#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11431460 Efficiency Three-Phase Cooling method Frame : 143/5T : 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. : 26.0 kg Protection degree : IP56 Moment of inertia (J) : 0.0066 kgm<sup>2</sup> Design : B Output [HP] 2 1.5 1.5 1.5 2 2 2 Poles 4 4 4 4 4 4 4 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 460 380 400 415 400 415 Rated current [A] 3.33 2.79 2.57 2.57 2.56 3.22 3.14 L. R. Amperes [A] 23.2 21.1 22.4 21.5 20.0 21.3 22.9 LRC [A] 8.3x(Code L) 8.2x(Code L) 8.7x(Code 8.4x(Code | 6.0x(Code H) | 6.6x(Code J) | 7.3x(Code K) M) M) No load current [A] 1.63 1.61 1.80 1.97 1.61 1.80 1.97 Rated speed [RPM] 1750 1460 1465 1465 1435 1440 1450 Slip [%] 2.78 2.67 2.33 2.33 4.33 4.00 3.33 Rated torque [kgfm] 0.829 0.746 0.743 0.743 1.01 1.01 1.00 Locked rotor torque [%] 270 290 320 350 220 229 250 240 Breakdown torque [%] 320 330 380 409 260 290 1.25 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 21s (cold) Locked rotor time 18s (cold) 32s (cold) 28s (cold) 27s (cold) 23s (cold) 21s (cold) 12s (hot) 10s (hot) 18s (hot) 16s (hot) 15s (hot) 13s (hot) 12s (hot) Noise level<sup>2</sup> 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 85.5 84.0 82.0 81.4 85.5 84.0 84.0 Efficiency (%) 75% 86.5 84.2 83.5 83.1 84.0 84.0 84.0 100% 86.5 84.5 84.5 84.1 82.5 84.0 84.0 25% 50% 0.57 0.55 0.50 0.47 0.66 0.62 0.60 Power Factor 75% 0.70 0.69 0.64 0.61 0.78 0.74 0.72 100% 0.78 0.77 0.73 0.71 0.83 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.0 15.0 15.0 15.0 15.0 15.0 15.0 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.1 12.1 12.1 12.1 12.1 12.1 12.1 P4 (0,9;0,5) 8.4 8.4 8.4 8.4 8.4 8.4 8.4 Losses (%) P5 (0,5;0,5) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 P6 (0,5;0,25) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P7 3.5 3.5 3.5 3.5 3.5 3.5 3.5 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 70 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 96 kgf Lubrication interval 20000 h 20000 h 4 g Lubricant amount 4 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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#### Three Phase Induction Motor - Squirrel Cage



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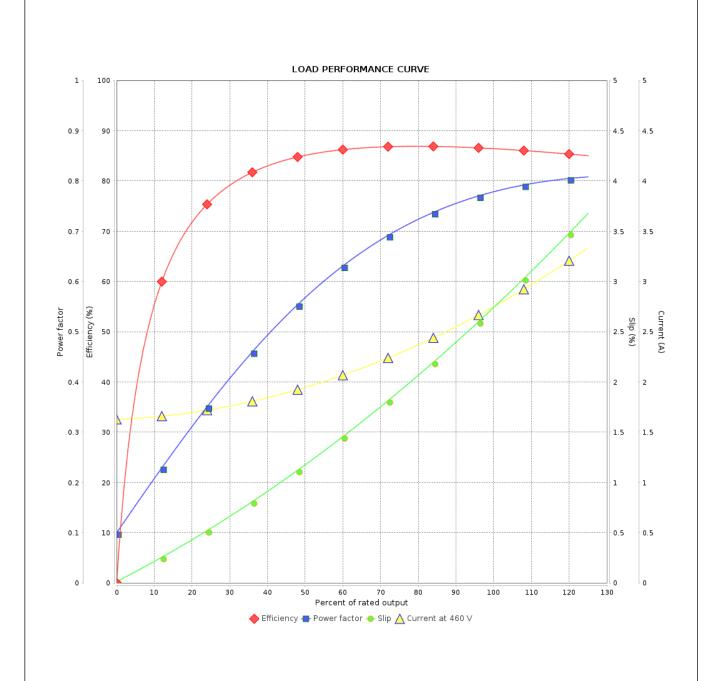
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11431460

