

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11702467

Frame	: 100L	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.29 A	Protection degree	: IP55
L. R. Amperes	: 30.2 A	Cooling method	: IC411 - TEFC
LRC	: 9.2	Mounting	: B3L(E)
No load current	: 1.76 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level <sup>2</sup>	: 54.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 1.25 kgfm	Approx. weight <sup>3</sup>	: 34.2 kg
Locked rotor torque	: 380 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0090 kgm <sup>2</sup>		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.6	88.2	89.5	Max. traction	: 98 kgf
Power Factor	0.54	0.67	0.75	Max. compression	: 132 kgf

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
11.0	8.9	8.5	6.3	4.2	3.2	2.3

	Drive end	Non drive end
Bearing type	: 6206 ZZ	6205 ZZ
Sealing	: V'Ring	V'Ring
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (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.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
Checked by				
Date	25/10/2024			

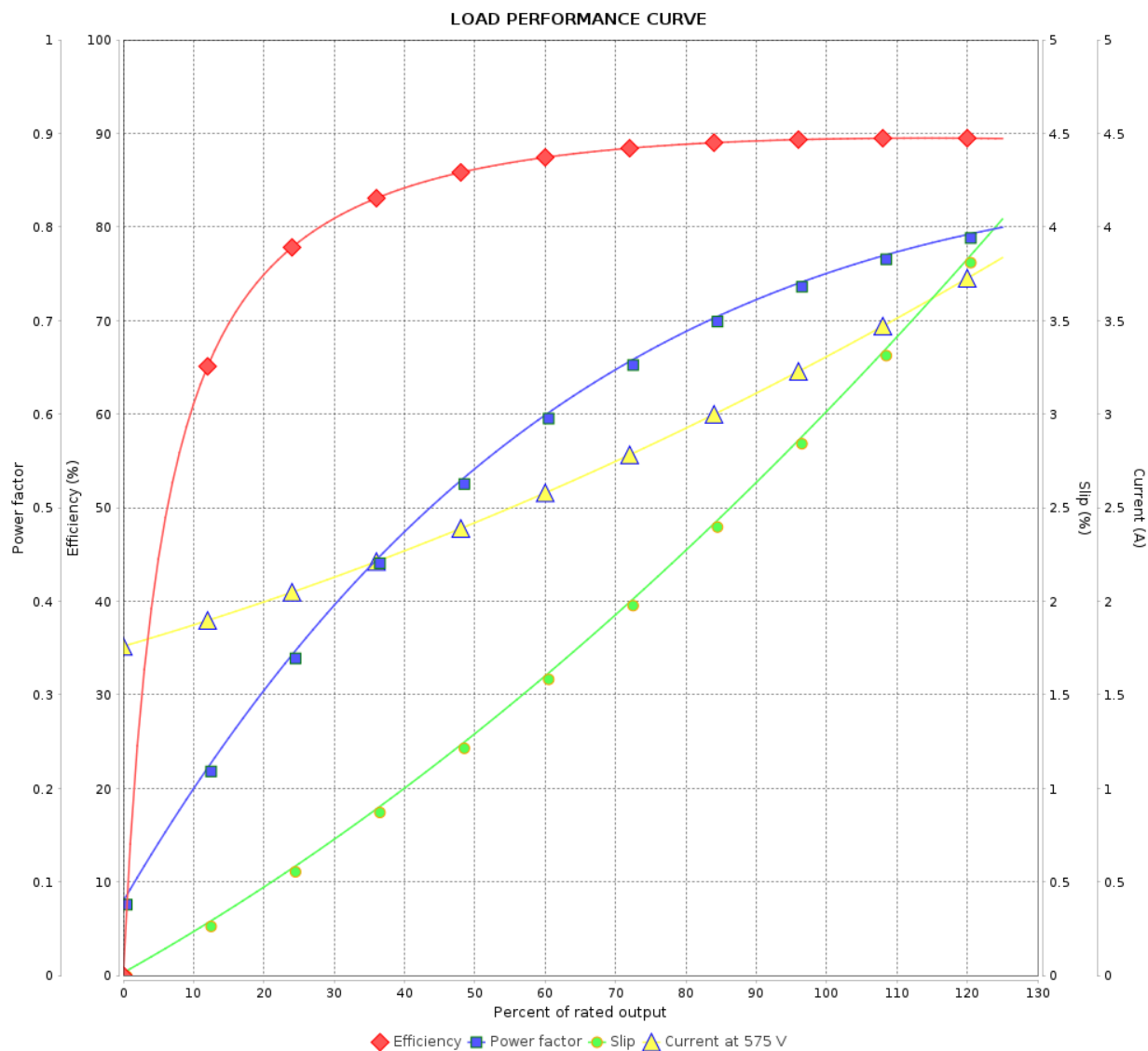
# LOAD PERFORMANCE CURVE

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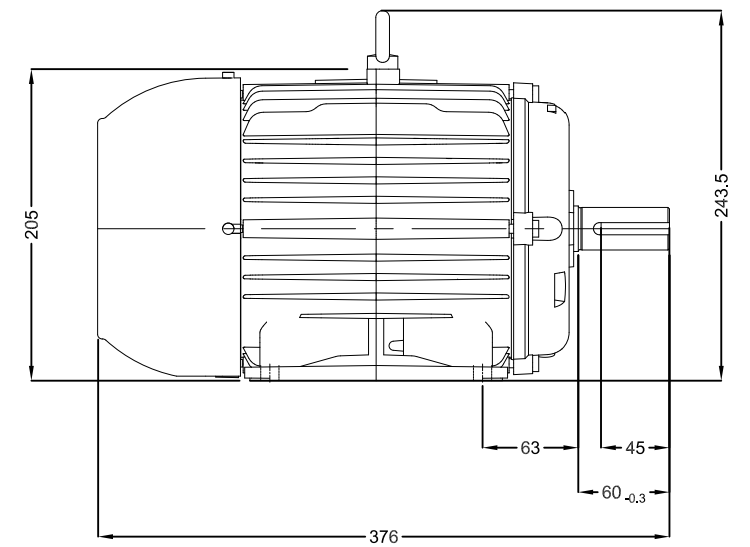




Performance : 575 V 60 Hz 4P

Rated current : 3.29 A  
LRC : 9.2  
Rated torque : 1.25 kgfm  
Locked rotor torque : 380 %  
Breakdown torque : 370 %  
Rated speed : 1745 rpm

Moment of inertia (J) : 0.0090 kgm<sup>2</sup>  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : N

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
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ECM		LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 IE3 FRAME 100L IP55 TEFC			<div>PREVIEW</div> <div>WDD   00</div>			
CHECKED									
RELEASED									
REL. DATE									

A3