# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |

| | | | |
|---|---|---|---|
| Product line | : NEMA Premium Efficiency Three-Phase | Product code : | 12651241 |

| | | | |
|---|---|---|---|
| Frame | : 213/5TC | Cooling method | : IC01 - ODP |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation[1] | : Both (CW and CCW) |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight[3] | : 58.8 kg |
| Design | : B | Moment of inertia (J) | : 0.0546 kgm² |

| | | | | |
|---|---|---|---|---|
| Output [HP] | | 10 | 10 | 10 |
| Poles | | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 |
| Rated current [A] | | 24.8/12.4 | 29.8/14.9 | 27.2/14.4 |
| L. R. Amperes [A] | | 174/86.8 | 191/95.4 | 193/102 |
| LRC [A] | | 7.0x(Code H) | 6.4x(Code G) | 7.1x(Code H) |
| No load current [A] | | 12.0/5.99 | 11.8/5.89 | 12.2/6.45 |
| Rated speed [RPM] | | 1770 | 1460 | 1465 |
| Slip [%] | | 1.67 | 2.67 | 2.33 |
| Rated torque [kgfm] | | 4.10 | 4.97 | 4.95 |
| Locked rotor torque [%] | | 250 | 200 | 220 |
| Breakdown torque [%] | | 350 | 250 | 280 |
| Service factor | | 1.15 | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 25s (cold) 14s (hot) | 0s (cold) 0s (hot) | 0s (cold) 0s (hot) |
| Noise level[2] | | 59.0 dB(A) | 56.0 dB(A) | 56.0 dB(A) |
| Efficiency (%) | 25% | 89.4 | 91.4 | 90.4 |
| | 50% | 90.2 | 90.1 | 89.6 |
| | 75% | 91.0 | 89.7 | 89.8 |
| | 100% | 91.7 | 88.1 | 88.7 |
| Power Factor | 25% | 0.38 | 0.45 | 0.41 |
| | 50% | 0.64 | 0.72 | 0.68 |
| | 75% | 0.77 | 0.82 | 0.80 |
| | 100% | 0.83 | 0.87 | 0.85 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6208 ZZ | 6206 ZZ |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads
Max. traction : 227 kgf
Max. compression : 286 kgf

Notes
USABLE @208V 27.4A SF 1.00 SFA 27.4A

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 13/05/2022 | | 1 / 4 | |

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

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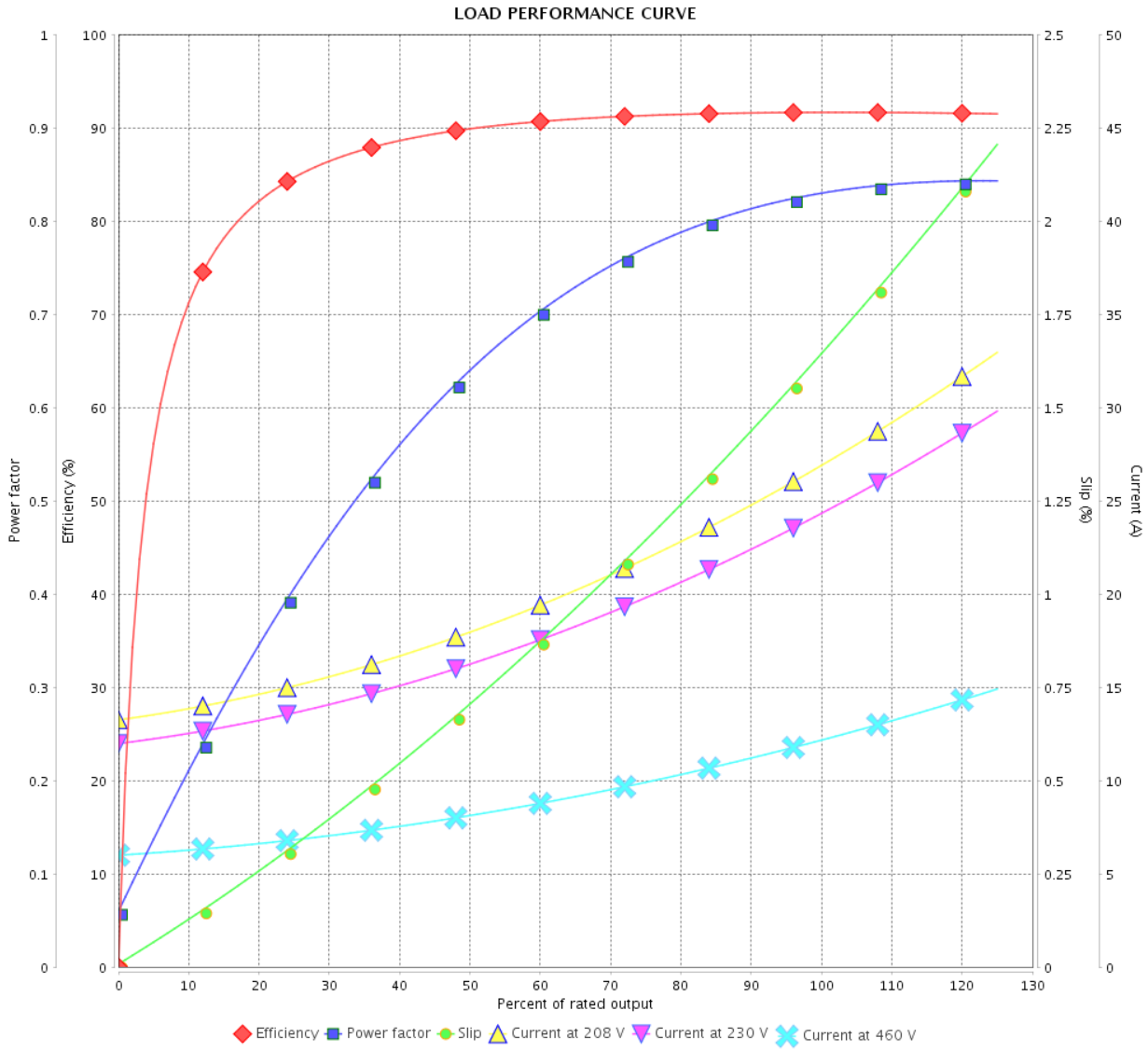


