DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11941736 Efficiency Three-Phase : 324TC Cooling method Frame : 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) : 0.4843 kgm² Design : B Output [HP] 25 20 20 25 20 25 25 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 380 Rated voltage [V] 460 380 400 415 400 415 36.8 Rated current [A] 30.5 30.0 29.4 28.7 35.5 34.6 174 L. R. Amperes [A] 183 185 195 184 192 201 LRC [A] 6.0x(Code 5.8x(Code | 6.3x(Code H) | 6.8x(Code H) | 5.0x(Code E) | 5.4x(Code F) | 5.8x(Code G) G) G) 12.3 No load current [A] 12.5 12.3 13.3 14.2 13.3 14.2 Rated speed [RPM] 1180 980 983 985 970 976 975 3.00 Slip [%] 1.67 2.00 1.70 1.50 2.40 2.50 Rated torque [kgfm] 15.4 14.8 14.8 14.7 18.7 18.6 18.6 Locked rotor torque [%] 210 200 229 250 160 180 190 Breakdown torque [%] 250 240 280 300 200 220 240 1.00 Service factor 1.25 1.00 1.15 1.15 1.15 1.15 Temperature rise 80 K 32s (cold) Locked rotor time 46s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 32s (cold) 26s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (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 91.1 91.1 91.1 91.7 91.7 91.7 Efficiency (%) 75% 93.0 91.8 92.2 92.2 91.7 92.4 92.4 100% 93.0 91.6 92.2 92.2 91.0 91.7 91.7 25% 50% 0.65 0.63 0.60 0.57 0.71 0.68 0.65 Power Factor 75% 0.77 0.76 0.74 0.71 0.81 0.79 0.77 100% 0.82 0.83 0.80 0.79 0.84 0.82 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 8.9 8.2 8.2 8.8 9.6 8.8 P2 (0,5;1,0) 7.5 6.1 6.9 6.9 8.1 7.4 7.4 P3 (0,25;1,0) 7.3 7.2 7.2 6.0 6.7 6.7 7.9 P4 (0,9;0,5) 4.3 3.6 4.0 4.0 4.7 4.3 4.3 Losses (%) P5 (0,5;0,5) 3.0 2.8 2.5 2.8 3.2 3.0 3.0 P6 (0,5;0,25) 2.0 1.6 2.0 2.1 2.0 1.8 1.8 P7 1.4 1.3 1.5 1.4 1.1 1.3 1.4 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 : 562 kgf Max. traction Taconite **Taconite** Sealing : 562 kgf Max. compression Labyrinth Labyrinth 20000 h Lubrication interval 20000 h Lubricant amount 21 a 13 g Lubricant type Mobil Polyrex EM

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DATA SHEET

Date

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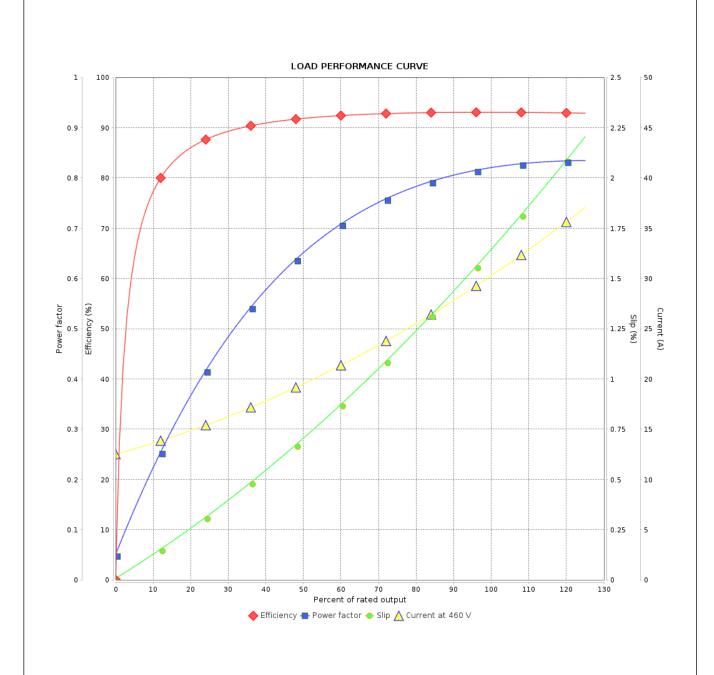
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Date

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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.5 A : 6.0 : 15.4 kgfm : 210 % : 250 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

