DATA SHEET

Checked by

Date

13/07/2025

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12744465 Three-Phase Frame : 182/4TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 44.2 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0206 kgm² Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 5.08/2.54 2.68 2.62 2.64 L. R. Amperes [A] 39.6/19.8 16.9 18.1 19.5 LRC [A] 7.8x(Code M) 6.3x(Code J) 6.9x(Code K) 7.4x(Code L) No load current [A] 3.25/1.63 1.60 1.71 1.80 Rated speed [RPM] 1170 955 960 965 Slip [%] 2.50 4.50 4.00 3.50 Rated torque [kgfm] 0.930 1.14 1.13 1.13 Locked rotor torque [%] 320 250 300 330 Breakdown torque [%] 400 290 330 370 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 25s (cold) 14s (hot) Locked rotor time 28s (cold) 16s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 84.0 85.5 84.5 84.0 Efficiency (%) 75% 86.5 86.5 86.5 85.5 100% 87.5 85.5 86.5 86.5 25% 50% 0.45 0.52 0.48 0.45 Power Factor 75% 0.54 0.63 0.60 0.57 0.62 0.73 0.70 0.67 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.4 13.4 13.4 13.4 P2 (0,5;1,0) 10.3 10.3 10.3 10.3 P3 (0,25;1,0) 9.3 9.3 9.3 9.3 P4 (0,9;0,5) 8.8 8.8 Losses (%) 8.8 8.8 P5 (0,5;0,5) 5.8 5.8 5.8 5.8 P6 (0,5;0,25) 4.8 4.8 4.8 4.8 P7 (0,25;0,25) 3.5 3.5 3.5 3.5 Non drive end Foundation loads Drive end Bearing type 6207 ZZ 6206 ZZ Max. traction : 65 kaf Sealing V'Ring V'Ring Max. compression : 109 kgf Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by

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| Three Pha | se Induction | <u> </u> | | | |
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| Customer | : | | | | |
| Notes USABLE @208\ | / 5.62A SF 1.15 SF <i>A</i> | . 6.46A | | | |
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Three Phase Induction Motor - Squirrel Cage



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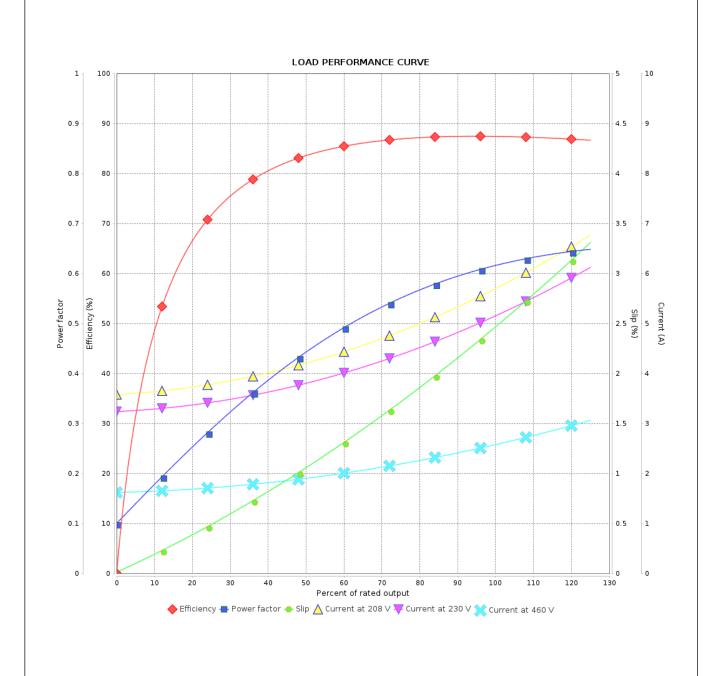
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Date

13/07/2025

Product line : W22 NEMA Premium Efficiency Product code : 12744465

Three-Phase



| Performance | : 23 | 30/460 V 60 Hz 6P | | | | |
|---|--|---|--|--|---------|------|
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : 7.0 : 0.1 ue : 32 le : 40 | 08/2.54 A 8 930 kgfm 20 % 00 % 170 rpm | Duty cycle Insulation Service fa | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | 2 |
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Three Phase Induction Motor - Squirrel Cage

