DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11456700 Three-Phase Frame : 213/5TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 78.1 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0620 kgm² Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 13.7/6.83 8.20 7.82 7.65 L. R. Amperes [A] 47.7 92.9/46.4 45.1 49.7 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) No load current [A] 6.90/3.45 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 150 160 190 Breakdown torque [%] 260 215 220 250 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 102s (cold) 57s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.75 0.73 0.71 0.76 0.79 0.78 0.76 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.3 P1 (0,9;1,0) 13.5 11.1 14.4 P2 (0,5;1,0) 9.1 11.1 10.1 11.8 P3 (0,25;1,0) 8.8 9.8 11.4 10.8 P4 (0,9;0,5) 7.1 6.4 Losses (%) 5.8 7.5 P5 (0,5;0,5) 4.5 4.0 5.2 4.9 P6 (0,5;0,25) 2.9 3.7 3.5 3.2 P7 (0,25;0,25) 2.1 2.7 2.6 2.3 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ : 134 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 212 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

1/6

18/10/2024

Date

DATA SHEET

Checked by



Revision

Page

Three Pha	se Induction	Motor - Squirrel Cage			ШЕЦ
Customer	:				
Notes USABLE @208\	√ 15.1A SF 1.15 S	FA 17.4A			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					

Date	18/10/2024		2/6	
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed without writter	authorization of WE	G S/A.
		Subject to change without notice		

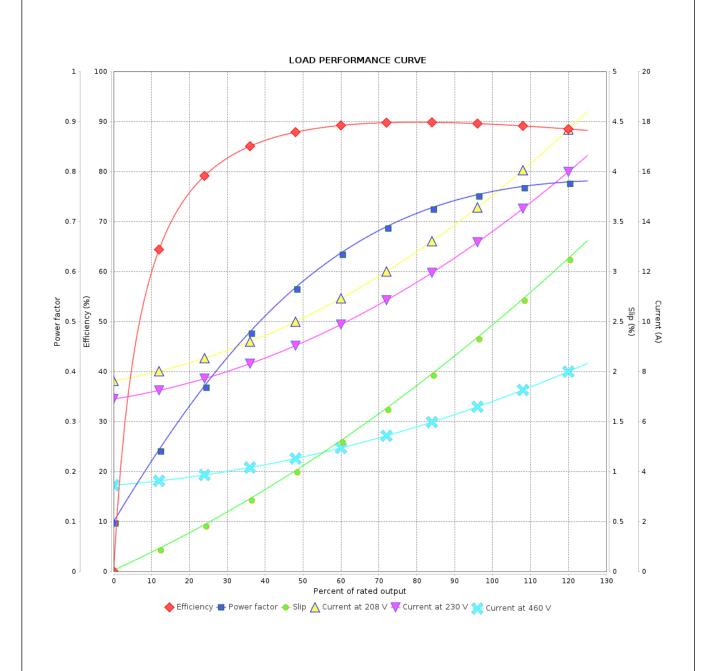
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456700

Three-Phase



				,					
Performance	: 230/460 V 60 Hz 6P	: 230/460 V 60 Hz 6P							
Rated current	: 13.7/6.83 A	Moment of	of inertia (J)	: 0.0620 kgm	2				
LRC	: 6.8	Duty cycl	е	: Cont.(S1)					
Rated torque	: 3.10 kgfm	Insulation class		: F					
Locked rotor torque	: 170 %	Service fa	actor	: 1.25					
Breakdown torque	: 260 %	Temperat	ure rise	: 80 K					
Rated speed	: 1170 rpm	Design		: B					
Rev	Changes Summary		Performed	Checked	Data				

rtatoa opooa		170 Ipin	Doolgii		. 5	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	18/10/2024				3/6	

