



Model Number GR3-AL-TF-90SB3-4-B-D-1.5-230|460-60

MFG PN T 90S-4

List Price --

All data shown at HIGH voltage setting

Format STD 3 Phase

### Electrical Data

### General Data

|                               |                       |                    |           |
|-------------------------------|-----------------------|--------------------|-----------|
| Rated Motor Output Power      | 1.5 HP                | Frame Size         | 90        |
| Rated Motor Speed             | 1740 r/min            | Enclosure          | TEFC      |
| Rated Motor Voltage (3 Phase) | 230 460-60 Volts - HZ | Approximate Weight | --        |
| Rated Motor Current           | 4.36/2.48 Amps        | NEMA Design        | B         |
| Service Factor                | 1.15                  | IP Rating          | 55        |
| KVA Code                      | K                     | Insulation Class   | F         |
| Nominal Efficiency            | 86.5 %                | Tropicalization    | YES       |
| Nominal Power Factor          | 0.74 cosθ             | Duty               | Cont.     |
| Full Load Torque Ft-Lb        | 3.26432256 Ft-Lb      | Cable Entry        | M20 X 1.5 |
| Temp Rise @ Full Load °C      | 36.8                  | Feet Removable     | YES       |
| Efficiency Level              | IE3 - NEMA Premium    | Double Drilled     | NO        |

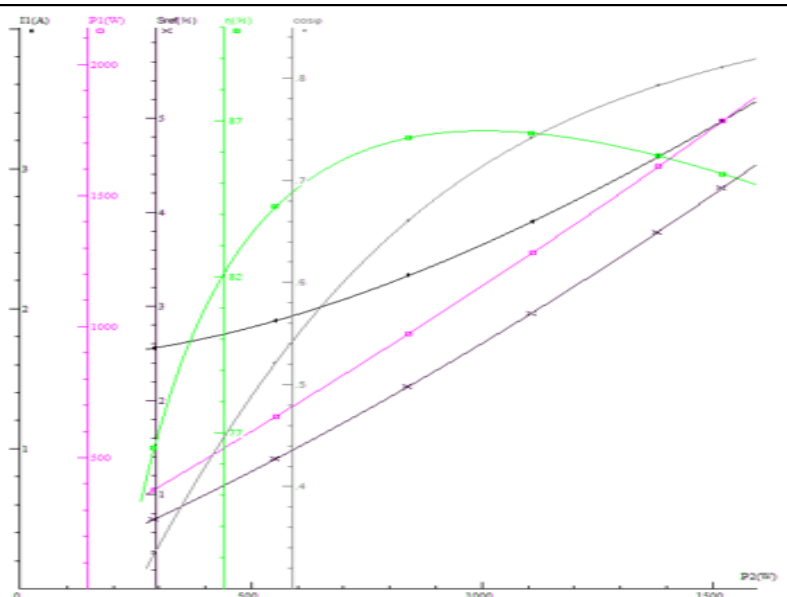
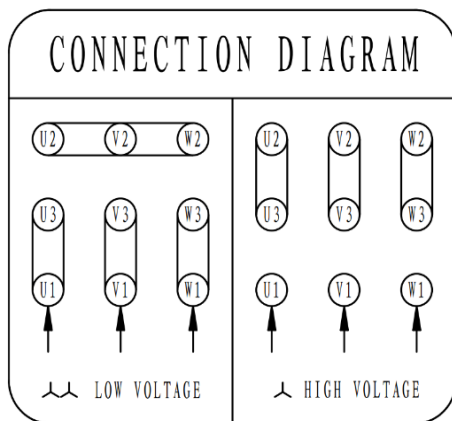
| Load Data    | RPM  | Trq %FL | Current Amps | Rated Ambient (°C)     | 40                   |
|--------------|------|---------|--------------|------------------------|----------------------|
| Locked Rotor | -    | 311     | 20.63        | Rated Altitude (M)     | 1000                 |
| Breakdown    | -    | 390     | -            | Coating                | 7024 - Graphite Grey |
| Pull Up      | -    | 309     | -            | Shaft Grounding        | NO                   |
| 125% of FL   | 1738 | -       | 2.87         | Brake Voltage (DC)     | --                   |
| 75% of FL    | 1762 | -       | 2.21         | Brake Torque (N-M)     | --                   |
| 50% of FL    | 1775 | -       | 1.91         | <b>Mechanical Data</b> |                      |
| No Load      | 1796 | -       | 1.65         |                        |                      |

|                    |                             |  |  |                   |                 |
|--------------------|-----------------------------|--|--|-------------------|-----------------|
| Hazardous Location | Class 1, Div 2, Grp A,B,C,D |  |  | Bearing DE Side   | 6205ZZ          |
|                    |                             |  |  | Bearing NDE Side  | 6205ZZ          |
|                    |                             |  |  | Moment of Inertia | -- kg.m2        |
|                    |                             |  |  | Noise Level       | Per NEMA dB (A) |

|                                                                                          |    |                      |    |
|------------------------------------------------------------------------------------------|----|----------------------|----|
| CT VFD Range                                                                             | -- | Loaded Torque Curves | -- |
| P1 = INPUT POWER (KW), S = Slip (% of Sync RPM), η = Efficiency (%), cosφ = Power Factor |    |                      |    |

|                |        |        |      |
|----------------|--------|--------|------|
| Certifications | UL     | CSA    | DOE  |
| File Numbers   | 323353 | 224693 | 096A |

|                |                             |
|----------------|-----------------------------|
| Wiring Diagram | 3PH 9 Lead IEC Dual Voltage |
|----------------|-----------------------------|





