DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11942005 Efficiency Three-Phase : 324/6T Frame 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm² Design : B 30 25 30 Output [HP] 25 25 30 30 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 43.7 Rated current [A] 36.2 36.9 36.2 35.4 41.7 40.7 L. R. Amperes [A] 224 214 228 237 214 225 236 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] 14.5 14.0 15.0 16.0 14.0 15.0 16.0 Rated speed [RPM] 1180 975 980 980 970 975 980 Slip [%] 1.67 2.50 2.00 2.00 3.00 2.50 2.00 Rated torque [kgfm] 18.5 18.6 18.5 18.5 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 Service factor 1.25 1.00 1.15 1.15 1.00 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) 15s (hot) 21s (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% 0.77 0.76 0.74 0.71 0.81 0.78 0.76 100% 0.82 0.83 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 7.3 7.3 7.3 7.3 7.3 7.3 P2 (0,5;1,0) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 P3 (0,25;1,0) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 P4 (0,9;0,5) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 Losses (%) P5 (0,5;0,5) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 671 kgf Max. traction Taconite Taconite Sealing : 671 kgf Max. compression Labyrinth Labyrinth Lubrication interval 20000 h 20000 h Lubricant amount 21 a 13 g Lubricant type Mobil Polyrex EM

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22/10/2024



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Three Phase Induction Motor - Squirrel Cage



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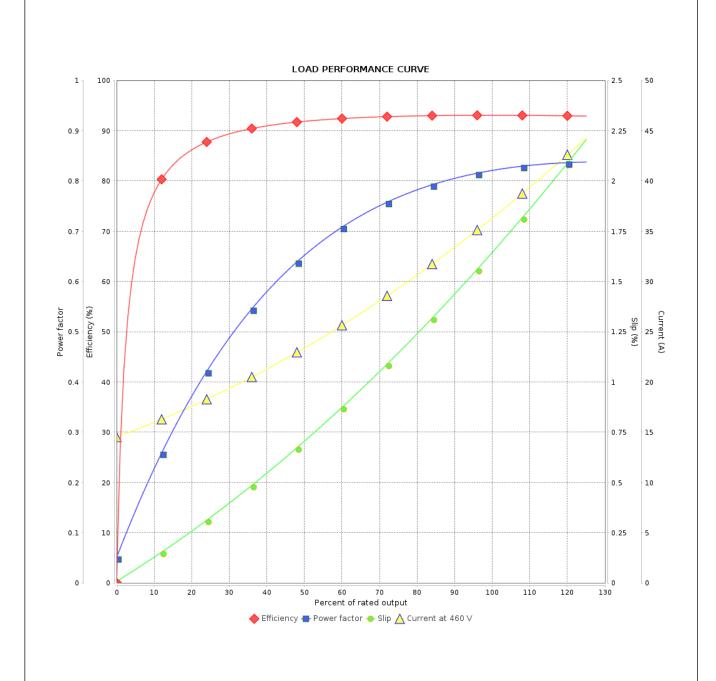
11942005

Customer :

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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



| Performance | : 460 V 60 Hz 6P | | | | |
|---------------------|------------------|------------------|----------------|---------------|------|
| Rated current | : 36.2 A | 1 | of inertia (J) | : 0.5561 kgm² | |
| LRC | : 6.2 | Duty cycle | | : Cont.(S1) | |
| Rated torque | : 18.5 kgfm | Insulation class | | : F | |
| Locked rotor torque | : 220 % | Service factor | | : 1.25 | |
| Breakdown torque | : 240 % | Temperati | ure rise | : 80 K | |
| Rated speed | : 1180 rpm | Design | | : B | |
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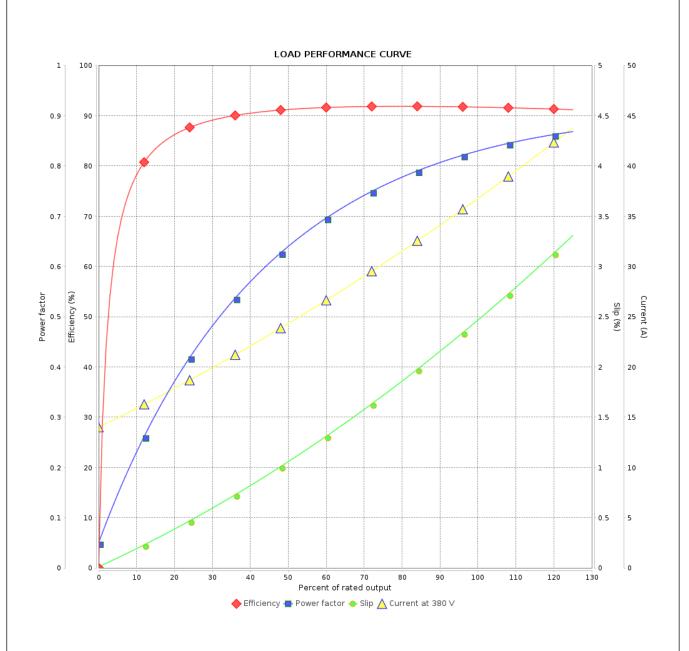


