DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11514036 Efficiency Three-Phase Frame : 254/6T 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 Altitude : 131 kg Protection degree : IP55 Moment of inertia (J) : 0.1867 kgm² Design : B Output [HP] 10 10 10 10 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 12.9 15.4 14.8 14.4 L. R. Amperes [A] 80.0 73.9 79.9 83.5 LRC [A] 6.2x(Code H) 4.8x(Code F) 5.4x(Code G) 5.8x(Code H) No load current [A] 6.00 4.90 6.30 6.60 Rated speed [RPM] 1175 965 970 975 Slip [%] 2.08 3.50 3.00 2.50 Rated torque [kgfm] 6.17 7.50 7.47 7.44 Locked rotor torque [%] 220 160 190 210 Breakdown torque [%] 270 210 229 250 Service factor 1.25 1.00 1.15 1.15 Temperature rise 80 K 105 K 105 K 80 K 39s (cold) 22s (hot) Locked rotor time 46s (cold) 26s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 50% 90.2 90.2 90.2 89.5 Efficiency (%) 75% 91.0 89.5 90.2 90.2 100% 91.0 89.1 89.5 89.5 25% 50% 0.63 0.70 0.66 0.64 Power Factor 75% 0.74 0.79 0.77 0.75 0.80 0.83 0.82 0.81 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.0 13.0 10.9 13.6 P2 (0,5;1,0) 9.4 12.1 11.5 11.5 P3 (0,25;1,0) 8.9 11.0 11.0 11.6 P4 (0,9;0,5) Losses (%) 5.6 6.8 6.5 6.5 P5 (0,5;0,5) 4.8 4.0 5.0 4.8 P6 (0,5;0,25) 2.9 3.6 3.4 3.4 P7 (0,25;0,25) 2.0 2.7 2.5 2.5 Non drive end Foundation loads Drive end 6309 C3 6209 C3 Bearing type : 227 kgf Max. traction Sealing **Taconite** Taconite : 358 kgf Max. compression Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 9 g 13 g 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). Date **Changes Summary** Performed Checked Rev. Performed by Checked by Page Revision

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22/10/2024

Date

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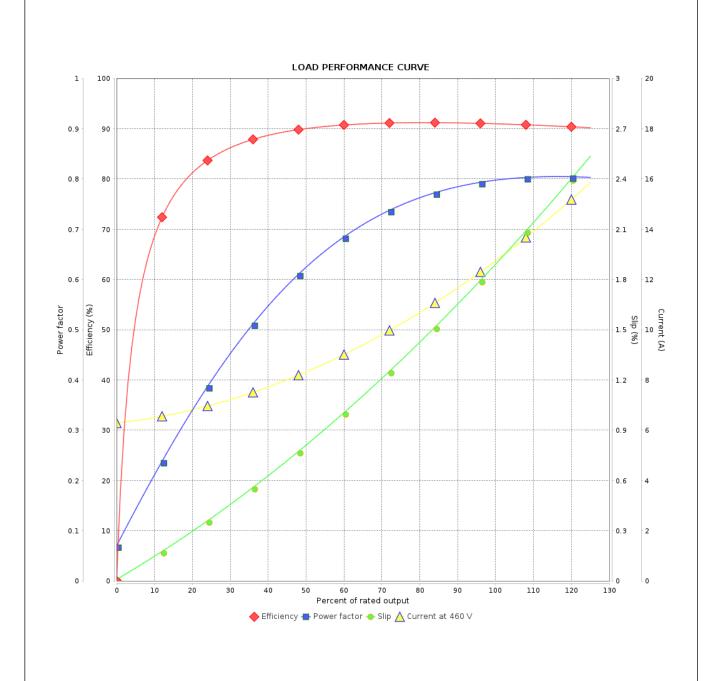
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Customer :

