



TYPICAL MOTOR PERFORMANCE DATA

Model: MNET00204A2TBR

Serie: NEMA Elite

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

| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
|-----------|-------|------------|--------|-------|-----------|-------------|----------|--------------------|
| 20.00 | 15.00 | 4 | 1770 | 256T | 230/460 | 60 | 3 | 50/25 |
| Enclosure | IP | Ins. Class | S.F. | Duty | Nom. Eff. | Nema Design | kVA Code | Ambient Temp. (°C) |
| TEFC | 55 | F (*) | 1.15 | CONT | 93.0 | B | G | 40 C |

* Inventer Duty

| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|-------|-------|---------|----------------|------------------|
| Full Load | 20.00 | 15.00 | 25.0 | 93.3 | 81.0 |
| ¾ Load | 15.00 | 11.20 | 20.4 | 92.6 | 78.1 |
| ½ Load | 10.00 | 7.50 | 16.1 | 90.7 | 70.4 |
| ¼ Load | 5.00 | 3.70 | 11.1 | 83.7 | 50.0 |
| No Load | | | 9.8 | | 5.4 |
| Locked Rotor | | | 145.0 | | 44.4 |

| Torque | | | | Rotor Inertia (lb-ft²) |
|----------------------|-------------------------|--------------------|-----------------------|---------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 59.30 | 260.0 | 215.0 | 280.0 | 3.18 |

| Safe Stall Time(s) Cold / Hot | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
|----------------------------------|------------------------------|-----------|---------|-------------------------------|
| | | DE | NDE | |
| 34 / 23 | - | 6309ZC3 | 6309ZC3 | 355 |

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

Included Accessories:

All characteristics are average expected values.

| | | | | | |
|-------------|--|------------------|--|-------------|----------------|
| Engineering | | Doc. Written By | | Doc.# / Rev | MNET00204A2TBR |
| Engr. Date | | Doc. Approved By | | Doc. Issued | |



