#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11943364 Efficiency Three-Phase : 404/5T Cooling method Frame : 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. : 0.0 kg Protection degree : IP55 Moment of inertia (J) : 1.55 kgm<sup>2</sup> Design : B Output [HP] 60 60 50 50 50 60 60 Poles 6 6 6 6 6 6 6 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 85.1 80.3 Rated current [A] 69.5 70.1 67.3 64.8 78.3 426 470 L. R. Amperes [A] 452 421 444 467 442 LRC [A] 6.5x(Code | 6.0x(Code F) | 6.6x(Code | 7.2x(Code H)|5.0x(Code E)|5.5x(Code F) | 6.0x(Code G) G) G) 23.0 No load current [A] 23.0 23.0 24.0 25.0 24.0 25.0 Rated speed [RPM] 1185 985 985 985 975 980 985 Slip [%] 1.25 1.50 1.50 1.50 2.50 2.00 1.50 Rated torque [kgfm] 36.7 36.8 36.8 36.8 44.7 44.4 44.2 Locked rotor torque [%] 200 180 220 229 150 180 190 Breakdown torque [%] 229 220 240 260 180 200 220 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 80 K 80 K 28s (cold) Locked rotor time 36s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 20s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) Noise level<sup>2</sup> 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 50% 94.1 93.3 93.3 93.3 93.6 93.6 93.6 Efficiency (%) 75% 94.5 93.4 93.7 93.7 93.0 93.6 93.6 100% 94.5 93.3 93.4 93.4 92.4 93.0 93.0 25% 50% 0.74 0.73 0.70 0.67 0.79 0.77 0.74 Power Factor 75% 0.82 0.83 0.82 0.79 0.85 0.84 0.82 100% 0.86 0.86 0.85 0.85 0.87 0.87 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.3 7.8 7.7 7.7 8.2 8.2 9.0 P2 (0,5;1,0) 5.0 6.4 6.3 6.3 7.6 6.8 6.8 P3 (0,25;1,0) 5.9 4.5 5.8 5.8 7.0 6.3 6.3 P4 (0,9;0,5) 3.5 4.2 4.1 4.1 4.7 4.4 4.4 Losses (%) P5 (0,5;0,5) 2.8 2.3 2.9 2.8 3.3 3.0 3.0 P6 (0,5;0,25) 1.7 2.1 2.1 2.1 2.4 2.2 2.2 P7 1.1 1.4 1.4 1.5 1.5 1.4 1.6 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6316 C3 6314 C3 : 958 kgf Max. traction Taconite **Taconite** Sealing Max. compression : 958 kgf Labyrinth Labyrinth 17000 h Lubrication interval 16000 h Lubricant amount 34 a 27 g Lubricant type Mobil Polyrex EM Rev. **Changes Summary** Performed Checked Date Performed by

# DATA SHEET

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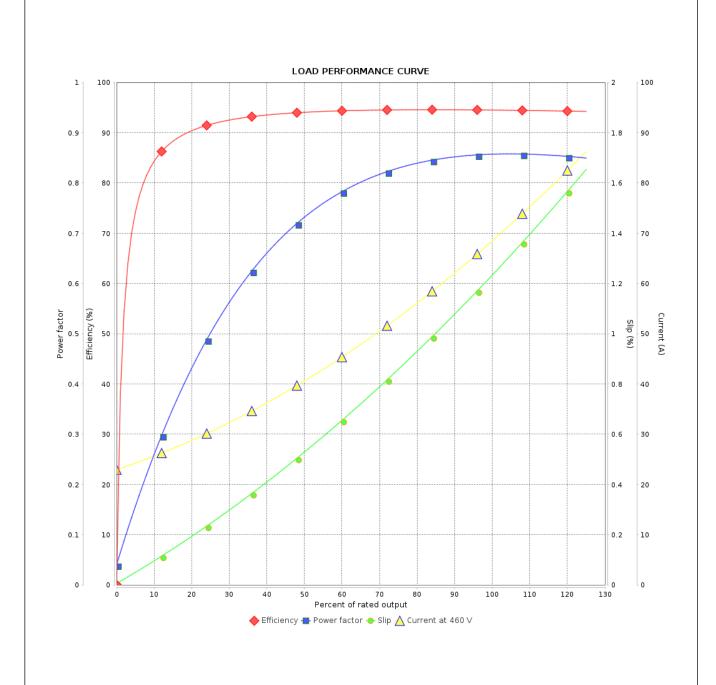
## Three Phase Induction Motor - Squirrel Cage



