| Issued Date | 11/14/2022 | Doc. # | 390-R0 |
|---|---|---|---|
| Issued By | LD | Issued Rev | 0 |

Tashida

# TYPICAL MOTOR PERFORMANCE DATA

**Model:** MNET00054A2TBR **Serie:** NEMA Elite

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 5.00 | 3.70 | 4 | 1750 | 184T | 230/460 | 60 | 3 | 13/6.5 |
| **Enclosure** | **IP** | **Ins. Class** | **S.F.** | **Duty** | **Nom. Eff.** | **Nema Design** | **kVA Code** | **Ambient Temp. (°C)** |
| TEFC | 55 | F (*) | 1.15 | CONT | 89.5 | B | J | 40 C |

* Inventer Duty

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|---|---|---|---|---|---|
| **Full Load** | 5.00 | 3.70 | 6.5 | 89.7 | 81.2 |
| **¾ Load** | 3.75 | 2.80 | 5.0 | 89.3 | 77.6 |
| **½ Load** | 2.50 | 1.90 | 4.0 | 87.6 | 69.1 |
| **¼ Load** | 1.25 | 0.90 | 2.8 | 81.7 | 51.1 |
| **No Load** | | | 2.7 | | 5.9 |
| **Locked Rotor** | | | 46.0 | | 52.8 |

| Torque | | | | Rotor Inertia |
|---|---|---|---|---|
| **Full Load (lb-ft)** | **Locked Rotor (% FLT)** | **Pull Up (% FLT)** | **Break Down (% FLT)** | **(lb-ft²)** |
| 15.00 | 255.0 | 240.0 | 370.0 | 0.5 |

| Safe Stall Time(s) | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight |
|---|---|---|---|---|
| **Cold / Hot** | | **DE** | **NDE** | **(lbs)** |
| 35 / 15 | - | 6306ZZC3 | 6306ZZC3 | 110 |

*Bearings are the only recommended spare part(s).

**Included Accessories:**

All characteristics are average expected values.

| Engineering | | Doc. Written By | | Doc.# / Rev | MNET00054A2TBR |
|---|---|---|---|---|---|
| Engr. Date | | Doc. Approved By | | Doc. Issued | |

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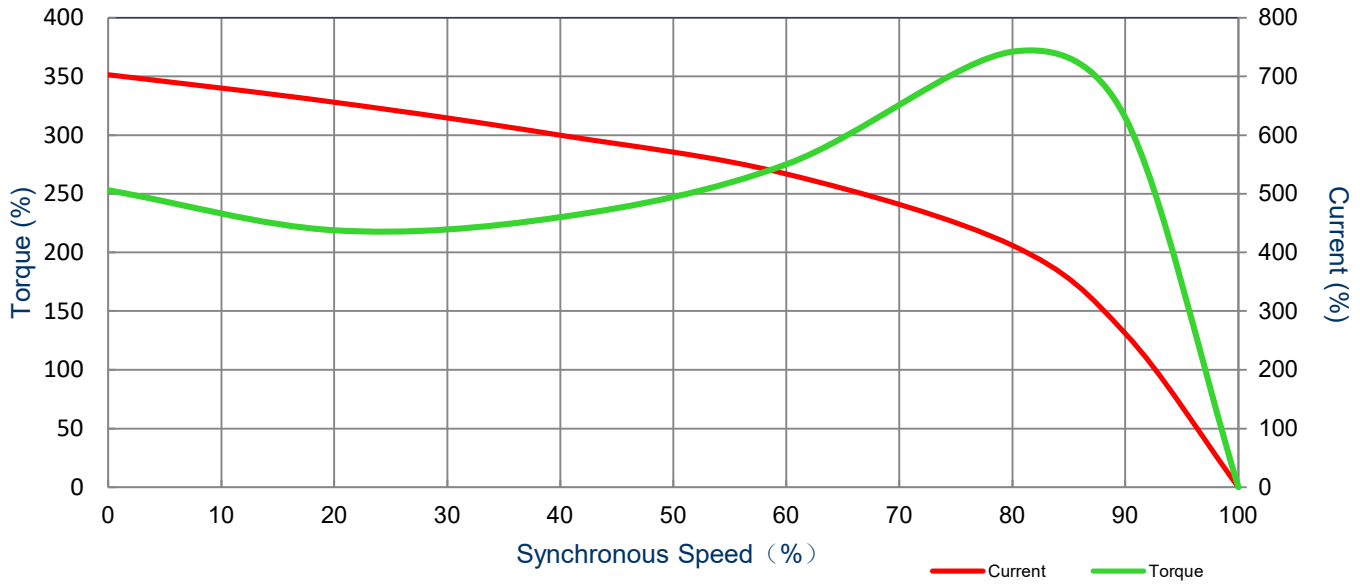
# SPEED TORQUE/CURRENT CURVE

