#### **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

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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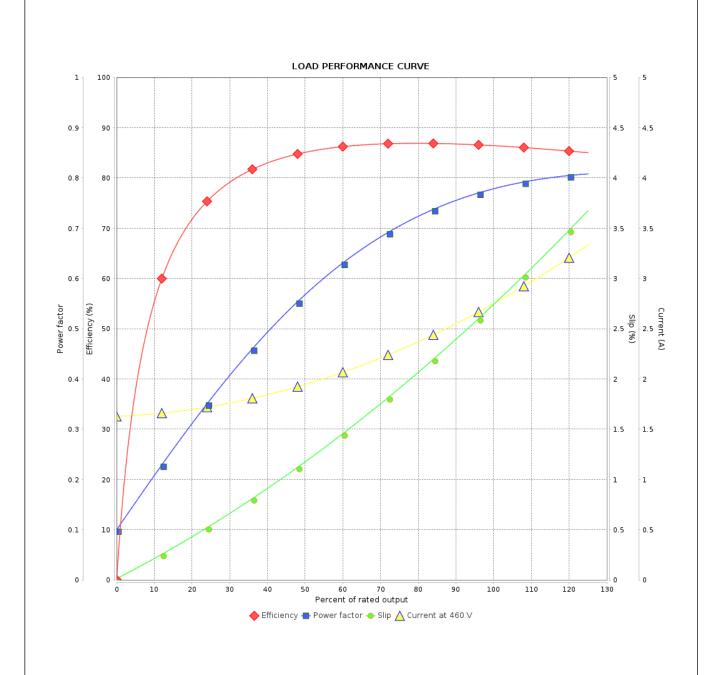
### Three Phase Induction Motor - Squirrel Cage



Customer :

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

Efficiency Three-Phase



Performance	: 460 V 60 Hz 4P				
Rated current LRC	: 2.79 A : 8.3	Moment of inertia (J) Duty cycle		: 0.0066 kgm² : Cont.(S1)	
Rated torque Locked rotor torque	: 0.829 kgfm : 270 %	Insulation class Service factor		: F : 1.25	
Breakdown torque Rated speed	: 320 % : 1750 rpm	Temperature rise Design		: 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

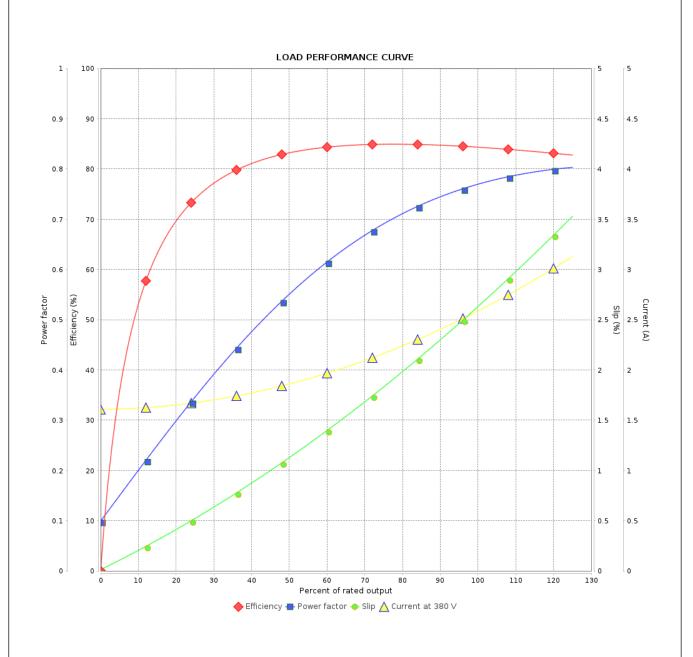


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431460



				,	
Performance	: 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 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