11943364

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance	: 460 V 60 Hz 6P					
Rated current	: 69.5 A	Moment of inertia (J)		: 1.55 kgm²		
LRC	: 6.5	Duty cycle		: Cont.(S1)		
Rated torque	: 36.7 kgfm	Insulation class		Insulation class : F		
Locked rotor torque	: 200 %	Service fa	ctor	: 1.25		
Breakdown torque	: 229 %	Temperatu	ıre rise	: 80 K		
Rated speed	: 1185 rpm	Design		: B		
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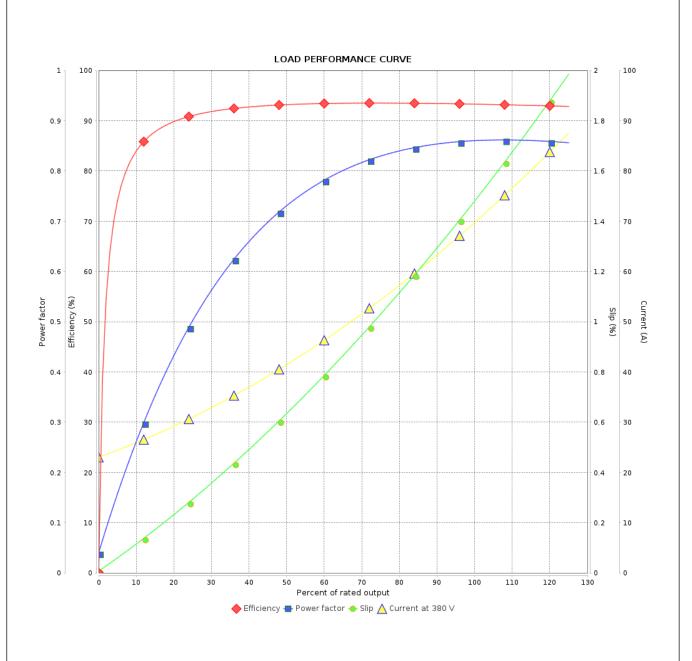


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943364



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 70.1 A : 6.0 : 36.8 kgfm : 180 % : 220 % : 985 rpm	Moment of inertial Duty cycle Insulation class Service factor Temperature rise Design	, ,	: 1.55 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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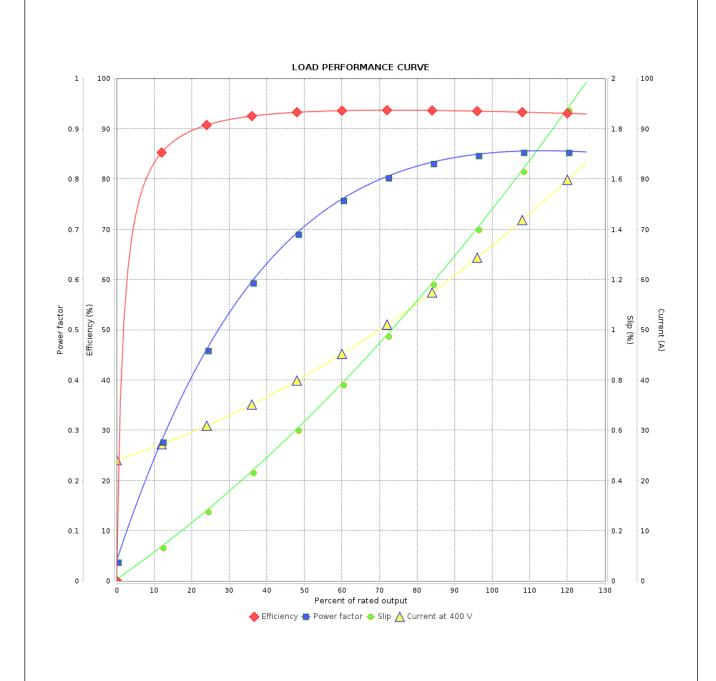
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## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943364



Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 67.3 A	Moment of	of inertia (J)	: 1.55 kgm²	
LRC	: 6.6	Duty cycl	е	: Cont.(S1)	
Rated torque	: 36.8 kgfm	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa	actor	: 1.00	
Breakdown torque	: 240 %	Temperat	ure rise	: 80 K	
Rated speed	: 985 rpm	Design		: B	
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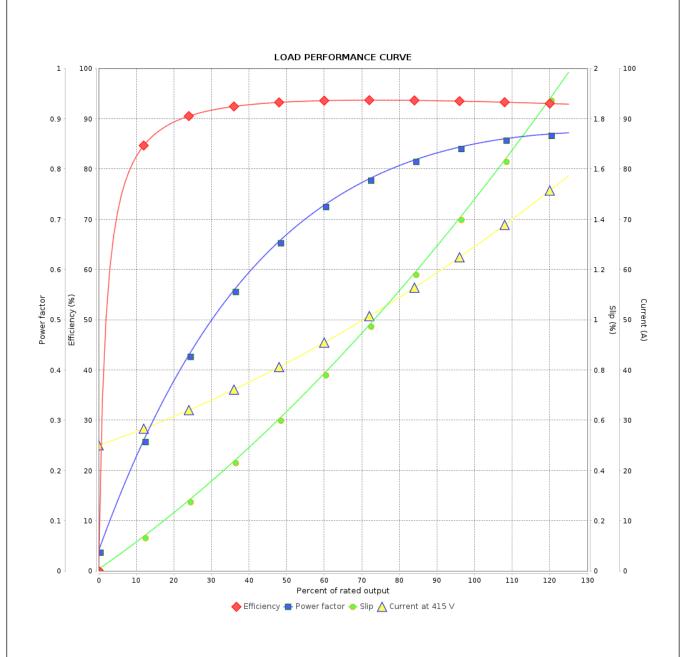


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943364



Performance	: 415 V 50 Hz 6	P IE3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.55 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

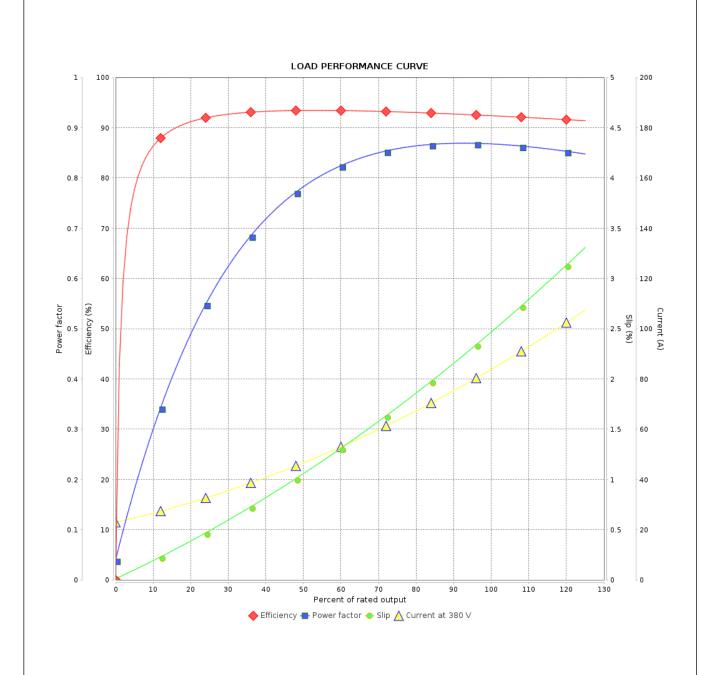


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Customer :

Performed by

Product line : W22 IEEE 841 NEMA Premium Product code :