**Model:** MNET00054A2TBR **Serie:** NEMA Elite

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 5.00 | 3.70 | 4 | 1750 | 184T | 230/460 | 60 | 3 | 13/6.5 |
| **Enclosure** | **IP** | **Ins. Class** | **S.F.** | **Duty** | **Nom. Eff.** | **Nema Design** | **kVA Code** | **Ambient Temp. (°C)** |
| TEFC | 55 | F (*) | 1.15 | CONT | 89.5 | B | J | 40 C |

| Locked Rotor Amps | Rotor Inertia (lb-ft2) | Torque | | | |
|---|---|---|---|---|---|
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| 46.0 | 0.5 | 15 | 255.0 | 240.0 | 370.0 |




All characteristics are average expected values.

| Engineering | | Doc. Written By | | Doc.# / Rev | MNET00054A2TBR |
|---|---|---|---|---|---|
| Engr. Date | | Doc. Approved By | | Doc. Issued | |

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# TYPICAL MOTOR PERFORMANCE DATA

**Model:** MNET00054A2TBR **Serie:** NEMA Elite

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 5.00 | 3.70 | 4 | 1430 | 184T | 190/380 | 50 | 3 | 16.6/8.3 |
| **Enclosure** | **IP** | **Ins. Class** | **S.F.** | **Duty** | **Nom. Eff.** | **Nema Design** | **kVA Code** | **Ambient Temp. (°C)** |
| TEFC | 55 | F (*) | 1.0 | CONT | 86.5 | B | H | 40 C |

* Inventer Duty

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|---|---|---|---|---|---|
| **Full Load** | 5.00 | 3.70 | 8.3 | 86.4 | 79 |
| **¾ Load** | 3.75 | 2.80 | 6.5 | 87.7 | 74.6 |
| **½ Load** | 2.50 | 1.90 | 5.0 | 87.1 | 64.7 |
| **¼ Load** | 1.25 | 0.90 | 4.0 | 81.1 | 43.3 |
| **No Load** | | | 3.8 | | 6.5 |
| **Locked Rotor** | | | 52.9 | | 63.2 |

| Torque | | | | Rotor Inertia |
|---|---|---|---|---|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | (lb-ft²) |
| 18.40 | 220.0 | 200.0 | 280.0 | 0.43 |

| Safe Stall Time(s) | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight |
|---|---|---|---|---|
| Cold / Hot | | DE | NDE | (lbs) |
| 35 / 15 | - | 6306ZZC3 | 6306ZZC3 | 110 |

*Bearings are the only recommended spare part(s).

**Included Accessories:**

All characteristics are average expected values.

| Engineering | | Doc. Written By | | Doc.# / Rev | MNET00054A2TBR |
|---|---|---|---|---|---|
| Engr. Date | | Doc. Approved By | | Doc. Issued | |

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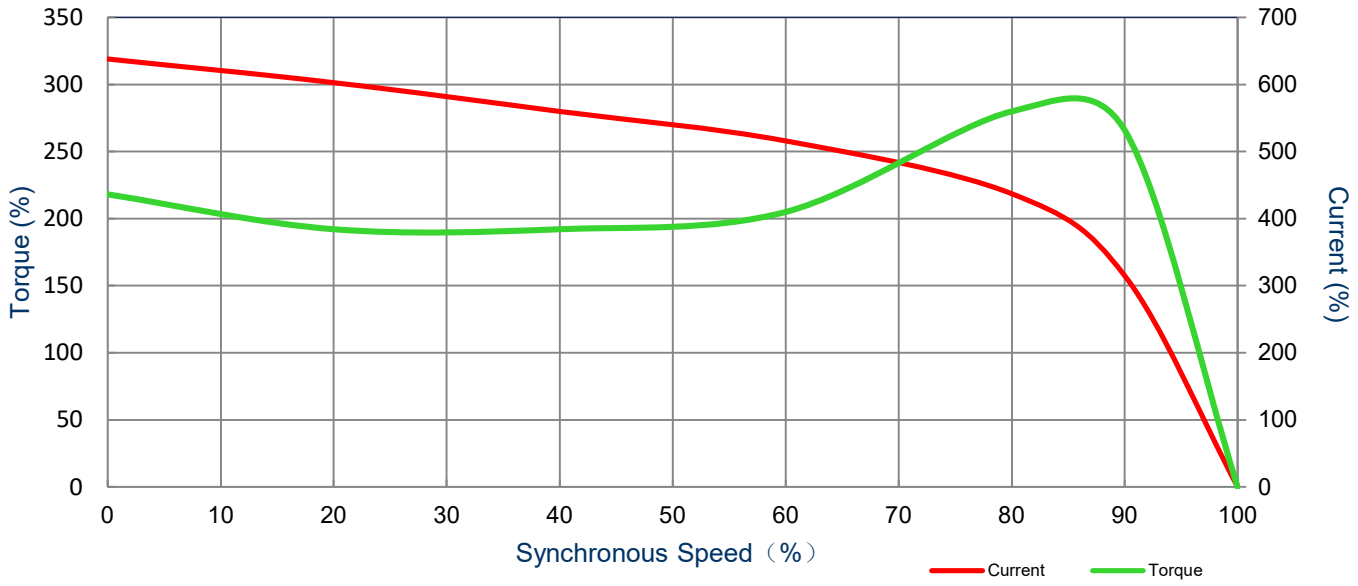
# SPEED TORQUE/CURRENT CURVE

