DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 14562090 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 : 72.2 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0753 kgm² Design : B Output [HP] 2 2 2 2 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 6.78/3.39 3.91 3.80 3.78 L. R. Amperes [A] 46.8/23.4 23.5 24.7 27.2 LRC [A] 6.9x(Code L) 6.0x(Code J) 6.5x(Code K) 7.2x(Code L) No load current [A] 4.60/2.30 2.30 2.42 2.54 Rated speed [RPM] 875 715 720 725 Slip [%] 2.78 4.67 4.00 3.33 Rated torque [kgfm] 1.66 2.03 2.02 2.00 Locked rotor torque [%] 220 170 210 240 Breakdown torque [%] 290 210 250 280 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 70s (cold) 39s (hot) Locked rotor time 70s (cold) 39s (hot) 70s (cold) 39s (hot) 70s (cold) 39s (hot) Noise level² 52.0 dB(A) 48.0 dB(A) 48.0 dB(A) 48.0 dB(A) 25% 50% 82.5 81.5 81.5 81.5 Efficiency (%) 75% 84.0 82.0 82.5 82.5 100% 85.5 82.0 82.5 82.5 25% 50% 0.45 0.52 0.49 0.46 Power Factor 75% 0.55 0.62 0.59 0.56 0.65 0.71 0.69 0.67 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.1 20.1 16.1 20.8 P2 (0,5;1,0) 13.5 17.5 16.9 16.9 P3 (0,25;1,0) 13.2 16.5 17.1 16.5 P4 (0,9;0,5) 12.0 Losses (%) 9.6 12.4 12.0 P5 (0,5;0,5) 8.7 7.0 9.0 8.7 P6 (0,5;0,25) 5.6 7.2 7.0 7.0 P7 (0,25;0,25) 4.4 5.7 5.5 5.5 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ Max. traction : 67 kaf Sealing V'Ring V'Ring Max. compression : 139 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

29/10/2024

Date

DATA SHEET

Checked by

Date



Three Phase Induction Motor - Squirrel Cage					ШЕЦ
Customer	:				· ·
Notes USABLE @208\	√ 7.49A SF 1.15 \$	SFA 8.62A			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					

)	29/10/2024		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		

Page

Revision

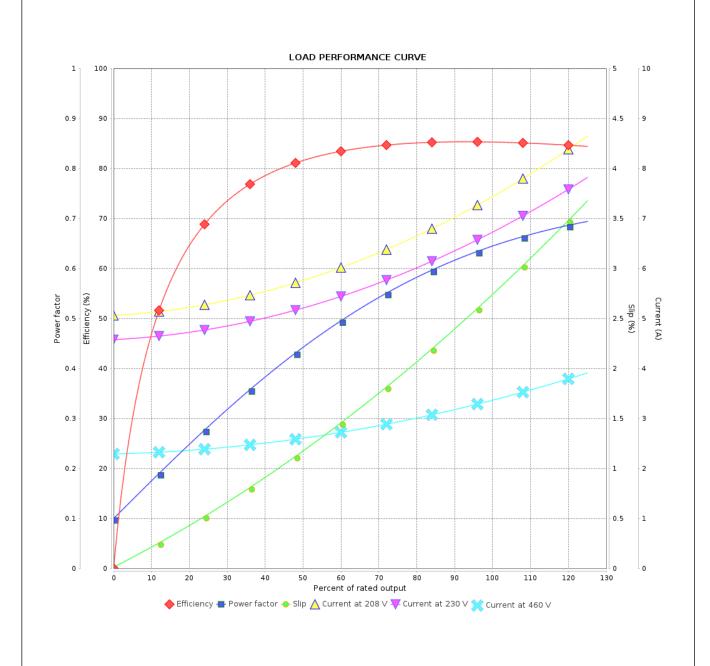
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 14562090

Three-Phase



Locked rotor torq Breakdown torqu		Service factor Temperature rise	: 1.25 : 80 K	
Rated torque	: 1.66 kgfm	Insulation class	: F	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated current	: 6.78/3.39 A	Moment of inertia (J)	: 0.0753 kgm²	
Performance	: 230/460 V 60 Hz 8P			

raica speca	. 0	75 Ipili	Design		. D	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	29/10/2024				3/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

29/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

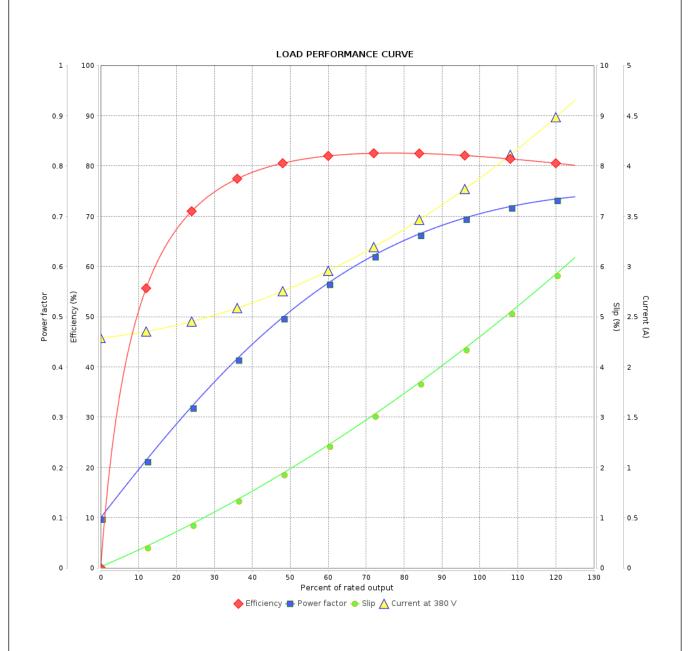
Product code :