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



| Performance | : 380 V 50 Hz 6P IE3 | , | | | |
|---|---|--|--------------|--|----------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 36.9 A : 5.8 : 18.6 kgfm : 190 % : 229 % : 975 rpm | Moment of Duty cycle Insulation of Service fact Temperatur Design | class tor | : 0.5561 kgm² : Cont.(S1) : F : 1.00 : 80 K : B | 2 |
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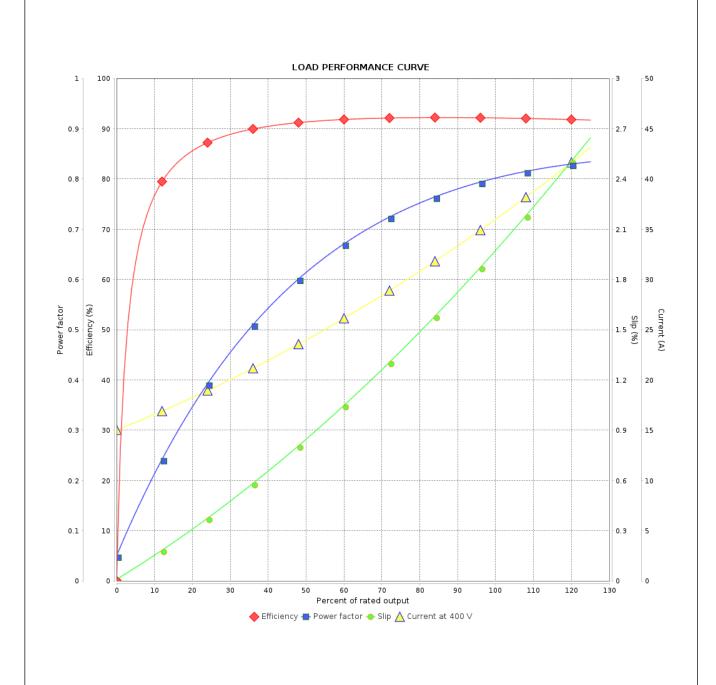


