### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12645346 Frame : 160L Cooling method : IC411 - TEFC Insulation class Mounting : B3L(E) : F Duty cycle : S1 Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 152 kg Protection degree : IP55 Moment of inertia (J) : 0.1580 kgm<sup>2</sup> Design : N 15 Output [HP] 15 15 Poles 6 6 6 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 22.6 21.7 39.2/19.6 L. R. Amperes [A] 147 156 314/157 LRC [A] 6.5 7.2 8.0 No load current [A] 11.5 20.0/10.0 9.50 Rated speed [RPM] 970 978 1180 Slip [%] 3.00 2.20 1.67 Rated torque [kgfm] 9.23 11.2 11.1 Locked rotor torque [%] 220 260 300 Breakdown torque [%] 260 320 340 Service factor 1.25 1.25 1.25 80 K Temperature rise 80 K 80 K Locked rotor time 34s (cold) 19s (hot) 28s (cold) 16s (hot) 37s (cold) 21s (hot) Noise level<sup>2</sup> 57.0 dB(A) 57.0 dB(A) 59.0 dB(A) 25% 50% 85.5 86.5 88.5 Efficiency (%) 75% 90.3 90.0 90.2 100% 90.3 90.5 91.7 25% 0.66 0.58 0.60 50% Power Factor 75% 0.77 0.70 0.71 100% 0.82 0.78 0.77 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.4 10.1 8.7 P2 (0,5;1,0) 8.2 8.4 7.1 P3 (0,25;1,0) 8.0 7.8 6.7 Losses (%) P4 (0,9;0,5) 5.9 5.8 5.0 P5 (0,5;0,5) 4.0 3.9 3.4 P6 (0,5;0,25) 3.1 3.0 2.6 P7 (0,25;0,25) 2.1 1.8 Drive end Non drive end Foundation loads 6309 C3 Bearing type 6209 C3 Max. traction : 417 kgf Sealing V'Rina V'Rina : 570 kgf Max. compression Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 g Mobil Polyrex EM 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Performed Checked Rev. **Changes Summary** Date

Performed by				
Checked by			Page	Revision
Date	14/01/2024		1 / 5	
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed without written	authorization of WE	G S/A.

# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



		- Wotor Oquiro	. Gage			
Customer	:					
Nistan						
Notes						
		0. 0	П			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
,	4.4/0.4/0.00.4				0/=	1

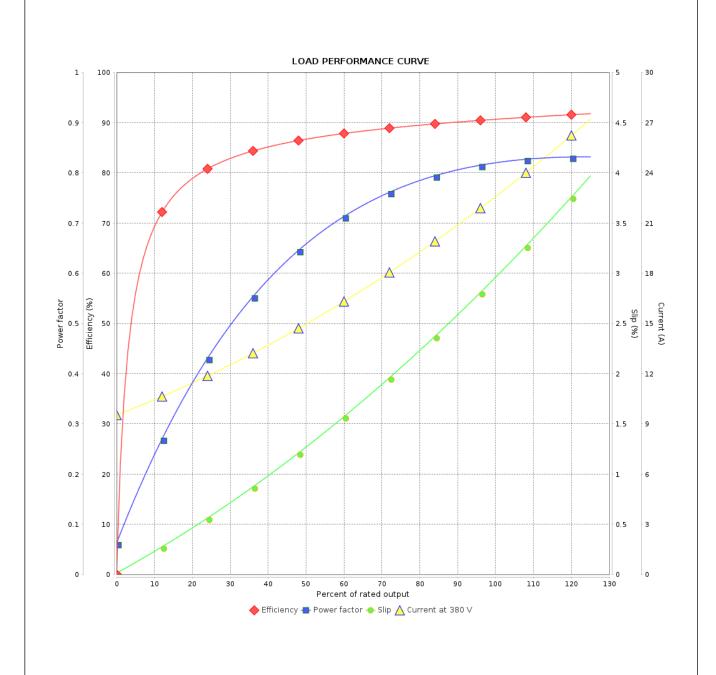
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645346



Performance		: 380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 22.6 A : 6.5 : 11.2 kgfm : 220 % : 260 % : 970 rpm	Moment of Duty cycle Insulation Service for Temperate Design	class actor	: 0.1580 kgm² : S1 : F : 1.25 : 80 K : N	
		<u> </u>		D ( )		
Rev.		Changes Summary	/	Performed	Checked	Date

