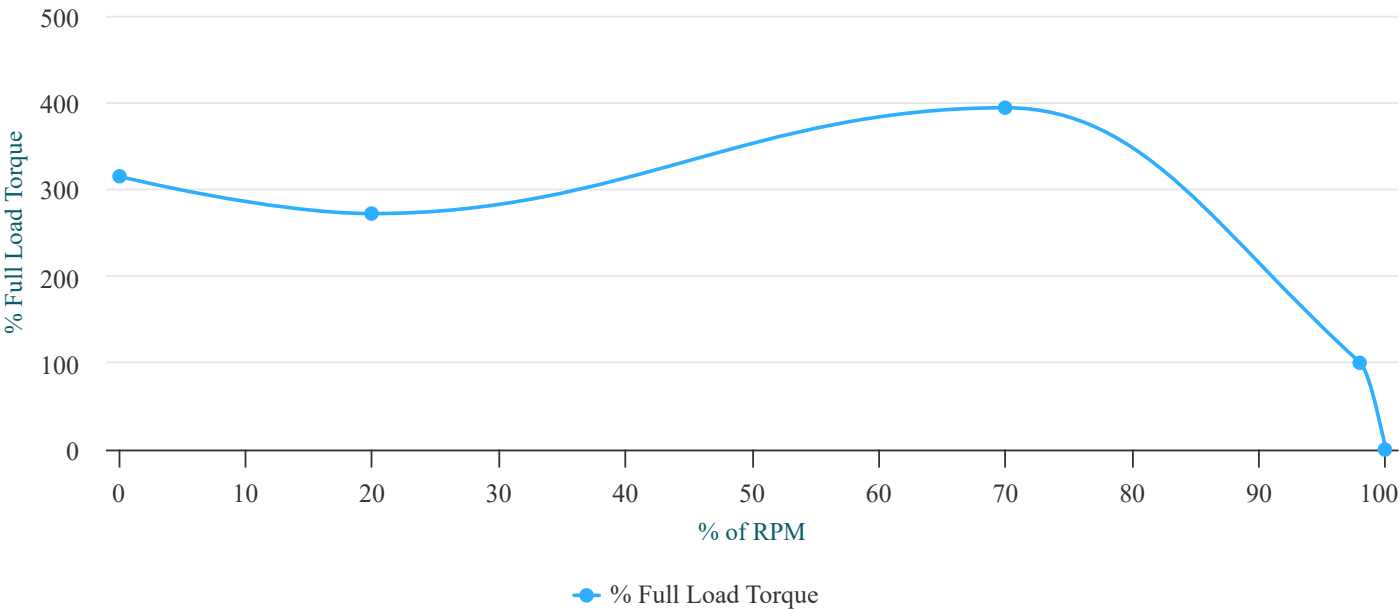
Class I, Division II
A, B, C & D

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Torque Speed (T-n) Curve



PERFORMANCE LOAD VALUES, HIGH VOLTAGE, 60Hz

TORQUE VALUES	TORQUE (lb-ft)	TORQUE (% FULL LOAD)
Locked Rotor Torque	28.4	315
Pull-Up Torque	24.5	272
Breakdown Torque	35.5	394
Full Load Torque	9	100