11942005

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



| Performance | : 400 V 50 H | | | |
|-----------------------------------|----------------------------|----------------------------------|-----------------------------|----------------|
| Rated current LRC | : 36.2 A : 6.3 | Moment of inertia (J) Duty cycle | : 0.5561 kgn : Cont.(S1) | 1 ² |
| Rated torque Locked rotor tord | : 18.5 kgfm que : 220 % | Insulation class Service factor | : F : 1.15 | |
| Breakdown torqu Rated speed | ue : 260 % : 980 rpm | Temperature rise Design | : 80 K : B | |
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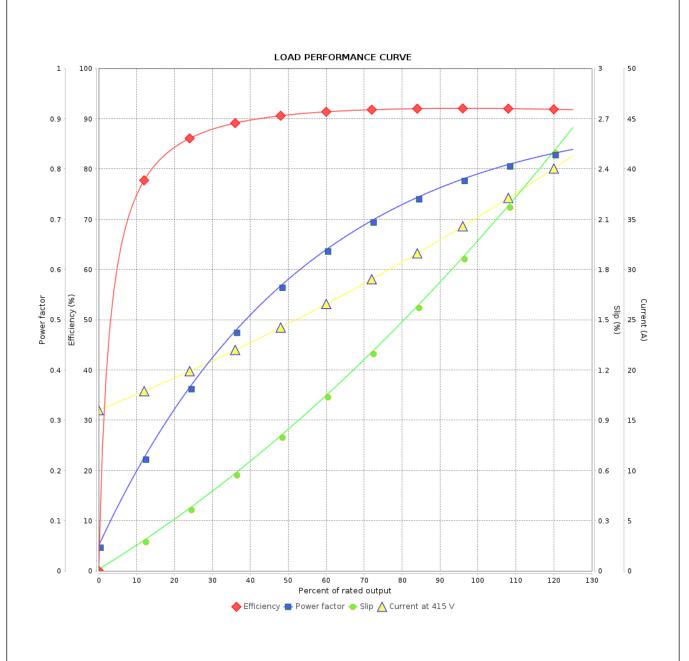


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Efficiency Three-Phase

Product code: 11942005



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|---|--|--|---|----------|--|
| : 415 V 50 Hz 6 | : 415 V 50 Hz 6P IE3 | | | | |
| d current : 35.4 A Moment of inertia (J) : 6.7 Duty cycle d torque : 18.5 kgfm Insulation class ed rotor torque : 240 % Service factor cdown torque : 280 % Temperature rise d speed : 980 rpm Design | | e ı class actor | : 0.5561 kgm : Cont.(S1) : F : 1.15 : 80 K : B | 2 | |
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| | | | Page | Revision | |
| ۰ | : 35.4 A : 6.7 : 18.5 kgfm : 240 % :e : 280 % : 980 rpm | : 35.4 A Moment of English Service for English | : 35.4 A : 6.7 : 18.5 kgfm Jue : 240 % Insulation class Service factor Temperature rise Service factor Temperature rise Design | : 35.4 A | |

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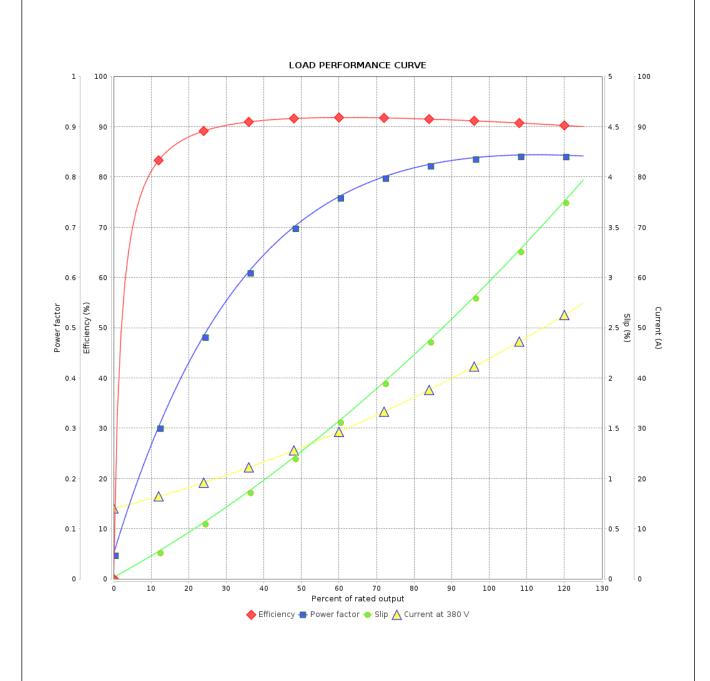
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