**Model:** MNET00054A2TBR **Serie:** NEMA Elite

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|---|---|---|---|---|---|---|---|---|
| 5.00 | 3.7 | 4 | 1430 | 184T | 190/380 | 50 | 3 | 16.6/8.3 |
| **Enclosure** | **IP** | **Ins. Class** | **S.F.** | **Duty** | **Nom. Eff.** | **Nema Design** | **kVA Code** | **Ambient Temp. (°C)** |
| TEFC | 55 | F (*) | 1.0 | CONT | 86.5 | B | H | 40 C |

| Locked Rotor Amps | Rotor Inertia (Kg-m2) | Torque | | | |
|---|---|---|---|---|---|
| | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| 52.9 | 0.43 | 18.4 | 220.0 | 200.0 | 280.0 |




All characteristics are average expected values.

| Engineering | | Doc. Written By | | Doc.# / Rev | MNET00054A2TBR |
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| Engr. Date | | Doc. Approved By | | Doc. Issued | |

| Issued Date | 11/14/2022 | Doc. # | 390-R0 |
|---|---|---|---|
| Issued By | LD | Issued Rev | 0 |

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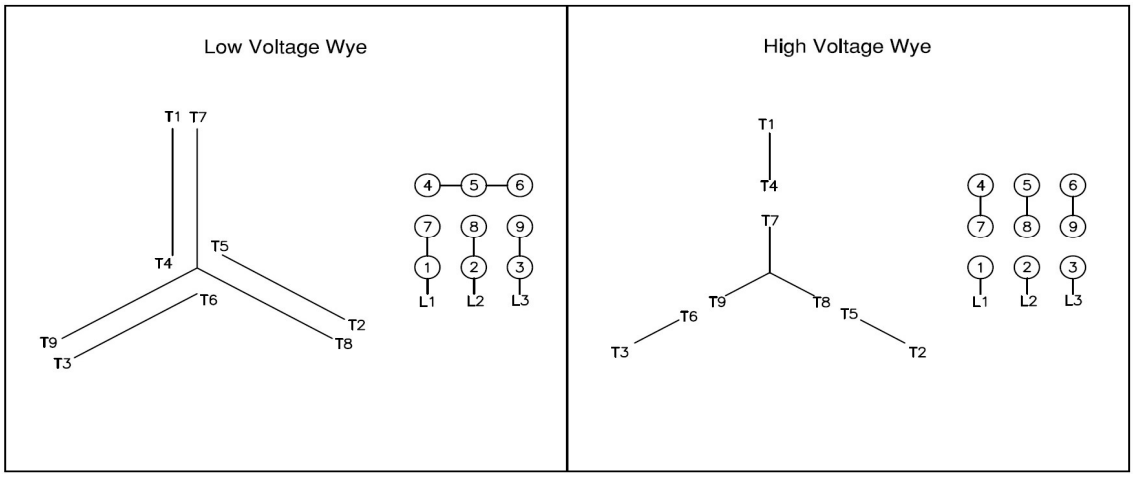
# Motor Connection Diagram

