## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12690993 Frame : 100L Cooling method : IC411 - TEFC Insulation class Mounting : F : B34L(E) 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> : 34.1 kg Protection degree : IP55 Moment of inertia (J) : 0.0090 kgm<sup>2</sup> Design : N 3 3 Output [HP] 3 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 4.88 4.87 8.22/4.11 L. R. Amperes [A] 36.1 40.9 75.6/37.8 LRC [A] 7.4 8.4 9.2 No load current [A] 2.20 2.50 4.40/2.20 Rated speed [RPM] 1425 1440 1745 Slip [%] 5.00 4.00 3.06 Rated torque [kgfm] 1.53 1.51 1.25 Locked rotor torque [%] 280 350 380 Breakdown torque [%] 340 370 270 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 39s (cold) 22s (hot) 36s (cold) 20s (hot) 41s (cold) 23s (hot) Noise level<sup>2</sup> 53.0 dB(A) 53.0 dB(A) 54.0 dB(A) 25% 50% 87.2 85.7 86.6 Efficiency (%) 75% 87.1 86.8 88.2 100% 86.7 87.2 89.5 25% 0.57 0.49 0.54 50% Power Factor 75% 0.70 0.63 0.67 100% 0.79 0.72 0.75 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 14.4 13.8 11.0 <u>11.1</u> P2 (0,5;1,0) 11.6 8.9 P3 (0,25;1,0) 11.1 10.7 8.5 7.9 Losses (%) P4 (0,9;0,5) 8.2 6.3 P5 (0,5;0,5) 5.5 5.3 4.2 P6 (0,5;0,25) 4.1 4.0 3.2 P7 (0,25;0,25) 3.0 2.8 2.3 Drive end Non drive end Foundation loads Bearing type 6206 ZZ 6205 ZZ Max. traction : 98 kgf V'Ring V'Ring Sealing : 132 kaf Max. compression Lubrication interval Lubricant amount 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 fu	ıll load.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/01/2024			1/5	

# 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
5	4.4/0.4/0.00.4				0/=	1

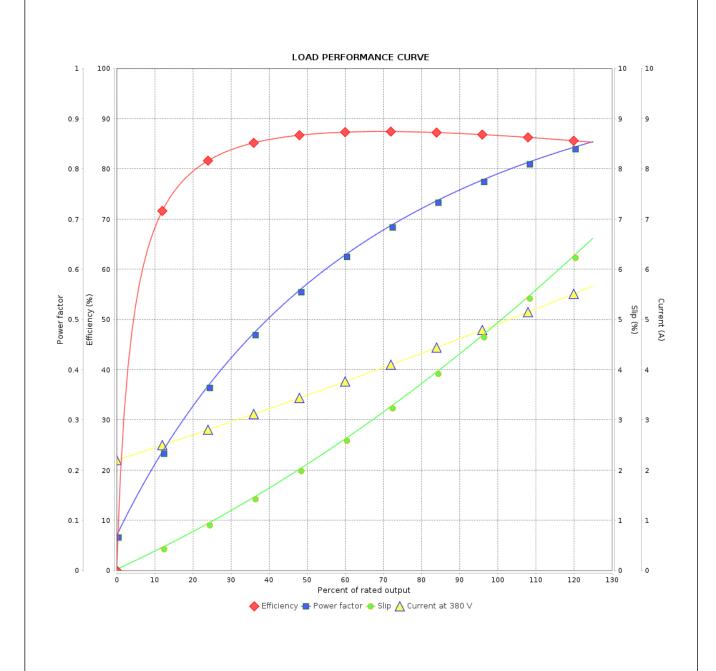
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12690993



	-						
Performance		: 380 V 50 Hz 4P					
Rated current LRC		: 4.88 A : 7.4	Moment of Duty cycle	of inertia (J) e	: 0.0090 kgm <sup>2</sup> : S1	2	
Rated torque Locked rotor torque		: 1.53 kgfm : 280 %	Service fa	Insulation class Service factor		: F : 1.25	
Breakdown torque Rated speed		: 270 % : 1425 rpm	Temperat Design	Temperature rise : 80 K Design : N			
Rev.		Changes Summar	у	Performed	Checked	Date	

Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/01/2024			3/5	

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



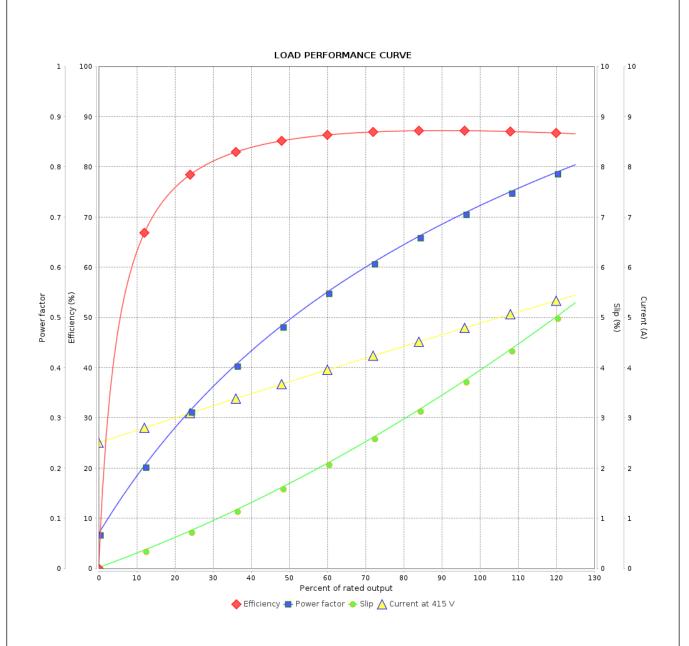
Customer :

Checked by

Date

14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12690993



Performance	: 4	15 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 1  ue : 3  ue : 3	.87 A .4 .51 kgfm 50 % 40 % 440 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0090 kgm² : S1 : F : 1.25 : 80 K : N	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

Page

4/5

Revision

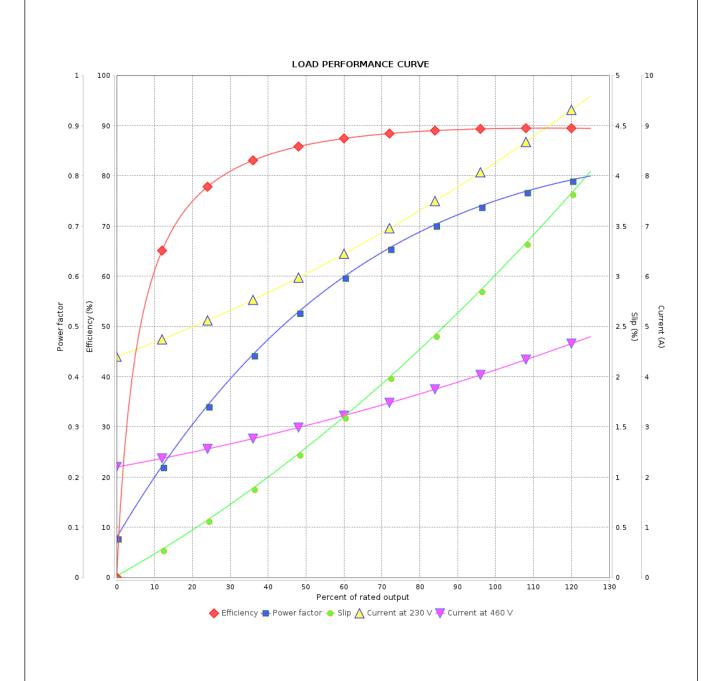
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12690993



Performance	: 23	30/460 V 60 Hz 4P				
Rated current	: 8	.22/4.11 A	Moment o	of inertia (J)	: 0.0090 kgm²	2
LRC : 9.2		.2	Duty cycle	Duty cycle		
Rated torque : 1.		.25 kgfm	Insulation	Insulation class		
		80 %	Service fa	Service factor		
Breakdown torque :		70 %	Temperati	Temperature rise		
Rated speed	: 1	745 rpm	Design		: N	
Rev.		Changes Summar	у	Performed	Checked	Date
		1				
Performed by						
Checked by					Page	Revision
Date	14/01/2024	1			5/5	