Performance		: 380 V 50 Hz 6P IE1				
renomiance		. 300 V 30 HZ 0F IE I				
Rated current		: 85.1 A	Moment of	Moment of inertia (J)		
LRC		: 5.0	Duty cycle	)	: Cont.(S1)	
Rated torque		: 44.7 kgfm	Insulation	Insulation class		
Locked rotor torque : 150 % Service f		Service fa	Service factor : 1.00			
Breakdown torqu	ıe	: 180 %	Temperat	ure rise	: 105 K	
Rated speed		: 975 rpm Design			: B	
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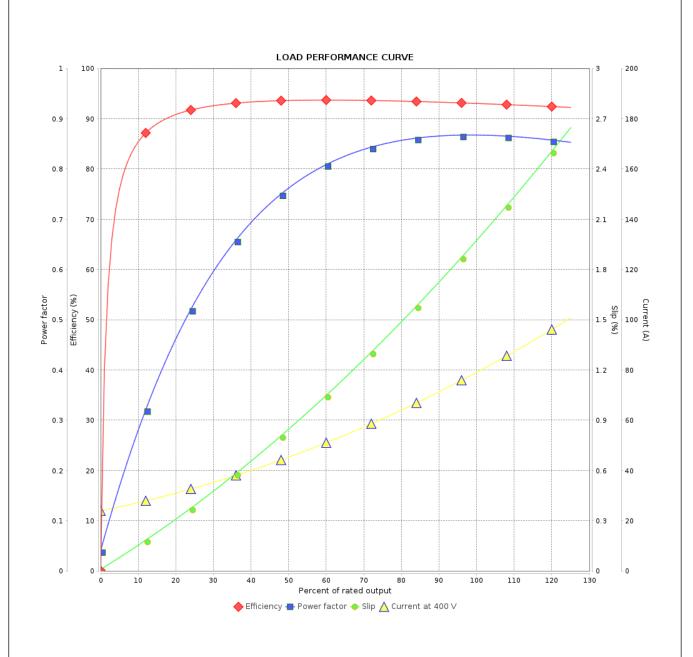


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11943364



Df	. 400 V 50 LL- CD IEO			
Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC	: 80.3 A : 5.5	Moment of inertia (J)  Duty cycle		
Rated torque Locked rotor torque	: 44.4 kgfm : 180 %	Insulation class Service factor	: Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	reakdown torque : 200 % Temperature rise		: 80 K : B	
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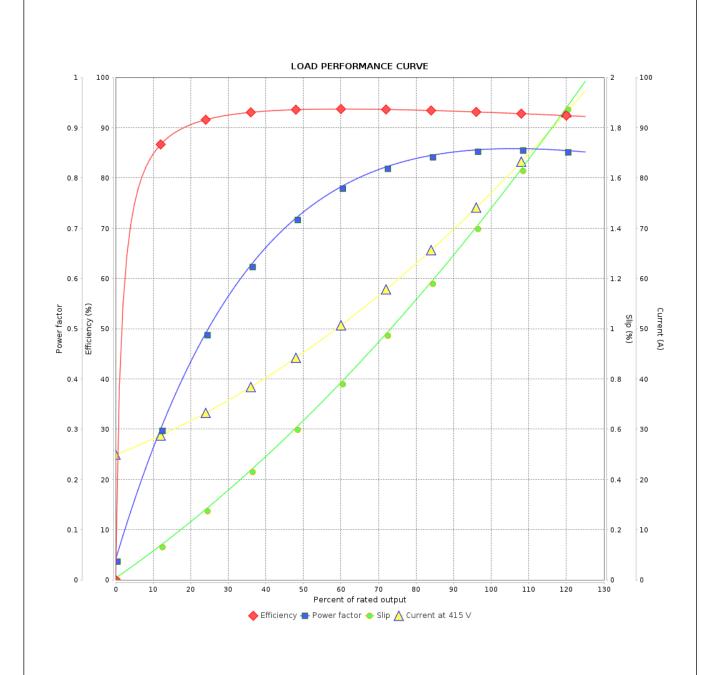
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## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11943364



Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 78.3 A : 6.0 : 44.2 kgfm : 190 % : 220 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.55 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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