DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11442886 Three-Phase : 324/6T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 246 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm² Design : B Output [HP] 30 25 25 30 25 30 30 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 43.7 72.4/36.2 37.4 36.2 35.4 41.7 40.7 L. R. Amperes [A] 449/225 217 228 237 214 225 236 LRC [A] 6.2x(Code 5.8x(Code | 6.3x(Code H)|6.7x(Code H)|4.9x(Code E)|5.4x(Code F)| 5.8x(Code G) G) G) No load current [A] 32.8/16.4 15.5 16.8 18.0 15.5 16.8 18.0 Rated speed [RPM] 1180 980 980 985 970 975 980 3.00 Slip [%] 1.67 2.00 2.00 1.50 2.50 2.00 Rated torque [kgfm] 18.5 18.5 18.5 18.4 22.4 22.3 22.2 Locked rotor torque [%] 220 190 220 240 160 180 200 Breakdown torque [%] 240 229 260 280 200 220 240 1.00 Service factor 1.25 1.00 1.15 1.15 1.15 1.15 Temperature rise 80 K 27s (cold) Locked rotor time 37s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 21s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 50% 91.7 91.3 91.3 90.7 91.7 91.7 91.0 Efficiency (%) 75% 93.0 91.8 92.2 91.9 91.7 92.4 92.4 100% 93.0 91.7 92.1 92.0 91.0 91.7 91.7 25% 50% 0.65 0.64 0.61 0.58 0.71 0.68 0.65 Power Factor 75% 0.76 0.76 0.74 0.71 0.80 0.78 0.76 100% 0.82 0.82 0.80 0.79 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 8.8 8.3 8.4 8.8 8.8 9.6 P2 (0,5;1,0) 7.4 6.1 7.0 7.1 8.1 7.4 7.4 P3 (0,25;1,0) 7.2 7.2 7.2 6.0 6.8 6.9 7.9 P4 (0,9;0,5) 3.6 4.3 4.1 4.2 4.8 4.3 4.3 Losses (%) P5 (0,5;0,5) 2.9 2.5 3.1 2.9 3.3 3.1 3.1 P6 (0,5;0,25) 1.7 2.1 2.0 2.0 2.3 2.1 2.1 P7 1.2 1.5 1.4 1.4 1.6 1.5 1.5 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 548 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 794 kgf Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 21/10/2024 1/9 Date

DATA SHEET

Checked by

Date



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Three Phase Induction Motor - Squirrel Cage



Revision

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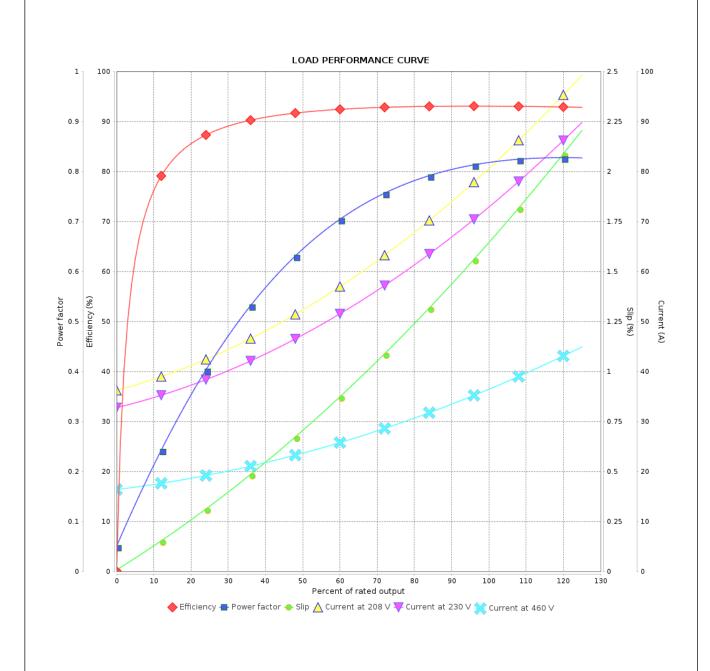
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Date

