### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 P Base NEMA Premium Product code: 14605782 Efficiency Three-Phase Frame : 404/5HPH Cooling method : IC411 - TEFC Insulation class Mounting : W-6 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> : 512 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm<sup>2</sup> Design : B Output [HP] 100 75 75 75 Poles 2 2 2 2 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 224/112 99.6 94.6 92.2 L. R. Amperes [A] 1456/728 677 719 756 LRC [A] 6.5x(Code G) 6.8x(Code G) 7.6x(Code H) 8.2x(Code J) No load current [A] 52.0/26.0 25.7 27.5 29.1 Rated speed [RPM] 3545 2955 2960 2965 Slip [%] 1.53 1.50 1.33 1.17 Rated torque [kgfm] 20.5 18.4 18.4 18.4 Locked rotor torque [%] 240 250 280 300 Breakdown torque [%] 260 280 310 330 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 18s (cold) 10s (hot) Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level<sup>2</sup> 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 93.0 93.0 93.1 93.5 Efficiency (%) 75% 94.1 93.8 93.8 94.0 100% 94.1 94.3 94.3 94.3 25% 50% 0.83 0.82 0.80 0.78 Power Factor 75% 0.88 0.88 0.86 0.85 0.89 0.89 0.88 100% 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.9 5.9 5.9 P2 (0,5;1,0) 4.6 4.6 4.6 4.6 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Non drive end Foundation loads Drive end Bearing type 6316 C3 6314 C3 Max. traction Sealing Lip Seal Lip Seal Max. compression 2000 h 3000 h Lubrication interval Lubricant amount 34 q 27 g Isoflex NBU-15 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

1/6

29/10/2024

# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			<u>шец</u>
Customer	:			
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Rev.	Changes Summary	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

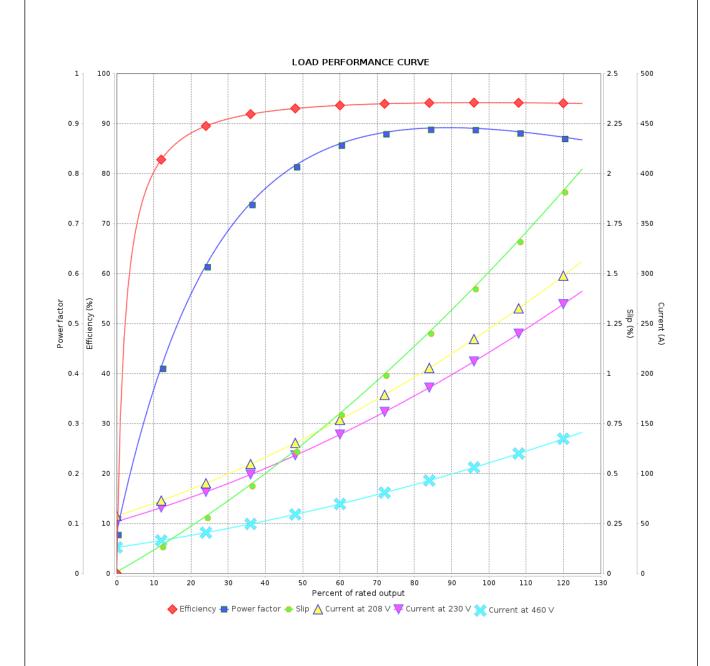


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 14605782



Performance	:	230/460 V 60 Hz 2P					
Rated current		224/112 A	Moment of inertia (J)		: 0.5561 kgm²		
LRC		6.5	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		20.5 kgfm	Insulation class		: F		
Locked rotor torque		240 %	Service factor		: 1.25		
Breakdown torque	e :	260 %	Temperature rise		: 80 K		
Rated speed	:	3545 rpm Design			: B		
Rev.		Changes Summar	у	Performed	Checked	Date	
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Date	29/10/2024				3/6		

