DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11723921 Three-Phase : 254/6T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ Altitude : 1000 m.a.s.l. : 130 kg Protection degree : IP55 Moment of inertia (J) : 0.1104 kgm² Design : B Output [HP] 15 10 10 15 10 15 15 Poles 4 4 4 4 4 4 4 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 21.5 36.0/18.0 15.2 14.8 14.5 20.5 20.0 L. R. Amperes [A] 230/115 109 115 120 105 111 118 6.4x(Code LRC [A] 7.2x(Code J) 7.8x(Code J) 8.3x(Code K) 4.9x(Code E) 5.4x(Code F) 5.9x(Code G) G) No load current [A] 7.40 7.10 14.0/7.00 6.70 7.10 7.60 7.40 Rated speed [RPM] 1768 1475 1480 1480 1455 1460 1465 Slip [%] 1.78 1.67 1.33 1.33 3.00 2.67 2.33 Rated torque [kgfm] 6.16 4.92 4.90 4.90 7.48 7.46 7.43 Locked rotor torque [%] 240 250 280 310 160 200 210 Breakdown torque [%] 260 300 340 370 200 220 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 Temperature rise 80 K 41s (cold) 37s (cold) Locked rotor time 55s (cold) 72s (cold) 63s (cold) 57s (cold) 41s (cold) 31s (hot) 40s (hot) 35s (hot) 32s (hot) 23s (hot) 23s (hot) 21s (hot) Noise level² 64.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 0.000 50% 91.0 88.88 88.6 88.3 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.3 90.3 90.3 90.2 91.0 91.0 100% 92.4 90.4 90.6 90.8 90.2 91.0 91.0 25% 0.00 50% 0.65 0.62 0.59 0.74 0.71 0.69 0.68 Power Factor 75% 0.78 0.77 0.74 0.72 0.82 0.80 0.79 100% 0.83 0.83 0.81 0.79 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 8.1 8.1 8.1 8.1 8.1 8.1 P2 (0,5;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P3 (0,25;1,0) 6.3 6.3 6.3 6.3 6.3 6.3 6.3 P4 (0,9;0,5) 3.9 3.9 3.9 3.9 3.9 3.9 3.9 Losses (%) P5 (0,5;0,5) 2.7 2.7 2.7 2.7 2.7 2.7 2.7 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 P7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6309 C3 6209 C3 : 216 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 345 kgf Lubrication interval 20000 h 20000 h Lubricant amount 13 q 9 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 20/10/2024 1/9 Date

DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			шец
Customer	:			
Notes USABLE @208\	/ 39.8A SF 1.15 SFA 45.8A			
Rev.	Changes Summary	Performed	Checked	Date
5 ():	,			

Rev.		Changes Summary	Performed	Спескеа	Date
Performed by					
Checked by				Page	Revision
Date	20/10/2024			2/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

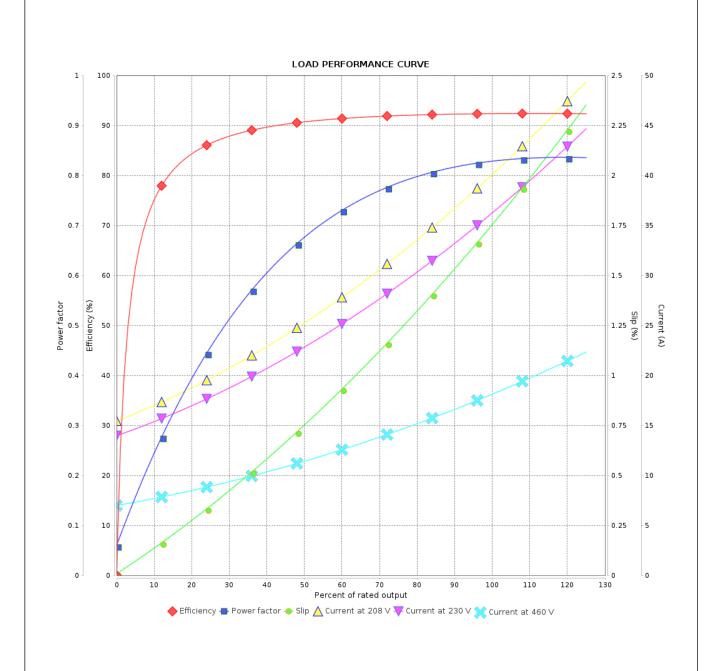
Checked by

Date

20/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11723921

Three-Phase



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.0/18.0 A : 6.4 : 6.16 kgfm : 240 % : 260 % : 1768 rpm	Moment of inertia (J) : 0.1104 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Page