21/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11442886

Three-Phase



Performance : 230/460 V 60 Hz 6P : 72.4/36.2 A Rated current Moment of inertia (J) : 0.5561 kgm² **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 18.5 kgfm Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Date Performed Checked Rev. **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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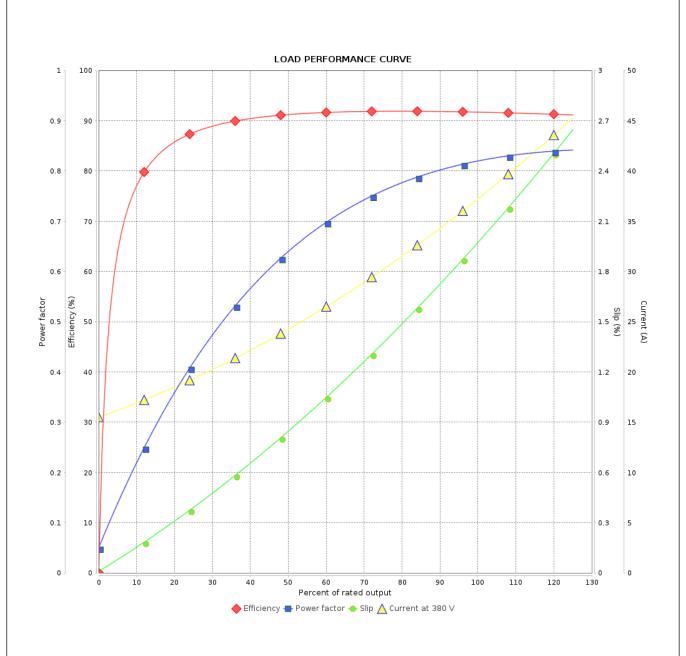
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

11442886

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| Performance | : 380 V 50 Hz 6P IE3 | | | | | | |
|--|---|--|-----------|--|----------|--|--|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 37.4 A : 5.8 : 18.5 kgfm : 190 % : 229 % : 980 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.5561 kgm² : Cont.(S1) : F : 1.00 : 80 K : B | | | |
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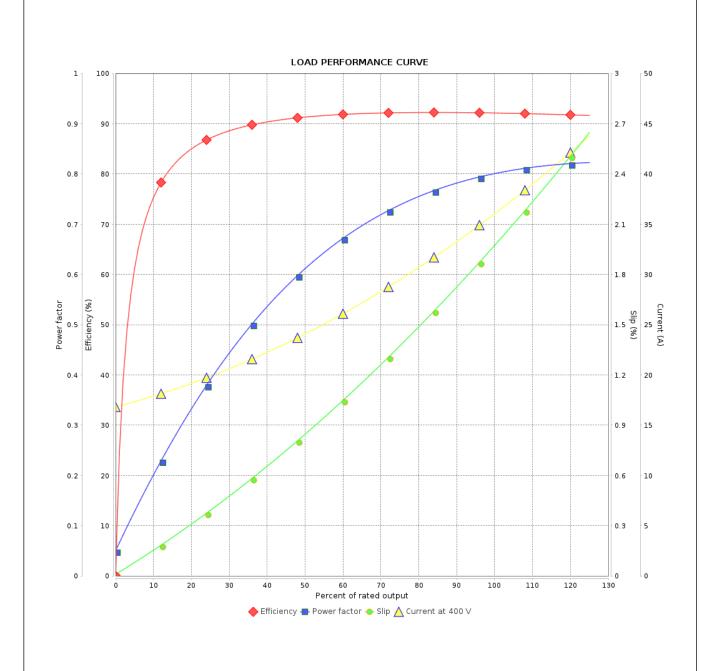
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11442886

Three-Phase



| Daufaussasas | | . 400 \/ 50 \ - 60 \ | | | | |
|-----------------------|----|-----------------------|------------|-----------------------|---------|------|
| Performance | | : 400 V 50 Hz 6P IE | =3 | | | |
| Rated current | | : 36.2 A | Moment | Moment of inertia (J) | | 2 |
| LRC | | : 6.3 | Duty cycl | Duty cycle | | |
| Rated torque | | : 18.5 kgfm | Insulation | Insulation class | | |
| Locked rotor torque | | : 220 % | Service f | Service factor | | |
| Breakdown torqu | ıe | : 260 % | Tempera | Temperature rise | | |
| Rated speed : 980 rpm | | Design | | : B | | |
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Three Phase Induction Motor - Squirrel Cage