. tatea opeca		· • · • · ·			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	14/01/2024	1		3/5	

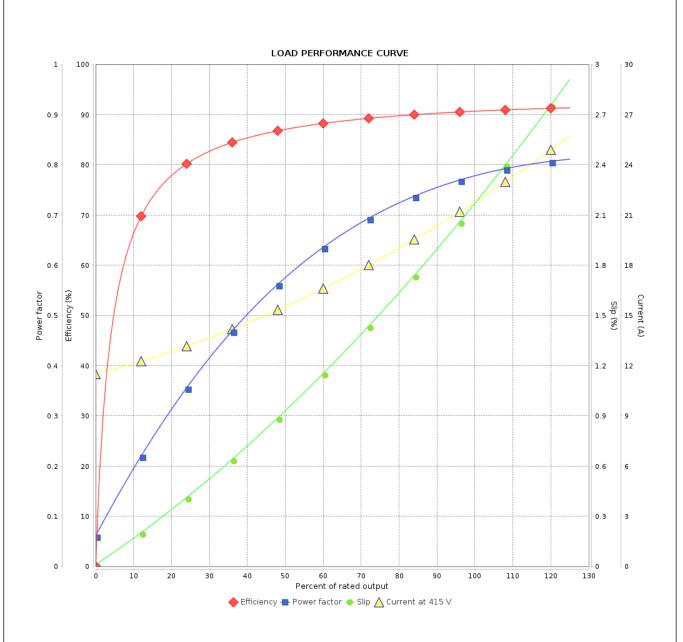
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645346



Performance		: 415 V 50 Hz 6P				
Rated current LRC		: 21.7 A : 7.2	Moment of inertia (J) : 0.1580 kgm² Duty cycle : S1		2	
Rated torque		: 11.1 kgfm	Insulation class		: F	
Locked rotor torque		: 260 %	Service factor		: 1.25	
Breakdown torque		: 320 %	Temperature rise		: 80 K	
Rated speed		: 978 rpm	Design	esign : N		
Rev.		Changes Summary		Performed	Checked	Date

		· · ·		
Performed by				
Checked by			Page	Revision
Date	14/01/2024		4/5	

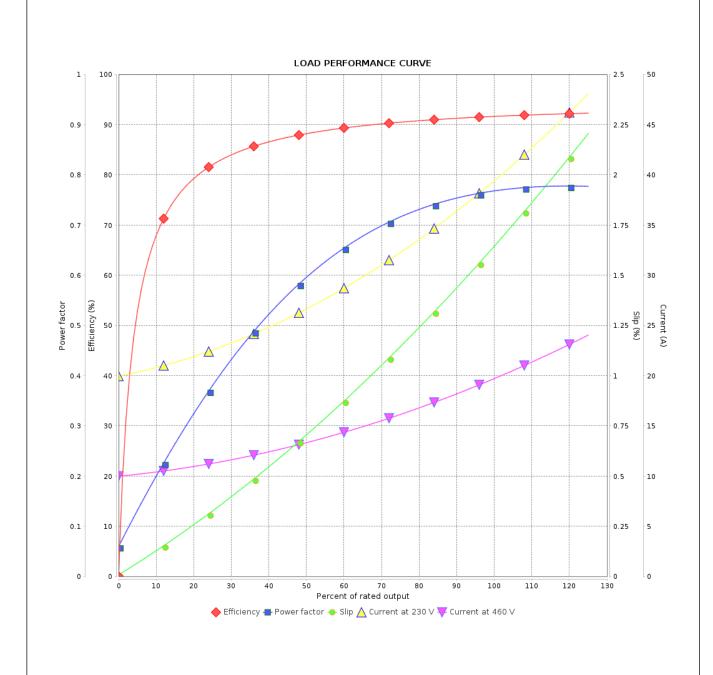
### LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645346



Performance	: 2	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 8. : 9.  ue : 30	9.2/19.6 A .0 .23 kgfm 00 % 40 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1580 kgm² : S1 : F : 1.25 : 80 K	
Rated speed		180 rpm	Design		: N	
Rev.		Changes Summary	 	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/01/2024				5/5	