

**NEMA**

**Model SSG0012F-TC**  
MFG PN: TSSF140TC1.5U2B

# Model SSG0012F-TC

## Product Data Package



| MODEL       | HP  | RPM  | VOLTAGE | PHASE | Hz | FRAME | MOUNT          | ENCLOSURE |
|-------------|-----|------|---------|-------|----|-------|----------------|-----------|
| SSG0012F-TC | 1.5 | 3510 | 575     | 3     | 60 | 140TC | Rigid/C-Flange | TEFC      |

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### Index

|                               |     |
|-------------------------------|-----|
| Motor General Data Sheet      | P 2 |
| Nameplate Information         | P 3 |
| Technical Performance Data    | P 4 |
| Motor General Wiring Diagram  | P 5 |
| Motor General Outline Drawing | P 6 |

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| ELECTRICAL DATA                     |       |                            |
|-------------------------------------|-------|----------------------------|
| Rated Motor Output Power            | 1.5   | HP                         |
|                                     | 1.1   | kW                         |
| Rated Motor Speed                   | 3510  | r/min 60Hz                 |
|                                     | -     | r/min 50Hz                 |
| Rated Motor Voltage (+/-10%)        | 575   | V/60Hz                     |
|                                     | -     | V/50Hz                     |
| Rated Motor Current                 | 1.65  | A (I <sub>n</sub> ) @ 60Hz |
|                                     | -     | A (I <sub>n</sub> ) @ 50Hz |
| Phase                               | 3     | Ø                          |
| Locked Rotor Current @ High Voltage | 12.67 | A (I <sub>n</sub> ) @ 60Hz |
| FI Current @ 208V                   | -     | A (I <sub>n</sub> ) @ 60Hz |
| Service Factor                      | 1.25  | @ 60Hz                     |
|                                     | -     | @ 50Hz                     |
| KVA Code                            | L     | 60Hz                       |
|                                     | -     | 50Hz                       |
| Nominal Efficiency                  | 84    | % @ 60Hz                   |
| Nominal Power Factor                | 0.81  | 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          | 32    | °C @ 60Hz                  |
|                                     | -     | °C @ 50Hz                  |

| GENERAL DATA                        |                                |                 |
|-------------------------------------|--------------------------------|-----------------|
| Frame Size                          | 140TC                          |                 |
| Enclosure                           | TEFC                           |                 |
| Mounting                            | Rigid/C-Flange                 |                 |
| Approximate Weight (lbs.)           | 43.5 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                    | -                              | -               |

