

# 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 <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3430 rpm	Starting method	: Direct On Line
Slip	: 4.72 %	Approx. weight <sup>3</sup>	: 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 <sup>2</sup>		

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

	Drive end	Non drive end
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.

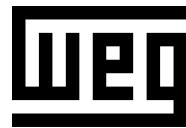
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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



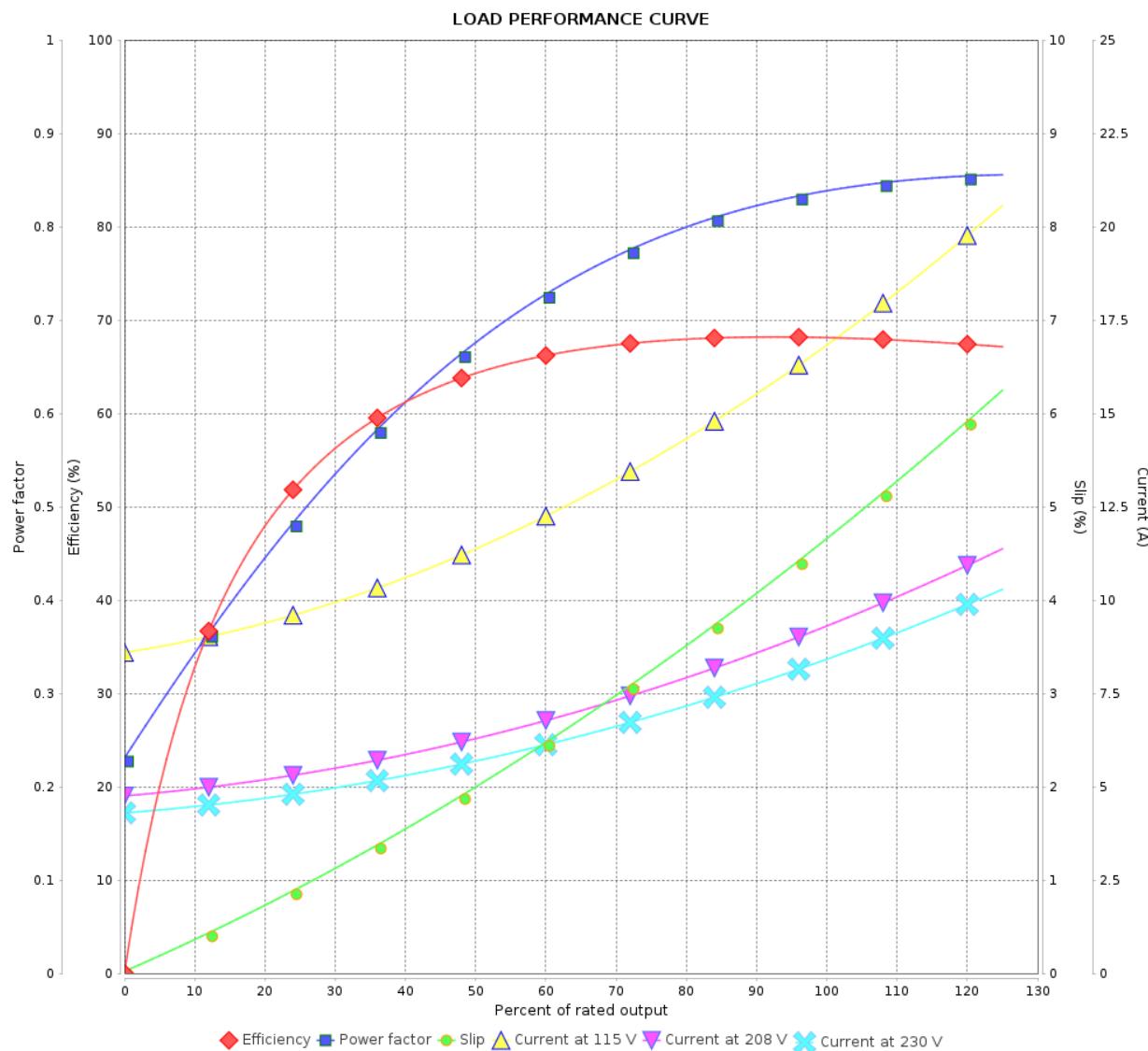
Customer :

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

Moment of inertia (J)

: 0.0018 kgm<sup>2</sup>

LRC

: 5.2

Duty cycle

: Cont.(S1)

Rated torque

: 0.317 kgfm

Insulation class

: B

Locked rotor torque

: 200 %

Service factor

:

Breakdown torque

: 190 %

Temperature rise

: 80 K

Rated speed

: 3430 rpm

Rev.

