### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 11609629 Frame : 132M Cooling method : IC411 - TEFC Insulation class Mounting : F : B3L(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> : 80.9 kg Protection degree : IP55 Moment of inertia (J) : 0.0642 kgm<sup>2</sup> Design : N Output [HP] 10 10 Poles 4 4 4 60 Frequency [Hz] 50 50 Rated voltage [V] 380 415 230/460 Rated current [A] 14.5 14.0 25.4/12.7 L. R. Amperes [A] 123 140 267/133 LRC [A] 8.5 10.0 10.5 No load current [A] 6.20 7.20 12.6/6.30 Rated speed [RPM] 1470 1770 1460 Slip [%] 2.67 2.00 1.67 Rated torque [kgfm] 4.97 4.94 4.10 Locked rotor torque [%] 220 280 270 Breakdown torque [%] 370 420 300 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 23s (cold) 13s (hot) 21s (cold) 12s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 58.0 dB(A) 25% 91.0 90.0 89.4 50% 91.0 90.5 90.2 Efficiency (%) 75% 91.5 91.4 91.0 91.2 100% 91.7 91.7 25% 0.43 0.37 0.38 0.70 50% 0.64 0.65 Power Factor 75% 0.81 0.76 0.76 100% 0.86 0.81 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.4 8.8 8.8 7.4 P2 (0,5;1,0) 7.0 7.0 P3 (0,25;1,0) 6.8 6.3 6.3 Losses (%) P4 (0,9;0,5) 5.6 5.2 5.2 P5 (0,5;0,5) 3.7 3.5 3.5 P6 (0,5;0,25) 2.8 2.7 2.7 P7 (0,25;0,25) 1.9 1.8 1.8 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ Max. traction : 278 kgf V'Ring Sealing V'Rina : 359 kaf Max. compression 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 (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.

` '					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/01/2024	1		1 /	

## DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



		•	3			
Customer	:					
Notes						
		01 0	1		<u> </u>	
Rev.		Changes Summary		Performed	Checked	Date
Performed by				-		
Checked by					Page	Revision
					. ~9~	

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



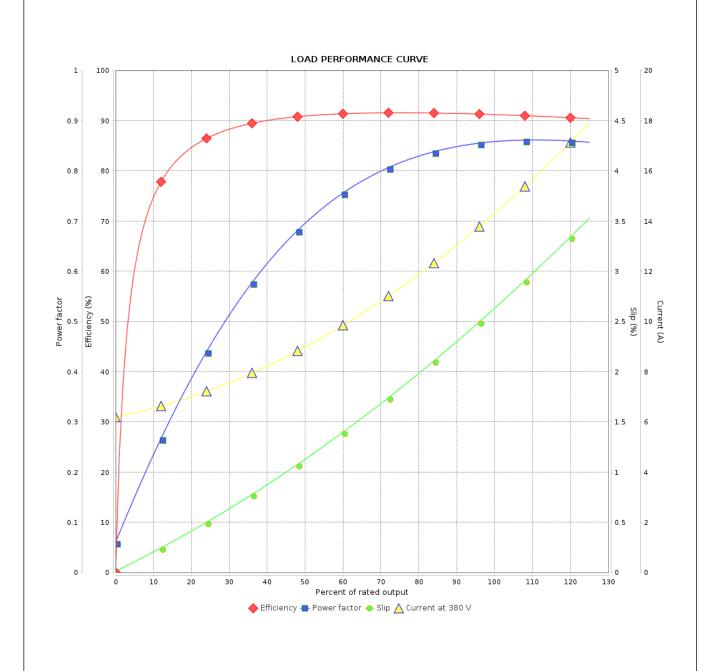
Customer :

Checked by

Date

14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11609629



Performance	: 380 V 50 Hz 4P	: 380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.5 A : 8.5 : 4.97 kgfm : 220 % : 300 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0642 kgm² : S1 : F : 1.25 : 80 K : N			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							

