DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 11431348 : 213/5T 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 Approx. weight³ : 76.1 kg Altitude : 1000 m.a.s.l. Protection degree : IP56 Moment of inertia (J) : 0.0268 kgm² Design : B Output [HP] 10 10 7.5 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 14.3 Rated current [A] 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] 3.50 3.60 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 Service factor 1.25 1.25 1.25 1.25 1.00 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) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (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 1.2 1.3 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 Inpro/Seal Inpro/Seal Sealing Max. compression : 162 kgf Lubrication interval 20000 h 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

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Three Phase Induction Motor - Squirrel Cage



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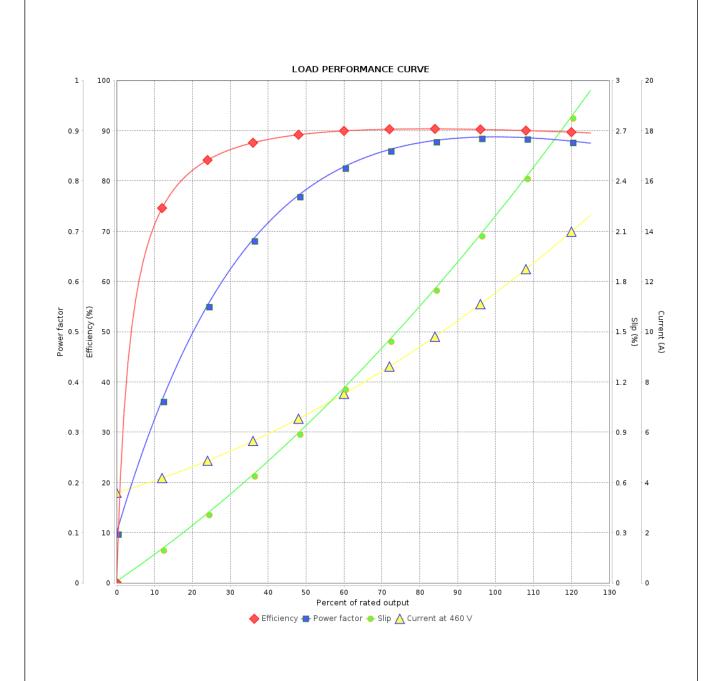
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15/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11431348

Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	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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Three Phase Induction Motor - Squirrel Cage

