### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11456657 Three-Phase Frame : 213/5T 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> : 82.2 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0888 kgm<sup>2</sup> Design : B Output [HP] 3 3 3 3 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 9.22/4.61 5.48 5.42 5.13 L. R. Amperes [A] 62.7/31.3 30.1 32.5 34.9 LRC [A] 6.8x(Code K) 5.5x(Code H) 6.0x(Code J) 6.8x(Code K) No load current [A] 6.00/3.00 3.00 3.10 3.30 Rated speed [RPM] 870 710 715 720 Slip [%] 3.33 5.33 4.67 4.00 Rated torque [kgfm] 2.50 3.07 3.05 3.02 Locked rotor torque [%] 220 170 210 229 Breakdown torque [%] 300 220 240 300 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 59s (cold) 33s (hot) 59s (cold) 33s (hot) Locked rotor time 79s (cold) 44s (hot) 59s (cold) 33s (hot) Noise level<sup>2</sup> 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 84.0 82.0 82.0 82.5 Efficiency (%) 75% 85.5 82.5 82.5 84.0 100% 85.5 82.5 82.5 84.0 25% 50% 0.49 0.55 0.51 0.50 Power Factor 75% 0.62 0.68 0.64 0.63 0.70 0.74 0.71 0.71 100% Losses at normative operating points (speed;torque), in percentage of rated output power 24.0 21.5 P1 (0,9;1,0) 19.1 24.0 P2 (0,5;1,0) 23.0 18.2 23.0 20.6 P3 (0,25;1,0) 22.9 22.9 17.9 20.4 P4 (0,9;0,5) 12.1 12.1 Losses (%) 9.5 10.7 P5 (0,5;0,5) 7.8 10.0 10.0 8.9 P6 (0,5;0,25) 5.8 7.6 7.6 6.6 P7 (0,25;0,25) 4.5 5.9 5.9 5.2 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ Max. traction : 126 kgf Sealing V'Ring V'Ring Max. compression : 209 kgf Lubrication interval Lubricant amount 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 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						ШЕЦ
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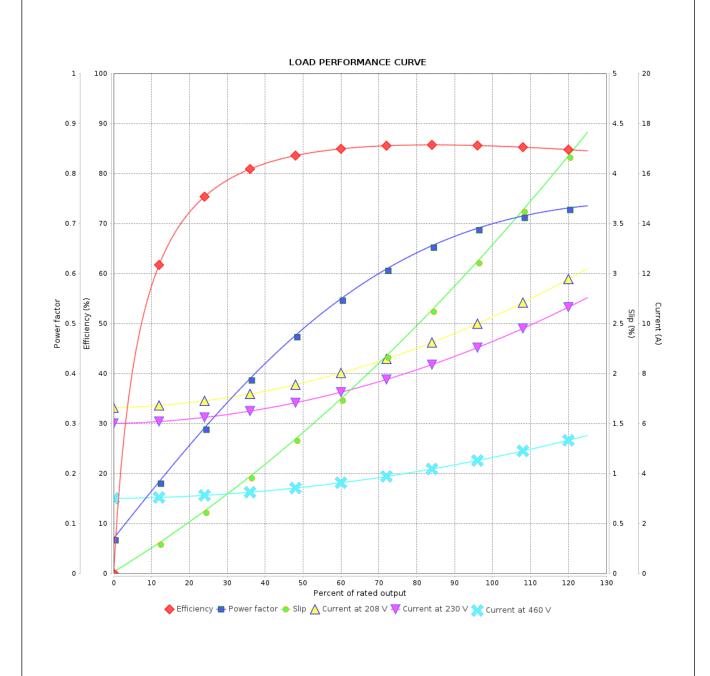
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456657

Three-Phase



Performance	: 230/460 V 60 Hz 8P	: 230/460 V 60 Hz 8P				
Rated current	: 9.22/4.61 A		Moment of inertia (J)		l <sup>2</sup>	
LRC	: 6.8	Duty cycle	Duty cycle			
Rated torque	: 2.50 kgfm	Insulation cl	Insulation class		: F	
Locked rotor torq	ue : 220 %	Service fact	Service factor		: 1.25	
Breakdown torqu	e : 300 %	Temperature	Temperature rise		: 80 K	
Rated speed	: 870 rpm	Design		: B		
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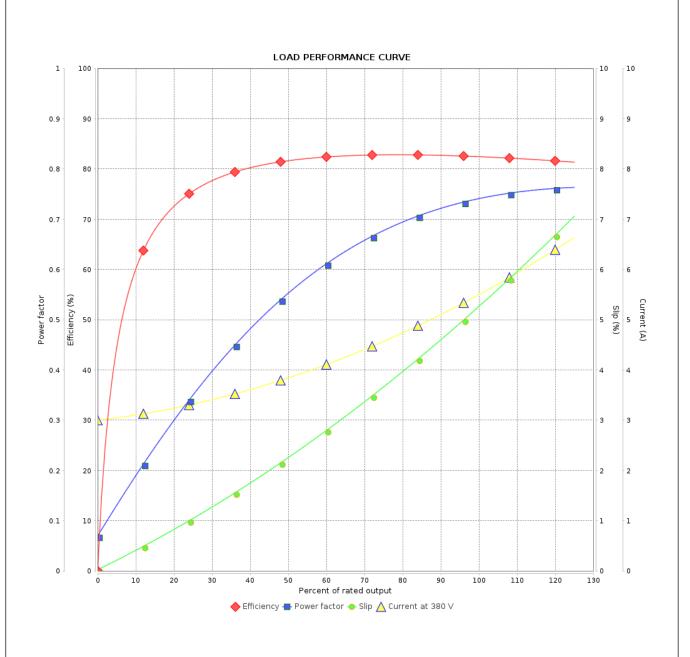