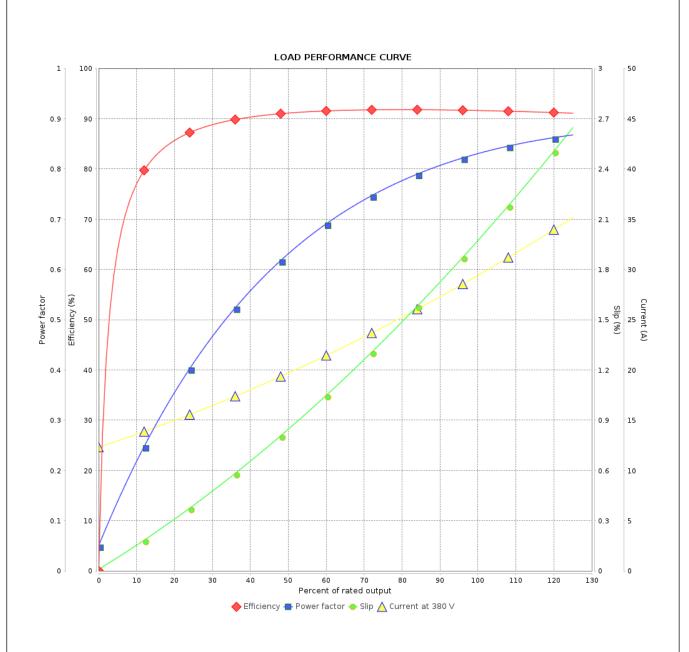


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941736



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 30.0 A : 5.8 : 14.8 kgfm : 200 % : 240 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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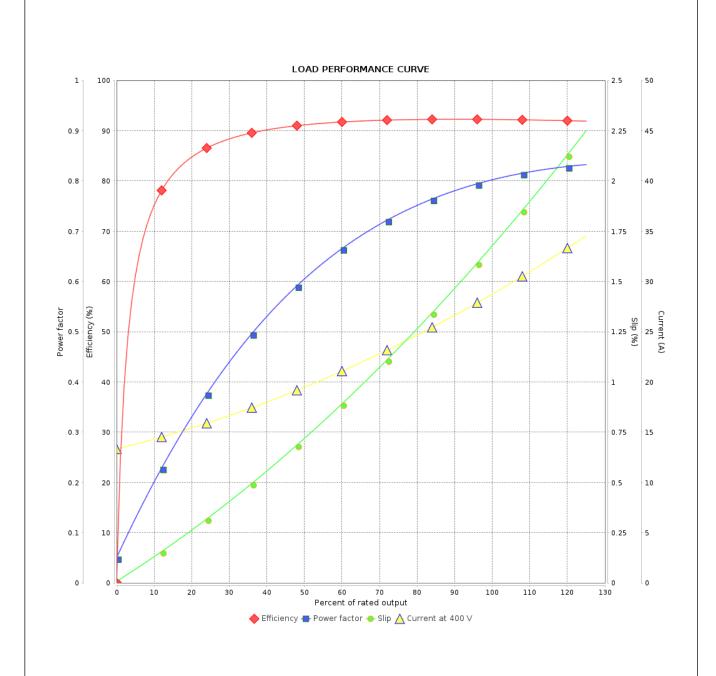


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance : 400 V 50 Hz 6P IE3	
Rated current : 29.4 A	: Cont.(S1) ss : F : 1.15
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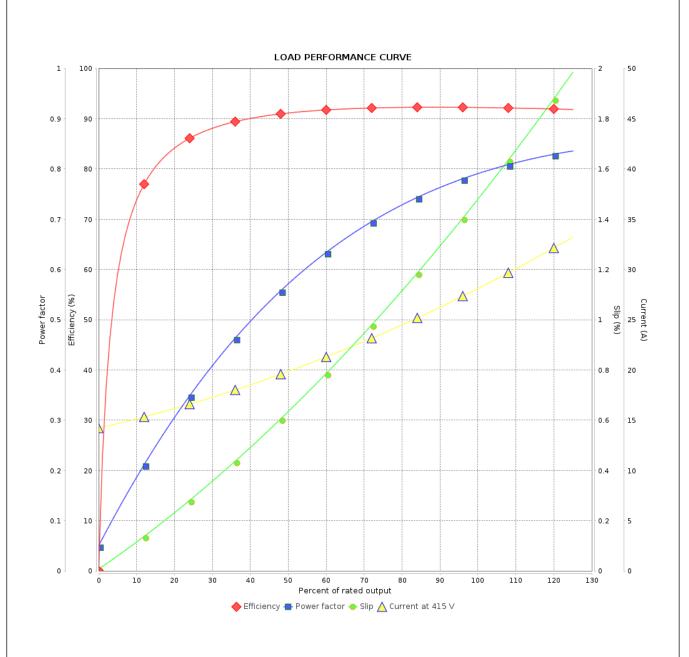