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Base Frame GR-90SB3-AL-TF

FRAME: 90SB3

HP:

RPM:

PHASE: 3

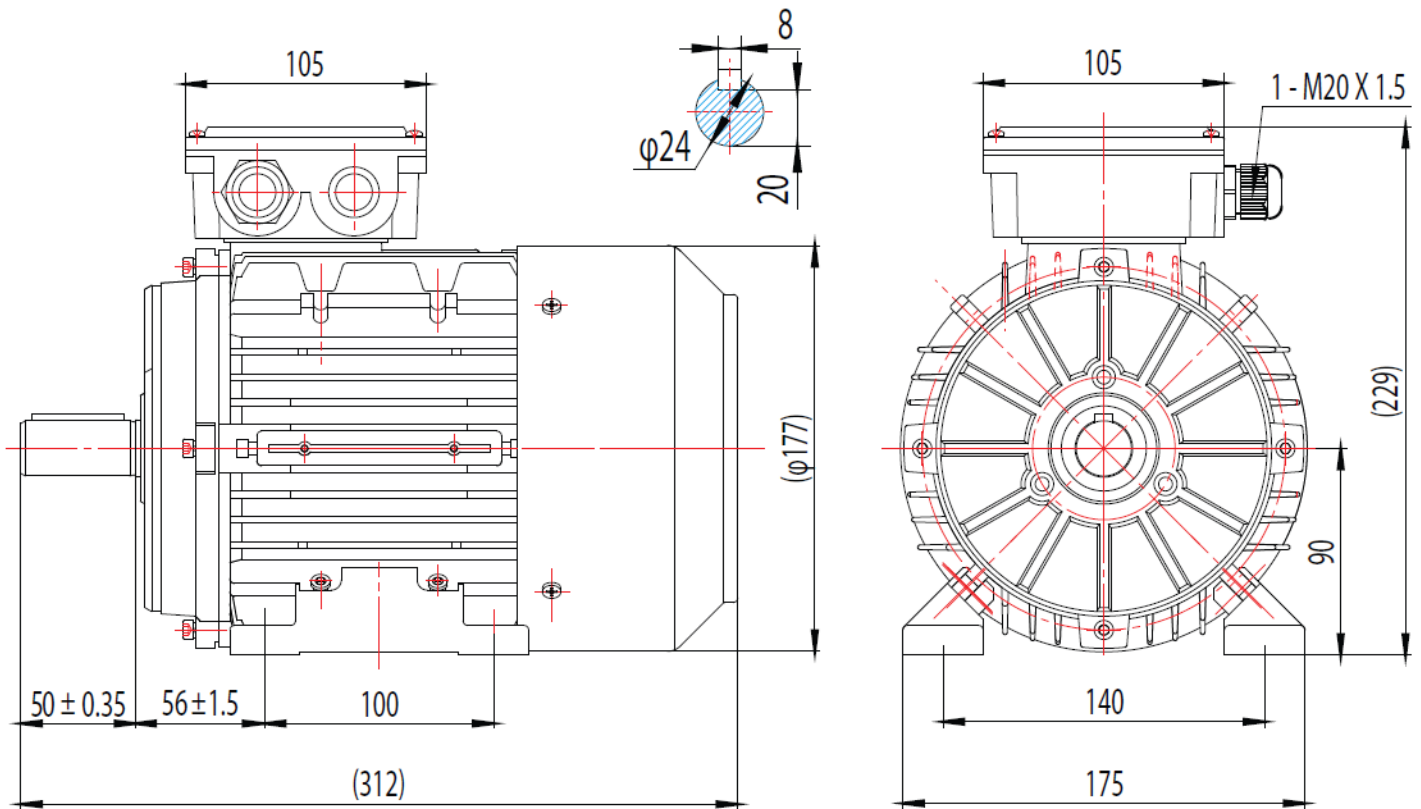
VOLT:

ENCL: TEFC

FREQ: 60 Hz

FLA:

LRA:



MODEL NUMBER:  
GR3-AL-TF-90SB3  
MFG PN:

| REV. | BY | DATE |
|------|----|------|
| 1    |    |      |
| 2    |    |      |
| 3    |    |      |
| 4    |    |      |
| 5    |    |      |
| 6    |    |      |
| 7    |    |      |

CHANGES

MATERIAL: ALUMINUM  
UNITS: INCH BY: SSEE  
DRAWN: 6/4/2018  
WWW.TECHTOP.COM

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