DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12709736 Efficiency Three-Phase Cooling method Frame : 213/5TC : 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 Approx. weight³ Altitude : 1000 m.a.s.l. : 77.5 kg Protection degree : IP56 Moment of inertia (J) : 0.0268 kgm² Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 460 380 400 415 400 415 Rated current [A] 14.3 11.7 10.6 10.4 10.0 13.7 13.4 L. R. Amperes [A] 84.5 83.8 90.8 91.2 80.1 87.9 92.5 LRC [A] 7.2x(Code H) 7.9x(Code J) 8.7x(Code K) 9.1x(Code K) 5.6x(Code F) 6.4x(Code 6.9x(Code H) G) No load current [A] 3.60 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3520 2930 2940 2945 2885 2900 2910 Slip [%] 2.22 2.33 2.00 1.83 3.83 3.33 3.00 Rated torque [kgfm] 2.06 1.86 1.85 1.85 2.52 2.50 2.49 Locked rotor torque [%] 220 220 240 260 170 190 200 Breakdown torque [%] 290 300 340 360 220 250 270 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (cold) 21s (cold) 12s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (hot) 12s (hot) Noise level² 68.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 89.5 88.6 88.4 87.7 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.6 89.6 89.5 89.5 89.5 89.5 100% 90.2 89.5 89.5 89.8 88.5 88.5 88.5 25% 50% 0.79 0.75 0.72 0.70 0.83 0.81 0.79 Power Factor 75% 0.86 0.85 0.83 0.81 0.89 0.87 0.86 100% 0.89 0.88 0.85 0.85 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.5 11.4 11.0 12.6 12.6 11.4 12.6 P2 (0,5;1,0) 8.5 9.2 9.2 8.9 10.1 10.1 10.1 P3 (0,25;1,0) 7.4 8.0 8.0 7.8 8.9 8.9 8.9 P4 (0,9;0,5) 5.1 5.6 5.6 5.4 6.2 6.2 6.2 Losses (%) P5 (0,5;0,5) 3.2 3.4 3.4 3.3 3.8 3.8 3.8 P6 (0,5;0,25) 2.0 2.2 2.2 2.1 2.4 2.4 2.4 P7 1.3 1.2 1.3 1.3 1.5 1.5 1.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 C3 6207 C3 : 86 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 163 kgf 20000 h Lubrication interval 20000 h Lubricant amount 11 q 7 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 30/10/2024 1/9 Date

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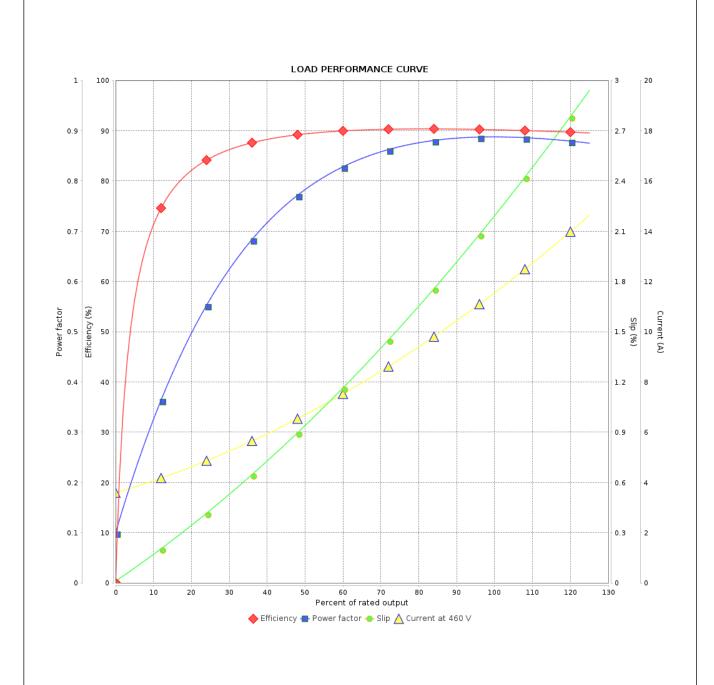
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Customer :

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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque	: 11.7 A : 7.2 : 2.06 kgfm : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.0268 kgm² : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed	: 290 % : 3520 rpm	Temperature rise Design		: 80 K : B	
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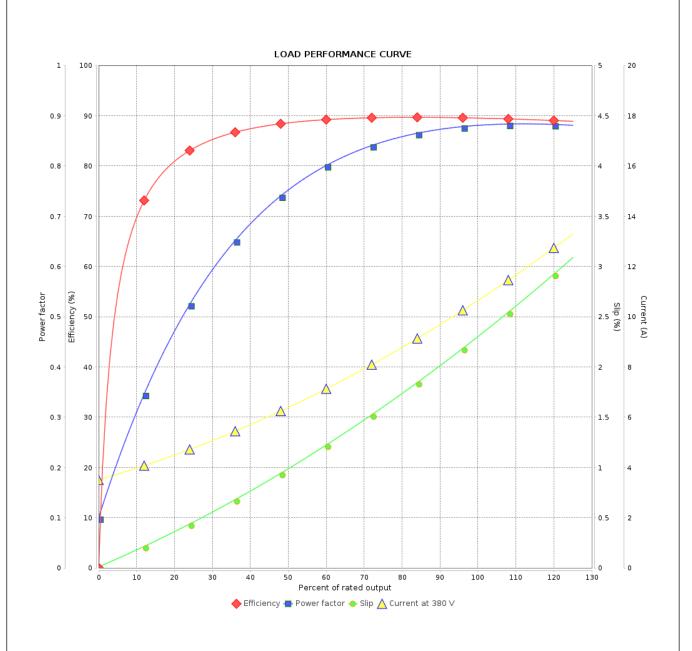


