#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12717282 Three-Phase Frame : 213/5TC Cooling method : IC411 - TEFC Insulation class Mounting : 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 : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 77.0 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0566 kgm<sup>2</sup> Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 4 4 4 4 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 18.4/9.18 11.0 10.6 10.3 L. R. Amperes [A] 130/65.2 61.6 65.7 69.0 LRC [A] 7.1x(Code H) 5.6x(Code F) 6.2x(Code G) 6.7x(Code H) No load current [A] 8.40/4.20 4.10 4.40 4.70 Rated speed [RPM] 1765 1455 1460 1465 Slip [%] 1.94 3.00 2.67 2.33 Rated torque [kgfm] 3.08 3.74 3.73 3.72 Locked rotor torque [%] 220 170 190 210 Breakdown torque [%] 310 240 270 290 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 36s (cold) 20s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 89.5 89.5 89.5 89.5 Efficiency (%) 75% 91.0 89.5 90.2 90.2 100% 91.7 89.6 90.2 90.2 25% 50% 0.66 0.72 0.69 0.66 Power Factor 75% 0.76 0.81 0.78 0.76 0.82 0.83 0.82 100% 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 8.8 8.8 8.8 P2 (0,5;1,0) 7.0 7.0 7.0 7.0 P3 (0,25;1,0) 6.5 6.5 6.5 6.5 P4 (0,9;0,5) 4.9 4.9 4.9 Losses (%) 4.9 P5 (0,5;0,5) 3.3 3.3 3.3 3.3 P6 (0,5;0,25) 2.4 2.4 2.4 2.4 P7 (0,25;0,25) 1.6 1.6 1.6 1.6 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ : 161 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 238 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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# DATA SHEET



Three Phase Induction Motor - Squirrel Cage	<u> </u>
Customer :	
Notes	
USABLE @208V 19.9A SF 1.15 SFA 22.9A	

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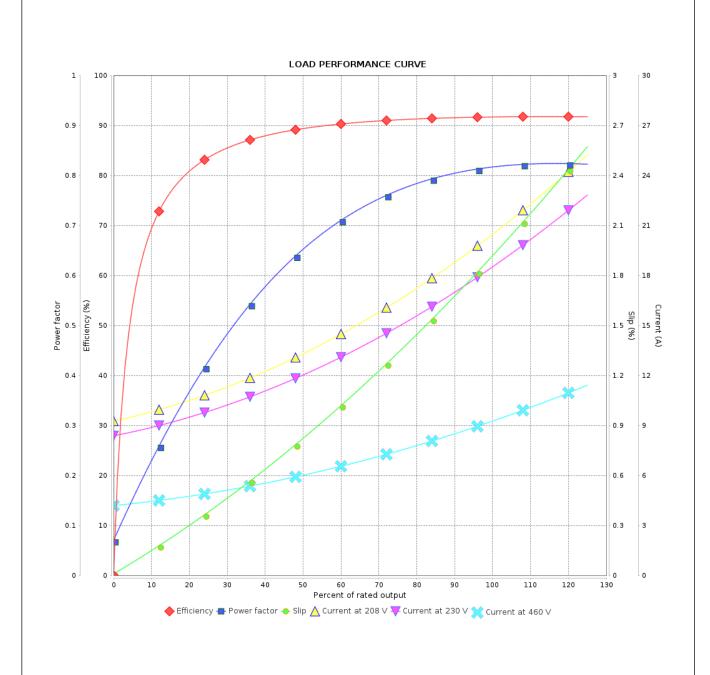
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717282

Three-Phase



::	230/460 V 60 Hz 4P					
:	18.4/9.18 A	N	Moment of	f inertia (J)	: 0.0566 kgm	2
:	7.1	[	Duty cycle	<b>;</b>	: Cont.(S1)	
:;	3.08 kgfm		nsulation	class	: F	
que : :	220 %	5	Service fa	ctor	: 1.25	
ie :	310 %	7	Temperatu	ıre rise	: 80 K	
:	1765 rpm	[	Design		: B	
	Changes Summary			Performed	Checked	Date
	: :: que ::	ie : 310 % : 1765 rpm	: 18.4/9.18 A	: 18.4/9.18 A	: 18.4/9.18 A : 7.1 : 3.08 kgfm : 220 % : 310 % : 1765 rpm   Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 18.4/9.18 A       Moment of inertia (J)       : 0.0566 kgm         : 7.1       Duty cycle       : Cont.(S1)         : 3.08 kgfm       Insulation class       : F         que       : 220 %       Service factor       : 1.25         ue       : 310 %       Temperature rise       : 80 K         : 1765 rpm       Design       : B

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#### Three Phase Induction Motor - Squirrel Cage

