

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10698252

Frame	: F56H	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 29.4/16.2-14.7 A	Protection degree	: IP21
L. R. Amperes	: 176/97.2-88.2 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code H)	Mounting	: F-1
No load current	: 13.0/5.60-6.50 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3440 rpm	Starting method	: Direct On Line
Slip	: 4.44 %	Approx. weight <sup>3</sup>	: 19.3 kg
Rated torque	: 0.633 kgfm		
Locked rotor torque	: 180 %		
Breakdown torque	: 190 %		
Insulation class	: B		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0028 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	77.0	77.0	Max. traction	: 29 kgf
Power Factor	0.70	0.80	0.86	Max. compression	: 48 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
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

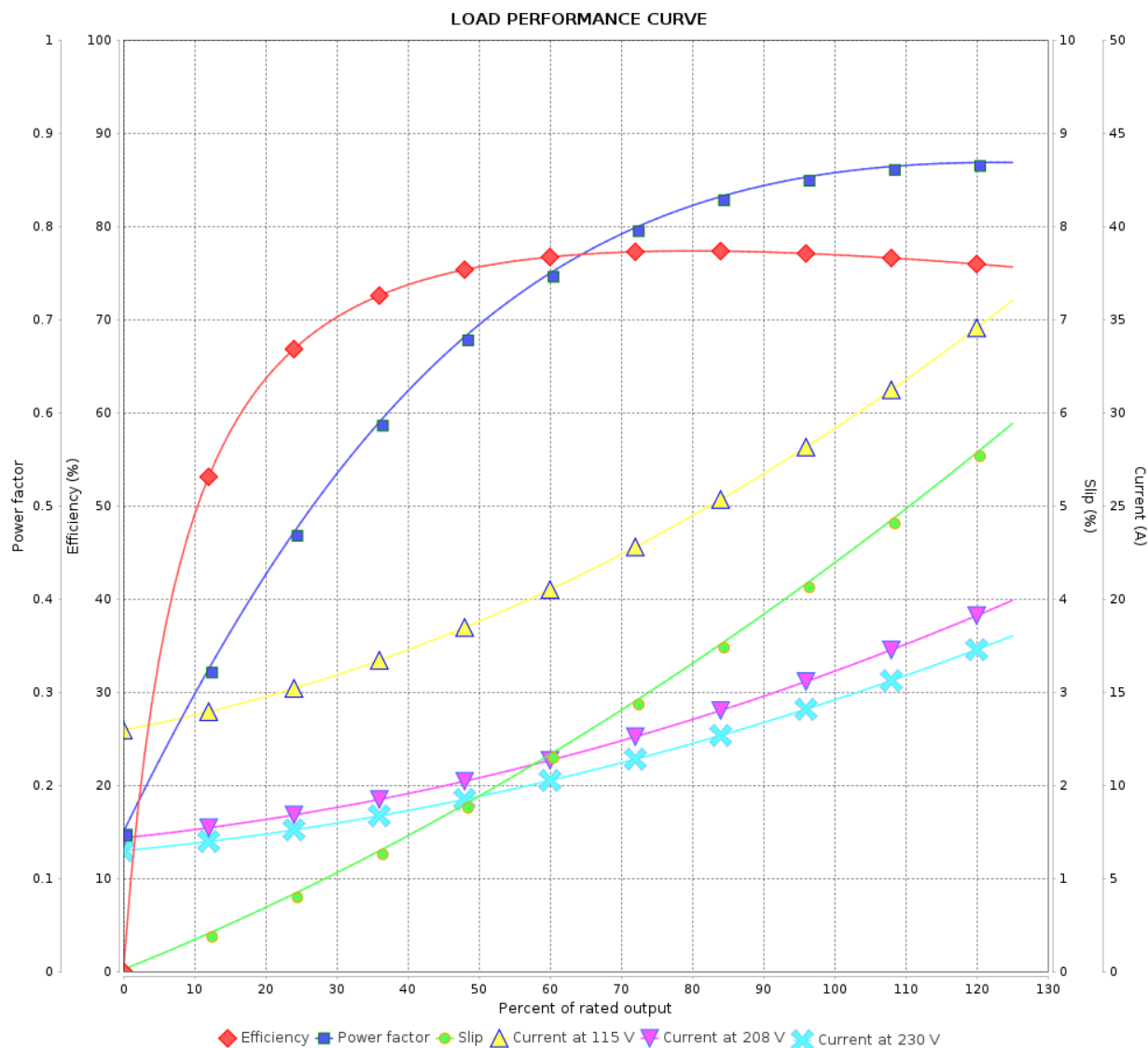
## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase

Product code : 10698252



Performance : 115/208-230 V 60 Hz 2P

Rated current : 29.4/16.2-14.7 A  
LRC : 6.0  
Rated torque : 0.633 kgfm  
Locked rotor torque : 180 %  
Breakdown torque : 190 %  
Rated speed : 3440 rpm

Moment of inertia (J) : 0.0028 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : B  
Service factor :  
Temperature rise : 80 K

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