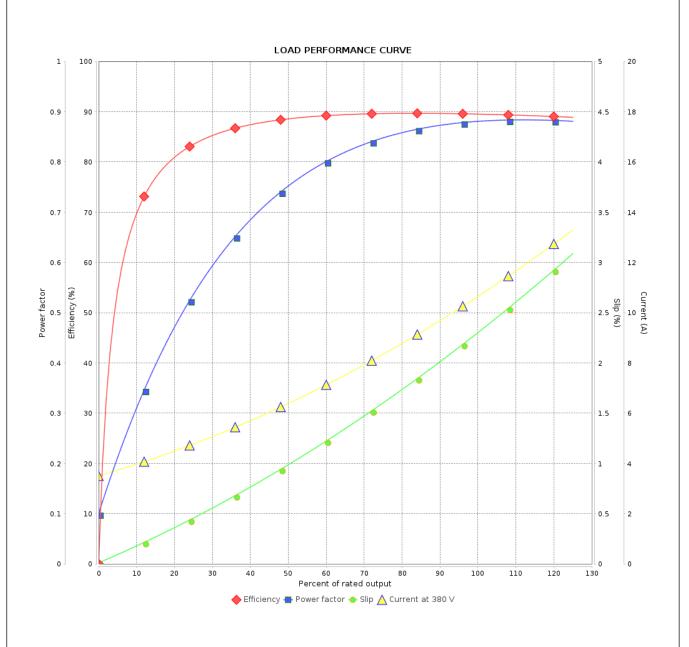


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 11431348



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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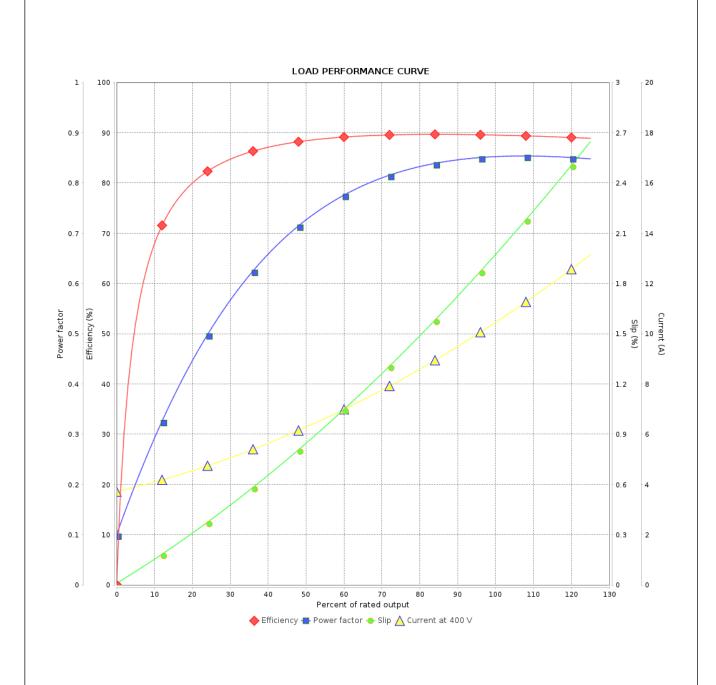
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11431348

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 8.7 : 1.85 kgfm : 240 % : 340 % : 2940 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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Three Phase Induction Motor - Squirrel Cage



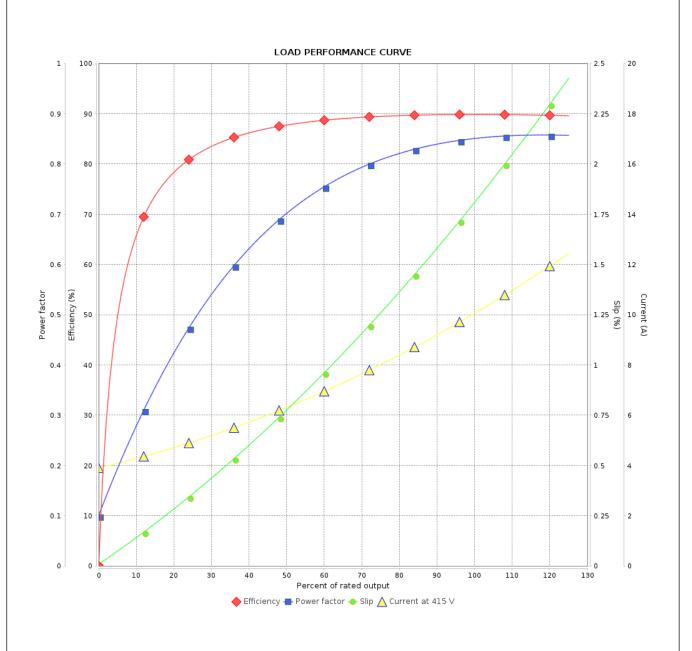
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code: 11431348



Performance : 415 V 50 Hz 2P IE3 : 10.0 A : 0.0268 kgm² Rated current Moment of inertia (J) **LRC** : 9.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.85 kgfm : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 6/9

Three Phase Induction Motor - Squirrel Cage



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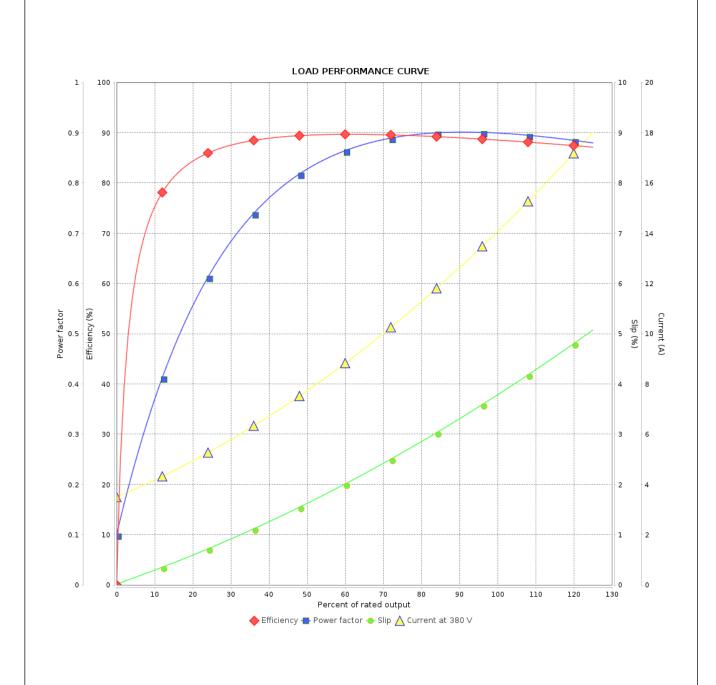
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Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11431348