TYPICAL PERFORMANCE - NOT GUARANTEED VALUES

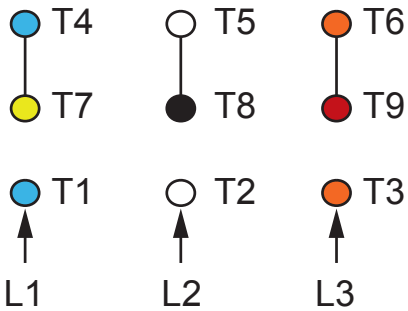
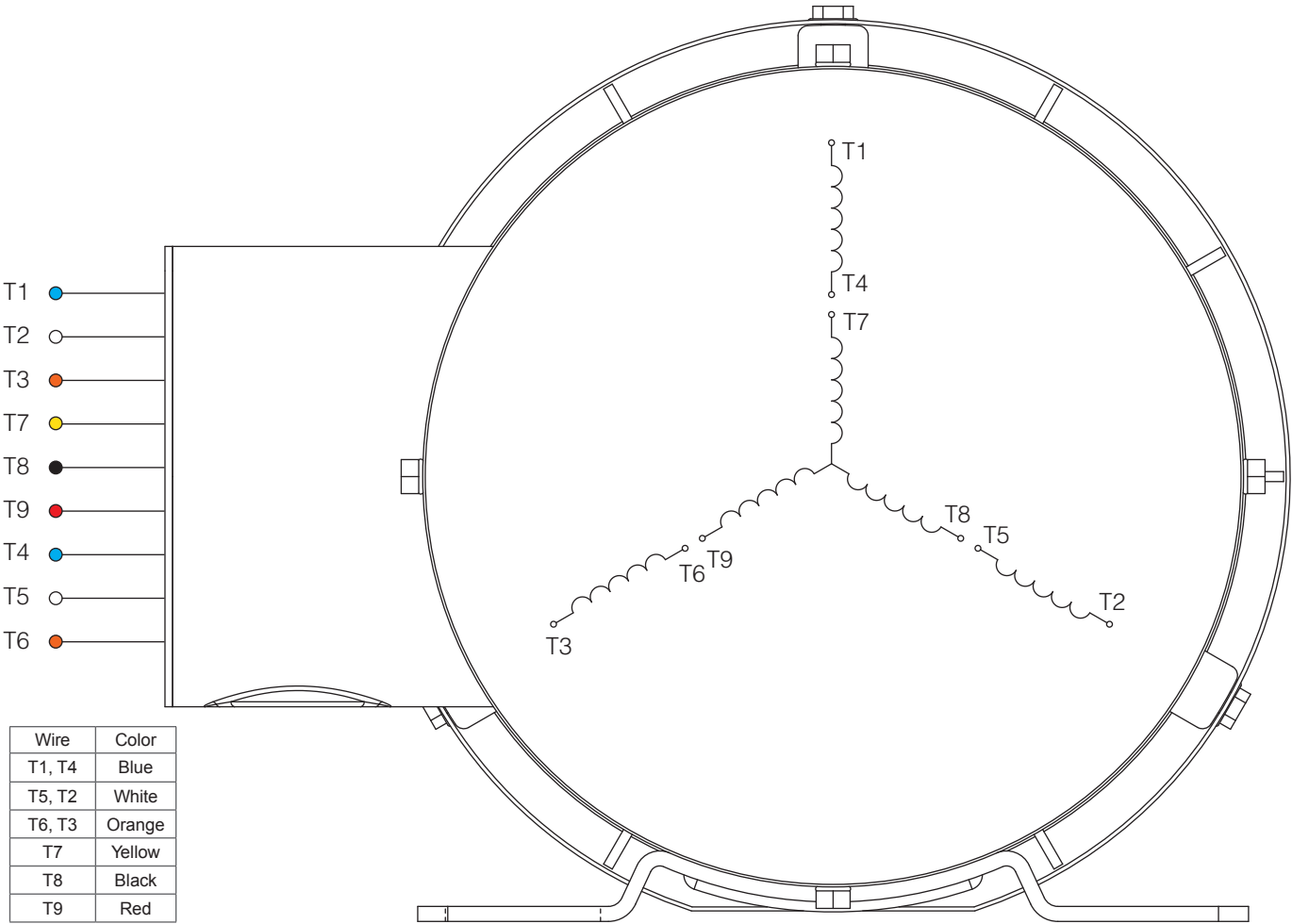
PERFORMANCE VALUES	
Start Configuration	DOL
Starting Current (A)	-
No-Load Current (A)	2.6
No-Load Power Factor	-

% OF RATED LOAD	25	50	75	100	125	S.F. 1.25
Line Amperes (A)	2.7	3.0	3.5	4.2	4.9	4.9
Efficiency (%)	78.1	85.8	87.6	87.7	86.9	86.9
Speed (r/min)	1788.0	1777.0	1764.0	1751.0	1736.0	1736.0
Power Factor (cosΦ)	0.33	0.53	0.67	0.76	0.81	0.81
Input Power (kW)	0.7	1.3	1.9	2.5	3.2	3.2

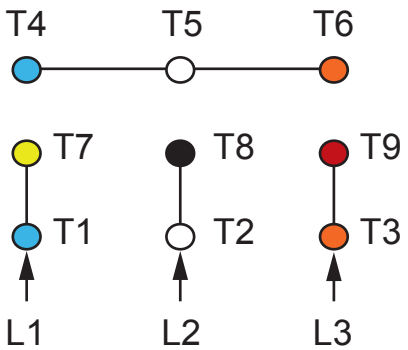
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HIGH VOLTAGE
(Y)



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	21/11/25
CONNECTION:	YY/Y	STAINLESS STEEL IP69K MOTORS	
NUMBER OF LEADS:	9		
THERMAL PROTECTION:	-		