Page

3 /

Revision

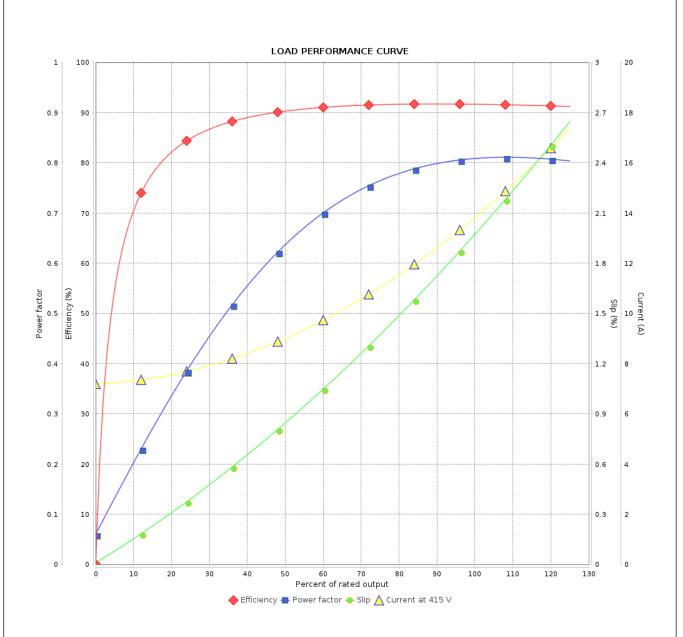
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11609629



D. (	445.7/50.11.40			
Performance	: 415 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.0 A : 10.0 : 4.94 kgfm : 280 % : 370 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0642 kgm : S1 : F : 1.25 : 80 K : N	2
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

14/01/2024

Date

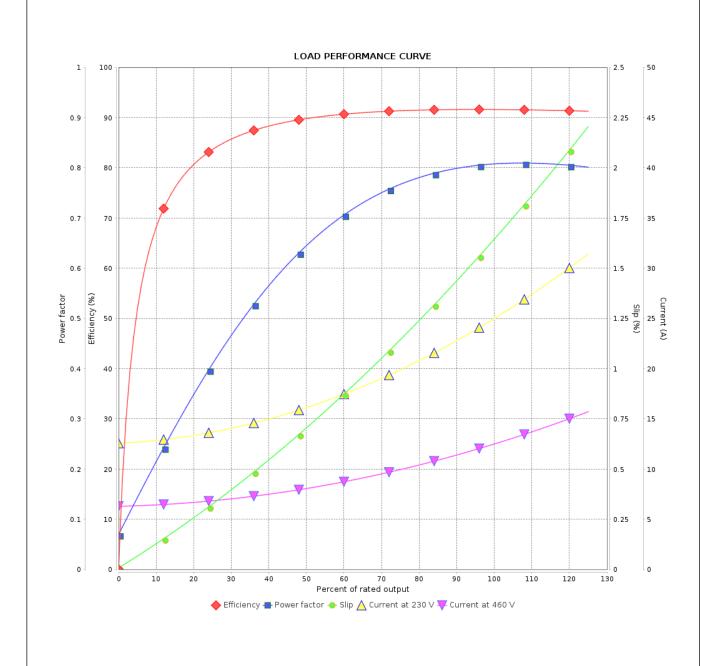
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11609629



Performance ::		: 230/460 V 60 Hz 4P						
Rated current		5.4/12.7 A Moment of iner		f inertia (J)	a (J) : 0.0642 kgm²			
LRC		0.5	Duty cycle		: S1			
Rated torque	: 4	: 4.10 kgfm Insulation		class	: F			
Locked rotor torque		270 % Service factor		ctor	: 1.25			
Breakdown torque	e : 4	: 420 % : 1770 rpm		Temperature rise Design				
Rated speed	: 1							
Rev.		Changes Summary		Performed	Checked	Date		
Do of a new ord have								
Performed by								
Checked by					Page	Revision		
Date	14/01/2024				5 /			