DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11448468 Efficiency Three-Phase Cooling method Frame : 254/6T : 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. : 138 kg Protection degree : IP56 Moment of inertia (J) : 0.1867 kgm² Design : B Output [HP] 7.5 7.5 5.5 5.5 5.5 7.5 7.5 Poles 8 8 8 8 8 8 8 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 13.1 11.1 10.4 10.5 10.4 12.5 12.4 L. R. Amperes [A] 58.8 56.1 58.7 62.5 56.3 58.7 62.0 LRC [A] 5.3x(Code H)5.4x(Code H) 5.6x(Code J) 6.0x(Code K) 4.3x(Code F) 4.7x(Code F) 5.0x(Code G) No load current [A] 7.30 6.40 6.50 6.40 6.90 6.90 7.30 Rated speed [RPM] 880 730 730 735 720 725 730 4.00 Slip [%] 2.22 2.67 2.67 2.00 3.33 2.67 Rated torque [kgfm] 6.19 5.45 5.43 5.42 7.56 7.51 7.48 Locked rotor torque [%] 200 210 229 260 150 170 190 Breakdown torque [%] 250 260 290 320 190 210 229 Service factor 1.25 1.00 1.15 1.15 1.00 1.15 1.15 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 45s (cold) Locked rotor time 59s (cold) 45s (cold) 45s (cold) 45s (cold) 45s (cold) 45s (cold) 25s (hot) 33s (hot) 25s (hot) 25s (hot) 25s (hot) 25s (hot) 25s (hot) Noise level² 54.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 51.0 dB(A) 25% 50% 85.5 84.1 81.6 81.4 85.5 84.0 84.0 Efficiency (%) 75% 87.5 85.7 84.5 84.5 85.5 85.5 85.5 100% 87.5 85.5 85.5 85.5 84.0 85.5 85.5 25% 50% 0.50 0.47 0.44 0.42 0.57 0.53 0.51 Power Factor 75% 0.63 0.60 0.56 0.54 0.69 0.66 0.64 100% 0.71 0.69 0.65 0.63 0.76 0.74 0.72 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.8 13.8 13.8 13.8 13.8 13.8 13.8 P2 (0,5;1,0) 11.7 11.7 11.7 11.7 11.7 11.7 11.7 P3 (0,25;1,0) 11.4 11.4 11.4 11.4 11.4 11.4 11.4 P4 (0,9;0,5) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 Losses (%) P5 (0,5;0,5) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.4 4.4 4.4 4.4 4.4 4.4 4.4 P7 3.4 3.4 3.4 3.4 3.4 3.4 3.4 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 : 201 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 338 kgf Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 q 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 29/10/2024 1/9 Date

