### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12373844 Efficiency Three-Phase : 182/4T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 43.0 kg Protection degree : IP56 Moment of inertia (J) : 0.0080 kgm<sup>2</sup> Design : B Output [HP] 3 2 2 2 3 3 3 Poles 2 2 2 2 2 2 2 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 4.34 3.63 3.09 3.00 2.96 4.17 4.07 L. R. Amperes [A] 29.5 31.2 29.7 32.1 32.9 31.7 33.0 LRC [A] 8.6x(Code K) 9.6x(Code L) 10.7x(Code 11.1x(Code 6.8x(Code H) 7.6x(Code J) 8.1x(Code J) M) N) No load current [A] 1.30 1.25 1.35 1.40 1.25 1.35 1.40 Rated speed [RPM] 3510 2930 2935 2940 2880 2890 2900 Slip [%] 2.50 2.33 2.17 2.00 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.495 0.495 0.494 0.756 0.753 0.751 Locked rotor torque [%] 250 300 340 370 210 240 260 Breakdown torque [%] 380 430 480 520 290 320 350 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 54s (cold) 54s (cold) Locked rotor time 73s (cold) 54s (cold) 54s (cold) 54s (cold) 54s (cold) 41s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) 30s (hot) Noise level<sup>2</sup> 66.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 25% 50% 82.5 81.0 80.6 79.7 84.0 84.0 84.0 Efficiency (%) 75% 86.5 84.5 84.5 84.1 86.5 86.5 86.5 100% 86.5 85.8 85.8 85.9 85.5 85.5 85.5 25% 50% 0.75 0.68 0.65 0.63 0.80 0.77 0.75 Power Factor 75% 0.84 0.79 0.77 0.75 0.87 0.86 0.84 100% 0.88 0.86 0.84 0.82 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.1 14.1 14.1 14.1 14.1 14.1 14.1 P2 (0,5;1,0) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 P3 (0,25;1,0) 8.5 8.5 8.5 8.5 8.5 8.5 8.5 P4 (0,9;0,5) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 Losses (%) P5 (0,5;0,5) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P6 (0,5;0,25) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 P7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6207 C3 6206 C3 : 33 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 76 kgf Lubrication interval 20000 h 20000 h 5 g Lubricant amount 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 22/10/2024 1/9 Date

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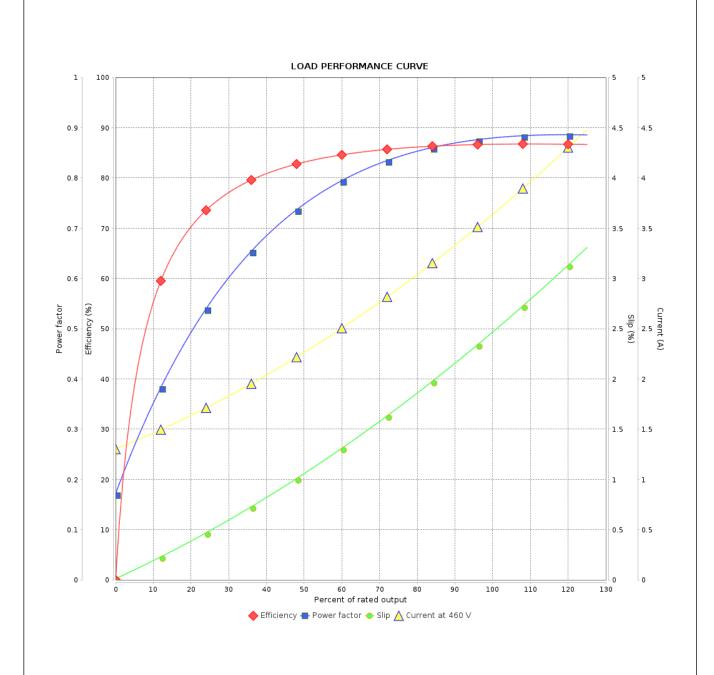
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Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium Product code : 12373844

Efficiency Three-Phase



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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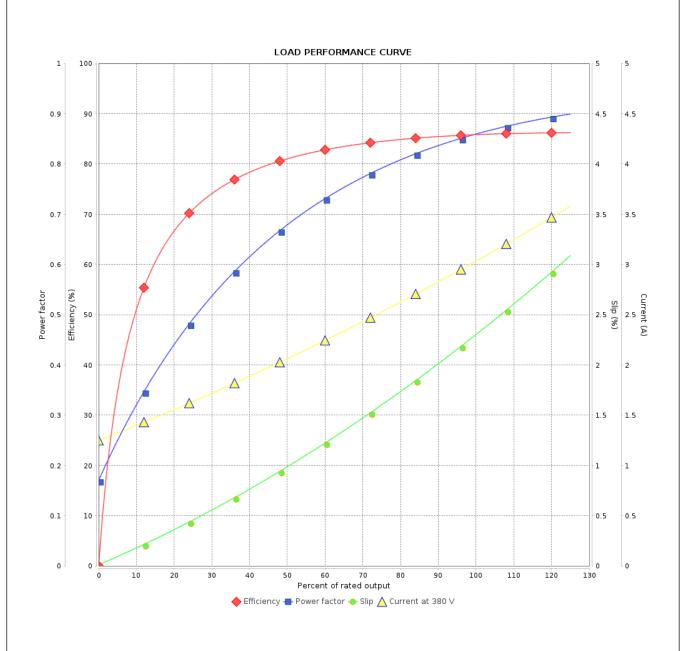


