| | | | |
|---|---|---|---|
| TECHTOP electric motors | **Model Number** | **GR3-AL-TF-145JM-4-B-D-1.5-230\|460-60** | |
| | **MFG PN** | **T145T1.5U4B** | |
| | **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 | 145 |
| Rated Motor Speed | 1740 r/min | Enclosure | TEFC |
| Rated Motor Voltage (3 Phase) | 230\|460-60 Volts - HZ | Approximate Weight | 48 |
| Rated Motor Current | 4.4/2.2 Amps | NEMA Design | B |
| Service Factor | 1.25 | IP Rating | 55 |
| KVA Code | L | Insulation Class | F |
| Nominal Efficiency | 86.5 % | Tropicalization | YES |
| Nominal Power Factor | 0.75 cosθ | Duty | Cont. |
| Full Load Torque Ft-Lb | 4.4256 Ft-Lb | Cable Entry | 3/4"-14 NPSC |
| 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 | 16.74 | Rated Altitude (M) | 1000 |
| Breakdown | - | 351 | - | Coating | 7024 - Graphite Grey |
| Pull Up | - | 216 | - | Shaft Grounding | NO |
| 125% of FL | 1732 | - | 2.5 | Brake Voltage (DC) | -- |
| 75% of FL | 1762 | - | 1.75 | Brake Torque (N-M) | -- |
| 50% of FL | 1775 | - | 1.47 | **Mechanical Data** | |
| No Load | 1796 | - | 1.19 | Bearing DE Side | 6205ZZ |
| Hazardous Location | **Class 1, Div 2, Grp A,B,C,D** | | | Bearing NDE Side | 6205ZZ |
| | | | | Moment of Inertia | 0.00373 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** | |

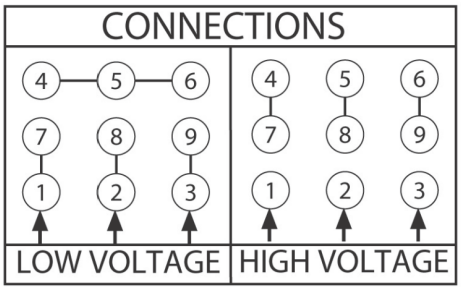
| Certifications | UL | CSA | DOE |
|---|---|---|---|
| File Numbers | **323353** | **224693** | 096A |
| **Wiring Diagram** | **3PH 9 Lead Dual Voltage** | | |