| | | | |
|---|---|---|---|
| Performance | : 230/460 V 60 Hz 4P | | |
| Rated current | : 24.8/12.4 A | Moment of inertia (J) | : 0.0546 kgm² |
| LRC | : 7.0 | Duty cycle | : Cont.(S1) |
| Rated torque | : 4.10 kgfm | Insulation class | : F |
| Locked rotor torque | : 250 % | Service factor | : 1.15 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1770 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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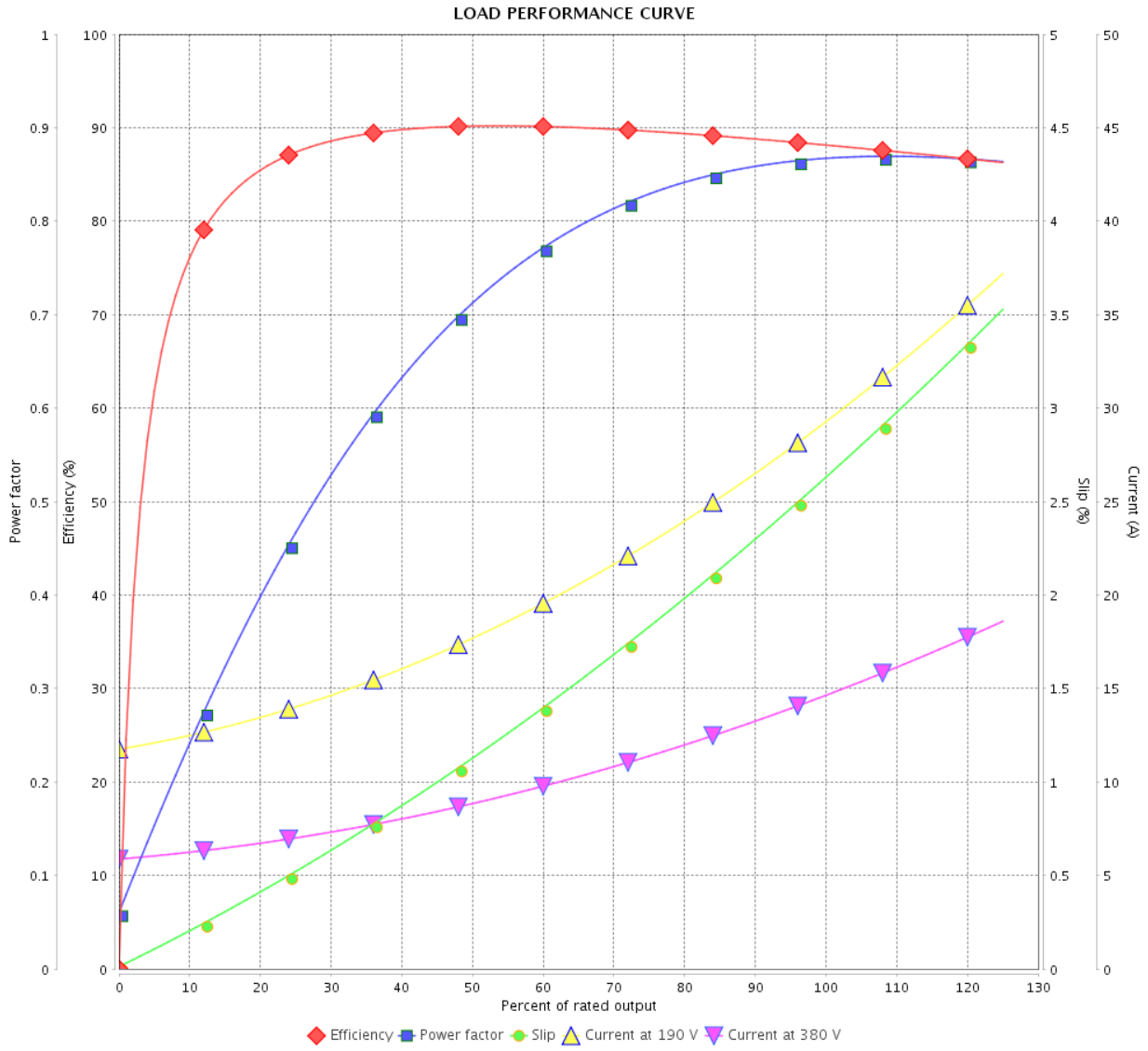