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Product line : W22 NEMA Premium Efficiency

Three-Phase

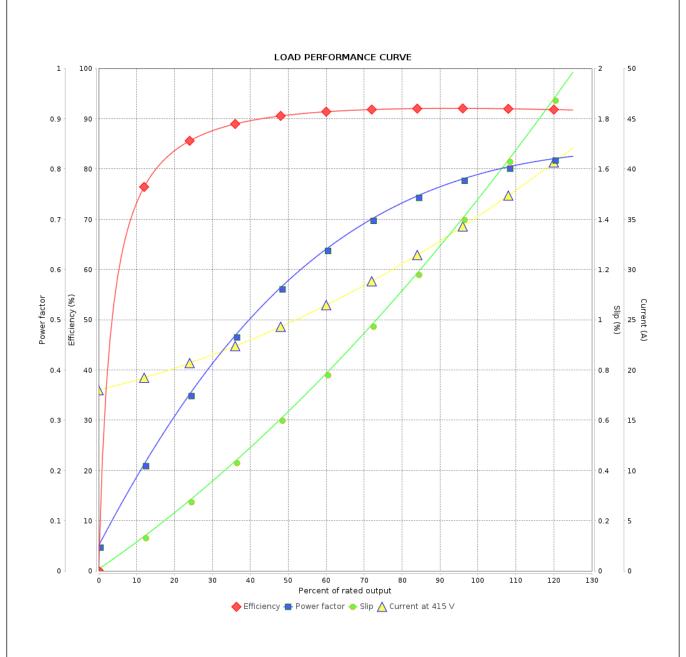
Product code:

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| Performance | : 415 V 50 Hz 6P IE3 | | | | |
|--|---|--|---------------|--|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 35.4 A : 6.7 : 18.4 kgfm : 240 % : 280 % : 985 rpm | Moment of Duty cycle Insulation Service for Temperat Design | class ctor | : 0.5561 kgm² : Cont.(S1) : F : 1.15 : 80 K : B | |
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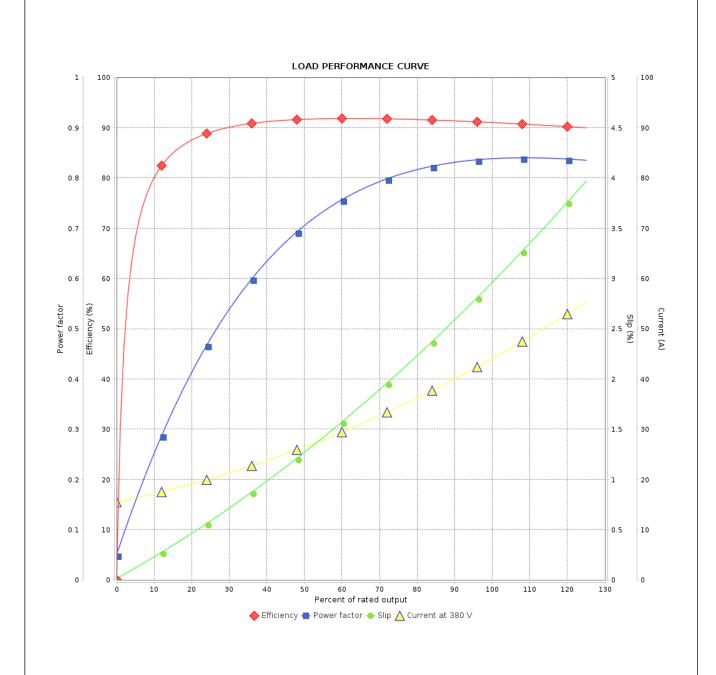
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11442886

