

# 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

		<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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	07/09/2024		1 / 2	

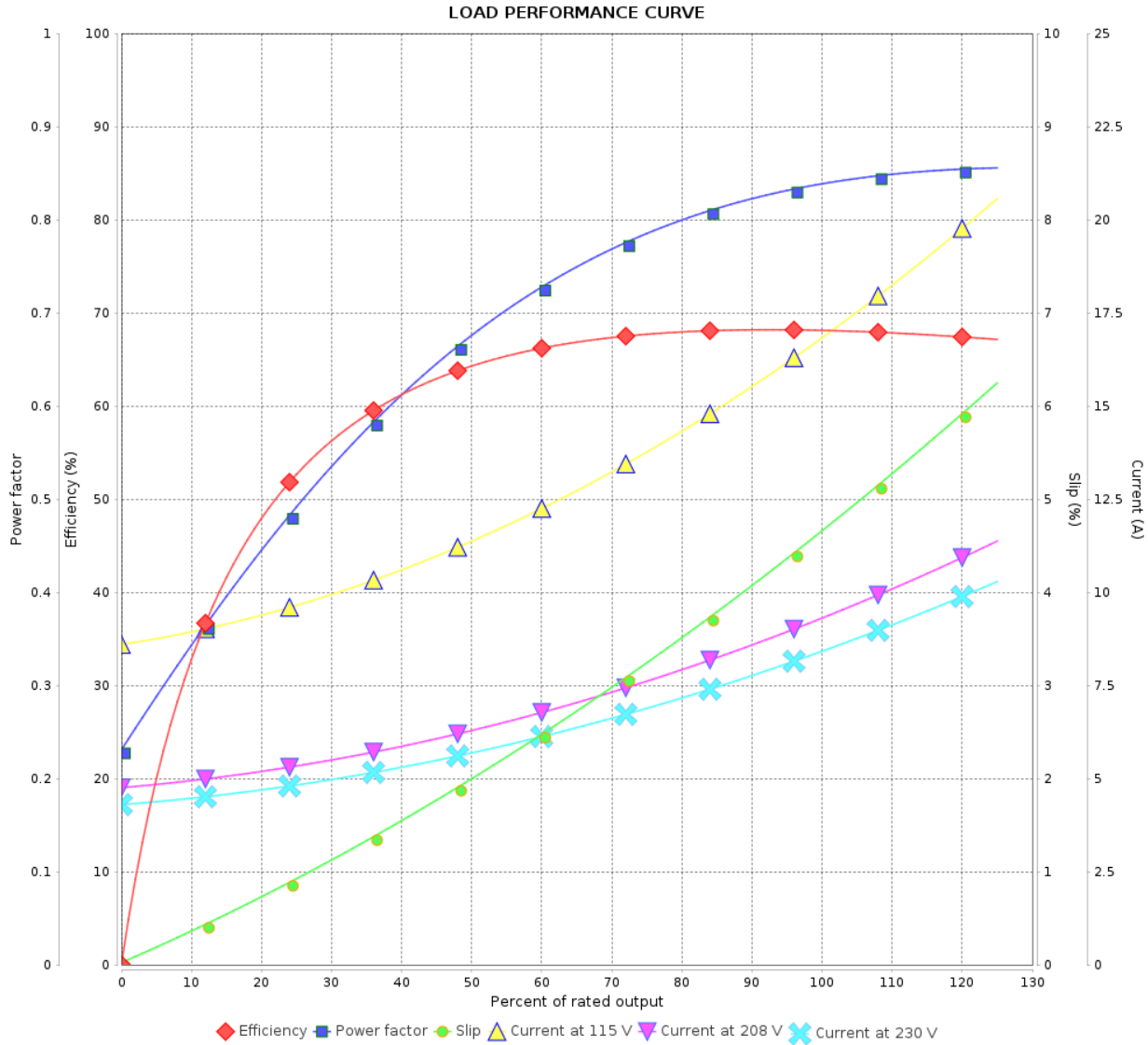
# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