Efficiency Three-Phase



Performance	: 460 V 6	60 Hz 4P				
Rated current	rrent : 2.79 A Moment of inertia (J)		inertia (J)	: 0.0066 kgm²		
LRC	: 8.3 Duty cycle		: Cont.(S1)			
Rated torque : 0.829 kgfm		gfm	Insulation class		: F	
Locked rotor torque : 2		Š	Service factor		: 1.25	
Breakdown torqu	ie : 320 %	Ι Τ	Temperature rise		: 80 K	
Rated speed	։ 1750 rբ	om [	Design		: B	
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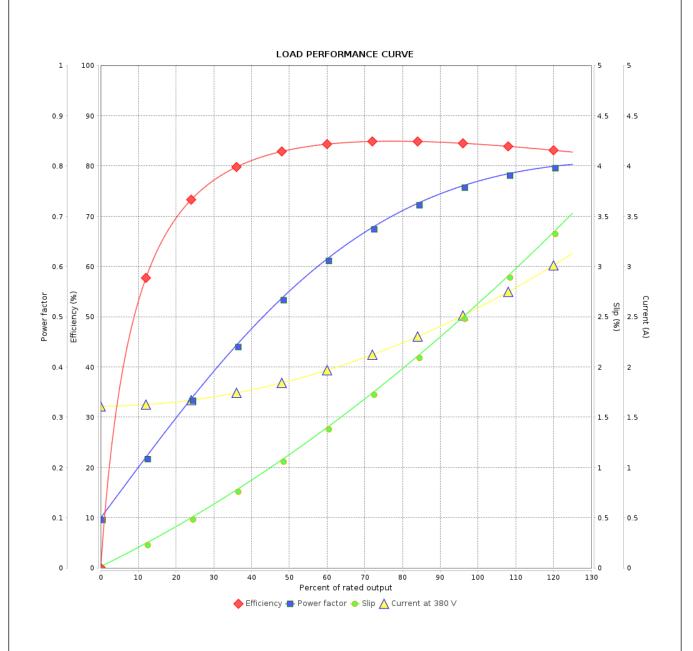


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431460



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.57 A : 8.2 : 0.746 kgfm : 290 % : 330 % : 1460 rpm	Moment of in Duty cycle Insulation of Service fact Temperature Design	ass or	: 0.0066 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K : B	•
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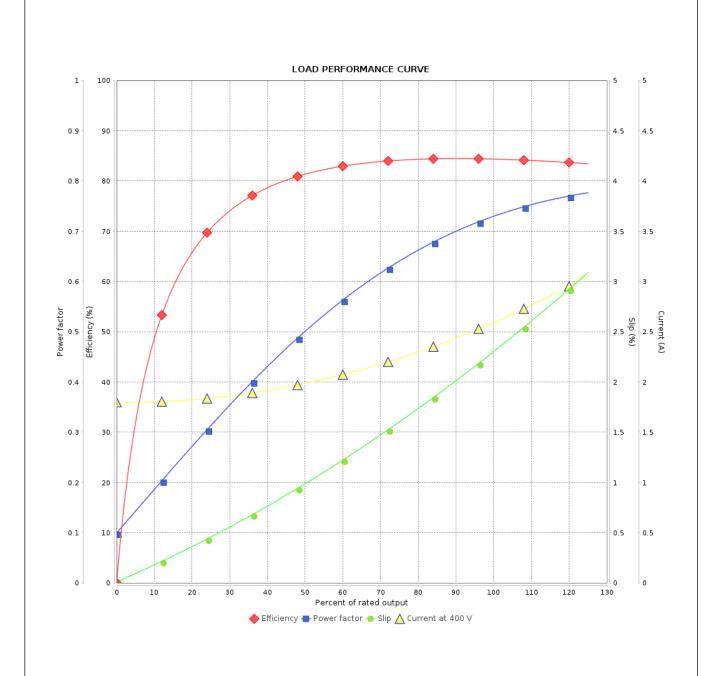
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Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