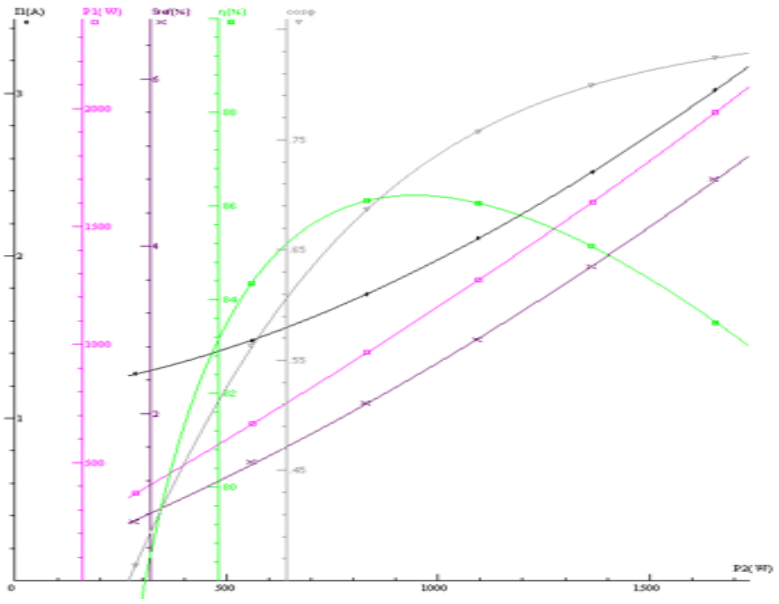
## 3 Phase - YY/Y - 9 Lead

**4,1 Blue / 5,2 White / 6,3 Org / 7 Yl / 8 Blk / 9 RD**

**Cast Iron- 1,2,3 Top - 4,5,6,7,8,9 Bottom**

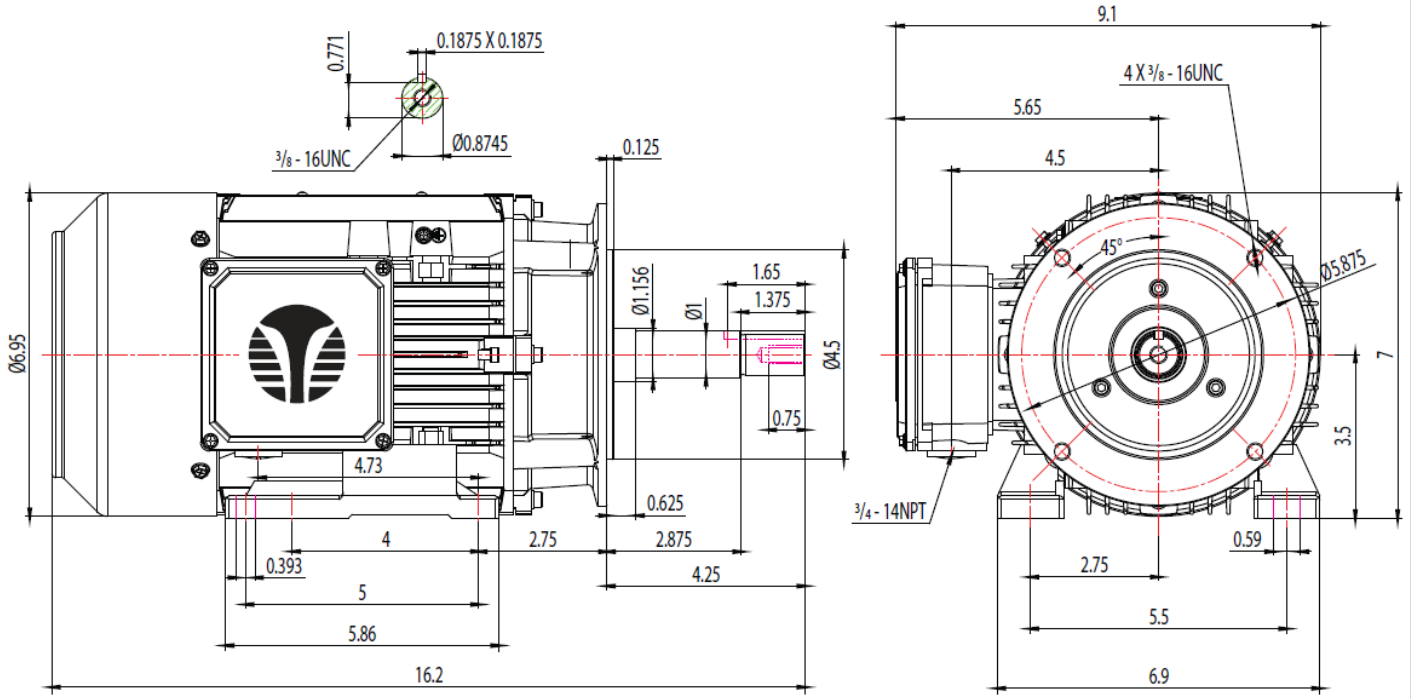
**Aluminum - 4,5,6,8,9 Top - 1,2,3,7 Bottom**



| | |
|---|---|
| Model Number | GR3-AL-TF-145JM-4-B-D-1.5-230\|460-60 |
| MFG PN | T145T1.5U4B |
| List Price | -- |
| Base Frame | GR-145JM-AL-TF |

| FRAME: 145JM | HP: | RPM: | PHASE: 3 | VOLT: 115/208-230V | ENCL: TEFC | FREQ: 60 Hz | FLA: | LRA: |
|---|---|---|---|---|---|---|---|---|




| MODEL NUMBER: | REV. | BY | DATE | CHANGES |
|---|---|---|---|---|
| GR3-AL-TF-145JM | 1 | | | |
| MFG PN: | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | |
| | 6 | | | |
| | 7 | | | |

MATERIAL: ALUMINUM
UNITS: INCH BY: SSEE
DRAWN: 6/11/2018
WWW.TECHTOP.COM

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