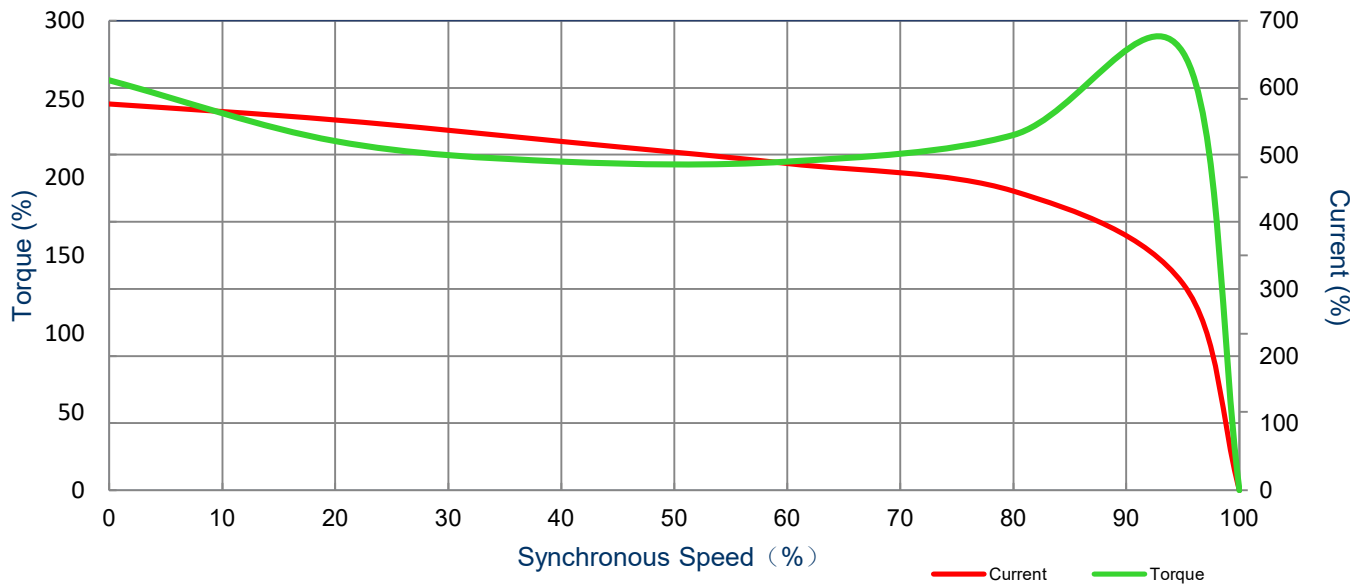
SPEED TORQUE/CURRENT CURVE

Model: MNET00204A2TBR

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| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps | |
|-------------------|-------------------------------------|------------|--------|-------|-----------|-------------------|------------------|--------------------|----------------|
| 20.00 | 15.00 | 4 | 1770 | 256T | 230/460 | 60 | 3 | 50/25 | |
| Enclosure | IP | Ins. Class | S.F. | Duty | Nom. Eff. | Nema Design | kVA Code | Ambient Temp. (°C) | |
| TEFC | 55 | F (*) | 1.15 | CONT | 93.0 | B | G | 40 C | |
| Locked Rotor Amps | Rotor Inertia (lb-ft ²) | Torque | | | | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) | Break Down (%) |
| | | | | | | | | | |
| 145.0 | 3.18 | 59.3 | 260.0 | 215.0 | 280.0 | | | | |



All characteristics are average expected values.

| | | | |
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|-----------|-------|------------|--------|-------|-----------|-------------|----------|--------------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 20.00 | 15.00 | 4 | 1460 | 256T | 190/380 | 50 | 3 | 64/32 |
| Enclosure | IP | Ins. Class | S.F. | Duty | Nom. Eff. | Nema Design | kVA Code | Ambient Temp. (°C) |
| TEFC | 55 | F (*) | 1.0 | CONT | 91.0 | B | E | 40 C |

* Inventer Duty

| | | | | | |
|--------------|-------|-------|---------|----------------|------------------|
| Load | HP | kW | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load | 20.00 | 15.00 | 32.0 | 92.6 | 77 |
| ¾ Load | 15.00 | 11.20 | 23.2 | 92.9 | 74.2 |
| ½ Load | 10.00 | 7.50 | 16.8 | 92.2 | 66.9 |
| ¼ Load | 5.00 | 3.70 | 11.8 | 84.7 | 56.6 |
| No Load | | | 10.3 | | 4.8 |
| Locked Rotor | | | 150.0 | | 44.4 |

| | | | | |
|----------------------|-------------------------|--------------------|-----------------------|---------------------------|
| Torque | | | | Rotor Inertia (lb-ft²) |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | |
| 71.90 | 205.0 | 175.0 | 205.0 | 3.18 |

| | | | | |
|--------------------|------------------------------|-----------|----------|-------------------------------|
| Safe Stall Time(s) | Sound Pressure dB(A) @ 1M | Bearings* | | Approx. Motor Weight (lbs) |
| Cold / Hot | | DE | NDE | |
| 38 / 18 | - | 6309ZZC3 | 6309ZZC3 | 355 |

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

Included Accessories:

All characteristics are average expected values.

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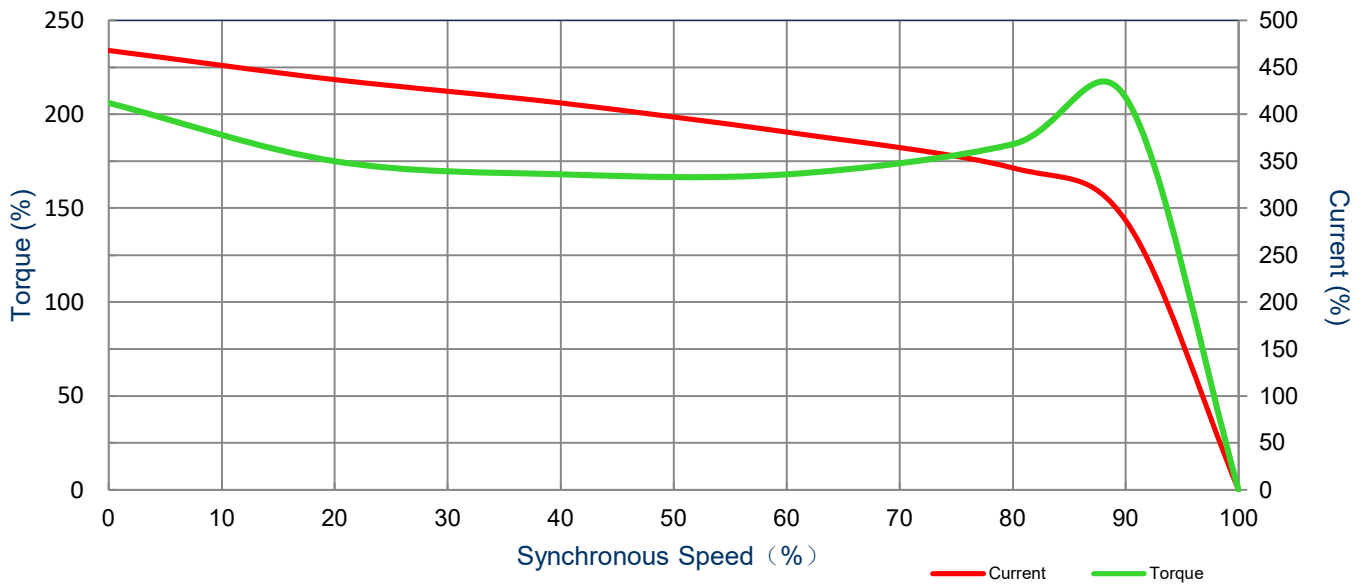
SPEED TORQUE/CURRENT CURVE

