## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13060964 Efficiency Three-Phase Frame : 143/5T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 21.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0049 kgm<sup>2</sup> Design : B Output [HP] 1 1 1 1 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 1.47 1.71 1.65 1.63 L. R. Amperes [A] 12.6 10.9 11.5 12.1 LRC [A] 8.6x(Code M) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 0.940 0.930 1.00 1.08 Rated speed [RPM] 1760 1450 1455 1455 Slip [%] 2.22 3.33 3.00 3.00 Rated torque [kgfm] 0.412 0.501 0.499 0.499 Locked rotor torque [%] 290 220 240 260 Breakdown torque [%] 350 250 290 310 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level<sup>2</sup> 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 0.08 80.0 80.0 80.0 Efficiency (%) 75% 84.0 82.5 82.5 82.5 100% 85.5 82.5 84.0 84.0 25% 50% 0.55 0.62 0.58 0.55 Power Factor 75% 0.68 0.74 0.71 0.69 0.75 0.78 0.76 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.9 15.9 15.9 15.9 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.5 12.5 12.5 12.5 P4 (0,9;0,5) 10.1 10.1 Losses (%) 10.1 10.1 P5 (0,5;0,5) 7.0 7.0 7.0 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.8 P7 (0,25;0,25) 4.3 4.3 4.3 4.3 Non drive end Foundation loads Drive end 6205 C3 6204 C3 Bearing type Max. traction : 33 kgf Sealing **Taconite** Taconite : 55 kgf Max. compression Labyrinth Labyrinth 20000 h 20000 h Lubrication interval Lubricant amount 4 g 4 g Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Rev. Date Performed by Checked by Page Revision

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21/10/2024

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# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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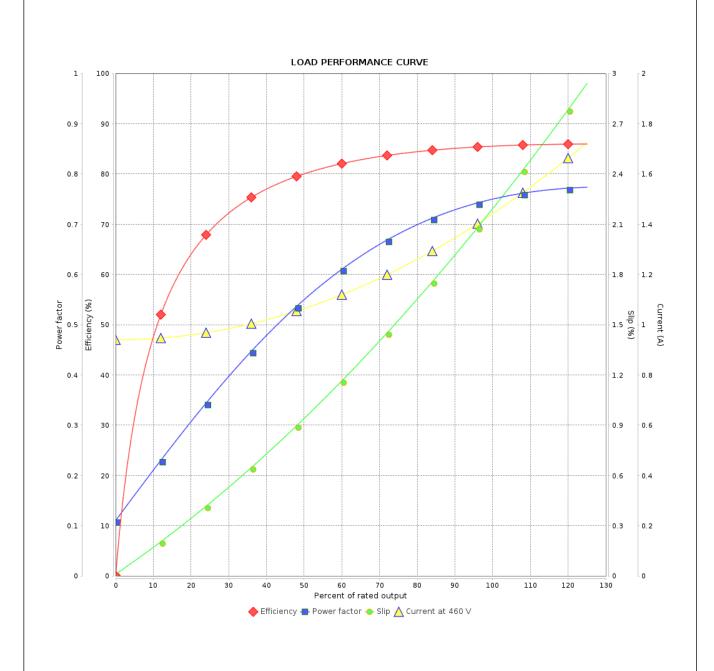
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 13060964

Efficiency Three-Phase



: 460 V 60 Hz 4P				
: 1.47 A	Moment of inertia (J)		: 0.0049 kgm²	
: 8.6	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F : 1.25 : 80 K	
: 0.412 kgfm				
: 290 %				
: 350 %				
: 1760 rpm	Design	Design		
Changes Summary		Performed	Checked	Date
	: 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm	: 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm  Duty cycle Insulation Service fa Temperate Design	: 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm  Duty cycle Insulation class Service factor Temperature rise Design	: 8.6       Duty cycle       : Cont.(S1)         : 0.412 kgfm       Insulation class       : F         : 290 %       Service factor       : 1.25         : 350 %       Temperature rise       : 80 K         : 1760 rpm       Design       : B

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## Three Phase Induction Motor - Squirrel Cage