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456657



				,			
Performance	: 380 V 50 Hz 8P IE3						
Rated current LRC	: 5.48 A : 5.5	Moment of inertia (J) Duty cycle		: 0.0888 kgm² : Cont.(S1)			
Rated torque Locked rotor torque	: 3.07 kgfm : 170 %	Insulation class Service factor Temperature rise Design		: F : 1.25 : 80 K : B			
Breakdown torque Rated speed	: 220 % : 710 rpm						
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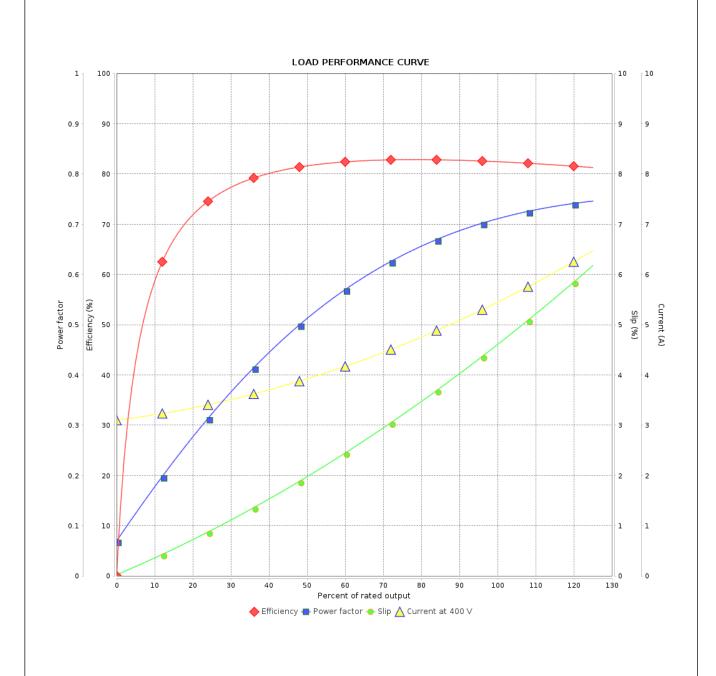
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456657

Three-Phase



Performance	: 400 V 50 Hz 8P IE3			
Rated current	: 5.42 A	Moment of inertia (J)	: 0.0888 kgm²	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 3.05 kgfm	Insulation class	: F ` ´	
Locked rotor torque	: 210 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 715 rpm	Design	: B	

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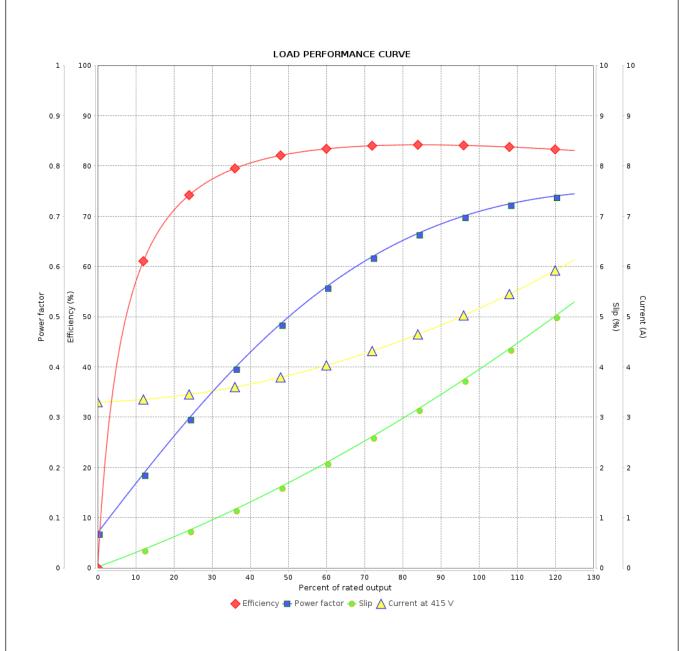


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456657



Performance	: 41	15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 3. que : 22 ue : 30	13 A 8 02 kgfm 29 % 00 % 20 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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