

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer					
Product line	: Jet Pump - C type Single-Phase	Product code	: 14580088		
Frame	: W56C	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 9.4 kg		
Design	: N	Moment of inertia (J)	: 0.0011 kgm ²		
Output [HP]	0.5				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	115/208-230				
Rated current [A]	4.80/2.65-2.40				
L. R. Amperes [A]	3.84/2.12-1.92				
LRC [A]	0.8x(Code A)				
No load current [A]	1.60/0.690-0.800				
Rated speed [RPM]	3510				
Slip [%]	2.50				
Rated torque [kgfm]	0.103				
Locked rotor torque [%]	270				
Breakdown torque [%]	300				
Service factor					
Temperature rise	80 K				
Locked rotor time	16s (cold) 9s (hot)				
Noise level ²	56.0 dB(A)				
Efficiency (%)	25%	56.6			
	50%	60.0			
	75%	68.0			
	100%	72.4			
Power Factor	25%	0.64			
	50%	0.90			
	75%	0.93			
	100%	0.94			
Bearing type	: <u>Drive end</u> 6203 2RS	<u>Non drive end</u> 6202 2RS	Foundation loads		
Sealing	: Without	Without	Max. traction	: 5 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 14 kgf	
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	17/05/2022			1 / 2	

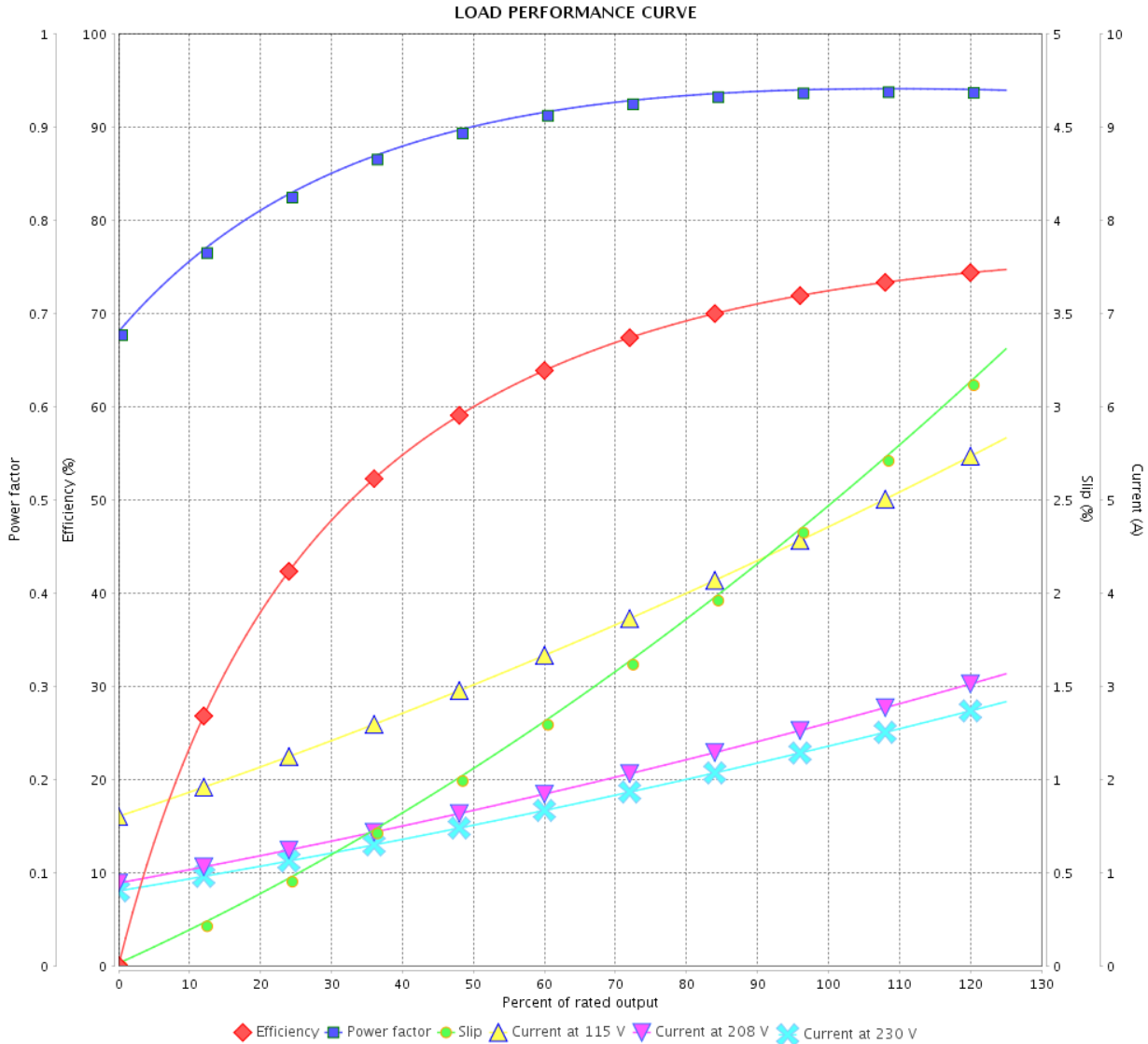
LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Single-Phase Product code : 14580088



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

Rated current	: 4.80/2.65-2.40 A	Moment of inertia (J)	: 0.0011 kgm ²
LRC	: 0.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.103 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
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Date	17/05/2022			