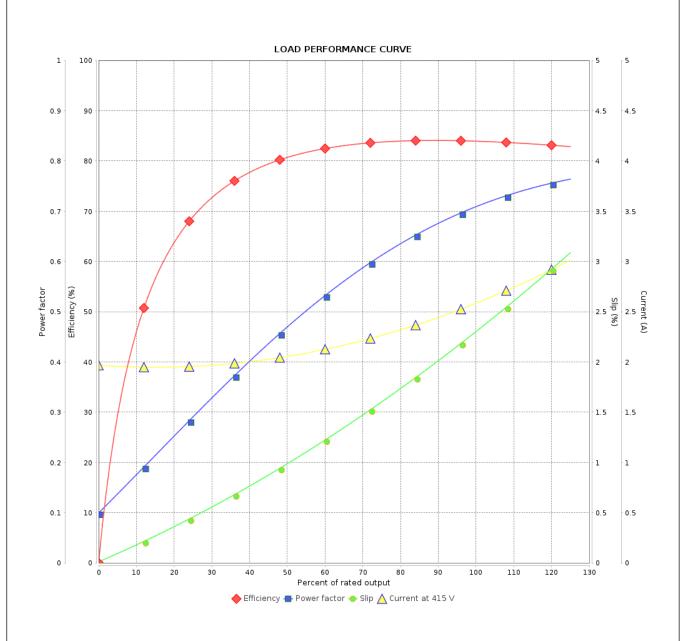


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431460



Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 2.56 A	Moment of inertia (J)		: 0.0066 kgm²	
LRC	: 8.4	Duty cycle		: Cont.(S1)	
Rated torque	: 0.743 kgfm	Insulation cl	ass	: F	
Locked rotor torque	: 350 %	Service factor		: 1.25	
Breakdown torque	: 409 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm	Design		: B	
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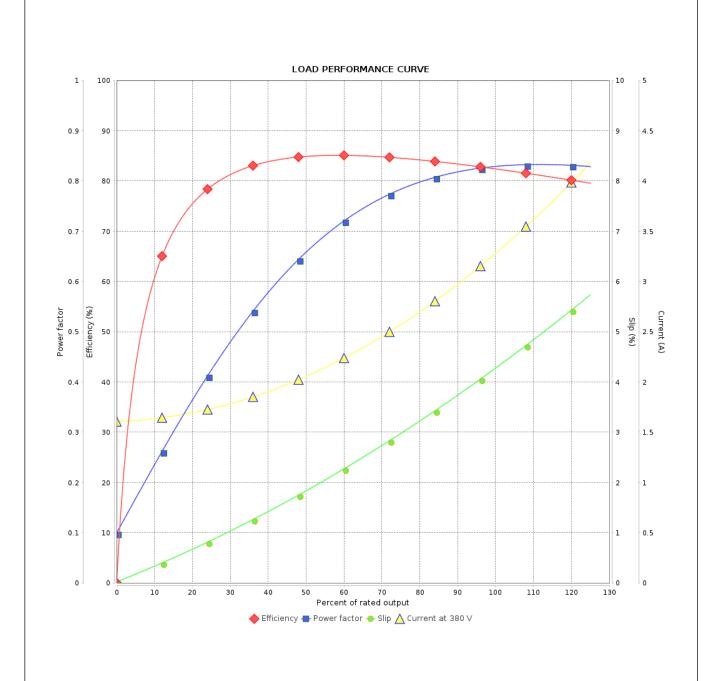


