

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase Product code : 15175502

Frame	: 213/5TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 18.6/9.40-9.31 A	Protection degree	: IP55
L. R. Amperes	: 151/76.1-75.4 A	Cooling method	: IC411 - TEFC
LRC	: 8.1x(Code K)	Mounting	: F-1
No load current	: 9.20/3.97-4.60 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level <sup>2</sup>	: 63.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 1.24 kgfm	Approx. weight <sup>3</sup>	: 64.3 kg
Locked rotor torque	: 185 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0443 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	65.0	73.0	77.0	Max. traction	: 20 kgf
Power Factor	0.82	0.88	0.91	Max. compression	: 84 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.

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# LOAD PERFORMANCE CURVE

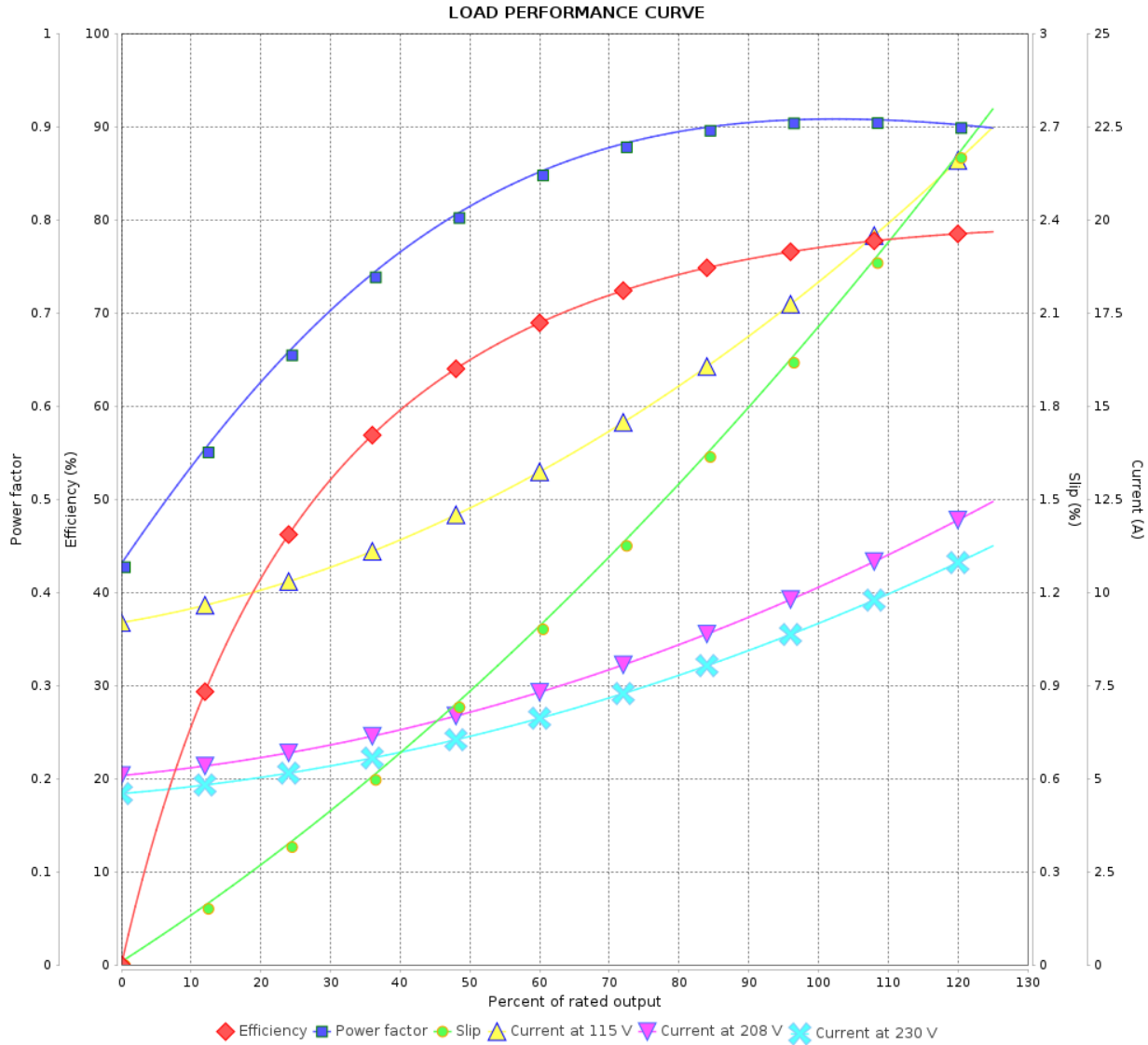
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 15175502



Performance : 115/208-230 V 60 Hz 6P

Rated current : 18.6/9.40-9.31 A  
 LRC : 8.1  
 Rated torque : 1.24 kgfm  
 Locked rotor torque : 185 %  
 Breakdown torque : 229 %  
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.0443 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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