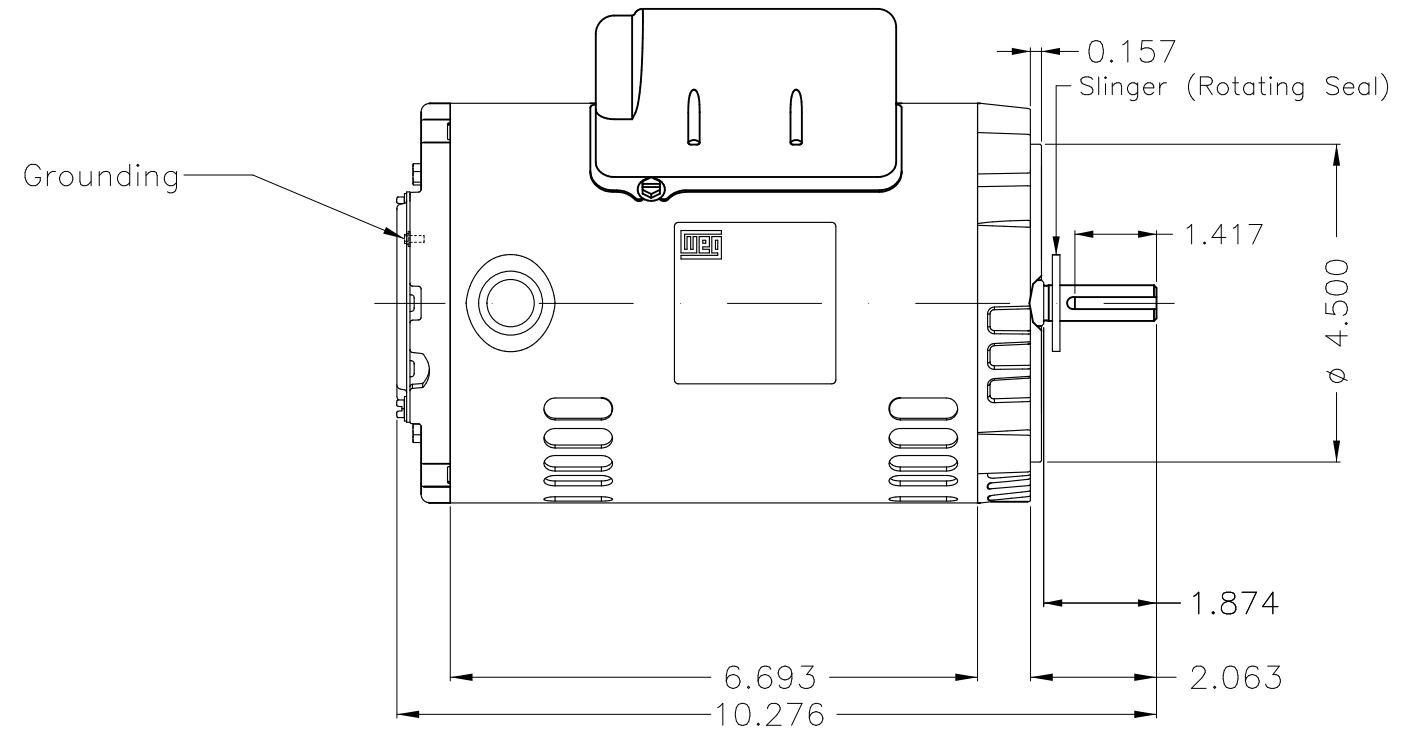
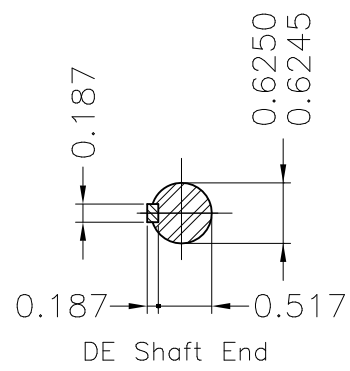
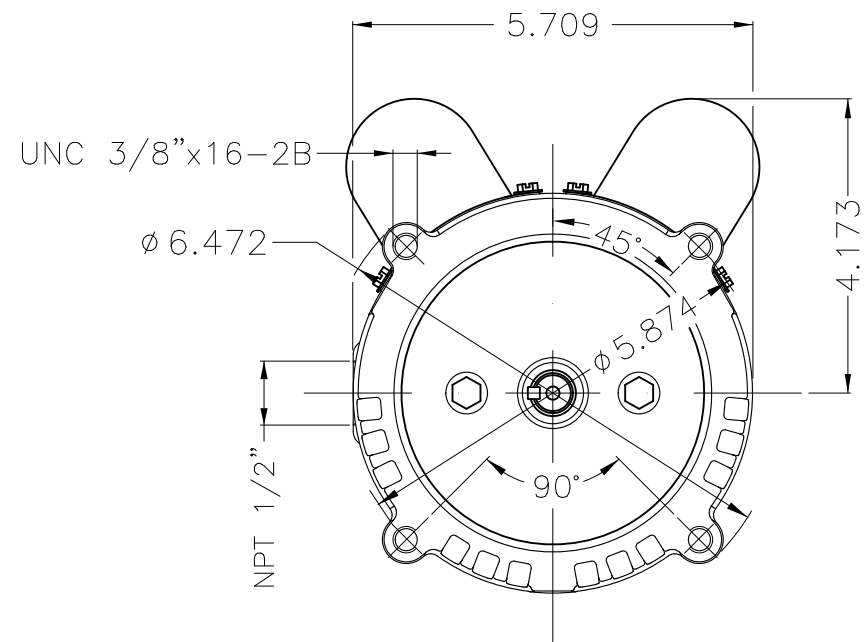
A

B

C

D

E



Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									
						00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	SINGLE PH. MOTOR ROLLED STEEL JET PUMP KEYED PREM 555							
CHECKED		FRAME W56C IP21 ODP							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	PREVIEW	WDD	00		
					SHEET	1 / 1			

0.5 HP 02 Poles 60 Hz

A