

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Compressor Duty Single-Phase		Product code : 10698252	
Frame	: F56H		Locked rotor time	: 10s (cold) 6s (hot)	
Output	: 3 HP (2.2 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	: 29.4/16.2-14.7 A		Protection degree	: IP21	
L. R. Amperes	: 176/97.2-88.2 A		Cooling method	: IC01 - ODP	
LRC	: 6.0x(Code H)		Mounting	: F-1	
No load current	: 13.0/5.60-6.50 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3440 rpm		Starting method	: Direct On Line	
Slip	: 4.44 %		Approx. weight ³	: 19.3 kg	
Rated torque	: 0.633 kgfm				
Locked rotor torque	: 180 %				
Breakdown torque	: 190 %				
Insulation class	: B				
Service factor	: 1.00				
Moment of inertia (J)	: 0.0028 kgm ²				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	77.0	77.0	Max. traction : 29 kgf	
Power Factor	0.70	0.80	0.86	Max. compression : 48 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	

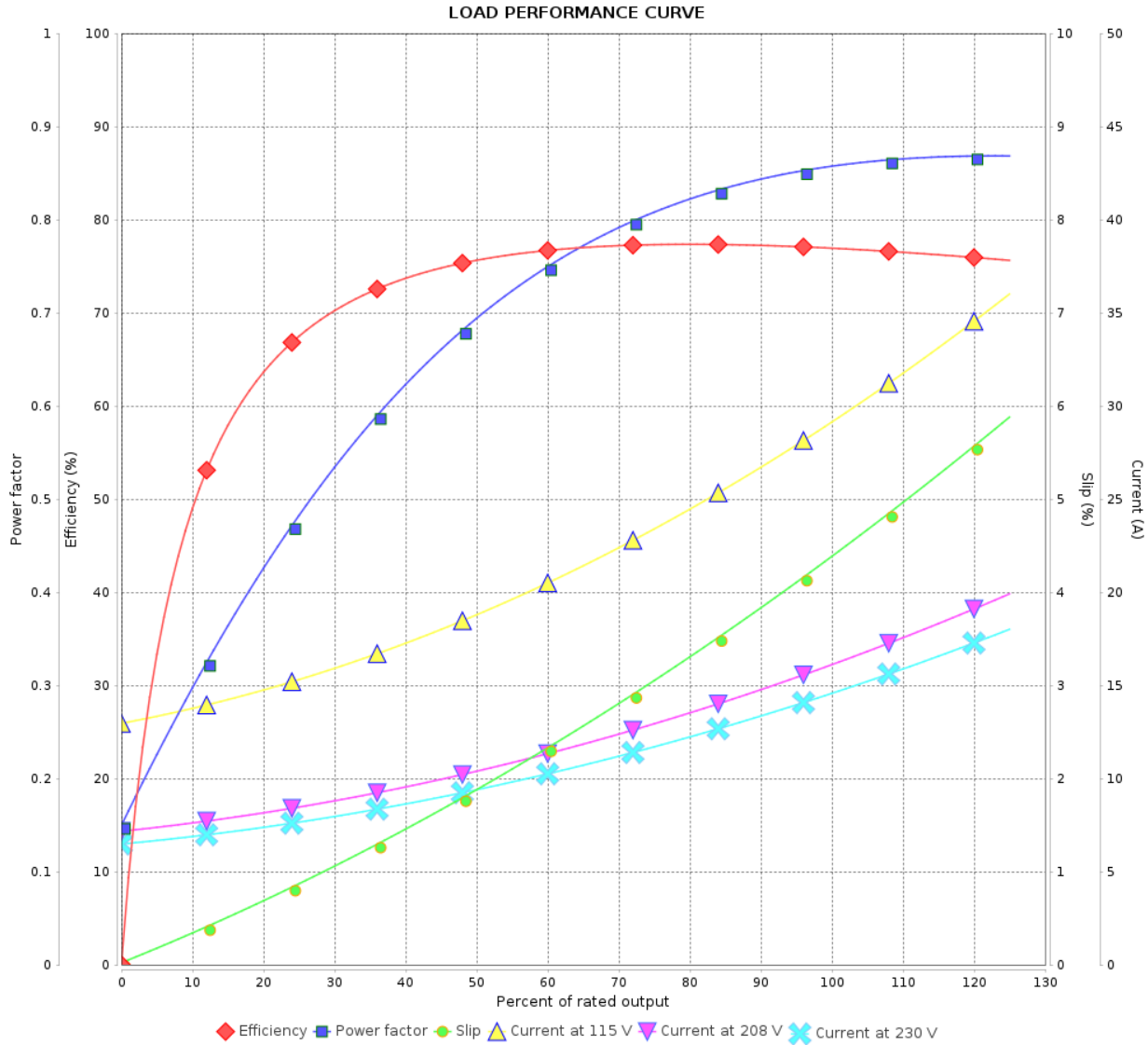
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10698252



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

Rated current	: 29.4/16.2-14.7 A	Moment of inertia (J)	: 0.0028 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.633 kgfm	Insulation class	: B
Locked rotor torque	: 180 %	Service factor	:
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 3440 rpm		