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373844



Performance	: 380 V 50 Hz 2P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.09 A : 9.6 : 0.495 kgfm : 300 % : 430 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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### Three Phase Induction Motor - Squirrel Cage



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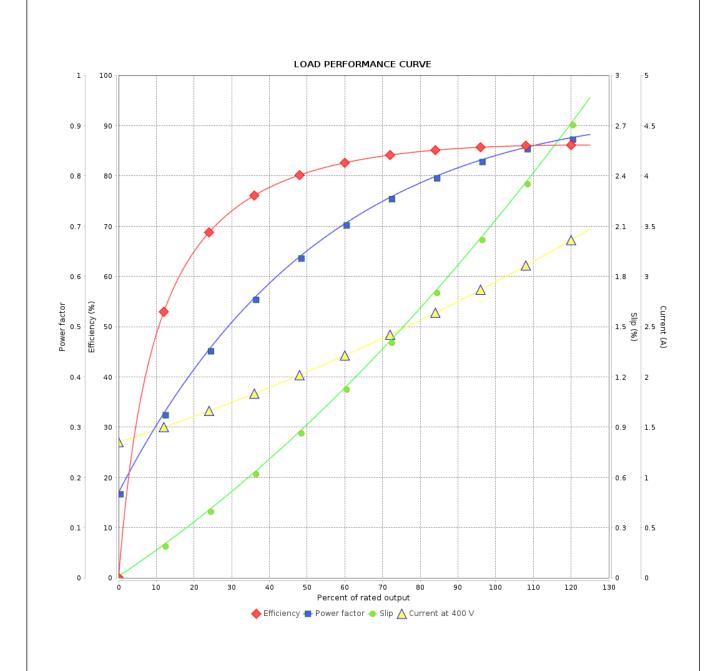
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Product line : W22 IEEE 841 NEMA Premium Product code : 12373844

Efficiency Three-Phase



Performance	: 400 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.00 A : 10.7 : 0.495 kgfm : 340 % : 480 % : 2935 rpm	: 10.7 Duty cycle : 0.495 kgfm Insulation class : 340 % Service factor : 480 % Temperature rise		: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B		
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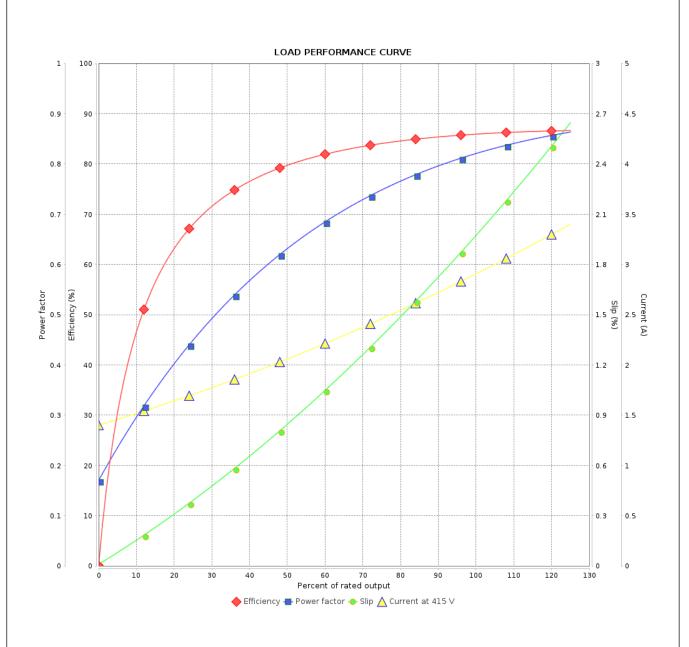


