### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13201564 Three-Phase Frame : 447/9T 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> : 1395 kg Altitude : 6.09 kgm<sup>2</sup> Protection degree : IP55 Moment of inertia (J) Design : A Output [HP] 300 250 250 250 Poles 6 6 6 6 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 356 362 357 349 L. R. Amperes [A] 2741 2679 2785 2862 LRC [A] 7.7x(Code J) 7.4x(Code H) 7.8x(Code J) 8.2x(Code K) No load current [A] 170 170 185 200 Rated speed [RPM] 1189 988 990 990 Slip [%] 0.92 1.20 1.00 1.00 Rated torque [kgfm] 183 184 183 183 Locked rotor torque [%] 270 229 260 290 Breakdown torque [%] 300 250 270 290 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 18s (cold) 10s (hot) 14s (cold) 8s (hot) 14s (cold) 8s (hot) 14s (cold) 8s (hot) Noise level<sup>2</sup> 70.0 dB(A) 25% 50% 95.4 95.0 94.5 94.1 Efficiency (%) 75% 95.8 95.4 95.4 95.0 100% 95.8 95.8 95.8 95.8 25% 50% 0.63 0.61 0.59 0.56 Power Factor 75% 0.75 0.75 0.71 0.69 0.81 0.78 0.77 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power 5.2 P1 (0,9;1,0) 5.2 5.2 P2 (0,5;1,0) 4.3 4.3 4.3 4.3 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 P4 (0,9;0,5) 3.0 3.0 Losses (%) 3.0 3.0 P5 (0,5;0,5) 2.3 2.3 2.3 2.3 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 P7 (0,25;0,25) 1.1 1.1 1.1 1.1 Non drive end Foundation loads Drive end Bearing type 6322 C3 6319 C3 Max. traction : 3952 kgf Sealing WSeal WSeal Max. compression : 5347 kgf 11000 h 13000 h Lubrication interval Lubricant amount 60 g 45 q 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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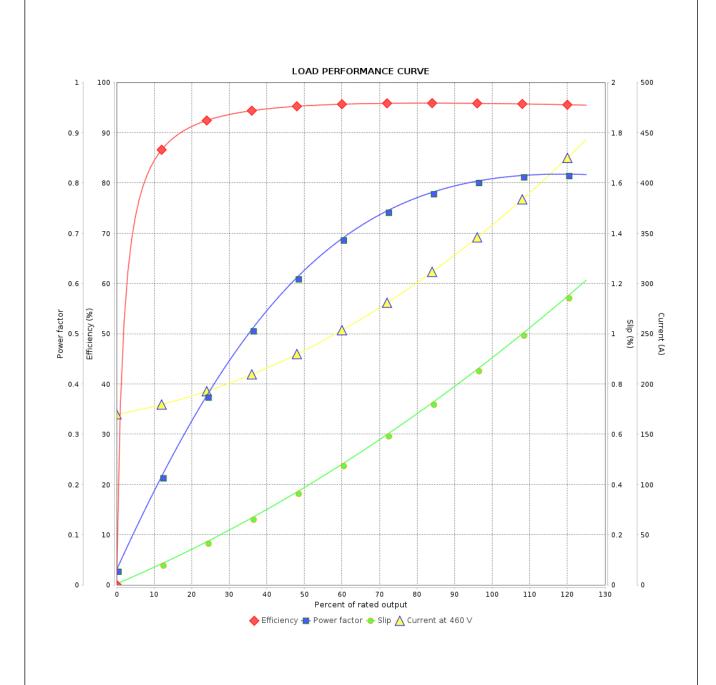
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13201564

Three-Phase



Performance	: 460 V 60 Hz 6P				
Rated current	: 356 A	Moment o	of inertia (J)	: 6.09 kgm²	
LRC	: 7.7	Duty cycle	9	: Cont.(S1)	
Rated torque	: 183 kgfm	Insulation	class	: F	
Locked rotor torqu	e : 270 %	Service fa	ctor	: 1.15	
Breakdown torque	: 300 %	Temperati	ure rise	: 80 K	
Rated speed	: 1189 rpm	Design		: A	
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### Three Phase Induction Motor - Squirrel Cage