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12709736



Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.6 A : 7.9 : 1.86 kgfm : 220 % : 300 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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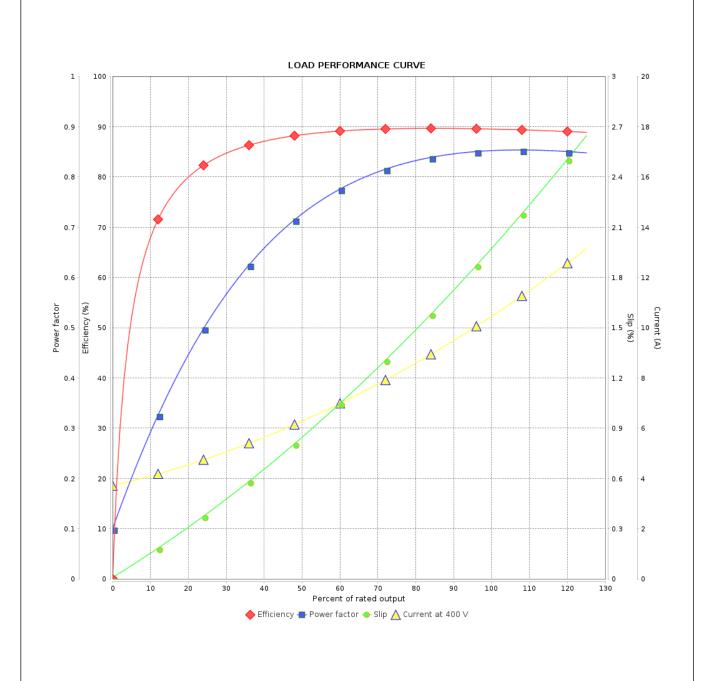
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Product line : W22 IEEE 841 NEMA Premium Product code : 12709736

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE3	T.			
Rated current	: 10.4 A	Moment of inertia (J)		: 0.0268 kgm²	
LRC	: 8.7	Duty cycle		: Cont.(S1)	
Rated torque	: 1.85 kgfm	Insulation class		: F	
Locked rotor torque	: 240 %	Service factor Temperature rise		: 1.25 : 80 K	
Breakdown torque	: 340 %				
Rated speed	: 2940 rpm	Design		: B	
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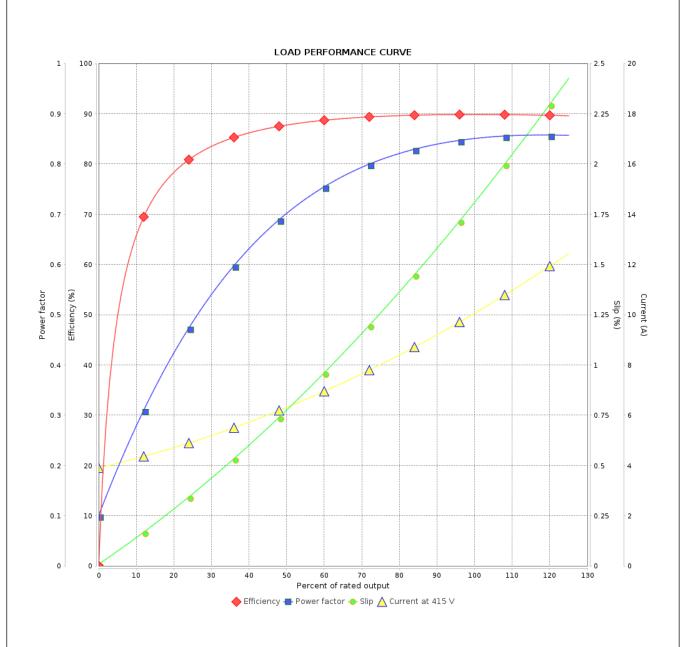