| | | | |
|---|---|---|---|
| Performance | : 190/380 V 50 Hz 4P | | |
| Rated current | : 29.8/14.9 A | Moment of inertia (J) | : 0.0546 kgm² |
| LRC | : 6.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 4.97 kgfm | Insulation class | : F |
| Locked rotor torque | : 200 % | Service factor | : 1.15 |
| Breakdown torque | : 250 % | Temperature rise | : 80 K |
| Rated speed | : 1460 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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# LOAD PERFORMANCE CURVE

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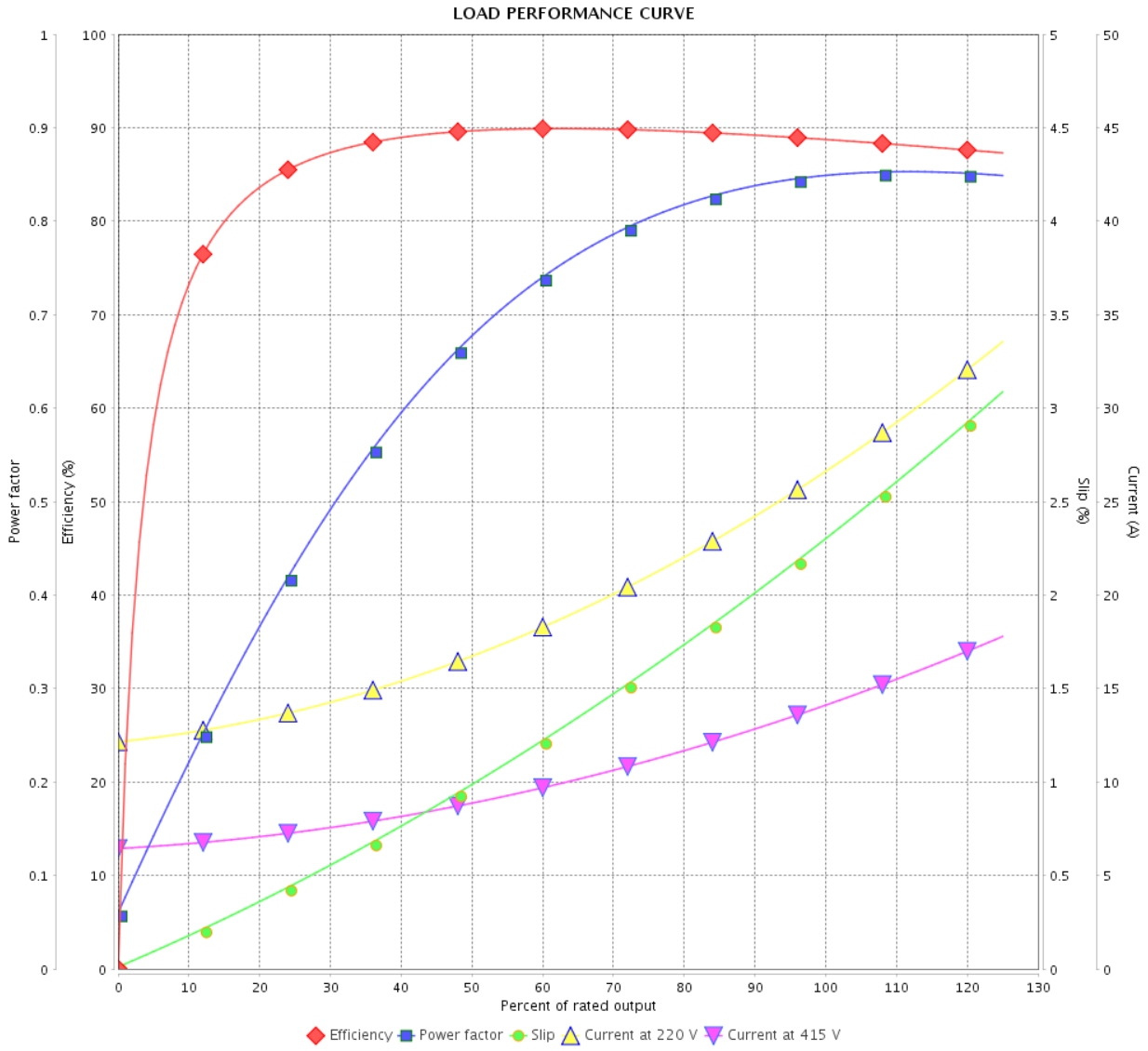


