### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 P Base NEMA Premium Product code: 13016466 Efficiency Three-Phase Frame : 145HP Cooling method : IC411 - TEFC Insulation class Mounting : W-6 : 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> : 26.5 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0060 kgm<sup>2</sup> Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 4.04/2.02 2.42 2.33 2.30 L. R. Amperes [A] 33.9/17.0 15.5 16.3 17.0 LRC [A] 8.4x(Code L) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 2.20/1.10 1.10 1.20 1.30 Rated speed [RPM] 1755 1440 1445 1450 Slip [%] 2.50 4.00 3.67 3.33 Rated torque [kgfm] 0.620 0.756 0.751 0.751 Locked rotor torque [%] 290 220 250 280 Breakdown torque [%] 350 250 290 320 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Noise level<sup>2</sup> 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 82.5 82.5 82.5 81.0 Efficiency (%) 75% 85.5 84.0 84.0 84.0 100% 86.5 84.1 84.1 84.1 25% 50% 0.60 0.67 0.63 0.60 Power Factor 75% 0.70 0.76 0.74 0.70 0.79 0.82 0.81 0.79 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.6 14.6 14.6 14.6 P2 (0,5;1,0) 12.1 12.1 12.1 12.1 P3 (0,25;1,0) 12.2 12.2 12.2 12.2 8.2 P4 (0,9;0,5) 8.2 8.2 8.2 Losses (%) P5 (0,5;0,5) 5.7 5.7 5.7 5.7 P6 (0,5;0,25) 4.3 4.3 4.3 4.3 P7 (0,25;0,25) 3.2 3.2 3.2 3.2 Non drive end Foundation loads Drive end Bearing type 6307 ZZ 6204 ZZ Max. traction Sealing V'Ring V'Ring Max. compression 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

1/6

26/10/2024

# DATA SHEET

Checked by

Date



Revision

Page

Three Pha	se Inductio	n Motor - Squirrel Ca	age		ШЕЦ
Customer	:				· ·
Notes USABLE @208\	√ 4.36A SF 1.15 \$	SFA 5.01A			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					

•	26/10/2024		2/6	
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed without written	authorization of WE	G S/A.
		Subject to change without notice		

### Three Phase Induction Motor - Squirrel Cage

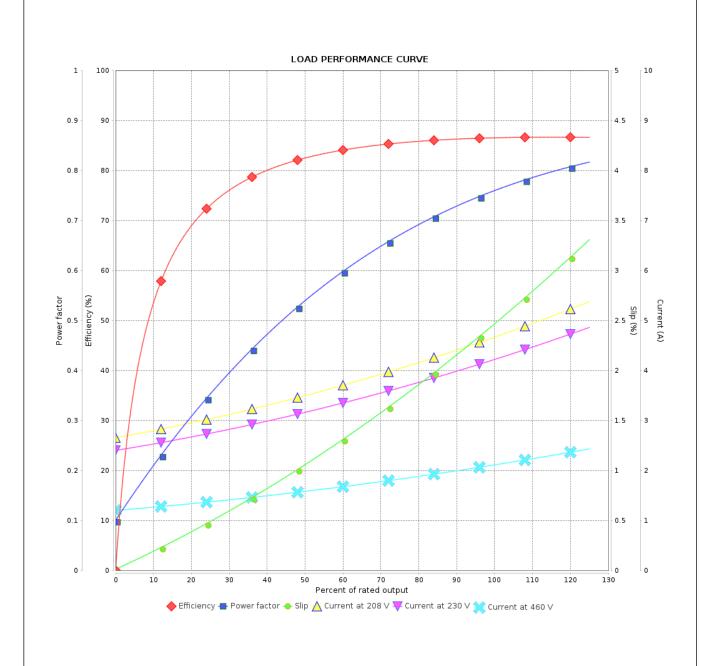


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13016466



Performance	: 230	/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 8.4 : 0.62 ne : 290 : 350		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0060 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by					Page	Revision	

