

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

Customer :

Product line : Centrifugal Pump Single-Phase Start Capacitor      Product code : 10744003

Frame	: F56HC	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 2 HP (1.5 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	: 20.0/10.6-10.0 A	Protection degree	: IP55
L. R. Amperes	: 140/74.2-70.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code K)	Mounting	: F-1
No load current	: 9.00/3.88-4.50 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3470 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 3.61 %	Starting method	: Direct On Line
Rated torque	: 0.418 kgfm	Approx. weight <sup>3</sup>	: 20.1 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 240 %		
Insulation class	: B		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0033 kgm <sup>2</sup>		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	69.0	73.0	74.0	Max. traction	: 22 kgf
Power Factor	0.72	0.81	0.87	Max. compression	: 42 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 2RS	6203 2RS
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

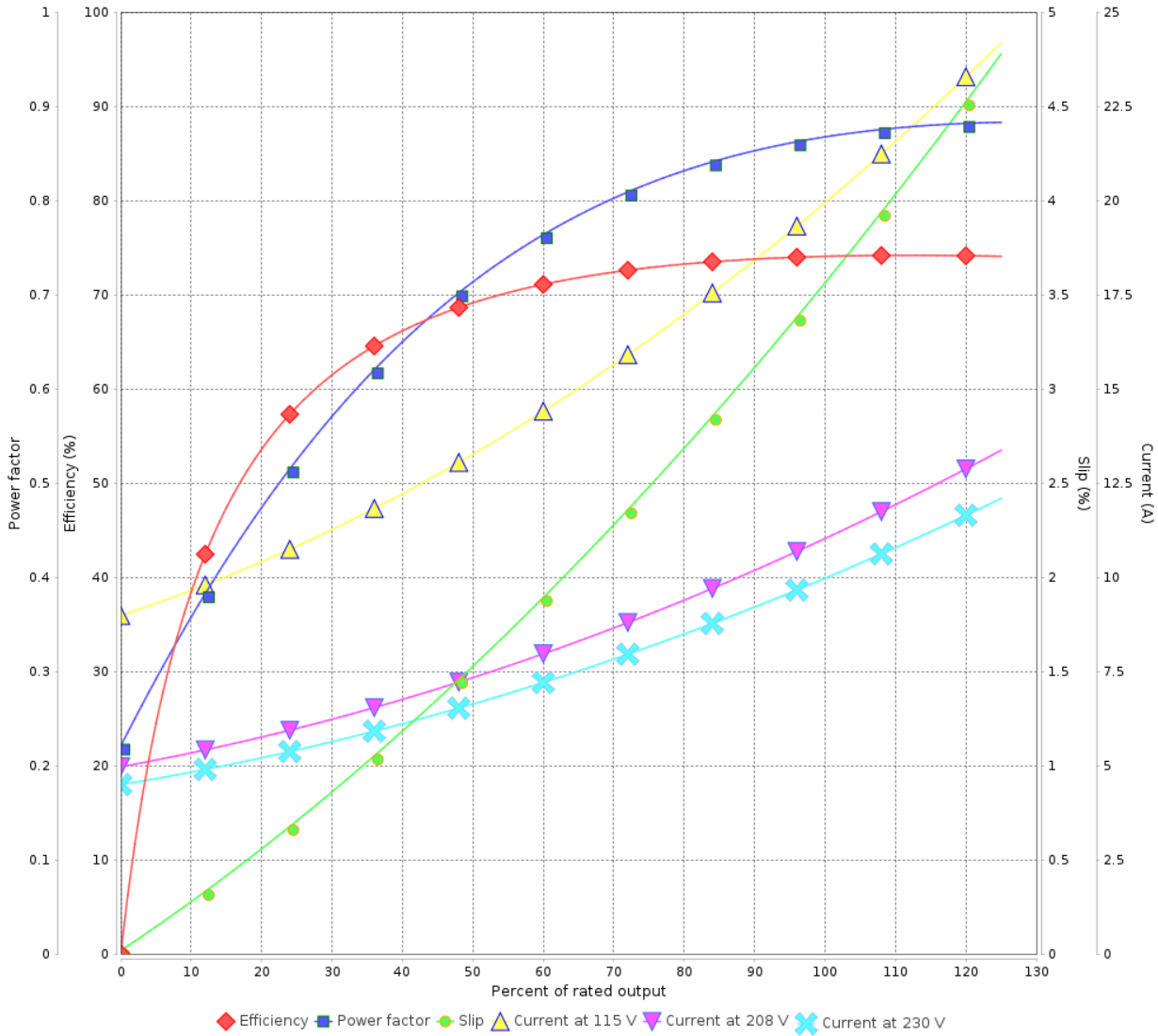
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Product line : Centrifugal Pump Single-Phase Start Capacitor      Product code : 10744003

LOAD PERFORMANCE CURVE



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

Rated current	: 20.0/10.6-10.0 A	Moment of inertia (J)	: 0.0033 kgm <sup>2</sup>
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.418 kgfm	Insulation class	: B
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3470 rpm		

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