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941736



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.7 A : 6.8 : 14.7 kgfm : 250 % : 300 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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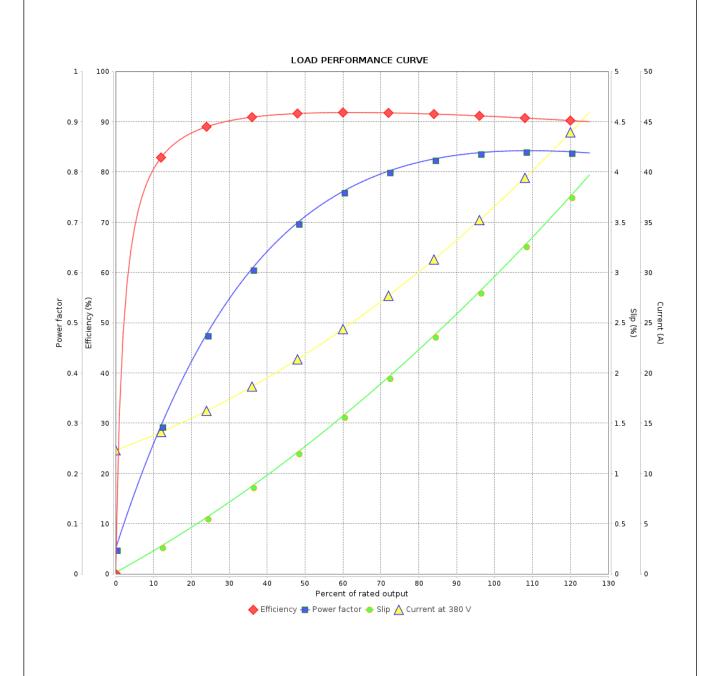


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941736



Performance		: 380 V 50 Hz 6P	IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 36.8 A : 5.0 : 18.7 kgfm : 160 % : 200 % : 970 rpm] 	Moment o Duty cycle nsulation Service fa Temperatu Design	class ctor	: 0.4843 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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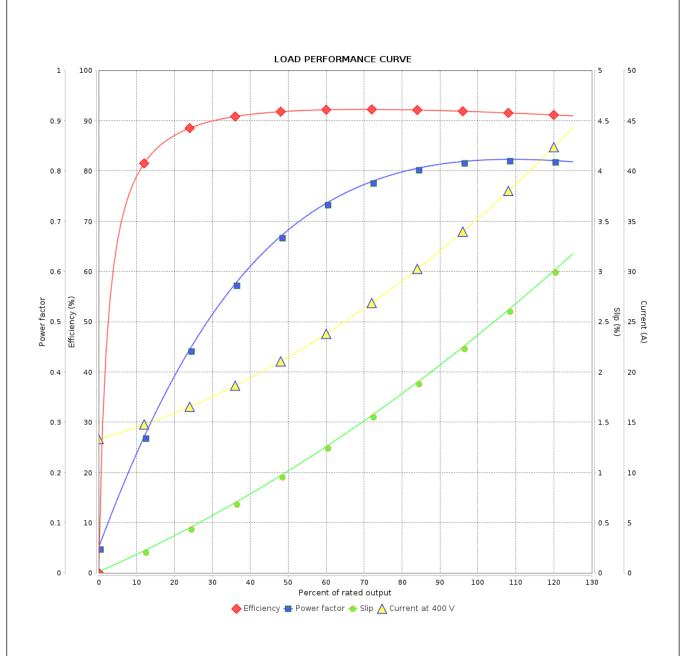


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11941736



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.5 A : 5.4 : 18.6 kgfm : 180 % : 220 % : 976 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4843 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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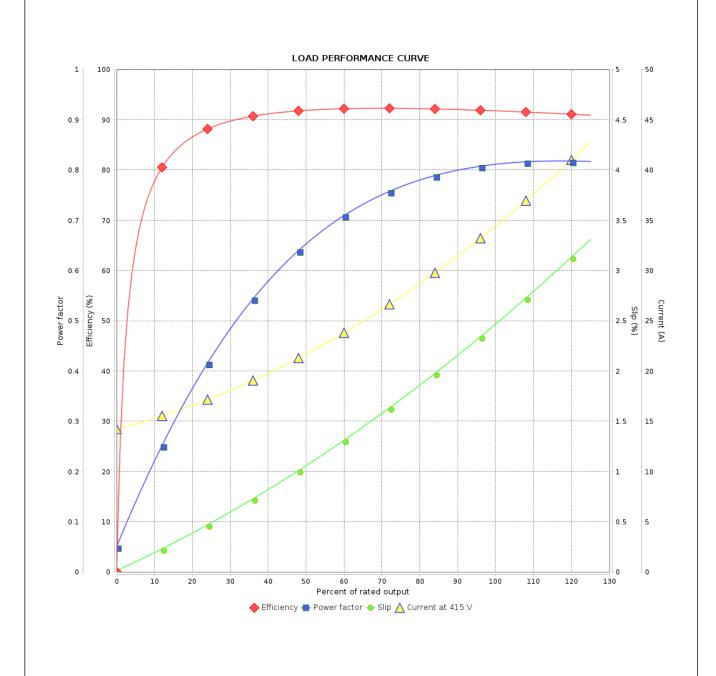


Customer :

Product line : W22 IEEE 841 NEMA Premium Pr

Efficiency Three-Phase

Product code: 11941736



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.6 A : 5.8 : 18.6 kgfm : 190 % : 240 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4843 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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