### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 11584390 Efficiency Three-Phase Frame Cooling method : IC411 - TEFC : 284/6T 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> : 194 kg Altitude Protection degree : IP56 Moment of inertia (J) : 0.3448 kgm<sup>2</sup> Design : B Output [HP] 15 15 15 15 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 19.6 23.6 22.7 22.1 L. R. Amperes [A] 108 101 109 113 LRC [A] 5.5x(Code G) 4.3x(Code D) 4.8x(Code F) 5.1x(Code F) No load current [A] 9.80 9.70 10.5 11.1 Rated speed [RPM] 880 720 725 730 Slip [%] 2.22 4.00 3.33 2.67 Rated torque [kgfm] 12.4 15.1 15.0 14.9 Locked rotor torque [%] 200 150 170 190 Breakdown torque [%] 229 180 200 220 Service factor 1.25 1.00 1.00 1.15 105 K Temperature rise 80 K 105 K 105 K Locked rotor time 45s (cold) 25s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level<sup>2</sup> 54.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 85.5 88.0 88.0 88.0 Efficiency (%) 75% 90.0 88.5 88.5 88.5 100% 90.2 88.6 88.6 88.6 25% 50% 0.62 0.68 0.64 0.62 Power Factor 75% 0.72 0.76 0.74 0.73 0.78 0.80 0.79 0.78 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.3 10.3 10.3 10.3 P2 (0,5;1,0) 8.2 8.2 8.2 8.2 P3 (0,25;1,0) 7.6 7.6 7.6 7.6 P4 (0,9;0,5) Losses (%) 5.5 5.5 5.5 5.5 P5 (0,5;0,5) 3.7 3.7 3.7 3.7 P6 (0,5;0,25) 2.7 2.7 2.7 2.7 P7 (0,25;0,25) 1.8 1.8 1.8 1.8 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 372 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 566 kgf 20000 h 20000 h Lubrication interval Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type 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 MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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## Three Phase Induction Motor - Squirrel Cage

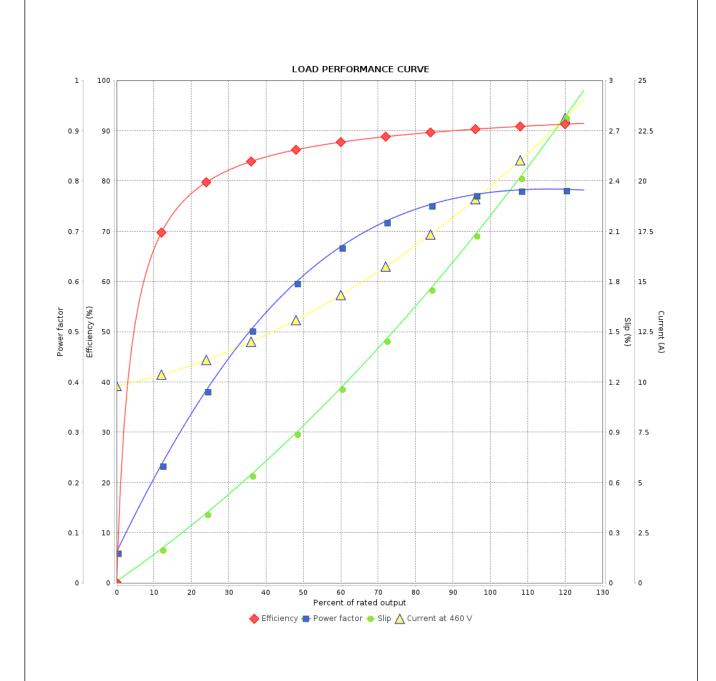


11584390

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 460 V 60 Hz 8P					
Rated current		: 19.6 A Moment of inerti		of inertia (J)	: 0.3448 kgm²		
LRC		: 5.5	Duty cycl	Duty cycle		: Cont.(S1)	
Rated torque		: 12.4 kgfm	Insulation	Insulation class		:F	
Locked rotor torque		: 200 %	Service fa	Service factor		: 1.25	
Breakdown torque		: 229 %	Temperat	Temperature rise		: 80 K	
Rated speed : 880 rpm		Design	Design				
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### Three Phase Induction Motor - Squirrel Cage