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	07/09/2024			

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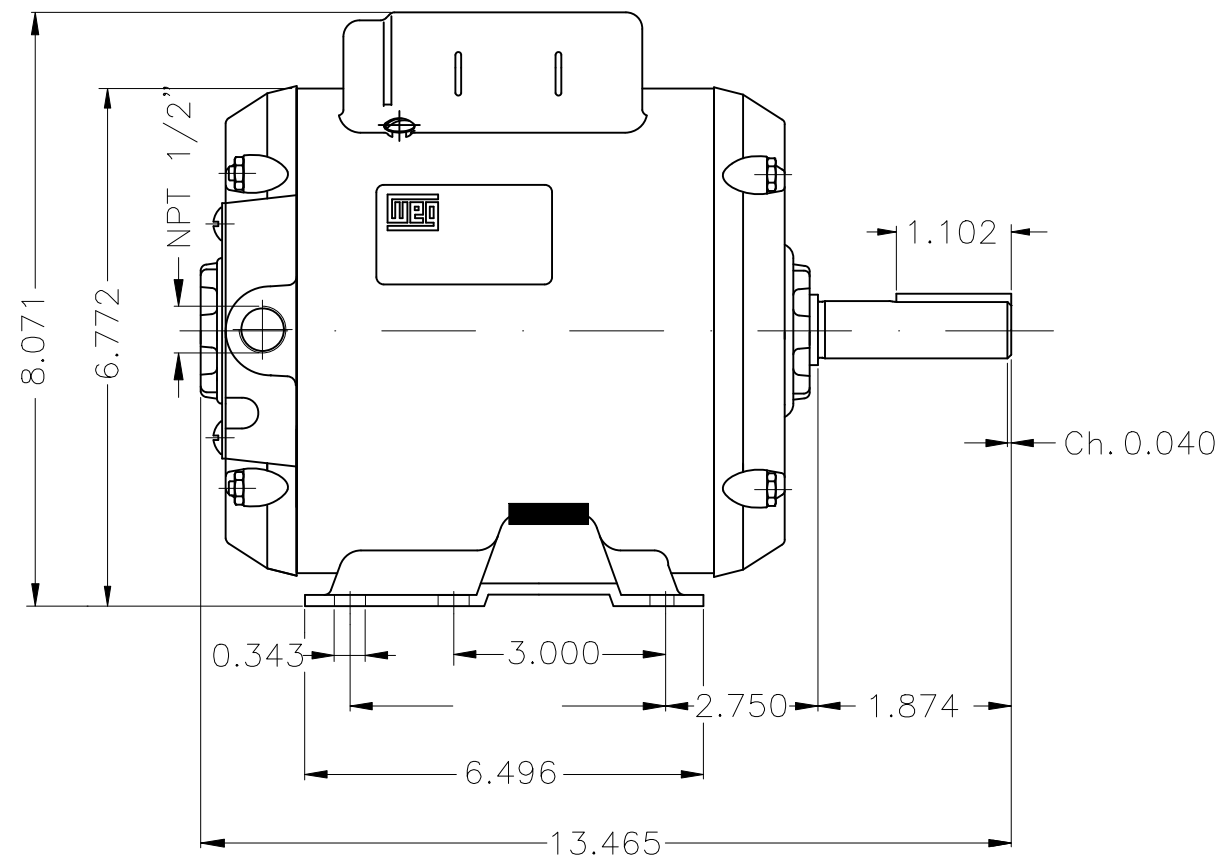
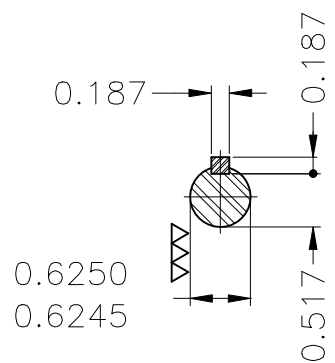
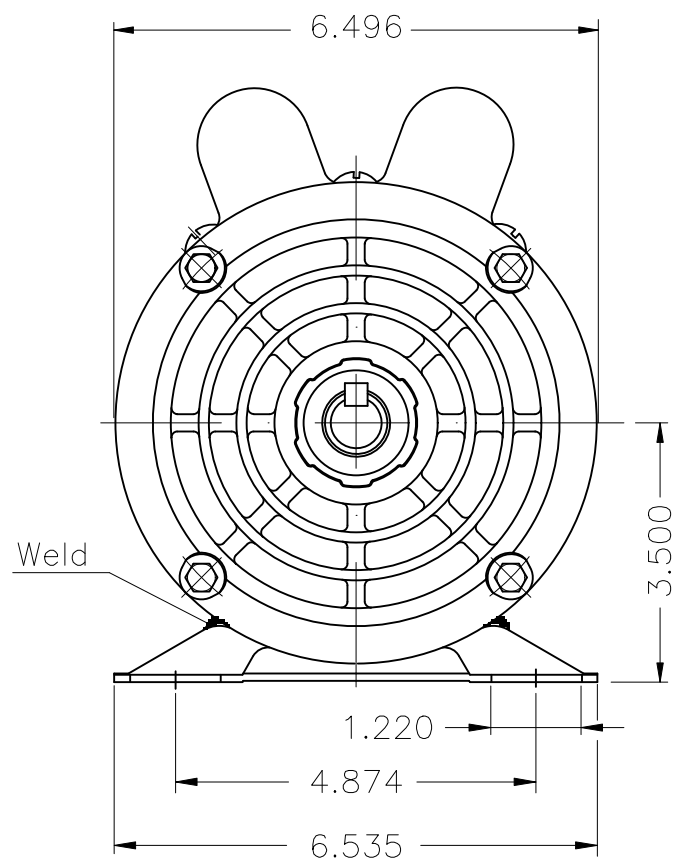
A

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			PREVIEW				
CHECKED		FRAME F56H IP21 ODP			WDD 00				
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

3 HP 02 Poles 60 Hz

A