#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12599644 Efficiency Three-Phase Frame : 143/5TC 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 : 25.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0060 kgm<sup>2</sup> Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 2.02 2.42 2.33 2.30 L. R. Amperes [A] 17.0 15.5 16.3 17.0 LRC [A] 8.4x(Code L) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 1.10 1.10 1.20 1.30 Rated speed [RPM] 1755 1440 1445 1450 Slip [%] 2.50 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.756 0.751 0.751 Locked rotor torque [%] 290 220 250 280 Breakdown torque [%] 350 250 290 320 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level<sup>2</sup> 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 82.5 82.5 82.5 81.0 Efficiency (%) 75% 85.5 84.0 84.0 84.0 100% 86.5 84.1 84.1 84.1 25% 50% 0.60 0.67 0.63 0.60 Power Factor 75% 0.70 0.76 0.74 0.70 0.79 0.82 0.81 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 14.6 P2 (0,5;1,0) 12.1 12.1 12.1 12.1 P3 (0,25;1,0) 12.2 12.2 12.2 12.2 P4 (0,9;0,5) 8.2 8.2 8.2 8.2 Losses (%) P5 (0,5;0,5) 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.3 4.3 4.3 4.3 P7 (0,25;0,25) 3.2 3.2 3.2 3.2 Non drive end Foundation loads Drive end 6205 C3 6204 C3 Bearing type : 56 kaf Max. traction Sealing **Taconite** Taconite : 81 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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22/10/2024

Date

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#### Three Phase Induction Motor - Squirrel Cage



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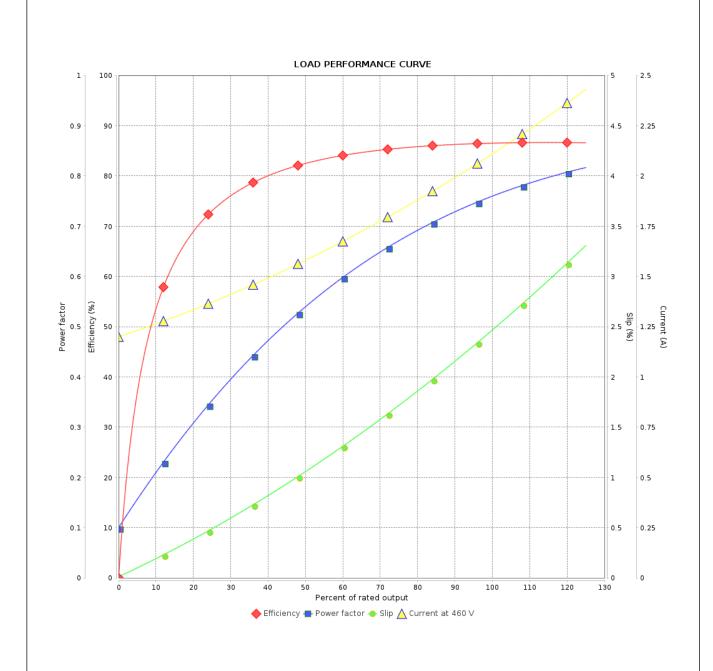


Customer :

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Product line : W22 IEEE 841 NEMA Premium Product code : 12599644

Efficiency Three-Phase



Rev.	Changes Summary		Performed	Checked	Date	
Rated speed	: 1755 rpm	Design		: B		
Breakdown torque	: 350 %	Temperature rise		: 80 K		
Locked rotor torque	: 290 %	Service fa	Service factor			
Rated torque	: 0.620 kgfm	Insulation	Insulation class		:F	
LRC	: 8.4	Duty cycle		: Cont.(S1)		
Rated current	: 2.02 A	Moment of inertia (J)		: 0.0060 kgm²		
Performance	: 460 V 60 Hz 4P					

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#### Three Phase Induction Motor - Squirrel Cage



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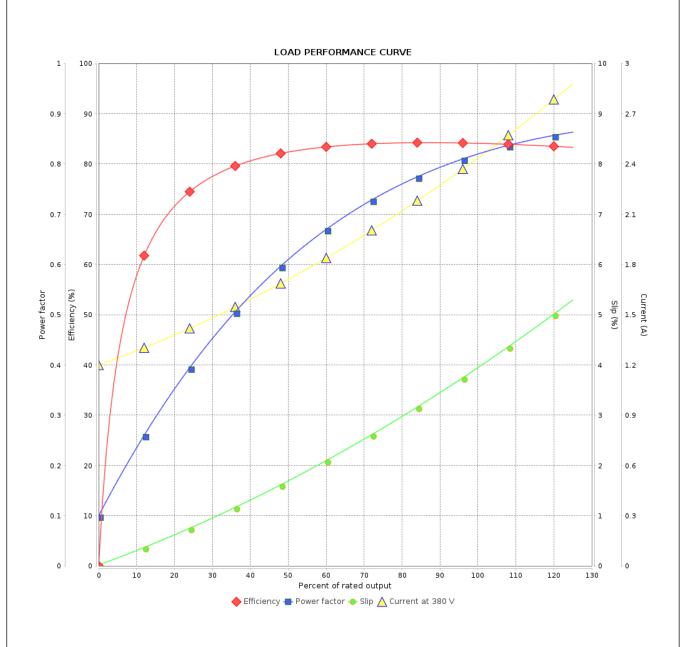
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12599644