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373844



Performance	: 415 V 50 Hz 2P IE3				
Rated current			inartia (I)	0.0000 12	
	: 2.96 A	Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 11.1	Duty cycle		: Cont.(S1)	
Rated torque	: 0.494 kgfm	Insulation class		: F	
Locked rotor torque	: 370 %	Service factor		: 1.25	
Breakdown torque	: 520 %	Temperature rise Design		: 80 K : B	
Rated speed	: 2940 rpm				
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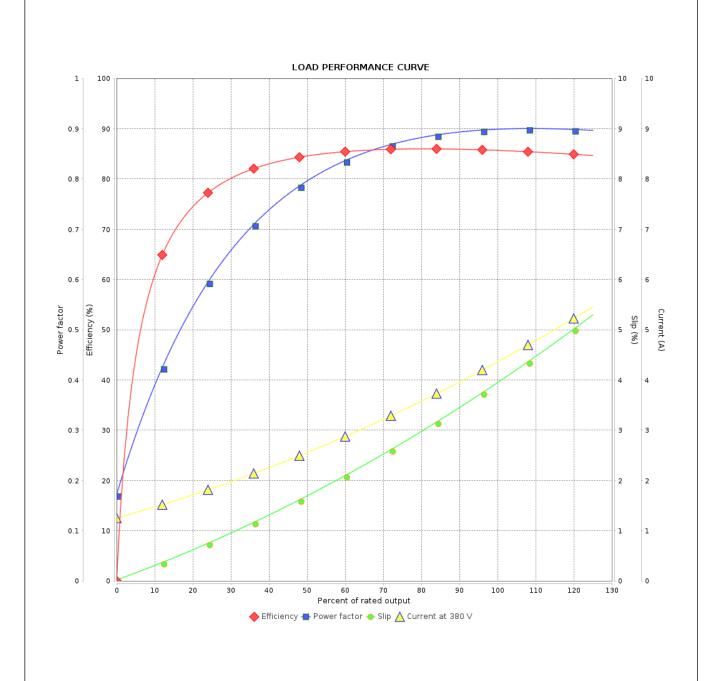
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Product line : W22 IEEE 841 NEMA Premium Product code : 12373844

Efficiency Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 4.34 A	.34 A Moment of inertia (J)		: 0.0080 kgm²	
LRC	: 6.8	Duty cycle		: Cont.(S1)	
Rated torque	: 0.756 kgfm	Insulation class		: F	
Locked rotor torque	: 210 %	Service factor		: 1.25	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 2880 rpm	Design		: B	
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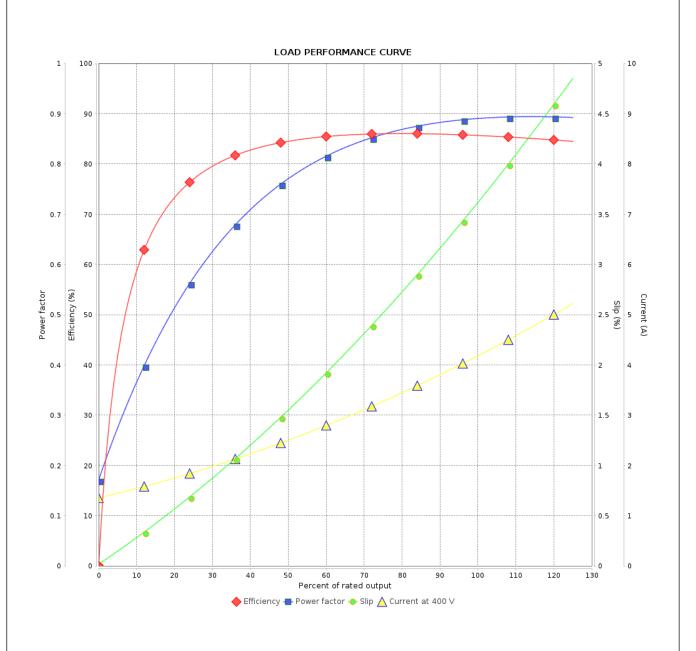


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12373844



Performance	: 400 V	: 400 V 50 Hz 2P IE2							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		kgfm o	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B				
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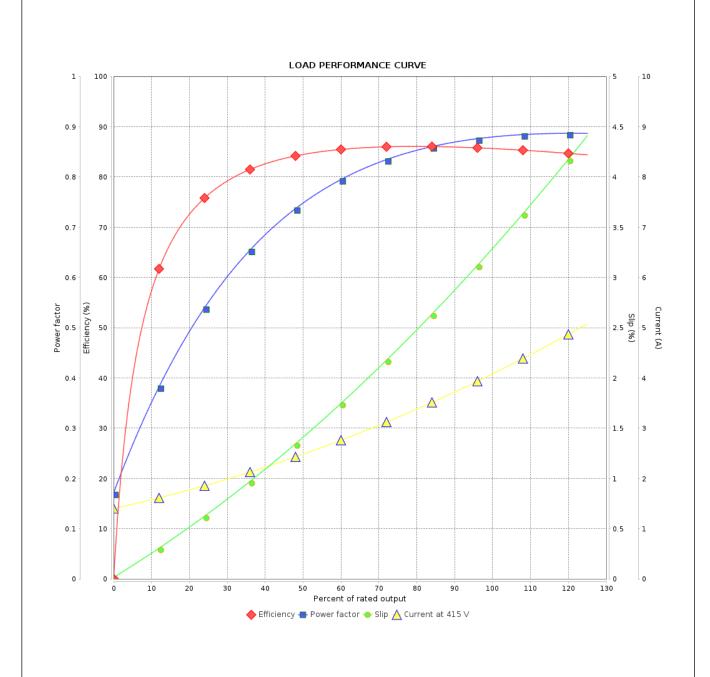
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Date

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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	:	: 415 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : que : ue	4.07 A 8.1 0.751 kgfm 260 % 350 % 2900 rpm	Duty cycle : C Insulation class : F Service factor : 1 Temperature rise : 8		: 0.0080 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	•	
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