

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 11140741

Frame	: D56EX	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.00/1.50 A	Protection degree	: IP44
L. R. Amperes	: 19.5/9.75 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code J)	Mounting	: F-1
No load current	: 1.80/0.900 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.417 kgfm	Approx. weight <sup>3</sup>	: 20.2 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 320 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0060 kgm <sup>2</sup>		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	82.5	84.0	Max. traction	: 33 kgf
Power Factor	0.53	0.66	0.74	Max. compression	: 53 kgf

	Drive end	Non drive end
Bearing type	: 6203 ZZ	: 6203 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

Notes  
USABLE @208V 3.12A SF 1.00 SFA 3.12A

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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Revision

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C

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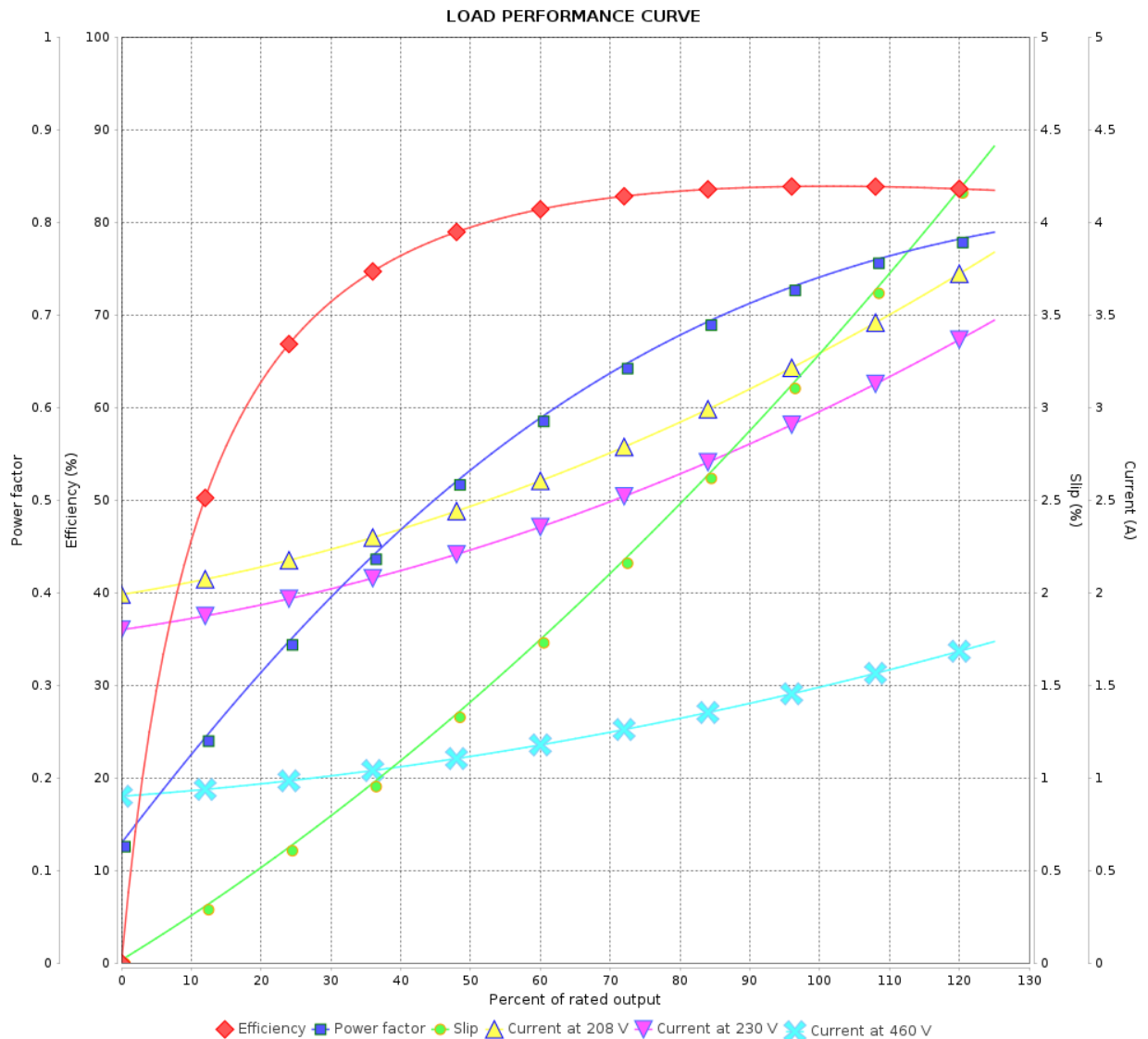
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Standard Efficiency Three-Phase Product code : 11140741



Performance : 230/460 V 60 Hz 4P

Rated current : 3.00/1.50 A  
LRC : 6.5  
Rated torque : 0.417 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 320 %  
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0060 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : B  
Service factor :  
Temperature rise : 80 K  
Design : A

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