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



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

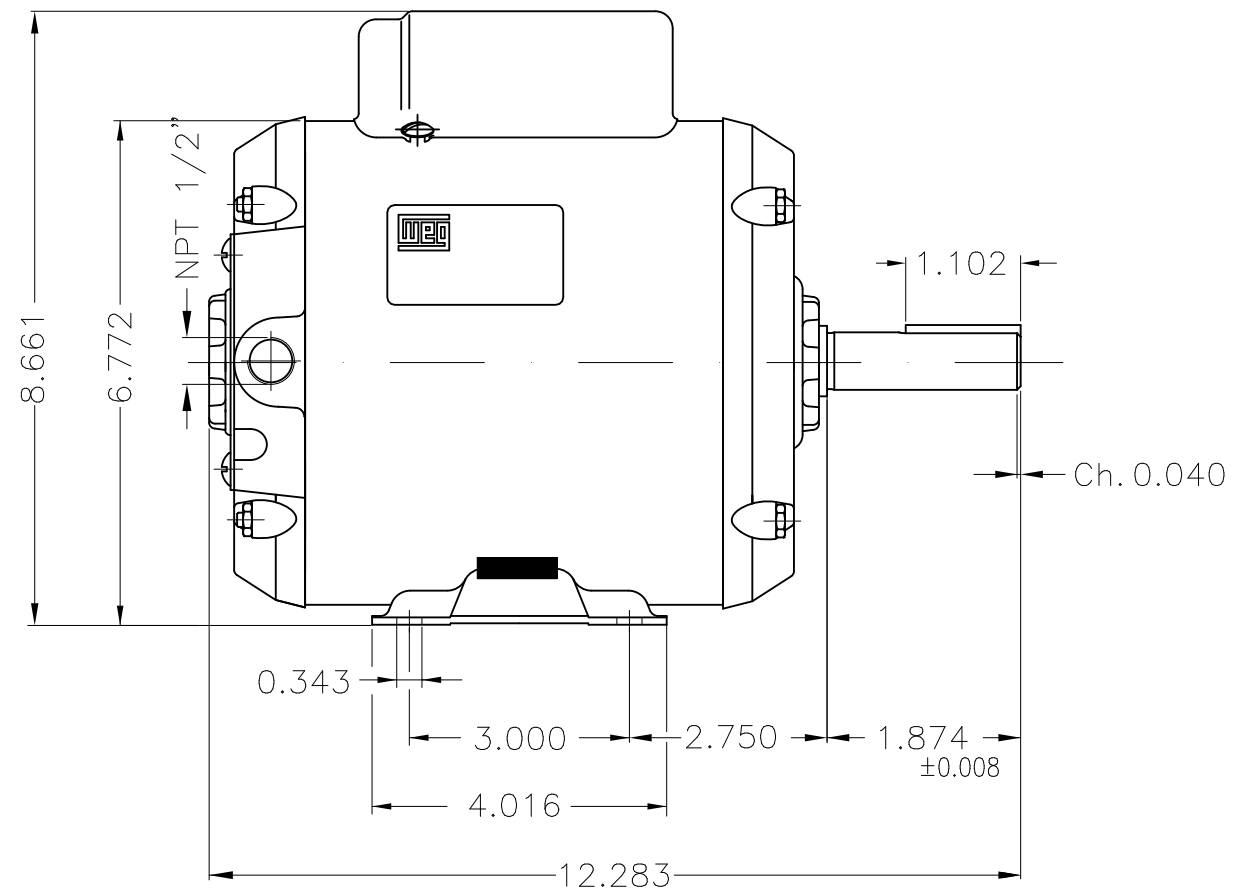
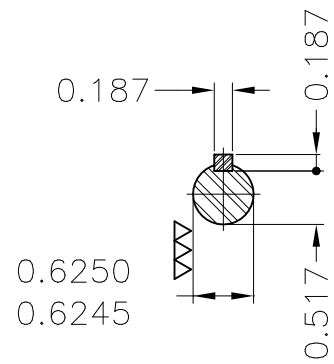
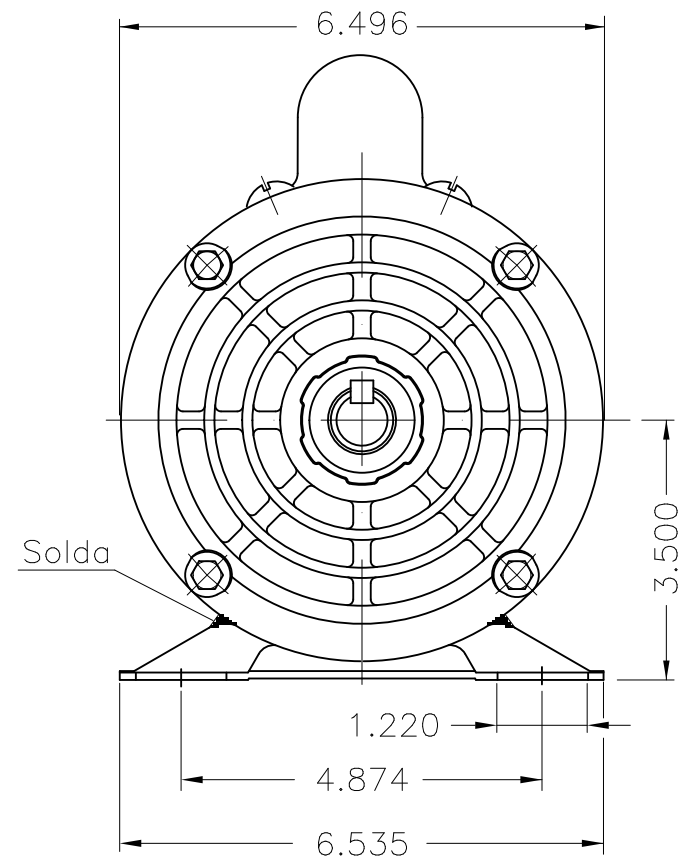
Rated current : 16.8/9.20-8.40 A  
 LRC : 5.2  
 Rated torque : 0.317 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 190 %  
 Rated speed : 3430 rpm

Moment of inertia (J) : 0.0018 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

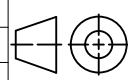

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
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1 2 3 4 5 6

A  
B  
C  
D  
E



Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting B3R(D)

						HYBRISUSER								00	
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER					
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR COMPRESSOR DUTY FRAME D56 IP21 ODP				PREVIEW									
CHECKED						WDD		00							
RELEASED						SHEET		1 / 1							
REL. DATE		WMO	Jaragua do Sul	Product Engineering											

1.5 HP 02 Poles 60 Hz

A