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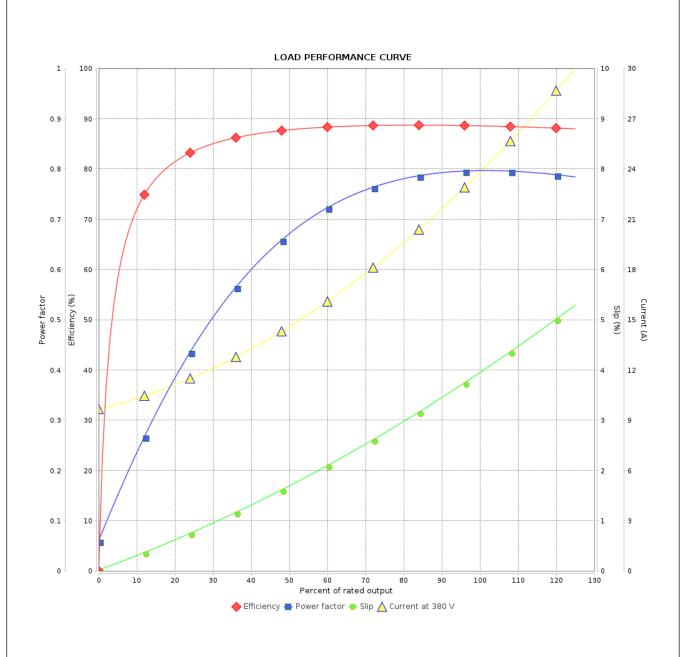
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11584390



Performance	: 380 V 50 Hz 8P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 23.6 A : 4.3 : 15.1 kgfm : 150 % : 180 % : 720 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3448 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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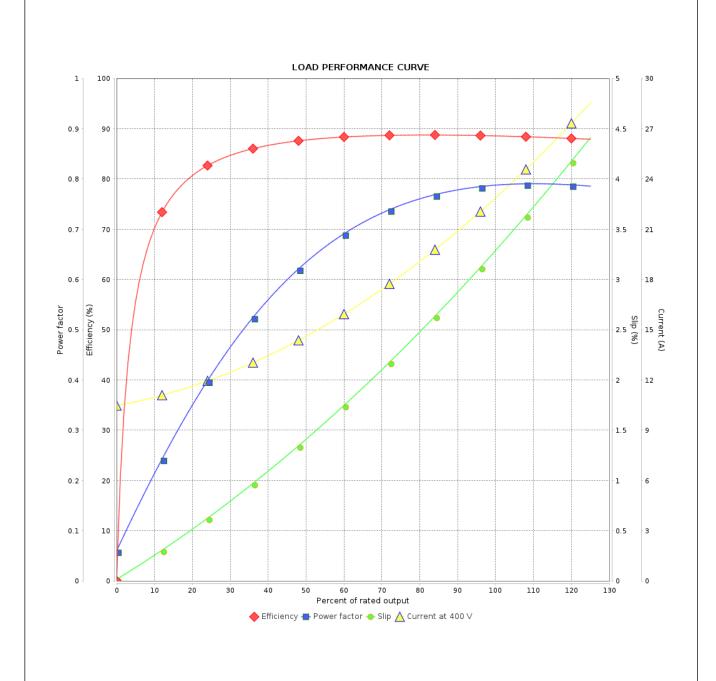
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11584390

Efficiency Three-Phase



Rev.	Changes Summ	ary Performed	Checked	Date	
Rated speed	: 725 rpm	Design	: B		
Breakdown torque	: 200 %	Temperature rise	: 105 K		
Locked rotor torqu	e : 170 %	Service factor	: 1.00	: Cont.(S1) : F : 1.00	
Rated torque	: 15.0 kgfm	Insulation class	: F		
LRC	: 4.8	Duty cycle	: Cont.(S1)		
Rated current	: 22.7 A	Moment of inertia (J)	: 0.3448 kgm	: 0.3448 kgm²	
Performance	: 400 V 50 Hz 8P IE	3			

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### Three Phase Induction Motor - Squirrel Cage



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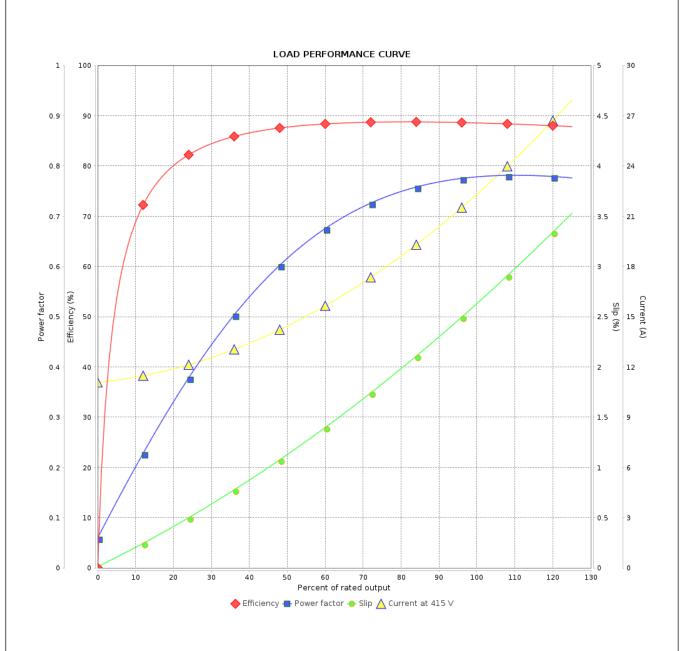
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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11584390



Performance : 415 V 50 Hz 8P IE3 : 22.1 A : 0.3448 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.9 kgfm : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 730 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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