

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Explosion Proof Single-Phase Product code : 10730948

Frame	: D56CEX	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.75 HP (0.550 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 11.0/5.40-5.50 A	Protection degree	: IP44
L. R. Amperes	: 70.4/34.6-35.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code M)	Mounting	: F-1
No load current	: 8.40/3.62-4.20 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level <sup>2</sup>	: 50.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 0.309 kgfm	Approx. weight <sup>3</sup>	: 19.8 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 300 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0053 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	57.0	65.0	71.5	Max. traction	: 20 kgf
Power Factor	0.42	0.53	0.61	Max. compression	: 39 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 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

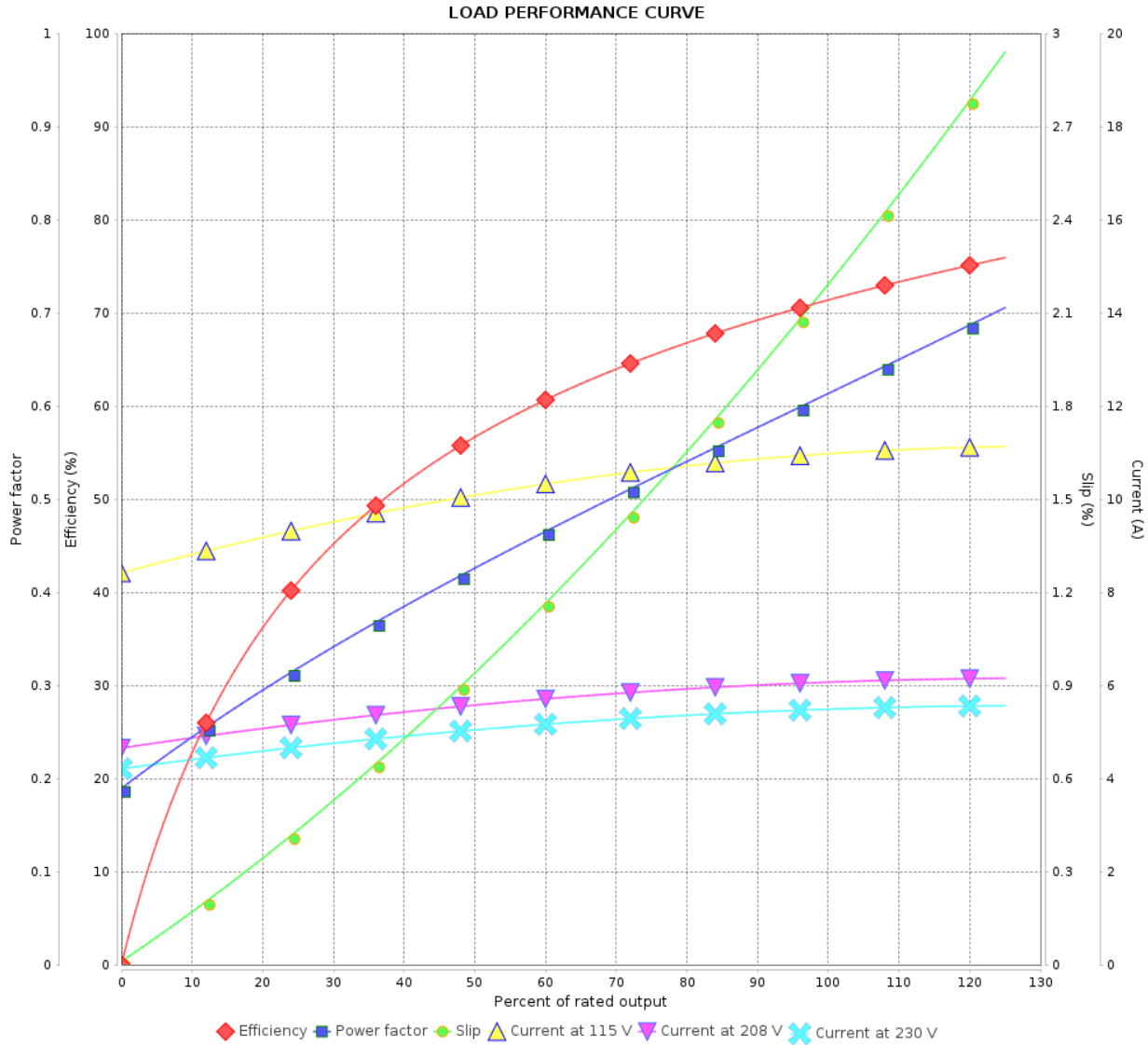
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Single-Phase

Product code : 10730948



Performance : 115/208-230 V 60 Hz 4P

Rated current : 11.0/5.40-5.50 A  
 LRC : 6.4  
 Rated torque : 0.309 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 300 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0053 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

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