### Three Phase Induction Motor - Squirrel Cage

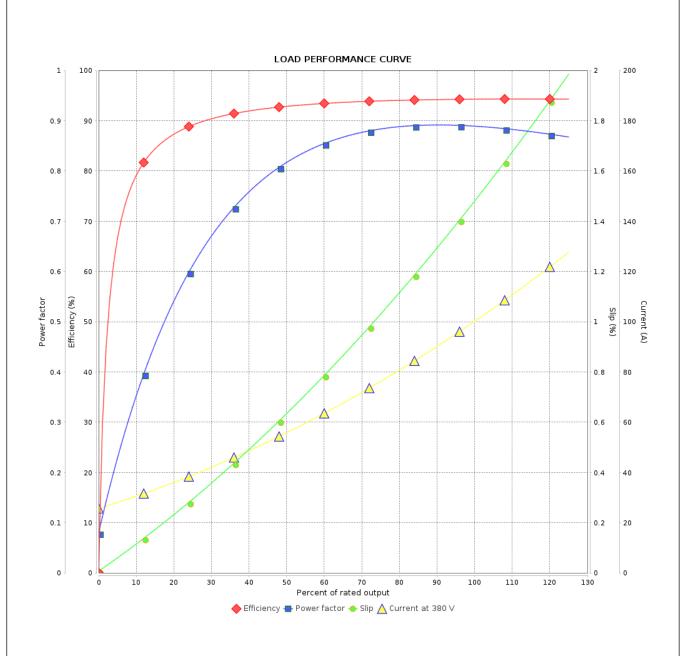


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 14605782



Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 99.6 A : 6.8 : 18.4 kgfm : 250 % : 280 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.5561 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	2
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

4/6

29/10/2024

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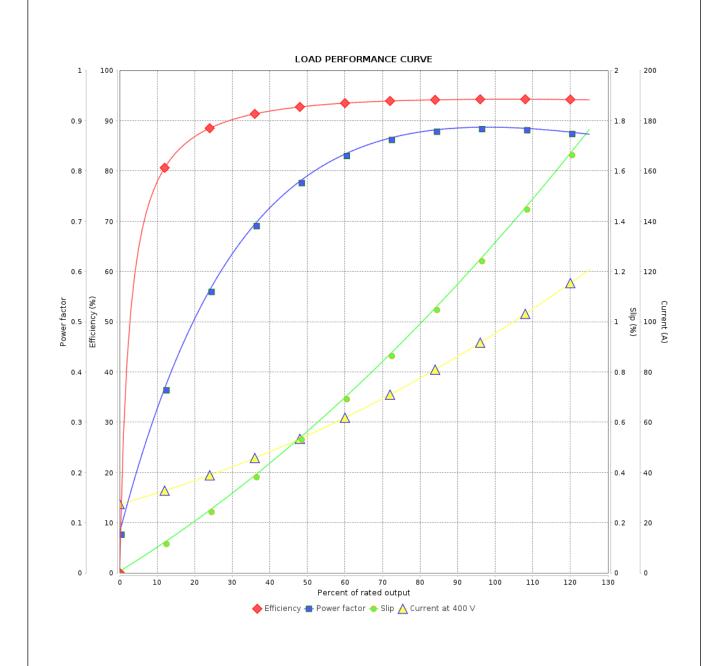


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 14605782



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.6 A : 7.6 : 18.4 kgfm : 280 % : 310 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

5/6

29/10/2024

### Three Phase Induction Motor - Squirrel Cage

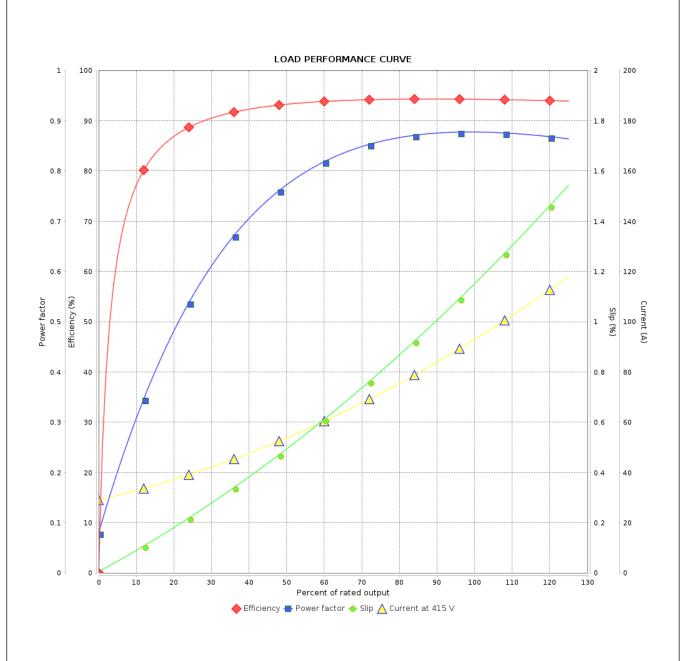


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 14605782



Performance	: 4	115 V 50 Hz 2P IE3					
Rated current		92.2 A	Moment of	Moment of inertia (J)		2	
LRC :		3.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		l8.4 kgfm	Insulation class		:F		
Locked rotor torque		300 %	Service factor		: 1.00		
Breakdown torque	: 3	330 %	Temperati	Temperature rise			
Rated speed	: 2	2965 rpm Design		: B			
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Date	29/10/2024				6/6		