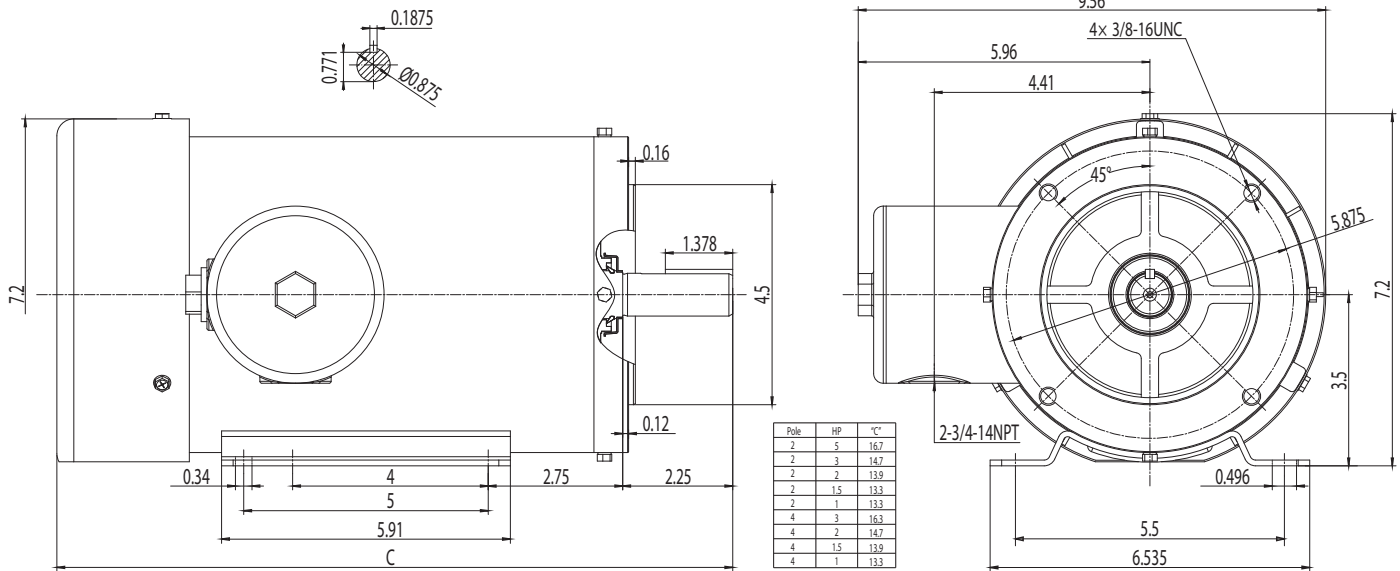
**Questions? Call 1.888.286.1820**

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



**NEMA**

**Model SSG0012F-TC**  
**MFG PN: TSSF140TC1.5U2B**



| NAMEPLATE DATA             | 60Hz       | 50Hz |
|----------------------------|------------|------|
| Horse Power                | 1.5        | -    |
| RPM                        | 3510       | -    |
| Voltage                    | 575        | -    |
| Full Load Amps             | 1.65       | -    |
| Service Factor             | 1.25       | -    |
| KVA Code                   | L          | -    |
| Full Load Amps (208V)      | -          | -    |
| Nominal Efficiency         | 84         | -    |
| Nominal Power Factor       | 0.81       | -    |
| 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)               | 43.5       |      |

**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 SER #  
 VOLT 60 VOLT 50 DATE  
 HP HP DESIGN INS CL  
 RPM RPM DUTY AMB  
 FLA FLA WEIGHT lbs.  
 S.F. S.F. DE BRG  
 KVA KVA ODE BRG  
 EFF. P.F. EFF. P.F.

USABLE AT 208V 60HZ FLA:

CE CULUS INVERTER DUTY 15:1 CONSTANT TORQUE 10:1 VARIABLE TORQUE 1.0 SERVICE FACTOR CLASS 1, DIV 2, GROUPS A, B, C AND D COMPLIANT MADE IN CHINA

CONNECTION DIAGRAM  
 T1 T2 T3  
 L1 L2 L3  
 LINE  
 TO REVERSE ROTATION INTERCHANGE ANY TWO LINE LEADS

| 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

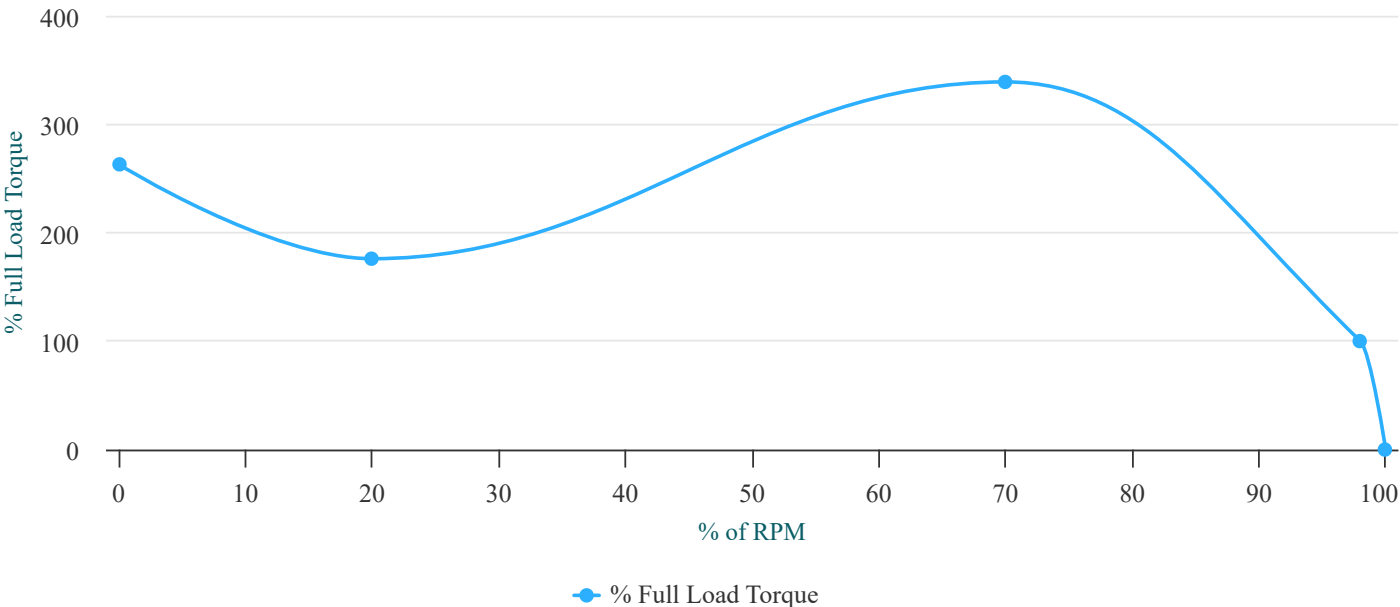
| HAZARDOUS LOCATIONS | CSA COMPLIANT   |
|---------------------|-----------------|
| Class / Division    | Class I, Div. 2 |
| Groups              | A, B, C & D     |