Three Phase Induction Motor - Squirrel Cage

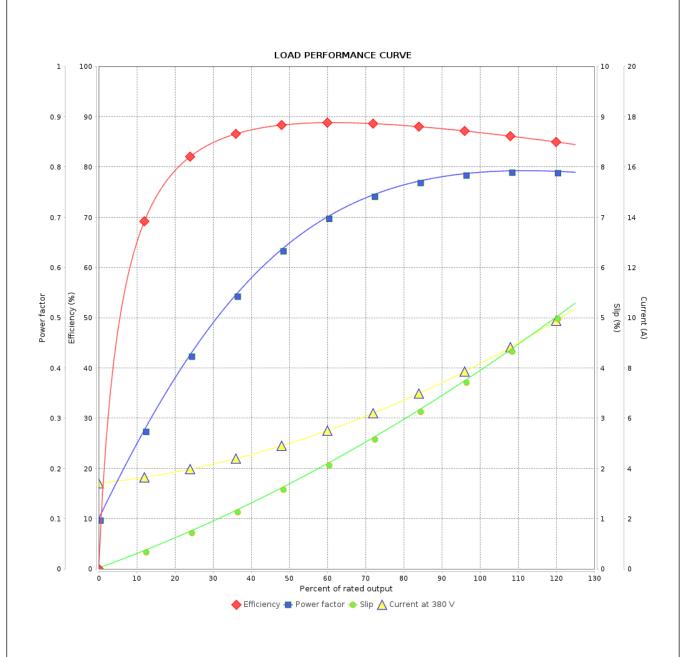


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456700



Performance	: 380 V 50 Hz 6P IE3						
Rated current	: 8.20 A	Moment of inertia (J)		: 0.0620 kgm²			
LRC	: 5.5	Duty cycle		: Cont.(S1)			
Rated torque	: 3.78 kgfm	Insulation class		: F ` ´			
Locked rotor torque	: 150 %	Service factor		: 1.00			
Breakdown torque	: 215 %	Temperature rise		: 80 K			
Rated speed	: 960 rpm	Design		: B			
Rev.	Changes Summary	Р	erformed	Checked	Date		
Performed by							
Checked by				Page	Revision		

4/6

18/10/2024

Date

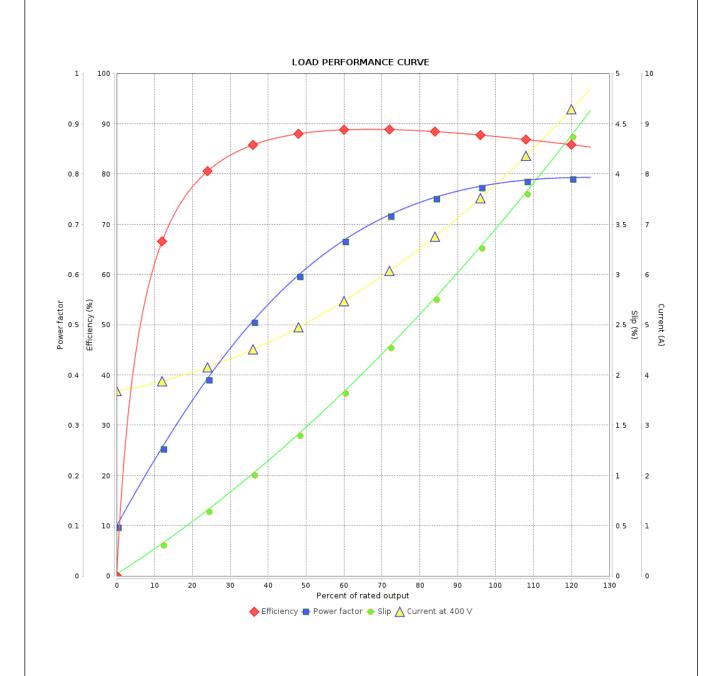
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456700

Three-Phase



Performance	: 400 V 50 Hz 6P IE3	: 400 V 50 Hz 6P IE3					
Rated current	: 7.82 A	Moment of inertia (J)		: 0.0620 kgm²			
LRC	: 6.1	Duty cycle	9	: Cont.(S1)			
Rated torque	: 3.76 kgfm	Insulation class		: F			
Locked rotor torque	: 160 %	Service factor		: 1.00			
Breakdown torque	: 220 %	Temperature rise		: 80 K			
Rated speed	: 965 rpm	Design		: B			
Rev. Changes Summary			Performed	Checked	Date		

· tatou opoou	. • •	· · · · · · ·				
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	18/10/2024				5/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

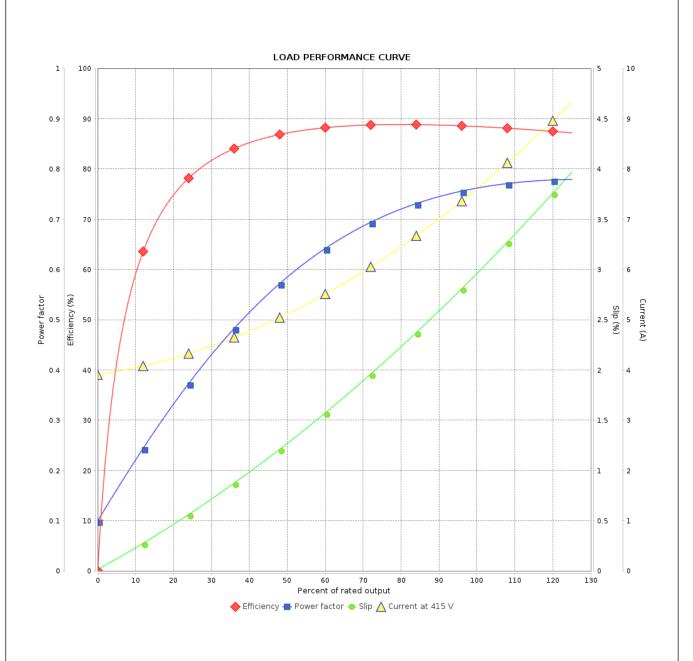
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

11456700

6/6



Performance	: 4	: 415 V 50 Hz 6P IE3							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 3 que : 1 ue : 2	.65 A .5 .74 kgfm 90 % 50 % 70 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0620 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2			
Rev.	Rev. Changes Summary		ry	Performed	Checked	Date			
Performed by					_				
Checked by					Page	Revision			

18/10/2024

Date