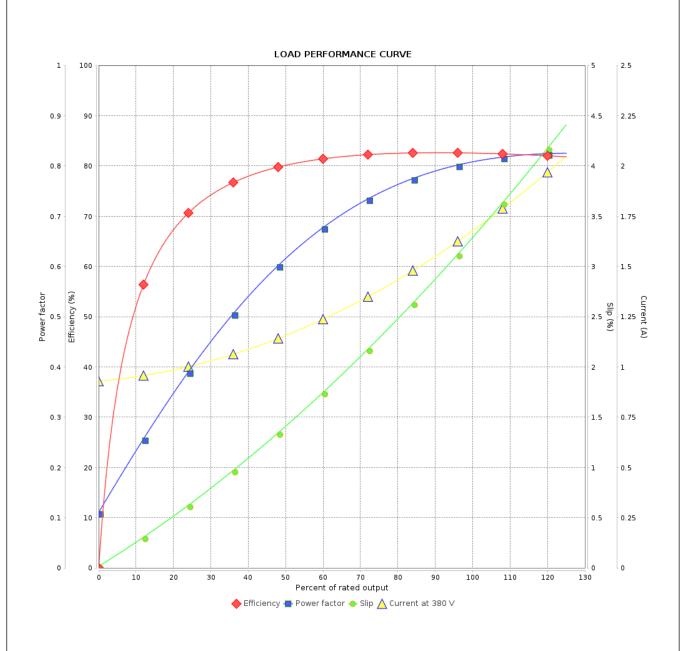


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13060964



Performance		: 380 V 50 Hz 4P IE3						
Rated current : 1.		.71 A	Moment o	Moment of inertia (J)		2		
LRC : 6.4		.4	Duty cycle	Duty cycle				
Rated torque : 0.9		.501 kgfm	Insulation	Insulation class				
·		20 %	Service fa	Service factor				
Breakdown torque		50 %	Temperat	Temperature rise				
Rated speed :		450 rpm	Design	Design				
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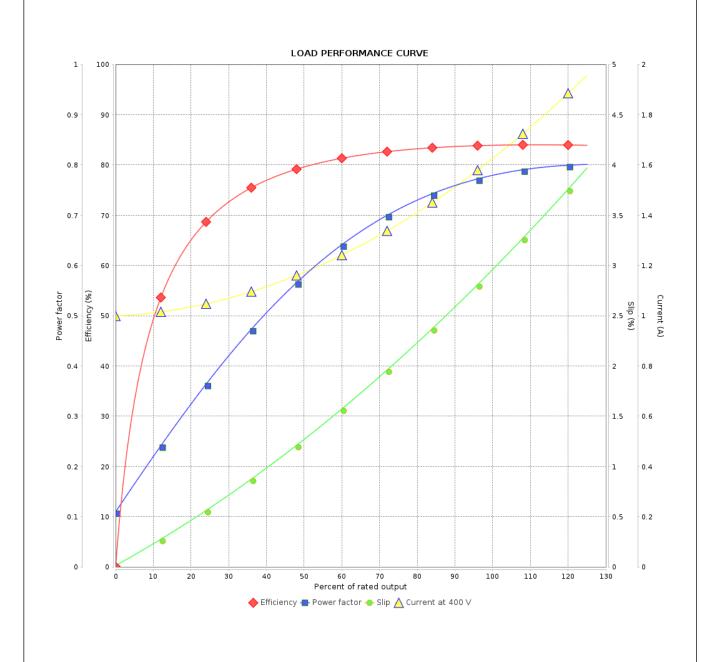


Customer :

Product line : W22 IEEE 841 NEMA Premium Product

Efficiency Three-Phase

Product code: 13060964



Performance	:	400 V 50 Hz 4P IE3				
Rated current		1.65 A	Moment of inertia (J)		: 0.0049 kgm²	
LRC		7.0	Duty cycle		: Cont.(S1)	
Rated torque		0.499 kgfm	Insulation class		:F `´	
Locked rotor torque		240 %	Service factor		: 1.25	
Breakdown torqu	ie :	290 %	Temperature rise		: 80 K	
Rated speed	:	1455 rpm	Design		: B	
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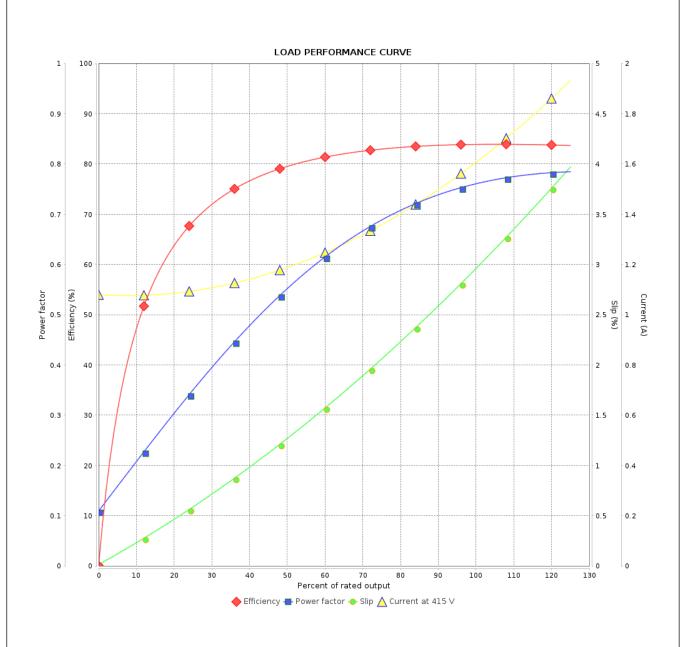


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13060964



Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 1.63 A : 7.4 : 0.499 kgfm : 260 % : 310 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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