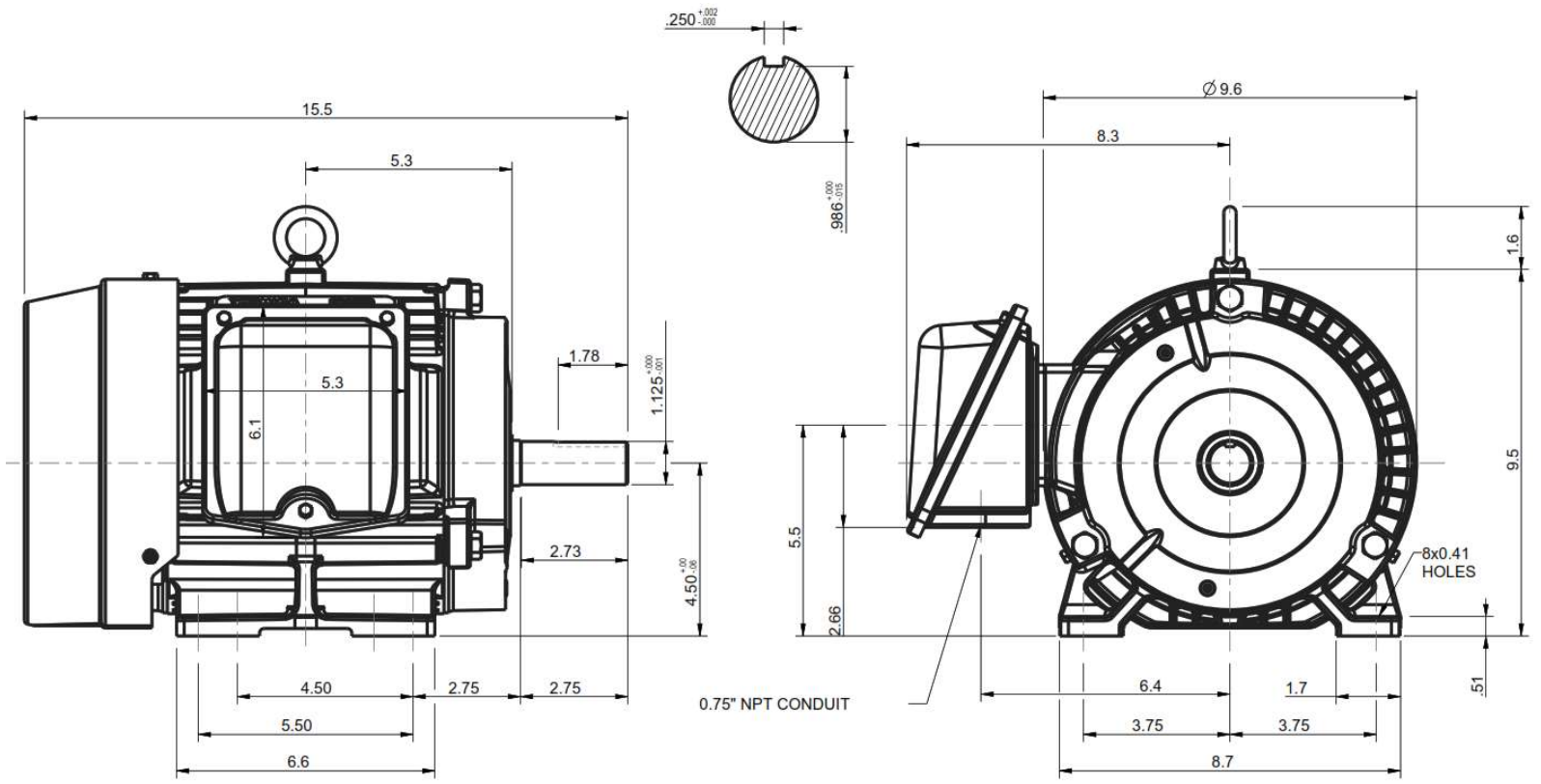
**Model:** MNET00054A2TBR **Serie:** NEMA Elite

## 9 Leads Connection Diagram




All characteristics are average expected values.

| Engineering | | Doc. Written By | | Doc.# / Rev | MNET00054A2TBR |
|---|---|---|---|---|---|
| Engr. Date | | Doc. Approved By | | Doc. Issued | |




| Units: inches | | PROPRIETARY INFORMATION | Notes: |
|---|---|---|---|
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| TOTALLY ENCLOSED FAN COOLED HORIZONTAL FOOT MOUNTED 3 PHASE INDUCTION MOTOR | | | | | |
|---|---|---|---|---|---|
| | | Drawing #: | MNET00054A2TBR | | |
| | | Rev. Date: | 11/14/2022 | Rev. #: | 0 |
| | | Standard: | NEMA | Mount.: | F1 |
| Frame | 184T | Per.: | LD | | |