

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14086164

Frame	: 213/5T	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 12.5 HP (9.2 kW)	Temperature rise	: 125 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 54.0-52.2/26.1 A	Protection degree	: IP55
L. R. Amperes	: 405-392/196 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code J)	Mounting	: F-1
No load current	: 15.6-18.1/9.05 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level <sup>2</sup>	: 63.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 5.21 kgfm	Approx. weight <sup>3</sup>	: 93.9 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: H		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0543 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.0	81.5	82.5	Max. traction	: 184 kgf
Power Factor	0.85	0.91	0.93	Max. compression	: 278 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6206 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 1 / 2 Revision		
Checked by				
Date	29/10/2024			

# LOAD PERFORMANCE CURVE

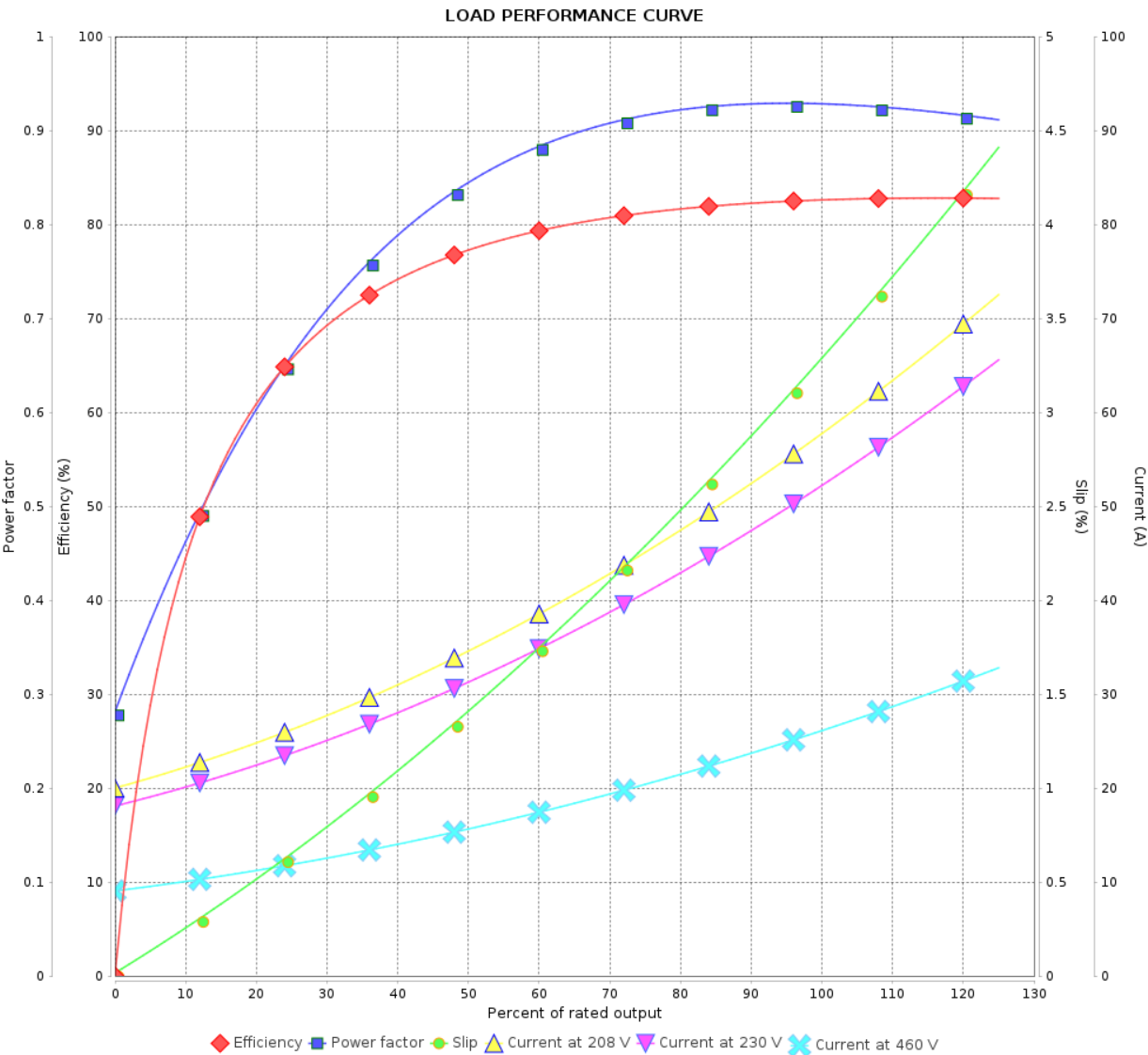
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14086164



Performance : 208-230/460 V 60 Hz 4P

Rated current : 54.0-52.2/26.1 A  
LRC : 7.5  
Rated torque : 5.21 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 240 %  
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0543 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : H  
Service factor :  
Temperature rise : 125 K

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	29/10/2024				