Three-Phase



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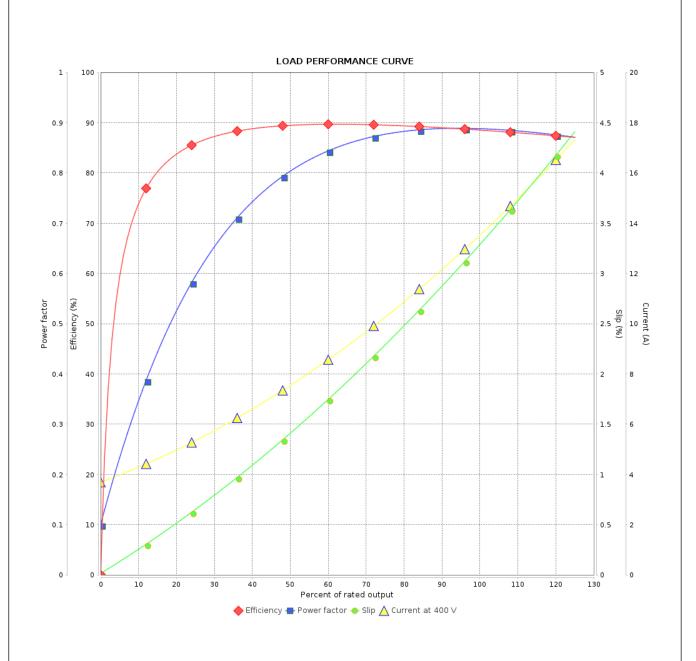


Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

11431348



Performance	;	: 400 V 50 Hz 2P IE2					
Rated current		: 13.7 A	Moment of inertia (J)		: 0.0268 kgm²		
LRC		: 6.4	Duty cycl	Duty cycle			
Rated torque		: 2.50 kgfm		Insulation class		: Cont.(S1) : F	
Locked rotor torque		: 190 %	Service fa	actor	: 1.00		
Breakdown torque		: 250 %	Temperat	Temperature rise			
Rated speed	:	: 2900 rpm	Design	Design : B			
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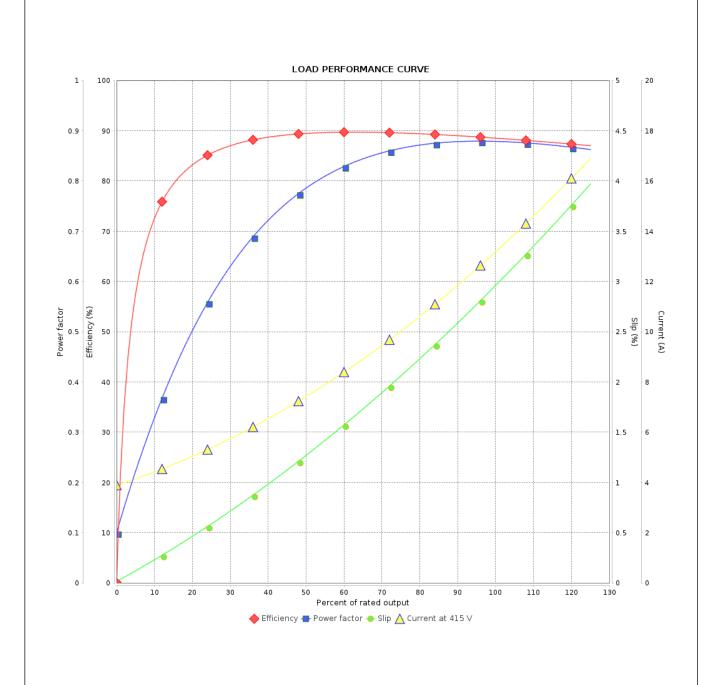
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 11431348

Three-Phase



Performance	: 4	115 V 50 Hz 2P IE2					
Rated current		13.4 A	Moment of inertia (J)		: 0.0268 kgm²		
LRC		6.9	Duty cycle	1		: Cont.(S1)	
Rated torque		2.49 kgfm	Insulation class		: F		
Locked rotor torque		200 %	Service fa		: 1.00		
Breakdown torque		270 %	Temperature rise		: 105 K		
Rated speed		: 2910 rpm De:			: B		
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