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|-------------------|-----------------------|-------------------|------------------|-------|-----------|-------------|----------------|--------------------|
| HP | kW | Pole | FL RPM | Frame | Voltage | Hz | Phase | FL Amps |
| 20.00 | 15 | 4 | 1460 | 256T | 190/380 | 50 | 3 | 64/32 |
| Enclosure | IP | Ins. Class | S.F. | Duty | Nom. Eff. | Nema Design | kVA Code | Ambient Temp. (°C) |
| TEFC | 55 | F (*) | 1.0 | CONT | 91.0 | B | E | 40 C |
| Locked Rotor Amps | Rotor Inertia (Kg-m2) | Torque | | | | Pull Up (%) | Break Down (%) | |
| | | Full Load (lb-ft) | Locked Rotor (%) | | | | | |
| 150.0 | 3.18 | 71.9 | 205.0 | | 175.0 | 205.0 | | |



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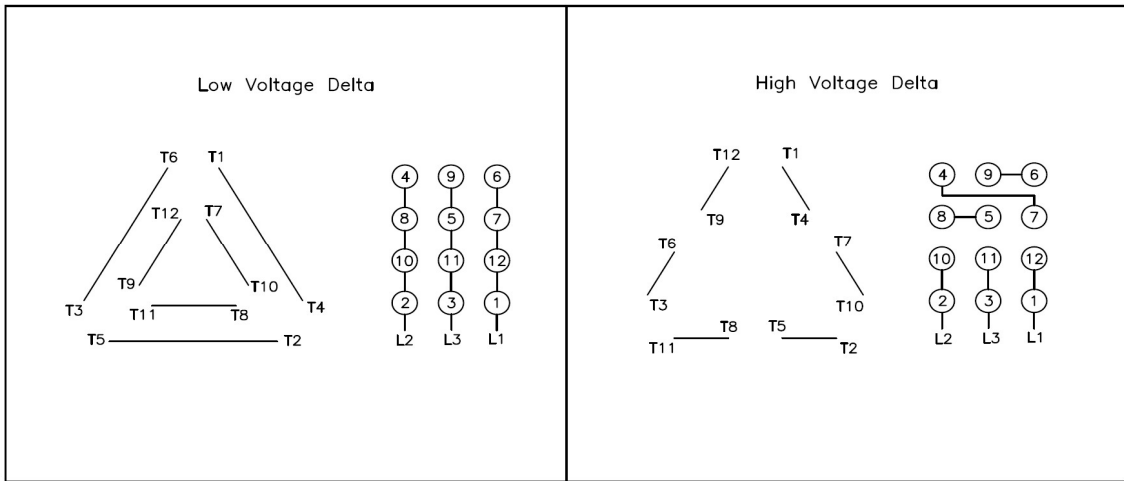
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Motor Connection Diagram

