

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Single-Phase

Product code : 14303452

Frame	: 213/5TC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 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	: 44.5-40.8/20.4 A	Protection degree	: IP55
L. R. Amperes	: 298-273/137 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 9.66-11.2/5.60 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	: 4.17 kgfm	Approx. weight <sup>3</sup>	: 88.6 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0486 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	77.9	82.5	84.0	Max. traction	: 141 kgf
Power Factor	0.92	0.94	0.95	Max. compression	: 229 kgf

	Drive end	Non drive end
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

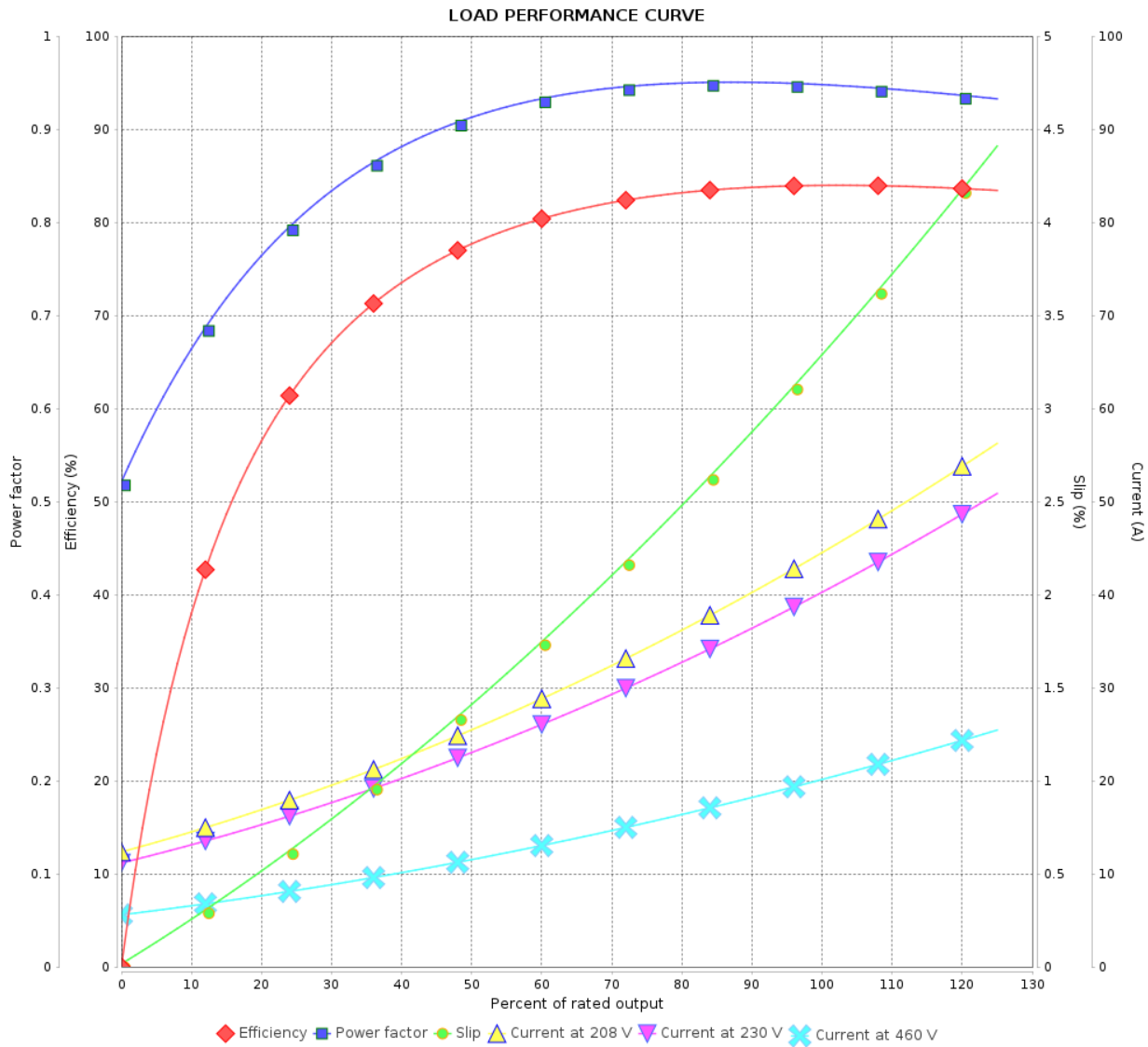
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14303452



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

Rated current : 44.5-40.8/20.4 A  
 LRC : 6.7  
 Rated torque : 4.17 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 240 %  
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0486 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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