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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 | 2.2            | 263                  | Start Configuration  | DOL   |
| Pull-Up Torque      | 4              | 176                  | Starting Current (A) | 12.67 |
| Breakdown Torque    | 7.6            | 339                  | No-Load Current (A)  | 0.6   |
| Full Load Torque    | 5.9            | 100                  | No-Load Power Factor | 0.16  |

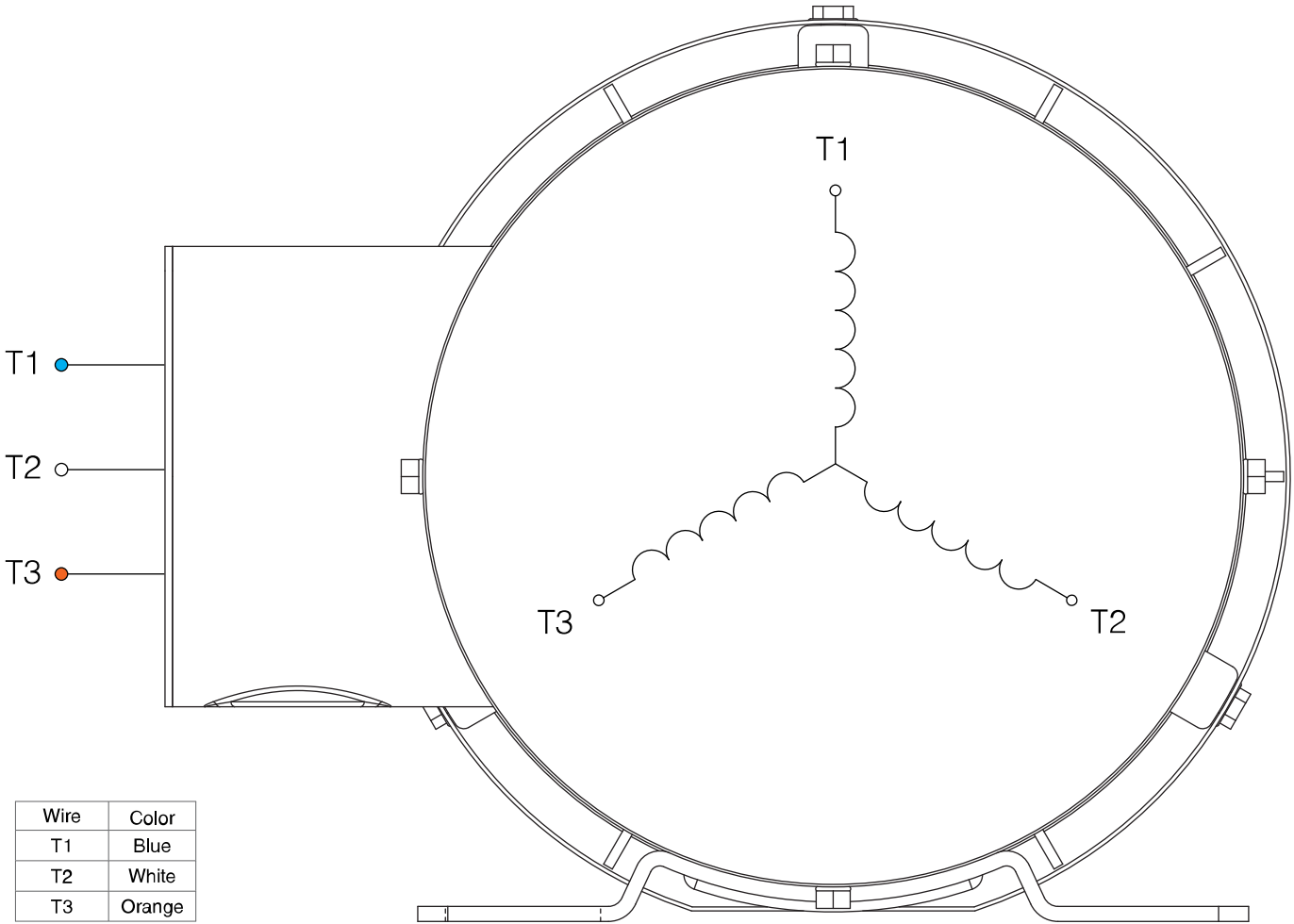
**TYPICAL PERFORMANCE - NOT GUARANTEED VALUES**

| % OF RATED LOAD     | 25   | 50   | 75   | 100  | 125  | S.F. 1.25 |
|---------------------|------|------|------|------|------|-----------|
| Line Amperes (A)    | 0.7  | 0.9  | 1.2  | 1.5  | 1.8  | 1.8       |
| Efficiency (%)      | 73.6 | 82.7 | 85.2 | 85.5 | 84.9 | 84.9      |
| Speed (r/min)       | 3574 | 3552 | 3527 | 3500 | 3470 | 3470      |
| Power Factor (cosΦ) | 0.54 | 0.74 | 0.84 | 0.88 | 0.9  | 0.9       |
| Input Power (kW)    | 0.37 | 0.67 | 0.97 | 1.29 | 1.62 | 1.62      |