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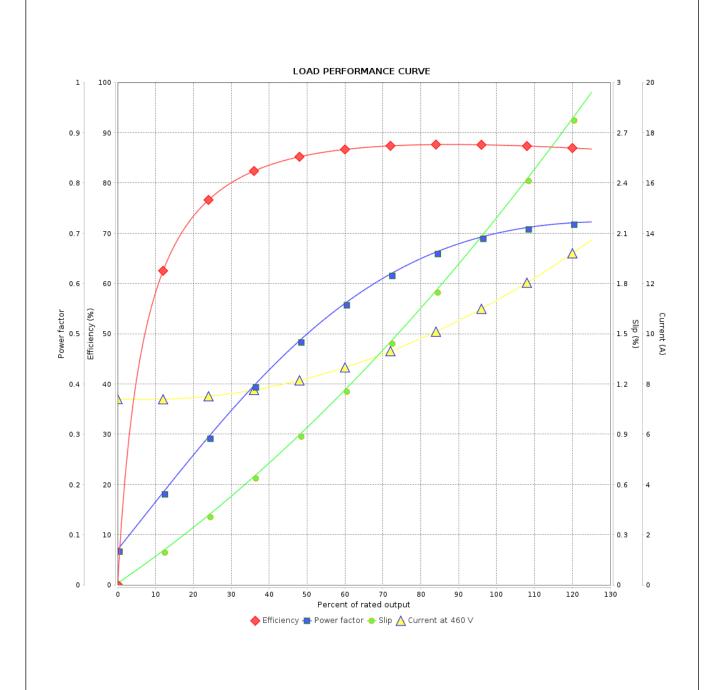
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 11.1 A : 5.3 : 6.19 kgfm : 200 % : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1867 kgm² : Cont.(S1) : F : 1.25 : 80 K	
Rated speed Rev.	: 880 rpm Changes Summary	Design	Performed	: B Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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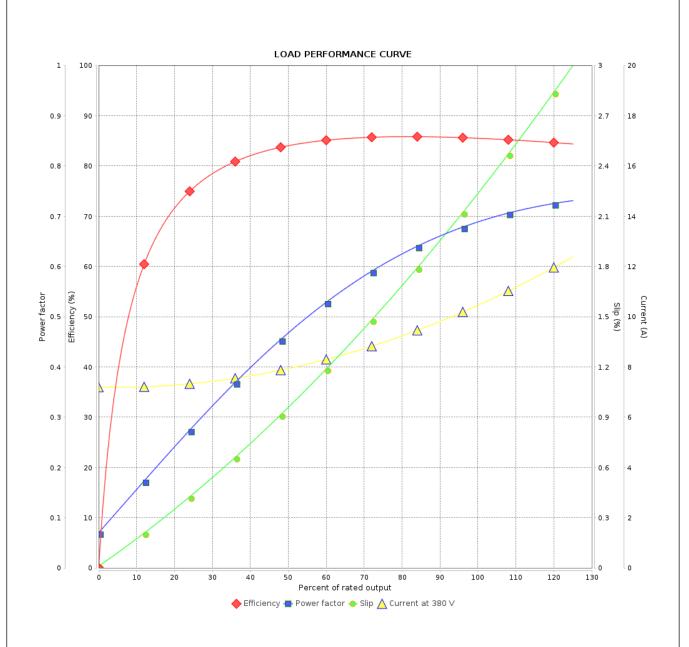
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29/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



Performance	: 3	880 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 5 jue : 2 ie : 2	0.4 A 6.4 6.45 kgfm 10 % 160 % 130 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1867 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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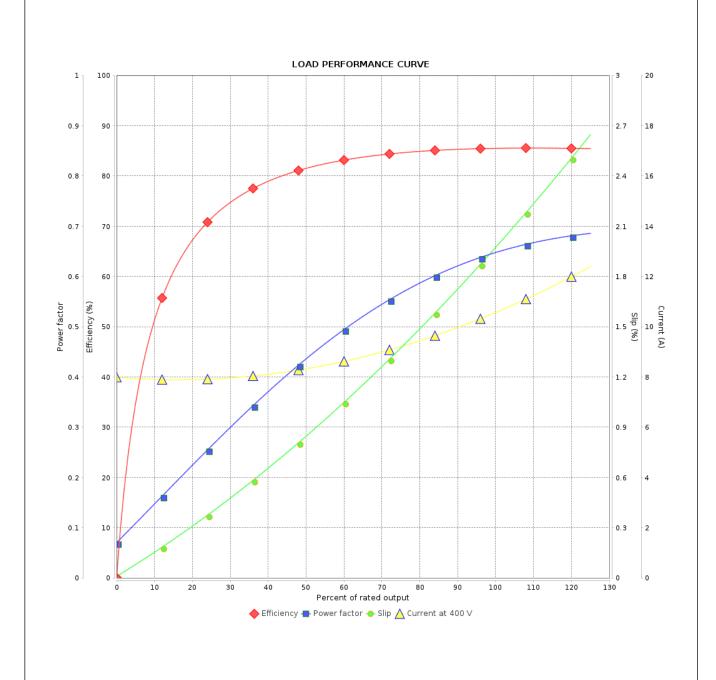