3/6

26/10/2024

### Three Phase Induction Motor - Squirrel Cage

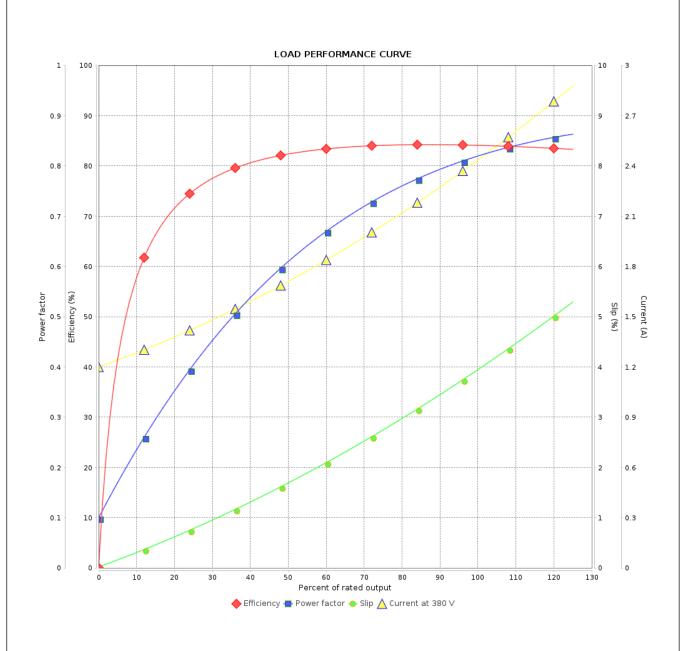


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13016466



Performance	: 380 V 50 Hz 4P IE3						
Rated current	: 2.42 A	Moment of inertia (J)		: 0.0060 kgm²			
LRC	: 6.4	Duty cycle		: Cont.(S1)			
Rated torque	: 0.756 kgfm	Insulation class		: <b>F</b>			
Locked rotor torque	: 220 %	Service factor		: 1.25			
Breakdown torque	: 250 %	Temperature rise		: 80 K			
Rated speed	: 1440 rpm	Design		: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

4/6

26/10/2024

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

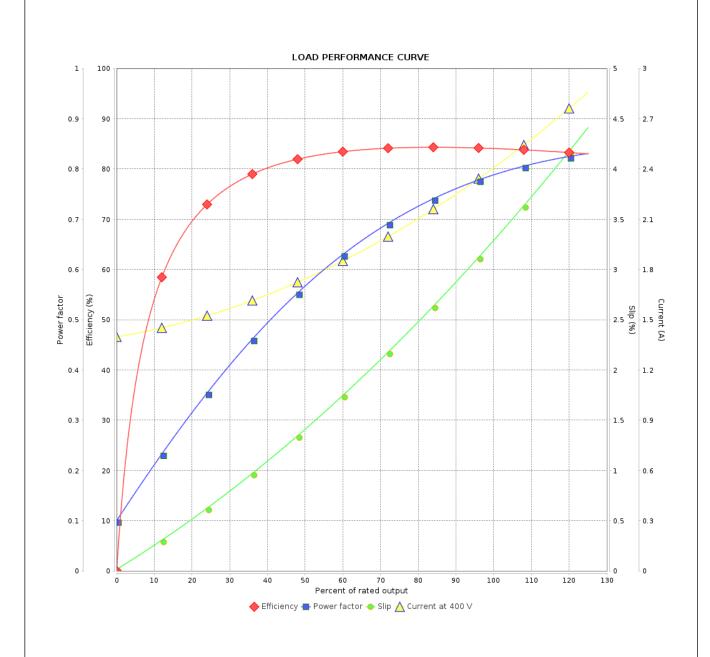
Date

26/10/2024

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13016466



Performance		: 400 V 50 Hz 4P IE	<b>E</b> 3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 2.33 A : 7.0 : 0.751 kgfm : 250 % : 290 % : 1445 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

Page

5/6

Revision

### Three Phase Induction Motor - Squirrel Cage

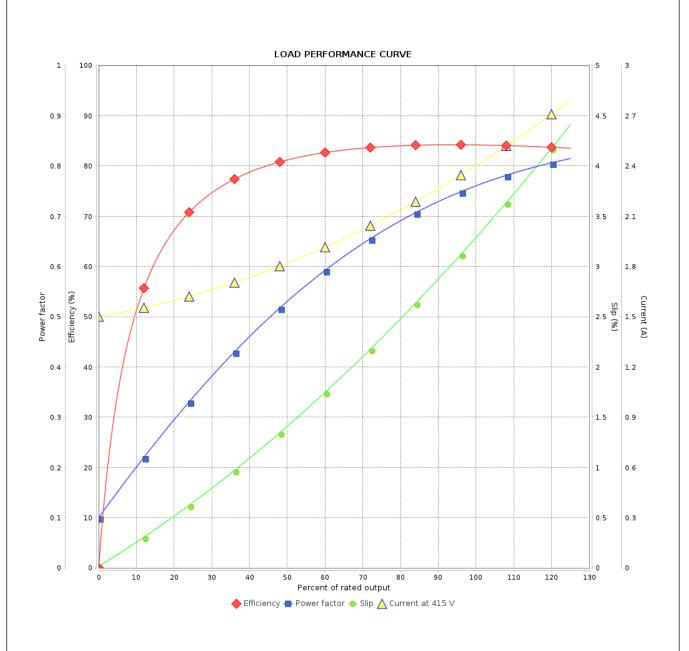


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13016466



Performance	: 415 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.30 A : 7.4 : 0.751 kgfm : 280 % : 320 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0060 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K			
Rev.	Changes Summary	Performed	d Checked	Date			
Performed by							
Checked by			Page	Revision			

6/6

26/10/2024