Three-Phase



| Performance | : 3 | 880 V 50 Hz 6P IE2 | | | | |
|---|---------------------------------|---|--|--|---------|------|
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed | : 4 : 2 gue : 1 le : 2 | 3.7 A 9.9 22.4 kgfm 60 % 200 % 970 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

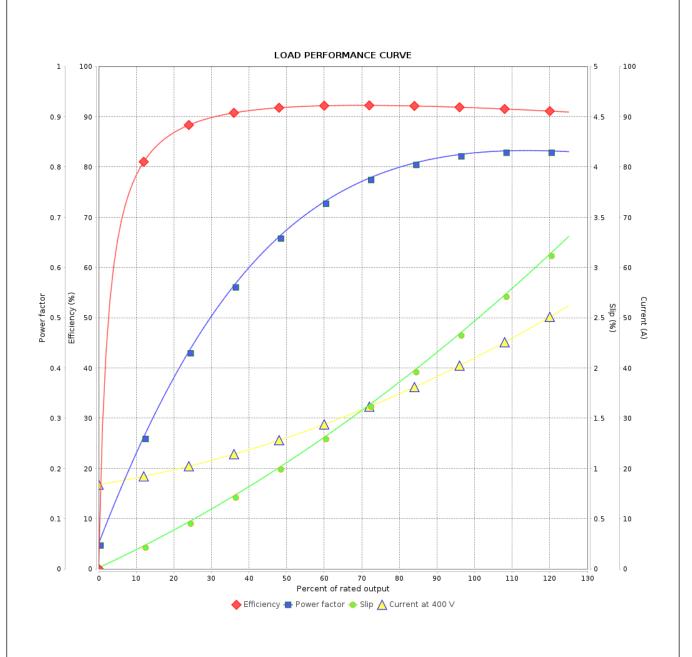


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11442886



| Performance | : 400 V 50 Hz 6P IE2 | | | |
|--|---|--|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 41.7 A : 5.4 : 22.3 kgfm : 180 % : 220 % : 975 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | : 0.5561 kgm² : Cont.(S1) : F : 1.15 : 80 K : B | 2 |
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Three Phase Induction Motor - Squirrel Cage



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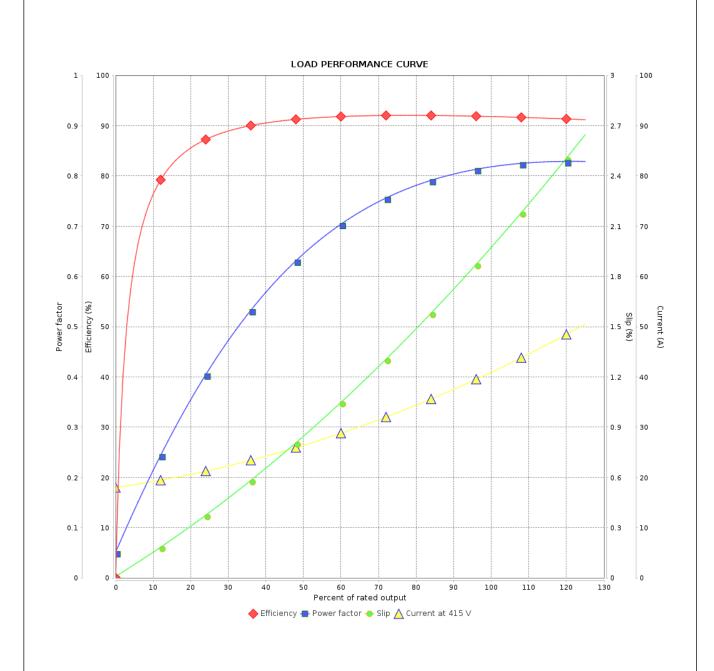
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Product line : W22 NEMA Premium Efficiency Product code : 11442886

Three-Phase



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|--|-----------------|---|---|---------|------|
| Performance | : 415 V 50 Hz 6 | SP IE2 | | | |
| Rated current LRC Rated torque Locked rotor tord Breakdown torqu | ie : 240 % | Duty cycle Insulation Service fa Temperati | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise | | |
| Rated speed | : 980 rpm | Design | | : B | |
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