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 380 V 50 Hz 4P IE1	,			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	ue : 240 %	Duty cycl Insulation Service fa Temperat	ı class actor	: 0.0066 kgm : Cont.(S1) : F : 1.25 : 80 K	2
Rated speed	: 1435 rpm	Design		: B	
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LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6.0 : 1.01 kgfm que : 220 % ue : 240 % : 1435 rpm	Duty cycl Insulation Service fa	e n class actor ure rise	: Cont.(S1) : F : 1.25 : 80 K : B	

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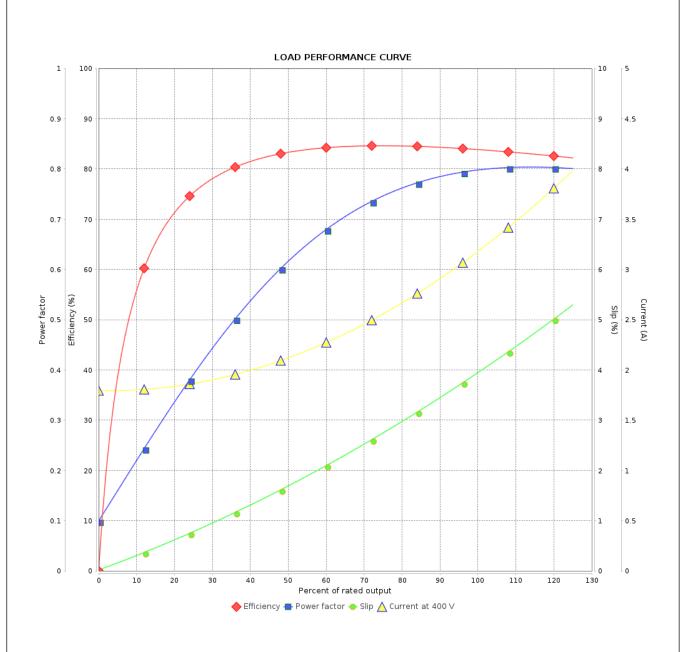


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431460



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.22 A : 6.6 : 1.01 kgfm : 229 % : 260 % : 1440 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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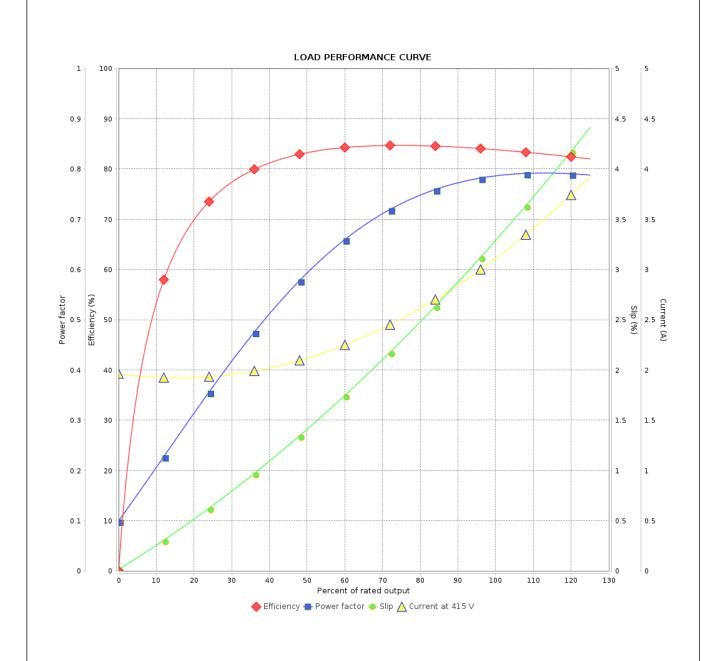


Customer :

Product line : W22 IEEE 841 NEMA Premium Produ

Efficiency Three-Phase

Product code: 11431460



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current : 3.14 A		Moment of	Moment of inertia (J)		2	
LRC	: 7	.3	Duty cycle	·	: Cont.(S1)	
Rated torque	: 1	.00 kgfm	Insulation	class	: F ` ´	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.25	
Breakdown torque : 290 %		Temperat	Temperature rise			
Rated speed		450 rpm	Design	Design		
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