| | | | |
|---|---|---|---|
| Performance | : 220/415 V 50 Hz 4P | | |
| Rated current | : 27.2/14.4 A | Moment of inertia (J) | : 0.0546 kgm² |
| LRC | : 7.1 | Duty cycle | : Cont.(S1) |
| Rated torque | : 4.95 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.15 |
| Breakdown torque | : 280 % | Temperature rise | : 80 K |
| Rated speed | : 1465 rpm | Design | : B |

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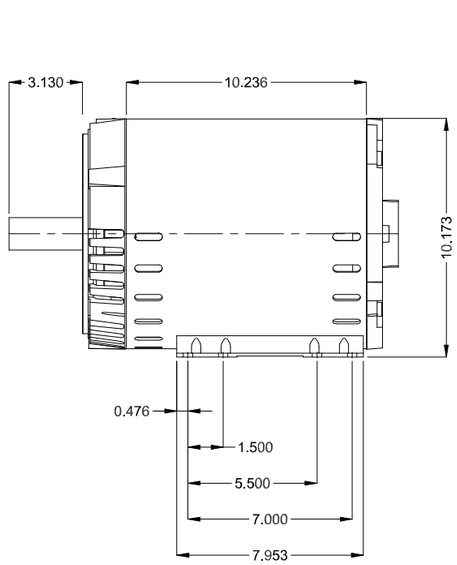
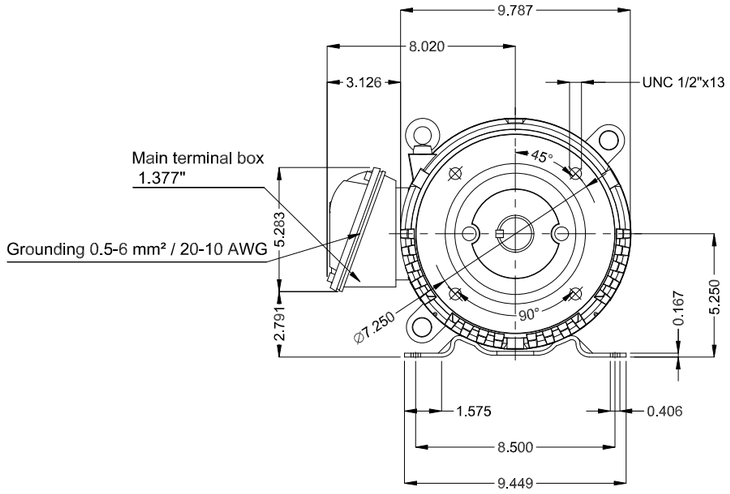
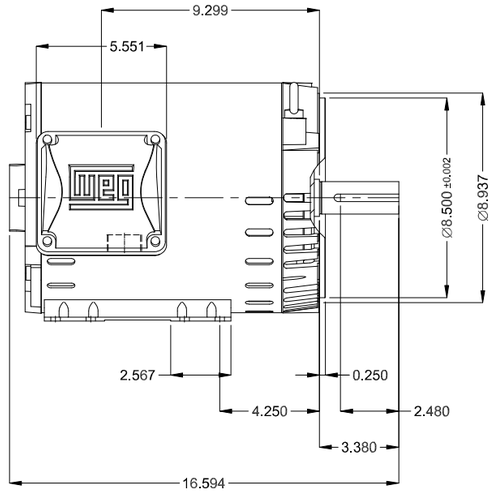
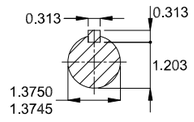



DE Shaft End




Color Munsell N 1 matte black

Painting plan 207N

Mounting B34D

10 HP 04 Poles 60 Hz

A

Scale 2 : 13

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|---|---|---|---|---|---|---|---|
| | | | HYBRISUSER | | | | 00 |

| | |
|---|---|
| EXECUTED | HYBRISUSER |
| CHECKED | |
| RELEASED | |
| REL. DATE | |

THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.

FRAME 213/5TC IP21 ODP

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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