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V	50 Hz 8P IE3				
Rated current	: 10.5 A	١	Moment of inertia (J)		: 0.1867 kgm²	
LRC	: 5.6		Duty cycle		: Cont.(S1)	
Rated torque	: 5.43 k	gfm	Insulation class		: F	
Locked rotor tord	que : 229 %)	Service factor		: 1.15	
Breakdown torqu	ie : 290 %)	Temperature rise		: 80 K	
Rated speed	: 730 rp	om	Design		: B	
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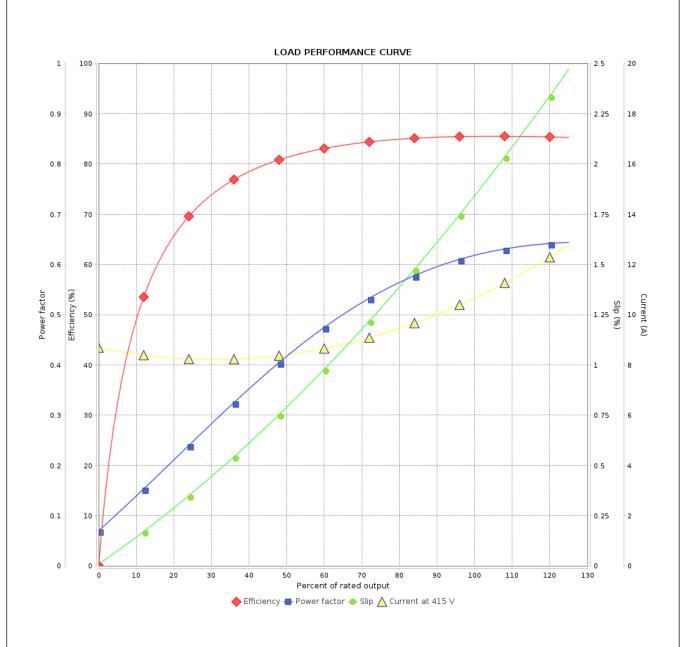


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



Performance	: 415 V 50 Hz 8P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 6.0 : 5.42 kgfm : 260 % : 320 % : 735 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1867 kgm² : Cont.(S1) : F : 1.15 : 80 K : B				
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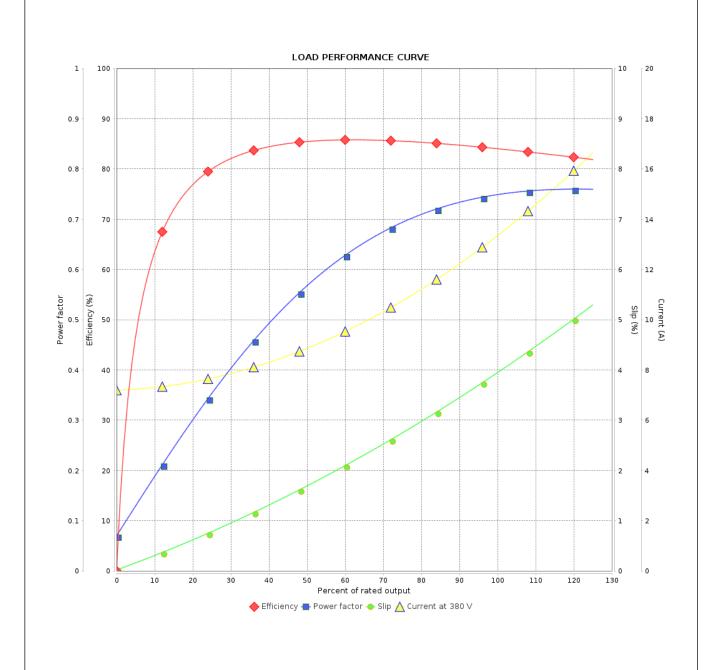