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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 6P	: 460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.9 A : 6.2 : 6.17 kgfm : 220 % : 270 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1867 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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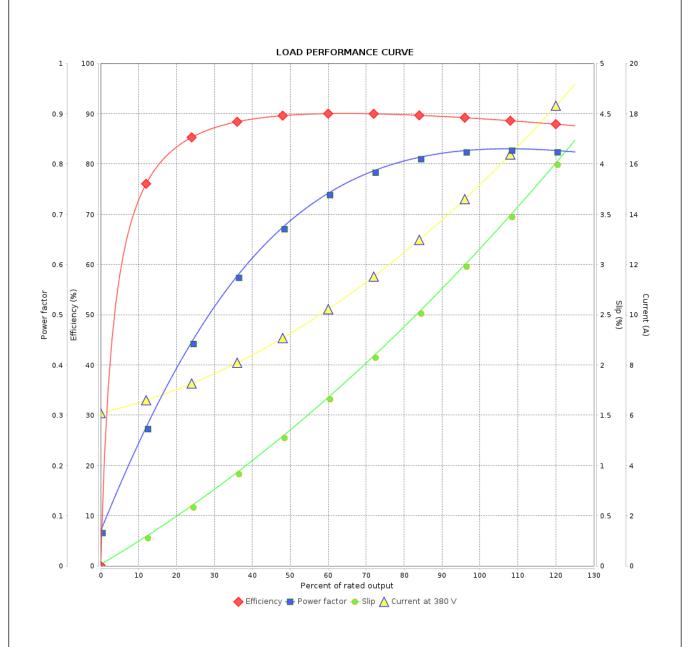
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11514036



Performance	: 3	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 2 : 7 jue : 1	15.4 A 4.8 7.50 kgfm 160 % 210 % 965 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1867 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



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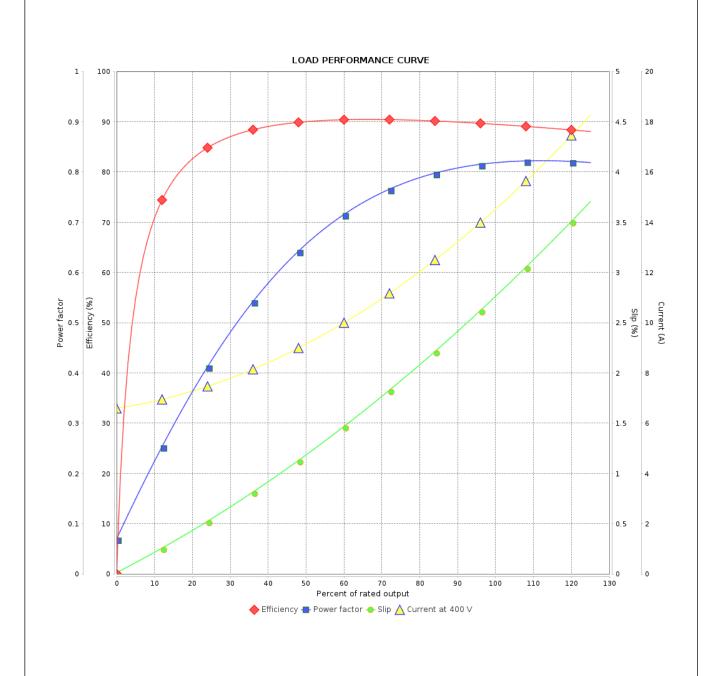
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11514036



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.8 A : 5.4 : 7.47 kgfm : 190 % : 229 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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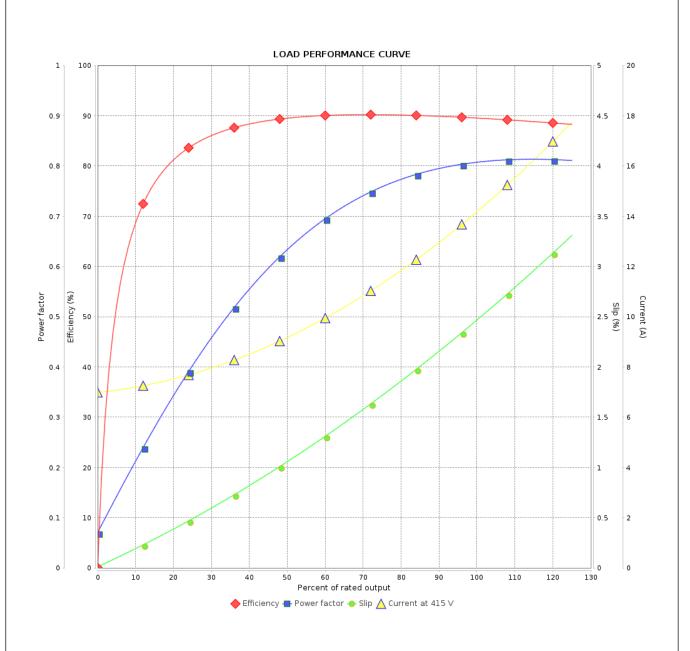


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11514036



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Performance	: 4	: 415 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 7 que : 2 ue : 2	4.4 A .8 .44 kgfm 10 % 50 % 75 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1867 kgm : Cont.(S1) : F : 1.15 : 80 K : B	2		
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