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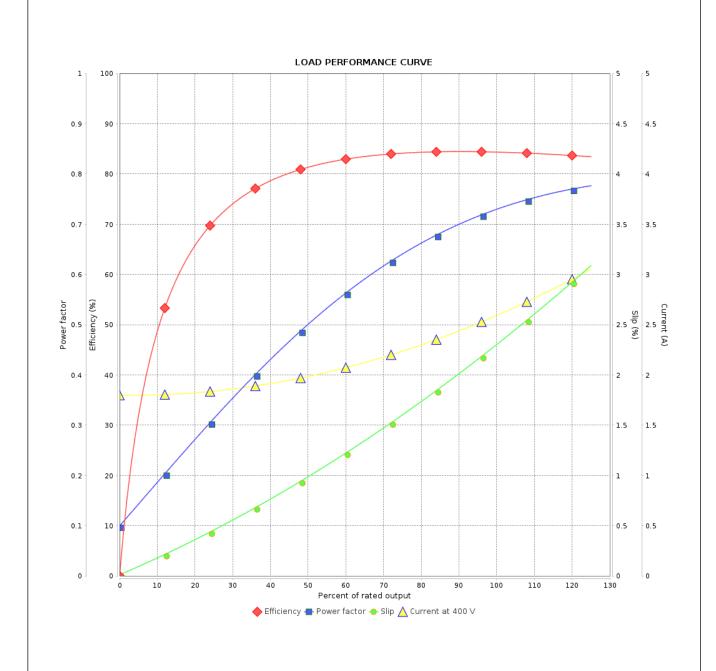
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Product line : W22 IEEE 841 NEMA Premium Product code

Efficiency Three-Phase

Product code: 11431460



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.57 A : 8.7 : 0.743 kgfm : 320 % : 380 % : 1465 rpm	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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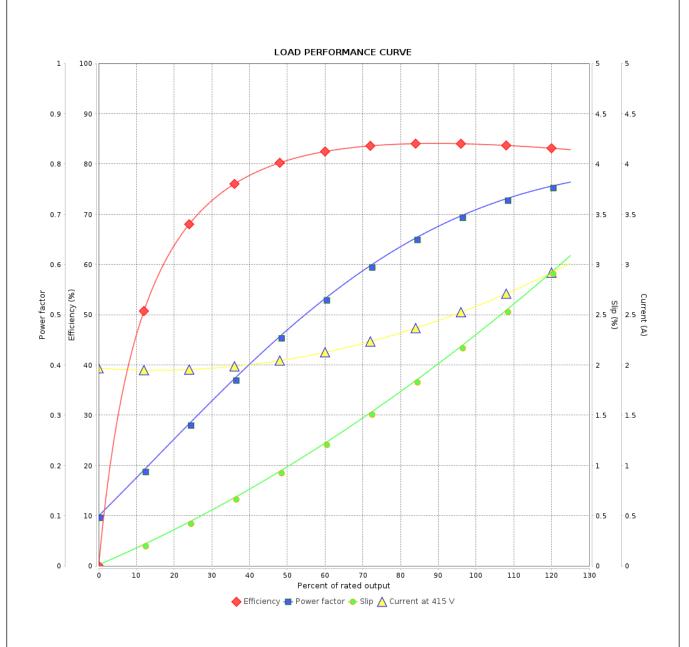


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431460



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Performance	: 4	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : ( que : 3	2.56 A 3.4 0.743 kgfm 350 % 409 % 1465 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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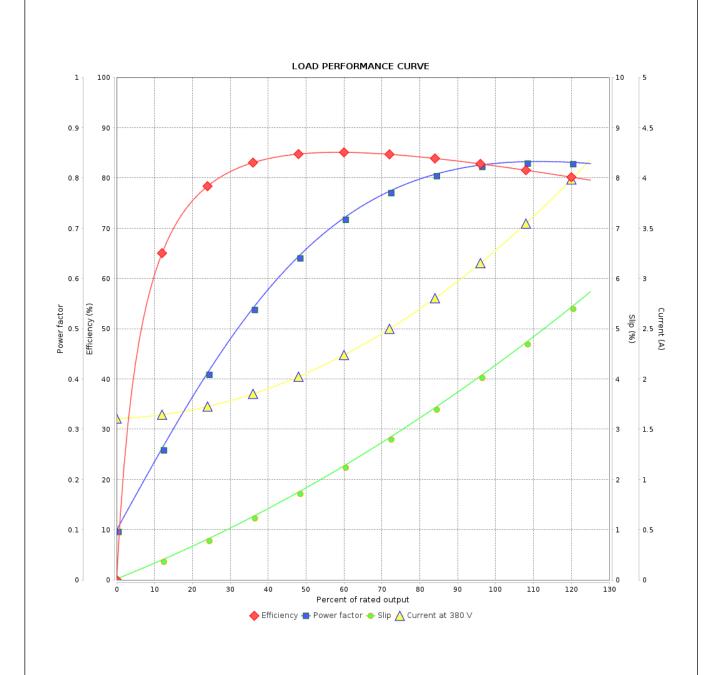
### Three Phase Induction Motor - Squirrel Cage