Model: MNET00204A2TBR

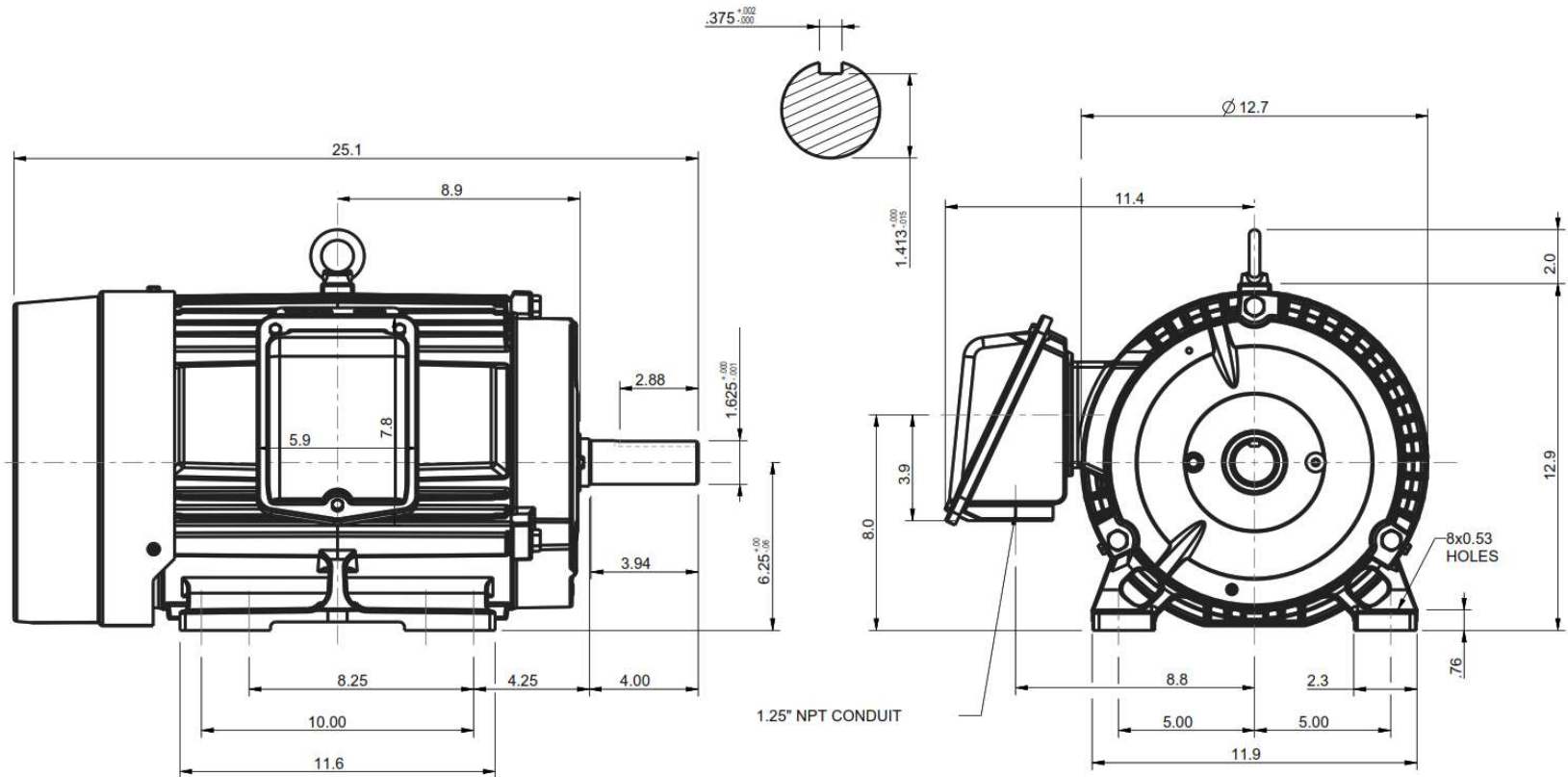
Serie: NEMA Elite




12 Leads Connection Diagram



All characteristics are average expected values.

| | | | | | |
|-------------|--|------------------|--|-------------|----------------|
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| Engr. Date | | Doc. Approved By | | Doc. Issued | |



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|--|---|--|---|-------------|---------|----|
| Units: inches | | PROPRIETARY INFORMATION We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authorization is strictly forbidden. Offenders will be held liable for payment of damages. | Notes: | | | |
| ROTATION FROM NDE | | | 1. MAIN CONDUIT BOX MAY BE ROTATED IN 90 DEGREE INCREMENTS | | | |
| CCW | CW | | 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION AVAILABLE ONLY BY CONNECTION CHANGE. | | | |
|  X |  | | | | | |
| TASHIDA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE | | | | PRELIMINARY | | |
| DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED | | | X | CERTIFIED | | |
|  | | TOTALLY ENCLOSED FAN COOLED HORIZONTAL FOOT MOUNTED 3 PHASE INDUCTION MOTOR | Drawing #: MNET00204A2TBR | | | |
| | | | Rev. Date: | 11/14/2022 | Rev. #: | 0 |
| | | | Standard: | NEMA | Mount.: | F1 |
| | | | Frame | 254T - 256T | Per.: | LD |