3/9

Revision

Three Phase Induction Motor - Squirrel Cage

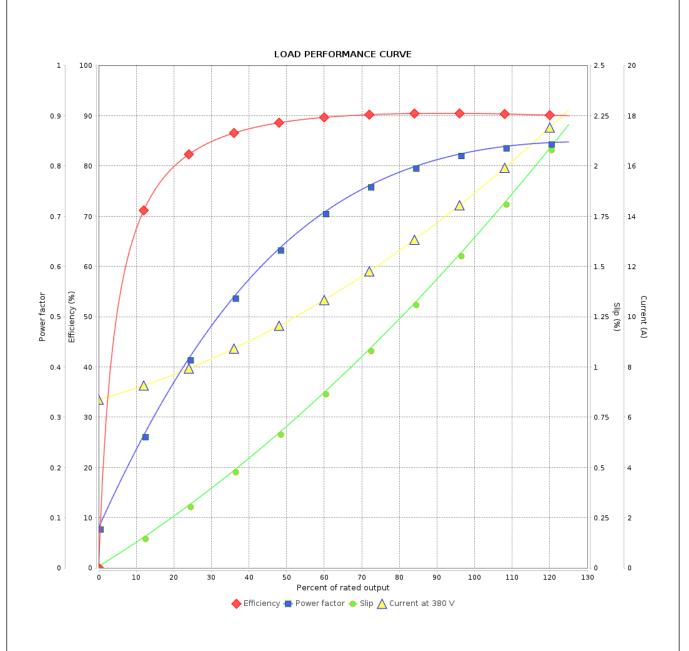


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723921



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.2 A : 7.2 : 4.92 kgfm : 250 % : 300 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1104 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

4/9

20/10/2024

Date

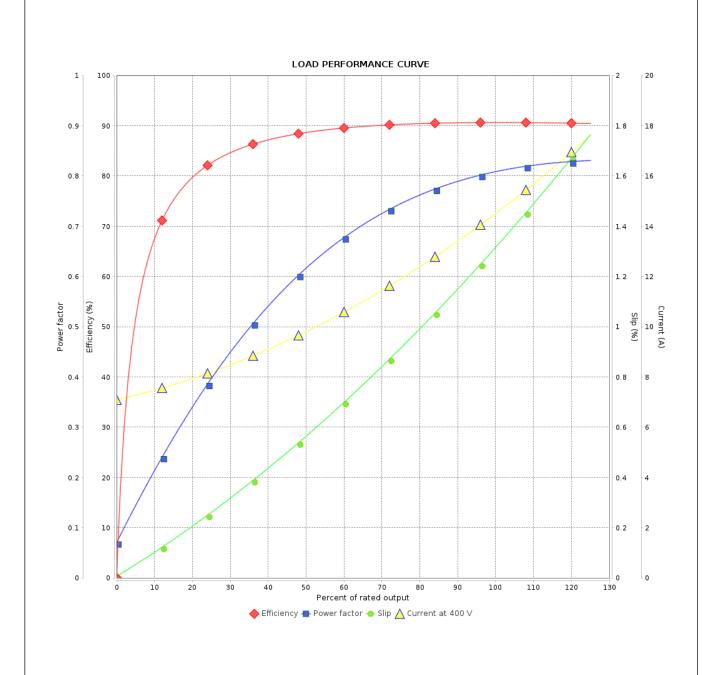
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11723921

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC	: 14.8 A : 7.8	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1104 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rated torque Locked rotor torque Breakdown torque	: 4.90 kgfm : 280 % : 340 %				
Rated speed	: 1480 rpm				
Rev.	Changes Summary	ı	Performed	Checked	Date
Performed by					

r enormed by				
Checked by			Page	Revision
Date	20/10/2024		5/9	
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed without written	authorization of WE	G S/A.