14562090

Page

4/6

Revision



Performance	: 3	880 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 1 ue : 2	3.91 A 5.0 2.03 kgfm 170 % 210 % 715 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0753 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

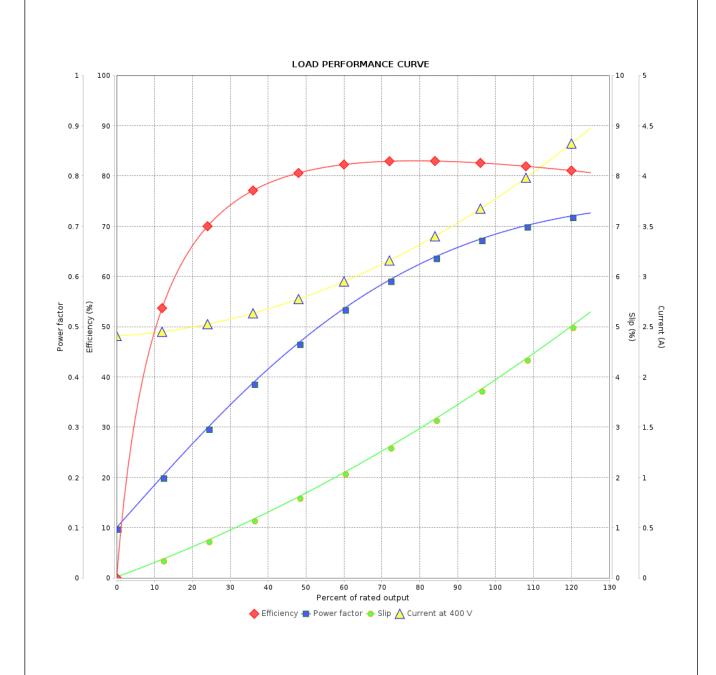
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 14562090

Three-Phase



Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 3.80 A	Moment of inertia (J)	: 0.0753 kgm²		
LRC	: 6.5	Duty cycle	Duty cycle : Cont.(S1)		
Rated torque	: 2.02 kgfm	Insulation class	: F	:F	
Locked rotor torque	: 210 %	Service factor	: 1.00		
Breakdown torque	: 250 %	Temperature rise	: 80 K		
Rated speed	: 720 rpm	Design	: B		
D 01 0		Do do more d	Observational	D-1-	

Rateu speeu	. 14	20 (ріп	Design		. Б	
Rev.		Changes Summary			Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	29/10/2024	1			5/6	

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

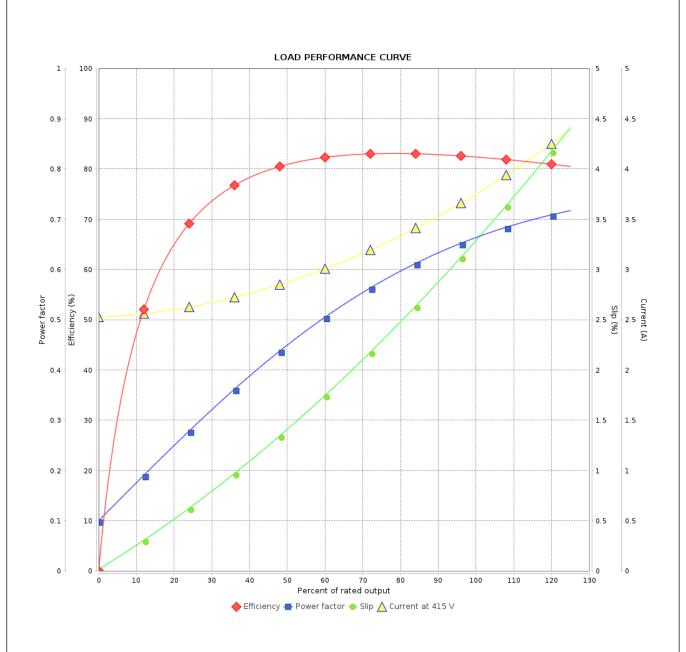
29/10/2024

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

14562090



Performance : 415 V 50 Hz 8P IE3 : 0.0753 kgm² Rated current : 3.78 A Moment of inertia (J) **LRC** : 7.2 Duty cycle : Cont.(S1) : 2.00 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 725 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