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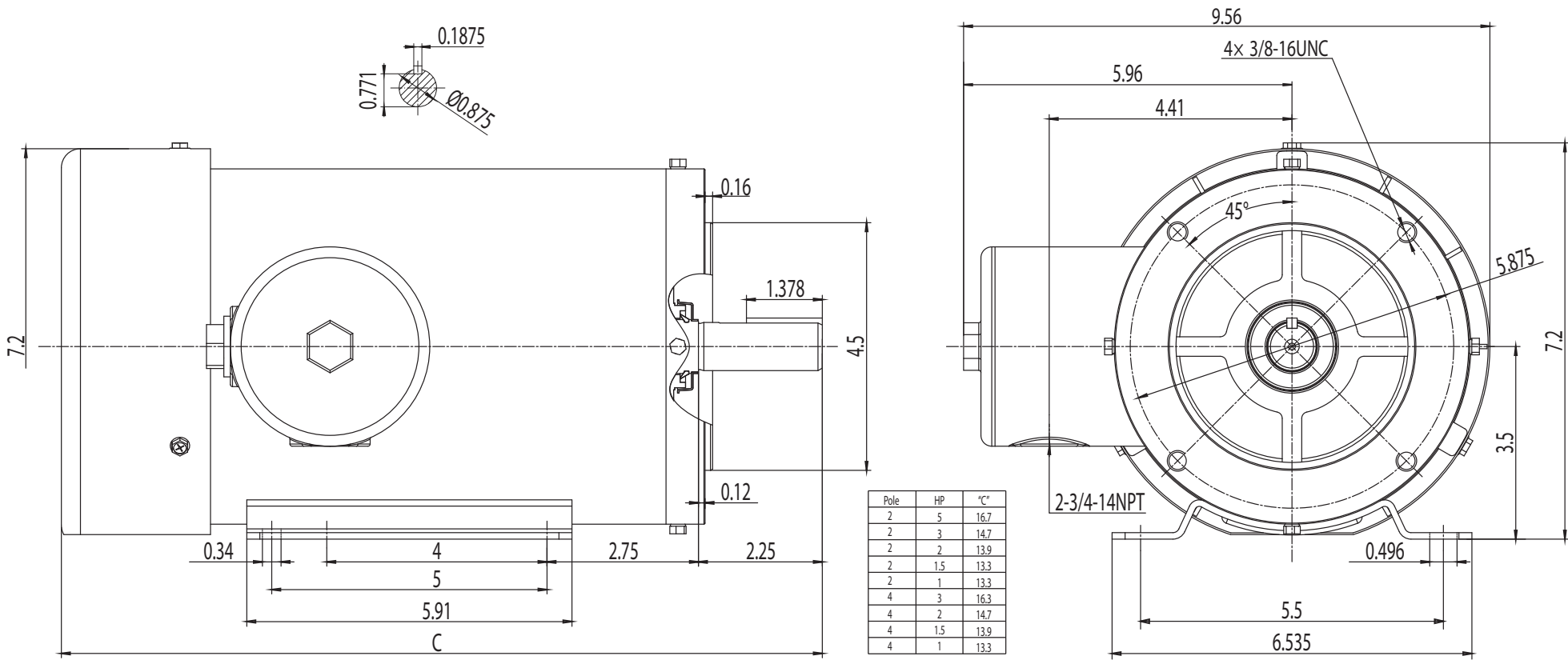
- NOTES:
- 1. CCW ROTATION FACING ODE FOR CONNECTIONS SHOWN
  - 2. TO REVERSE ROTATION, SWAP ANY TWO INPUT LINES
  - 3. WHEN MOTOR IS IN F1 POSITION, LEADS INDICATED WITH “\*” EXIT THE CASING ABOVE THE CENTER LINE OF THE MOTOR, THE REMAINING LEADS EXIT BELOW THE CENTER LINE
  - 4. LEADS MUST BE NUMBERED 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                  | 24/02/25 |
| STAINLESS STEEL IP69K MOTORS |          |



NEMA Premium TEFC 140TC

|                  |                 |                              |          |
|------------------|-----------------|------------------------------|----------|
| DRAWING NUMBER:  | SS3-TF-140TC    | ISSUED DATE                  | 24/02/25 |
| DIMENSIONS:      | Inches          | STAINLESS STEEL IP69K MOTORS |          |
| MOUNTING:        | Rigid/C-Flange  |                              |          |
| CASING MATERIAL: | Stainless Steel |                              |          |