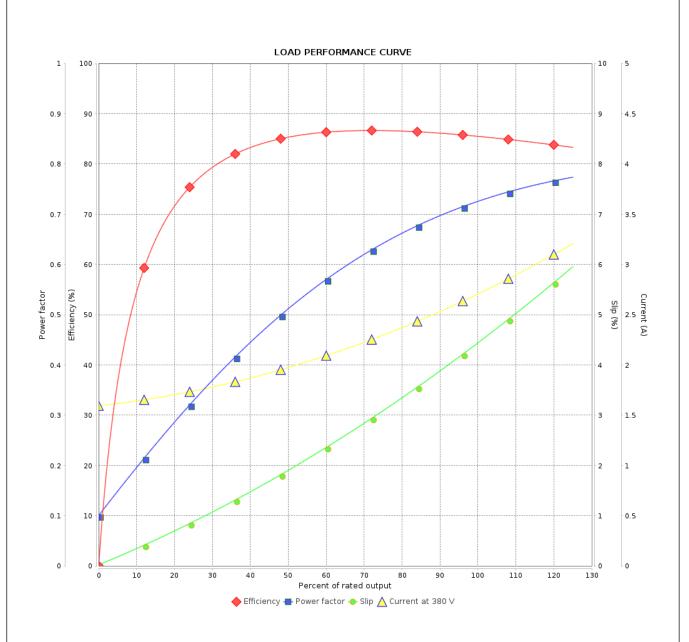


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12744465



| : 38 | 80 V 50 Hz 6P IE4 | | | | |
|--------------------------|--|---|-----------|---|--|
| : 6. : 1. jue : 25 | .3 .14 kgfm 50 % 90 % | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise | | : 0.0206 kgm² : Cont.(S1) : F : 1.00 : 80 K | |
| Changes Summary | | | Performed | Checked | Date |
| | : 2 : 6 : 1 que : 2 ie : 2 | ie : 290 % : 955 rpm | : 2.68 A | : 2.68 A Moment of inertia (J) : 6.3 Duty cycle : 1.14 kgfm Insulation class que : 250 % Service factor Insulation class Service factor Temperature rise Design | : 2.68 A Moment of inertia (J) : 0.0206 kgm² : 6.3 Duty cycle : Cont.(S1) : 1.14 kgfm Insulation class : F que : 250 % Service factor : 1.00 ie : 290 % Temperature rise : 80 K : 955 rpm Design : B |

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Three Phase Induction Motor - Squirrel Cage

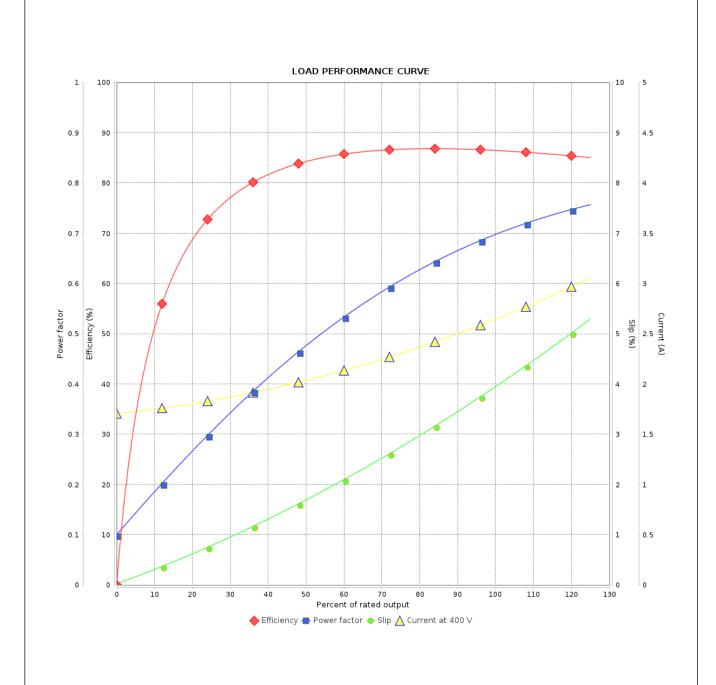


Customer

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Product line : W22 NEMA Premium Efficiency Product code: 12744465

Three-Phase



| Performance | | : 400 V 50 Hz 6 | P IE4 | | | | | |
|---|--|---|-------|--|-----------|--|------|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | | : 2.62 A : 6.9 : 1.13 kgfm : 300 % : 330 % : 960 rpm | | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.0206 kgm² : Cont.(S1) : F : 1.00 : 80 K : B | | |
| Rev. | | Changes Summary | | | Performed | Checked | Date | |
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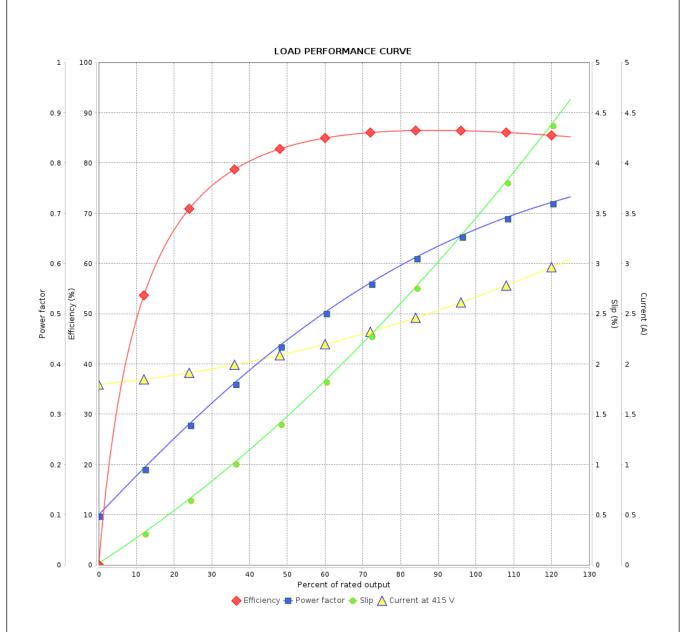
Customer :

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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12744465



Performance : 415 V 50 Hz 6P IE4 : 2.64 A : 0.0206 kgm² Rated current Moment of inertia (J) **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.13 kgfm : F Locked rotor torque : 330 % Service factor : 1.00 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