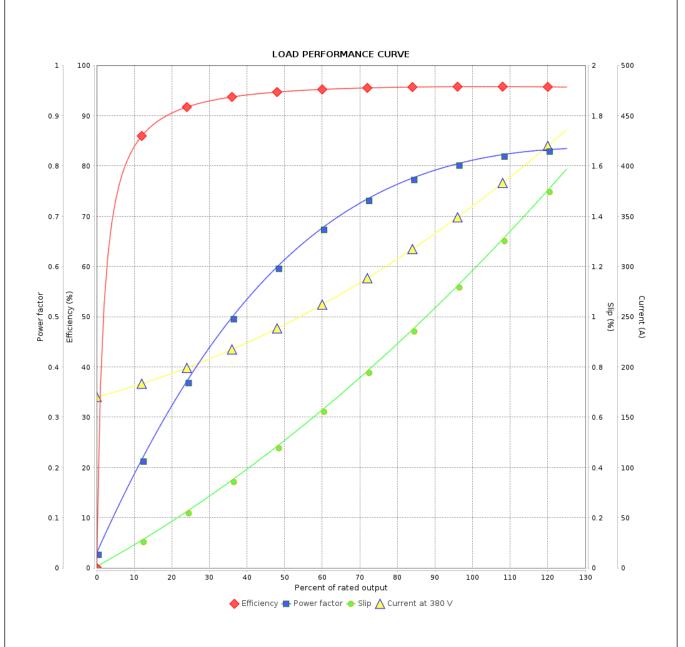


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13201564



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Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 362 A : 7.4 : 184 kgfm : 229 % : 250 % : 988 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 6.09 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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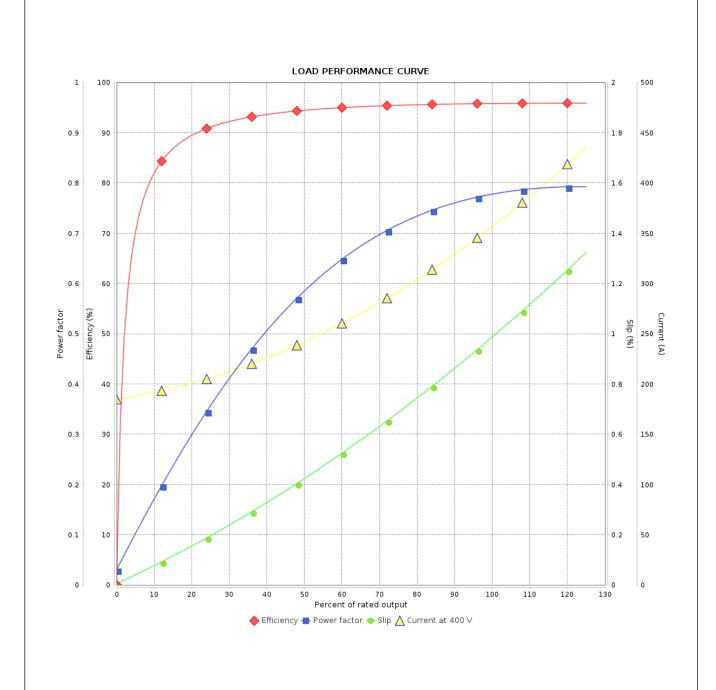
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13201564

Three-Phase



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 357 A : 7.8 : 183 kgfm : 260 % : 270 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.09 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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### Three Phase Induction Motor - Squirrel Cage

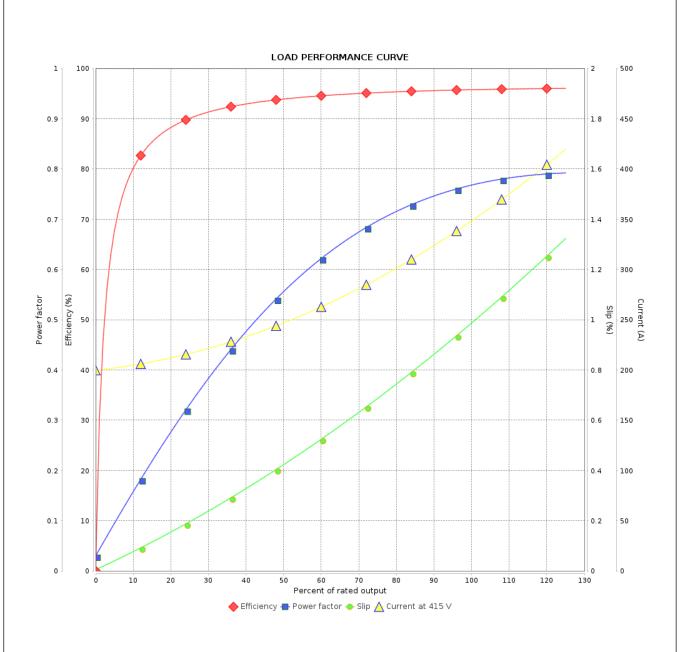


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13201564



Performance	: 415 V 50 Hz 6P IE3	<del>-</del>		
Rated current	: 349 A	Moment of inertia (J)	: 6.09 kgm²	
LRC	: 8.2	Duty cycle	: Cont.(S1)	
Rated torque	: 183 kgfm	Insulation class	: F	
Locked rotor torque	: 290 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 990 rpm	Design	: A	
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