Changes Summary

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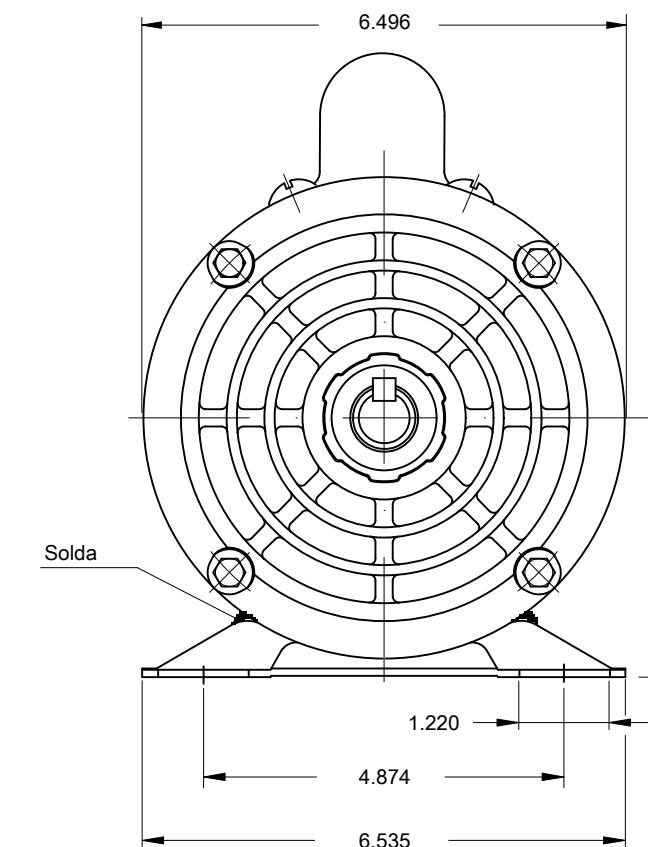
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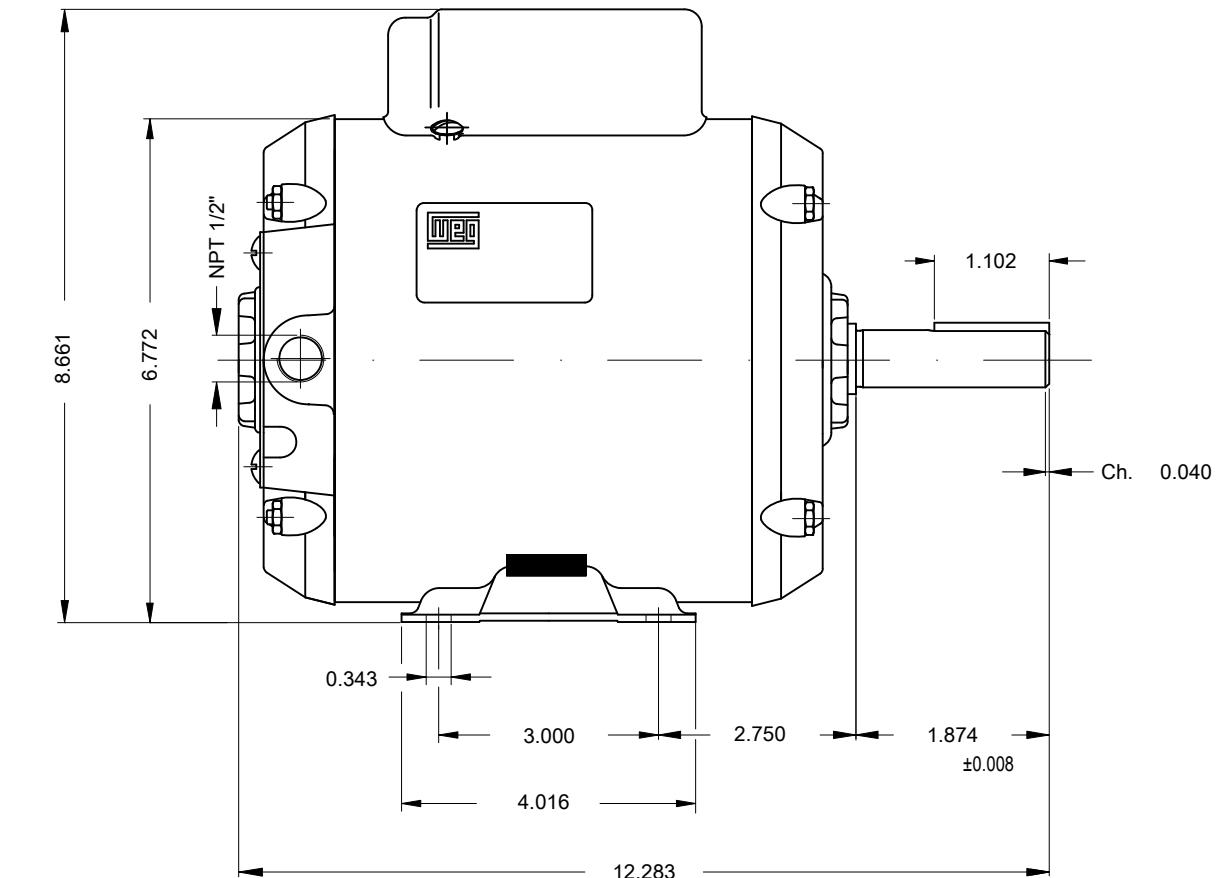
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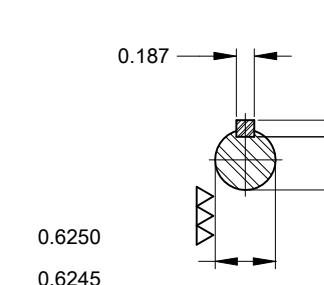
A



B



C



D

E

Color Munsell N 1 matte black

Painting plan 207N

Mounting B3R(D)

1.5 HP 02 Poles 60 Hz

ECM	LOC	SUMMARY OF MODIFICATIONS	HYBRISUSER	00
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR COMPRESSOR DUTY	PREVIEW	
CHECKED		FRAME D56 IP21 ODP	WDD	00
RELEASED				

Dimensions in inches

A3