Three Phase Induction Motor - Squirrel Cage



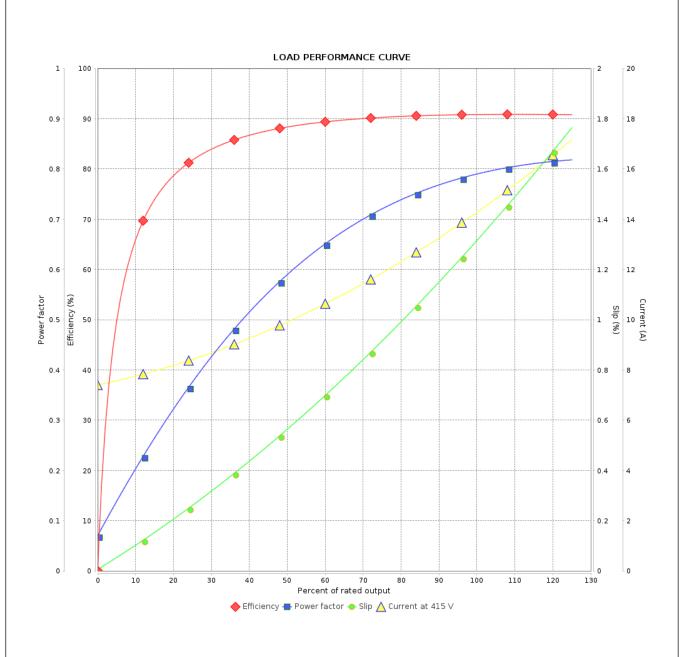
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11723921



Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current		4.5 A	Moment o	Moment of inertia (J)		2
LRC : 8		.3	Duty cycle	е	: 0.1104 kgm² : Cont.(S1)	
Rated torque :		.90 kgfm	Insulation	class	: F	
Locked rotor torque		10 %	Service fa	Service factor		
Breakdown torque	: : 3	70 %	Temperature rise	: 80 K : B		
Rated speed	: 1	480 rpm	30 rpm Design			
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	20/10/2024				6/9	

Three Phase Induction Motor - Squirrel Cage



Customer :

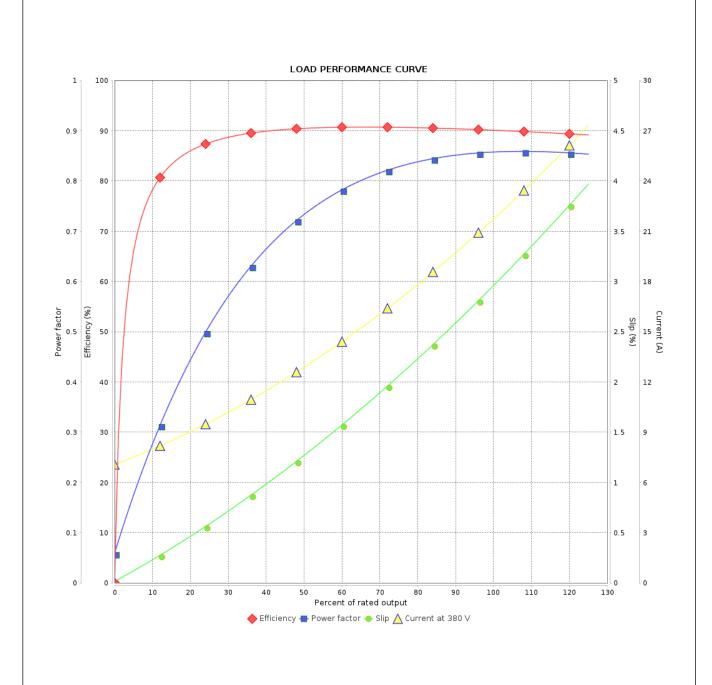
Checked by

Date

20/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11723921

Three-Phase



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.5 A : 4.9 : 7.48 kgfm : 160 % : 200 % : 1455 rpm	Moment of inertia (J) : 0.1104 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
Rev. Changes Summary			Performed	Checked	Date
Performed by					

