

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10970567

Frame	: D56	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 1.5 HP (1.1 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	: 16.8/9.20-8.40 A	Protection degree	: IP21
L. R. Amperes	: 87.4/47.8-43.7 A	Cooling method	: IC01 - ODP
LRC	: 5.2x(Code H)	Mounting	: F-1
No load current	: 8.60/3.71-4.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3430 rpm	Starting method	: Direct On Line
Slip	: 4.72 %	Approx. weight ³	: 13.0 kg
Rated torque	: 0.317 kgfm		
Locked rotor torque	: 200 %		
Breakdown torque	: 190 %		
Insulation class	: B		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0018 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	64.0	68.0	68.0	Max. traction	: 12 kgf
Power Factor	0.68	0.78	0.84	Max. compression	: 25 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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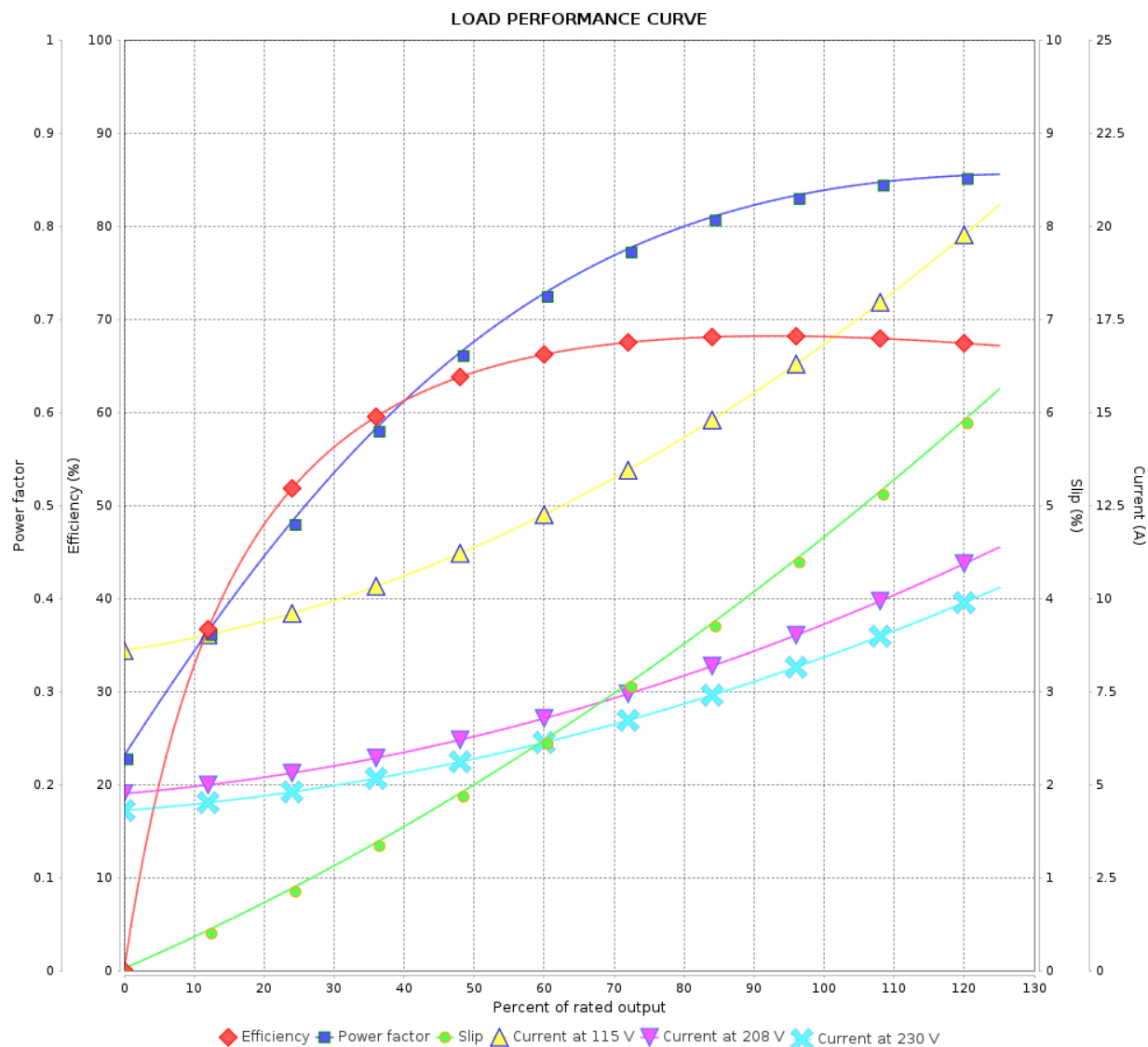
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10970567



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

Rated current : 16.8/9.20-8.40 A
LRC : 5.2
Rated torque : 0.317 kgfm
Locked rotor torque : 200 %
Breakdown torque : 190 %
Rated speed : 3430 rpm

Moment of inertia (J) : 0.0018 kgm²
Duty cycle : Cont.(S1)
Insulation class : B
Service factor :
Temperature rise : 80 K

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