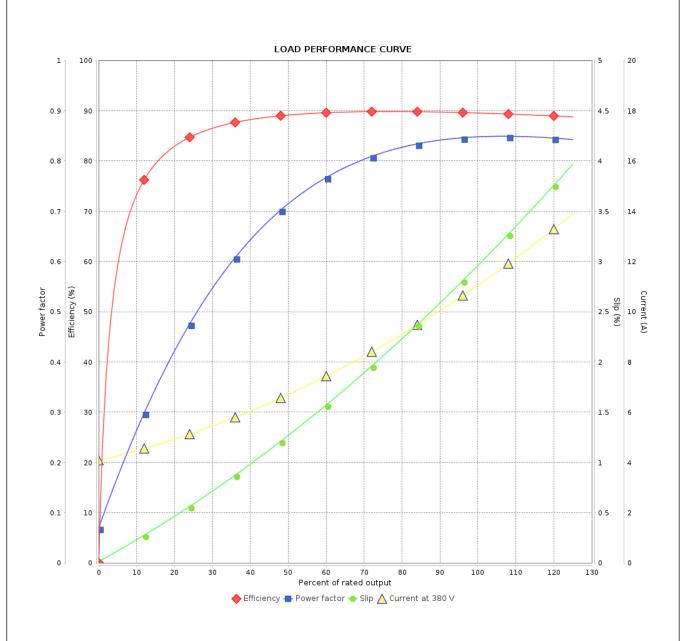


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717282



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.0 A : 5.6 : 3.74 kgfm : 170 % : 240 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0566 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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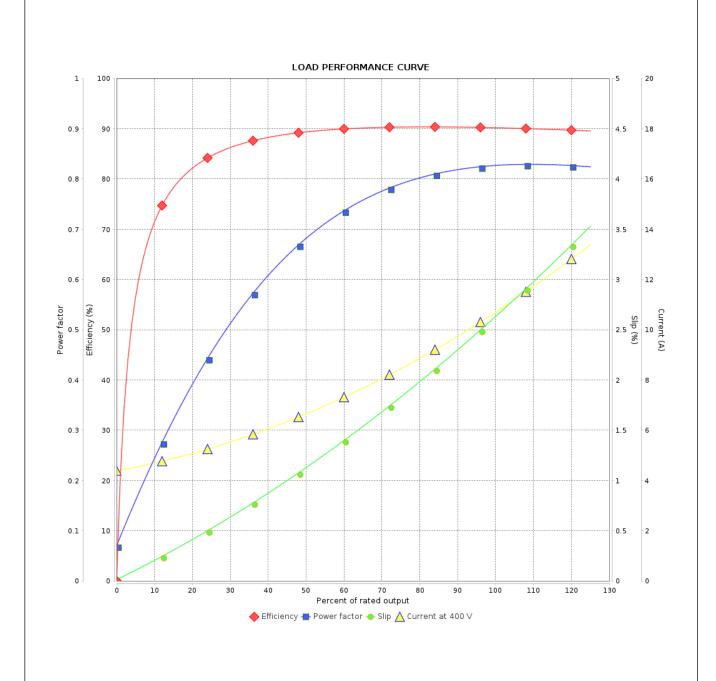
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Product line : W22 NEMA Premium Efficiency Product code : 12717282

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 10.6 A	Moment of inertia (J)		: 0.0566 kgm²	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 3.73 kgfm	Insulation class		: F	
Locked rotor torque	: 190 %	Service factor		: 1.25	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed : 1460 rpm		Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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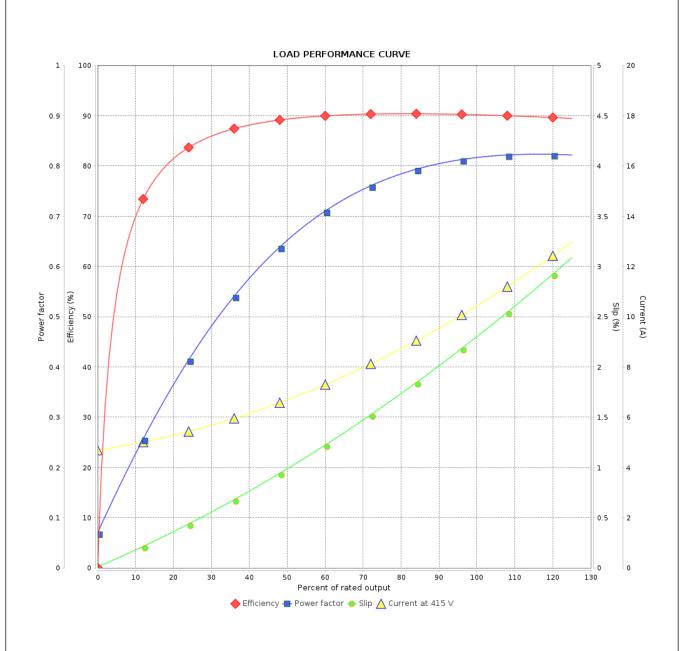
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717282



Performance : 415 V 50 Hz 4P IE3 : 10.3 A : 0.0566 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.72 kgfm : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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