Page

7/9

Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

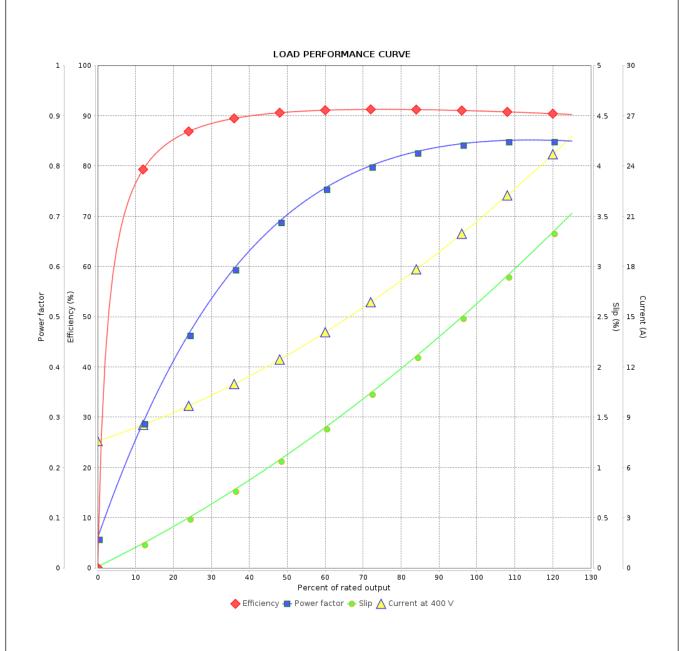
Date

20/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723921



Performance : 400 V 50 Hz 4P IE2 : 0.1104 kgm² Rated current : 20.5 A Moment of inertia (J) **LRC** : 5.4 Duty cycle : Cont.(S1) : 7.46 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

8/9

Three Phase Induction Motor - Squirrel Cage



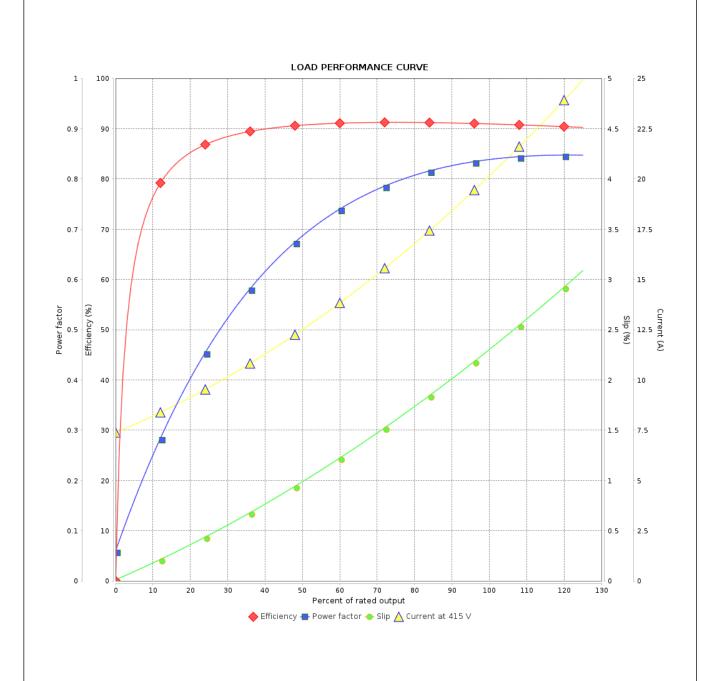
Customer :

Date

20/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 11723921

Three-Phase



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.0 A : 5.9 : 7.43 kgfm : 210 % : 240 % : 1465 rpm	Moment of inertia (J) : 0.1104 kgm Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: F : 1.00 : 80 K	
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	
Checked by				Page	Revision

9/9