

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Explosion Proof Single-Phase Product code : 10963957

Frame	: D56EX	Locked rotor time	: 10s (cold) 6s (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	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 11.4/6.00-5.70 A	Protection degree	: IP44
L. R. Amperes	: 61.6/32.4-30.8 A	Cooling method	: IC411 - TEFC
LRC	: 5.4x(Code H)	Mounting	: F-1
No load current	: 6.50/2.80-3.25 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>	: 20.4 kg
Locked rotor torque	: 190 %		
Breakdown torque	: 210 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0060 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	72.1	74.7	74.9	Max. traction	: 18 kgf
Power Factor	0.56	0.68	0.75	Max. compression	: 38 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

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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	26/10/2024		1 / 2	

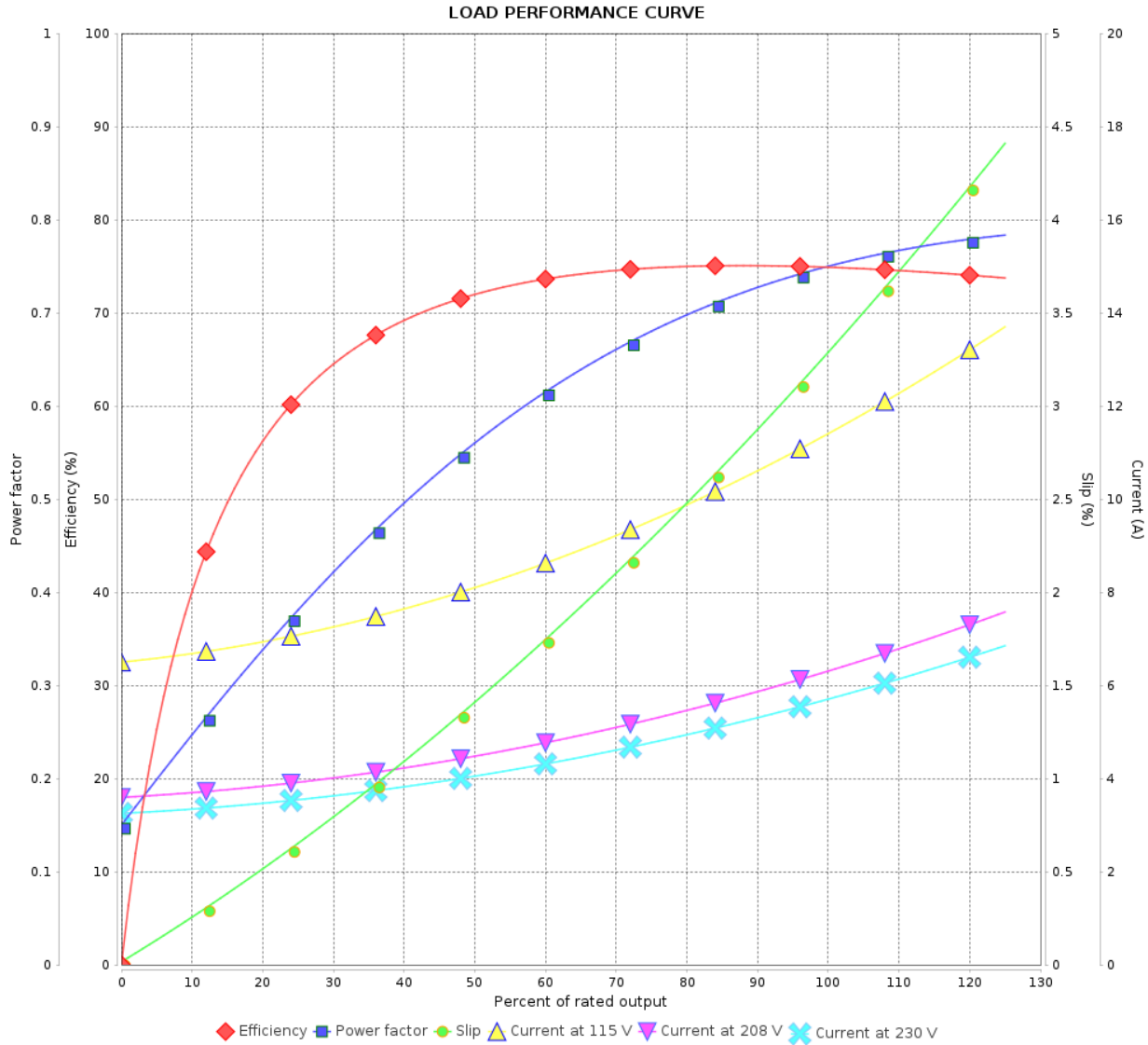
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Single-Phase Product code : 10963957



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

Rated current : 11.4/6.00-5.70 A  
 LRC : 5.4  
 Rated torque : 0.417 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 210 %  
 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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				