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Efficiency Three-Phase

Product code: 12709736



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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.0 A : 9.1 : 1.85 kgfm : 260 % : 360 % : 2945 rpm	Moment of inert Duty cycle Insulation class Service factor Temperature ris Design	` ,	: 0.0268 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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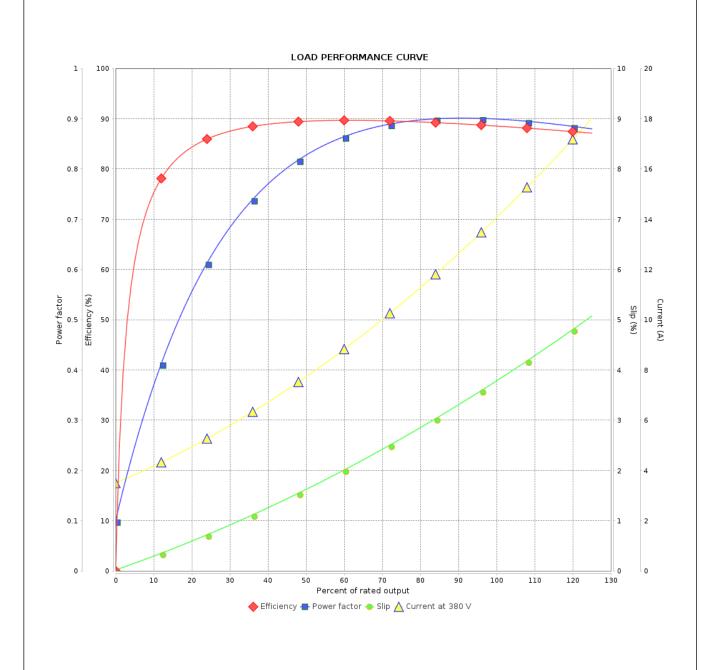


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12709736



Performance : 380 V 50 Hz 2P IE2 : 14.3 A Rated current Moment of inertia (J) : 0.0268 kgm² **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.52 kgfm Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2885 rpm Design : B Checked Rev. **Changes Summary** Performed Date

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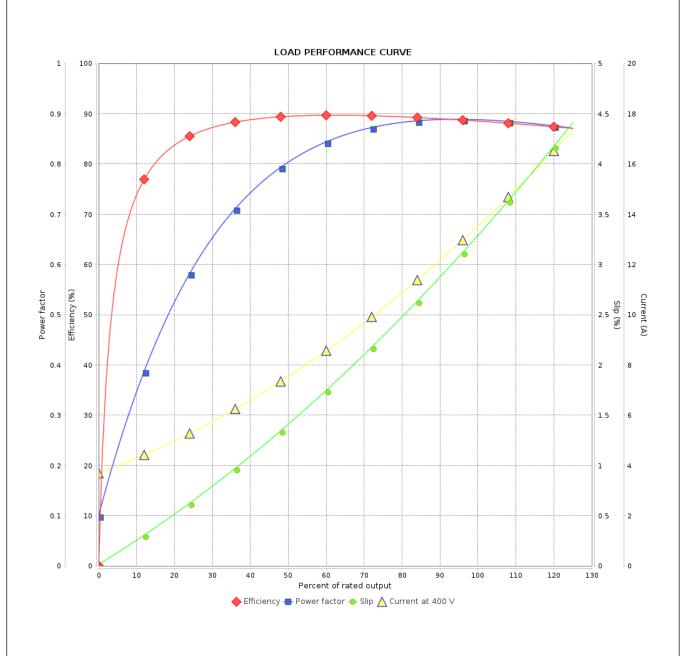


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Efficiency Three-Phase

Product code: 12709736



Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.7 A : 6.4 : 2.50 kgfm : 190 % : 250 % : 2900 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	s	: 0.0268 kgm ² : Cont.(S1) : F : 1.00 : 105 K : B	
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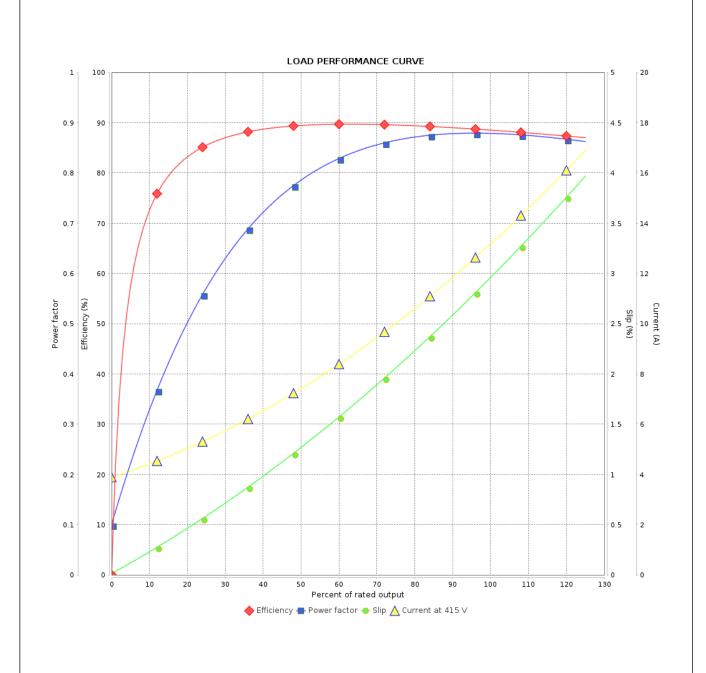
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.4 A : 6.9 : 2.49 kgfm : 200 % : 270 % : 2910 rpm	Moment of inertia (J) : 0.0268 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B			
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