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



Performance	: 380 V 50 Hz 8P IE2	,			
Rated current	: 13.1 A	Moment of	inertia (J)	: 0.1867 kgm²	
LRC	: 4.3	Duty cycle		: Cont.(S1)	
Rated torque	: 7.56 kgfm	56 kgfm Insulation class 50 % Service factor 70 % Temperature rise		: F : 1.00	
Locked rotor torque	: 150 %				
Breakdown torque	: 190 %			: 105 K	
Rated speed	: 720 rpm			: B	
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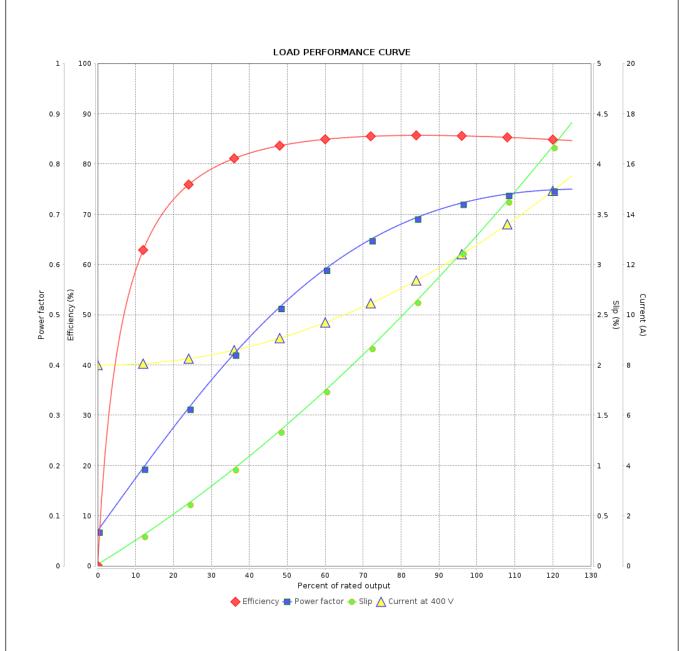


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11448468



Performance	: 400 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.5 A : 4.7 : 7.51 kgfm : 170 % : 210 % : 725 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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Three Phase Induction Motor - Squirrel Cage



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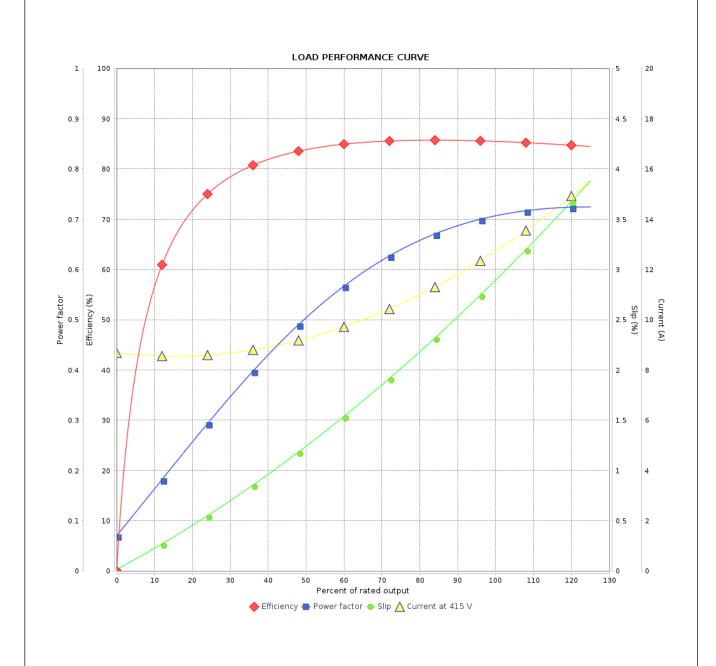
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Product line : W22 IEEE 841 NEMA Premium Prod

Efficiency Three-Phase

Product code: 11448468



Performance	· 415 \	V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 12.4 : 5.0 : 7.48 jue : 190	A kgfm %	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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