

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 Single-Phase		Product code : 14145109
Frame	: 182/4TC		Locked rotor time : 12s (cold) 7s (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	: 20.5-19.0/9.50 A		Protection degree : IP55
L. R. Amperes	: 146-135/67.5 A		Cooling method : IC411 - TEFC
LRC	: 7.1x(Code G)		Mounting : F-1
No load current	: 3.36-3.90/1.95 A		Rotation <sup>1</sup> : Both (CW and CCW)
Rated speed	: 3515 rpm		Noise level <sup>2</sup> : 72.0 dB(A)
Slip	: 2.36 %		Starting method : Direct On Line
Rated torque	: 1.03 kgfm		Approx. weight <sup>3</sup> : 50.6 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0091 kgm <sup>2</sup>		
Output	50%	75%	100%
Efficiency (%)	80.0	84.0	85.5
Power Factor	0.96	0.99	0.99
	Foundation loads		
	Max. traction : 28 kgf		
	Max. compression : 79 kgf		
		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 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

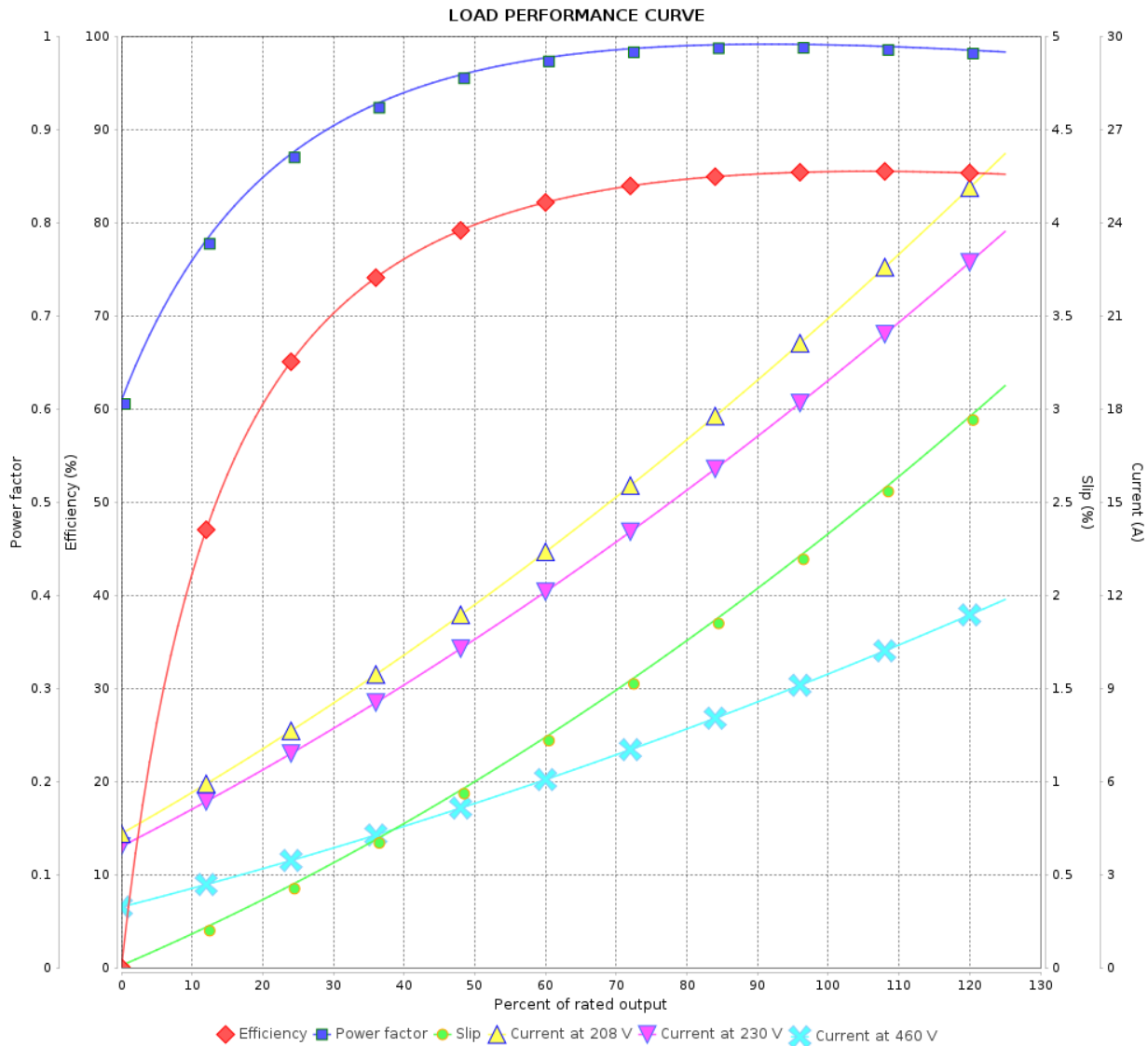
Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 Single-Phase

Product code : 14145109



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

Rated current : 20.5-19.0/9.50 A  
 LRC : 7.1  
 Rated torque : 1.03 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 250 %  
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0091 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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