

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase      Product code : 15012999

Frame	: 182/4HP	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 13.0-11.8/5.90 A	Protection degree	: IP55
L. R. Amperes	: 98.8-89.7/44.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.6x(Code J)	Mounting	: W-6
No load current	: 4.42-4.00/2.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3485 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)
Slip	: 3.19 %	Starting method	: Direct On Line
Rated torque	: 1.04 kgfm	Approx. weight <sup>3</sup>	: 47.0 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0094 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	86.5	88.5	88.5	Max. traction
Power Factor	0.00	0.76	0.85	0.89	Max. compression

	Drive end	Non drive end
Bearing type	: 6308 ZZ	6206 ZZ
Sealing	: V'Ring	V'Ring
Lubrication interval	: 0 h	0 h
Lubricant amount	: 0 g	0 g
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

Three Phase Induction Motor - Squirrel Cage

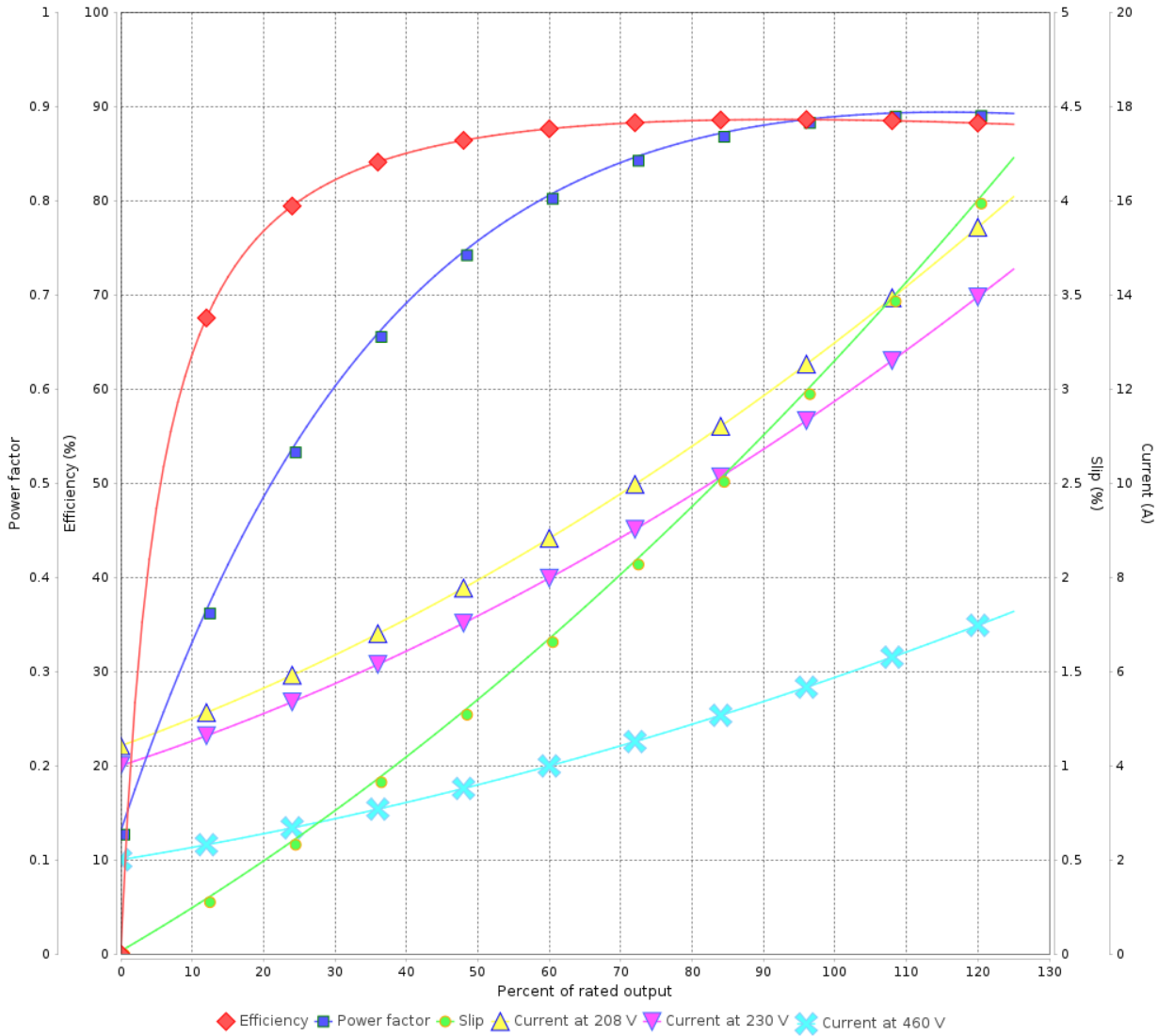


Customer :

Product line : W22 P Base NEMA Premium Efficiency  
Three-Phase

Product code : 15012999

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 13.0-11.8/5.90 A  
 LRC : 7.6  
 Rated torque : 1.04 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 350 %  
 Rated speed : 3485 rpm

Moment of inertia (J) : 0.0094 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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