Customer :

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

Efficiency Three-Phase



Performance		: 380 V 50 Hz 4F	PIE1				
Rated current		: 3.33 A	Mo	ment of	inertia (J)	: 0.0066 kgm	) <sup>2</sup>
LRC		: 6.0	Du	ity cycle		: Cont.(S1)	
Rated torque		: 1.01 kgfm	Ins	sulation	class	: F	
Locked rotor tord	que	: 220 %	Se	rvice fac	ctor	: 1.25	
Breakdown torqu	ue	: 240 %	Tei	mperatu	re rise	: 80 K	
Rated speed		: 1435 rpm	De	sign		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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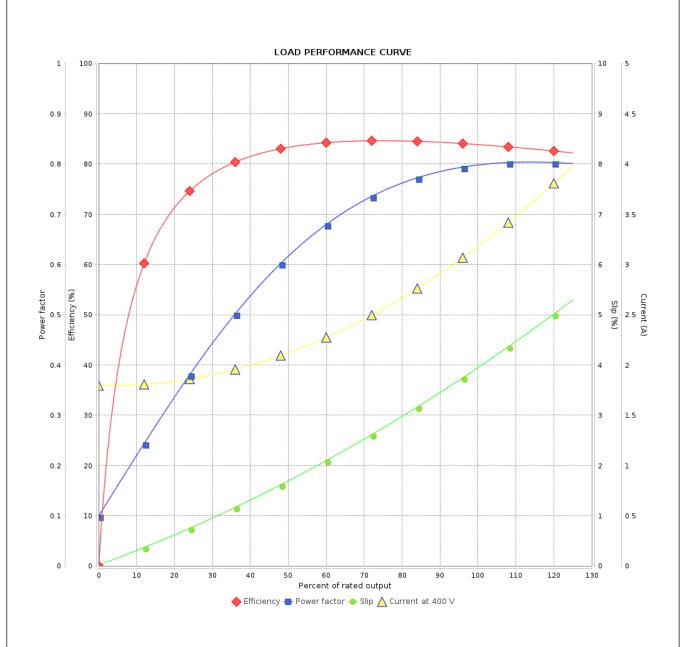
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431460



Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	3.22 A 6.6 1.01 kgfm 229 % 260 % 1440 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0066 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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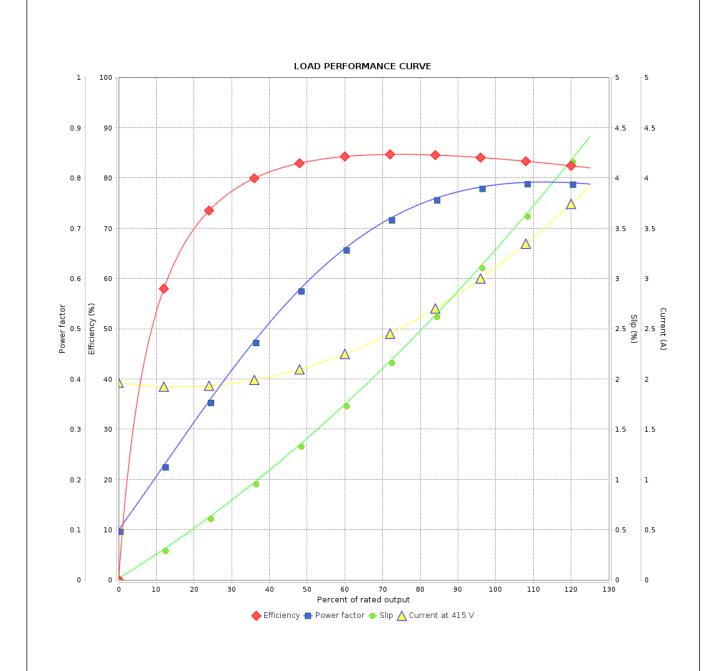
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Product line : W22 IEEE 841 NEMA Premium Product code:

Efficiency Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.14 A : 7.3 : 1.00 kgfm : 250 % : 290 % : 1450 rpm	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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