| Performance | | : 380 V 50 Hz 6 | iP IE2 | | | | |
|--|--|-----------------|---|--|-----------|---------|------|
| Rated current : 43.7 A LRC : 4.9 Rated torque : 22.4 kgfm Locked rotor torque : 160 % Breakdown torque : 200 % Rated speed : 970 rpm | | | Moment of inertia (J) : 0.5561 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B | | 2 | | |
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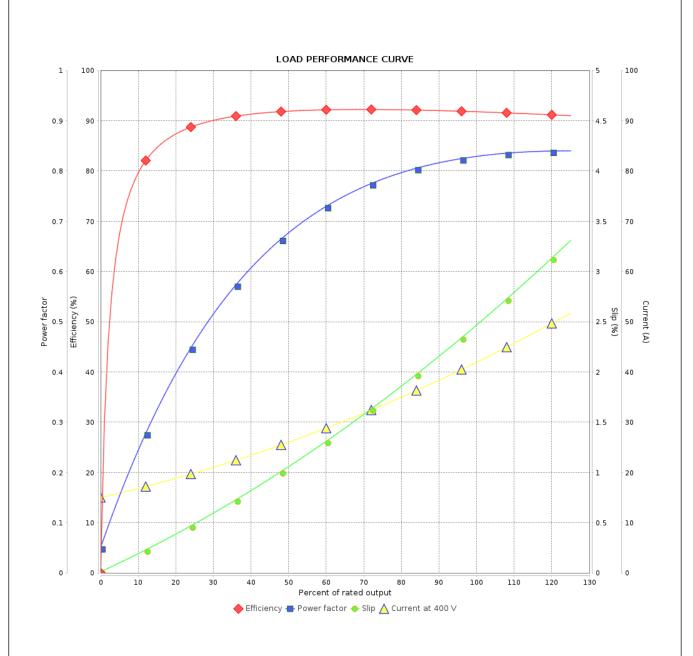
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11942005



| 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 Duty cycle Insulation Service fa Temperat Design | class ctor | : 0.5561 kgm² : Cont.(S1) : F : 1.15 : 80 K : B | |
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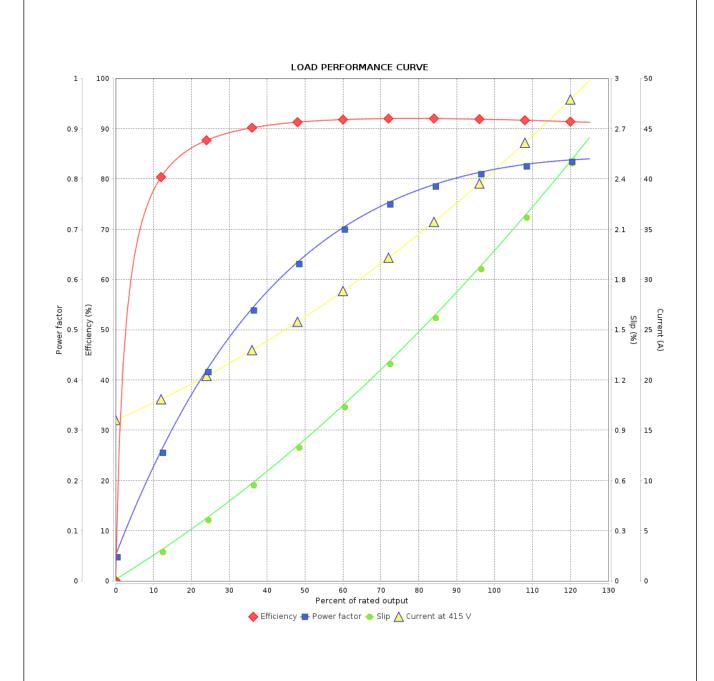


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Product line : W22 IEEE 841 NEMA Premium Product code : 11942005

Efficiency Three-Phase



| | | | | | |
|---------------------|----------------------|----------------|----------------|---------------|------|
| Performance | : 415 V 50 Hz 6P IE2 | | | | |
| Rated current | : 40.7 A | Moment of | of inertia (J) | : 0.5561 kgm² | |
| LRC | : 5.8 | Duty cycle | e | : Cont.(S1) | |
| Rated torque | : 22.2 kgfm | Insulation | class | : F | |
| Locked rotor torque | : 200 % | Service factor | | : 1.15 | |
| Breakdown torque | : 240 % | Temperat | ure rise | : 80 K | |
| Rated speed | : 980 rpm | Design | | : B | |
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