Performance		: 380 V 50 Hz 4P II	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 2.42 A : 6.4 : 0.756 kgfm : 220 % : 250 % : 1440 rpm	Duty o Insula Servic	rion class e factor erature rise	: 0.0060 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K : B	
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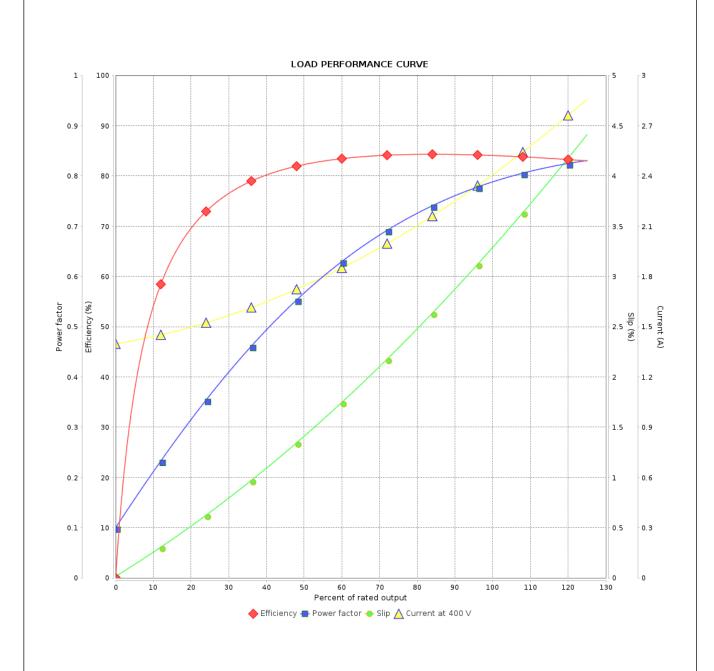
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 12599644

Efficiency Three-Phase



Rev.	Changes Summary		Performed	Checked	Date	
Rated speed	: 1445 rpm	Design		: B		
Breakdown torque	: 290 %	Temperatu	Temperature rise			
Locked rotor torque	: 250 %	Service fac	Service factor			
Rated torque	: 0.751 kgfm	Insulation	Insulation class		: F	
LRC	: 7.0	Duty cycle		: Cont.(S1)		
Rated current	: 2.33 A	Moment of inertia (J)		: 0.0060 kgm²		
Performance	: 400 V 50 Hz 4P IE3					

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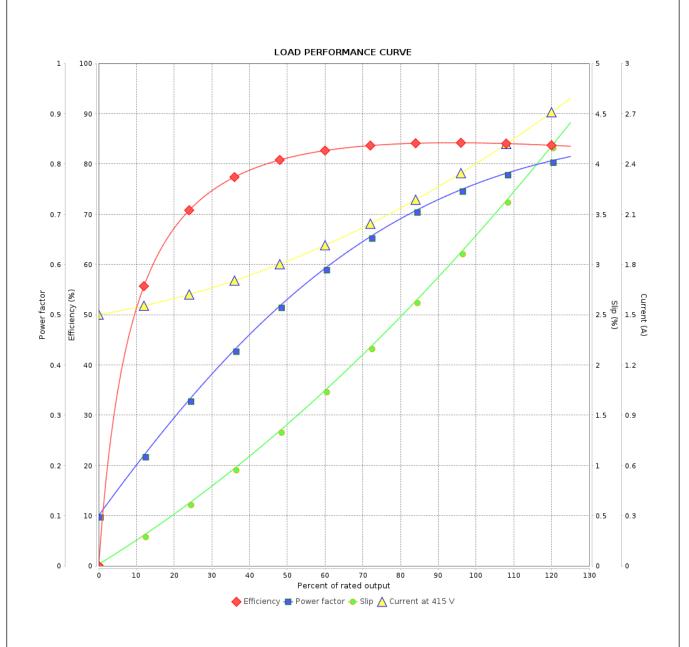


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12599644



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.30 A : 7.4 : 0.751 kgfm : 280 % : 320 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0060 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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