

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase			
Product code :	11146952			
Frame : E143/5JM Output : 1.5 HP (1.1 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 1.76 A L. R. Amperes : 15.8 A LRC : 9.0x(Code M) No load current : 1.12 A Rated speed : 1740 rpm Slip : 3.33 % Rated torque : 0.626 kgfm Locked rotor torque : 360 % Breakdown torque : 340 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0067 kgm ² Design : B	Locked rotor time : 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP21 Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 21.3 kg			
Output	50% 75% 100%			
Efficiency (%)	82.5 85.5 86.5			
Power Factor	0.52 0.66 0.75			
Foundation loads	Max. traction : 50 kgf Max. compression : 71 kgf			
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6204 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	23/10/2024		1 / 2	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

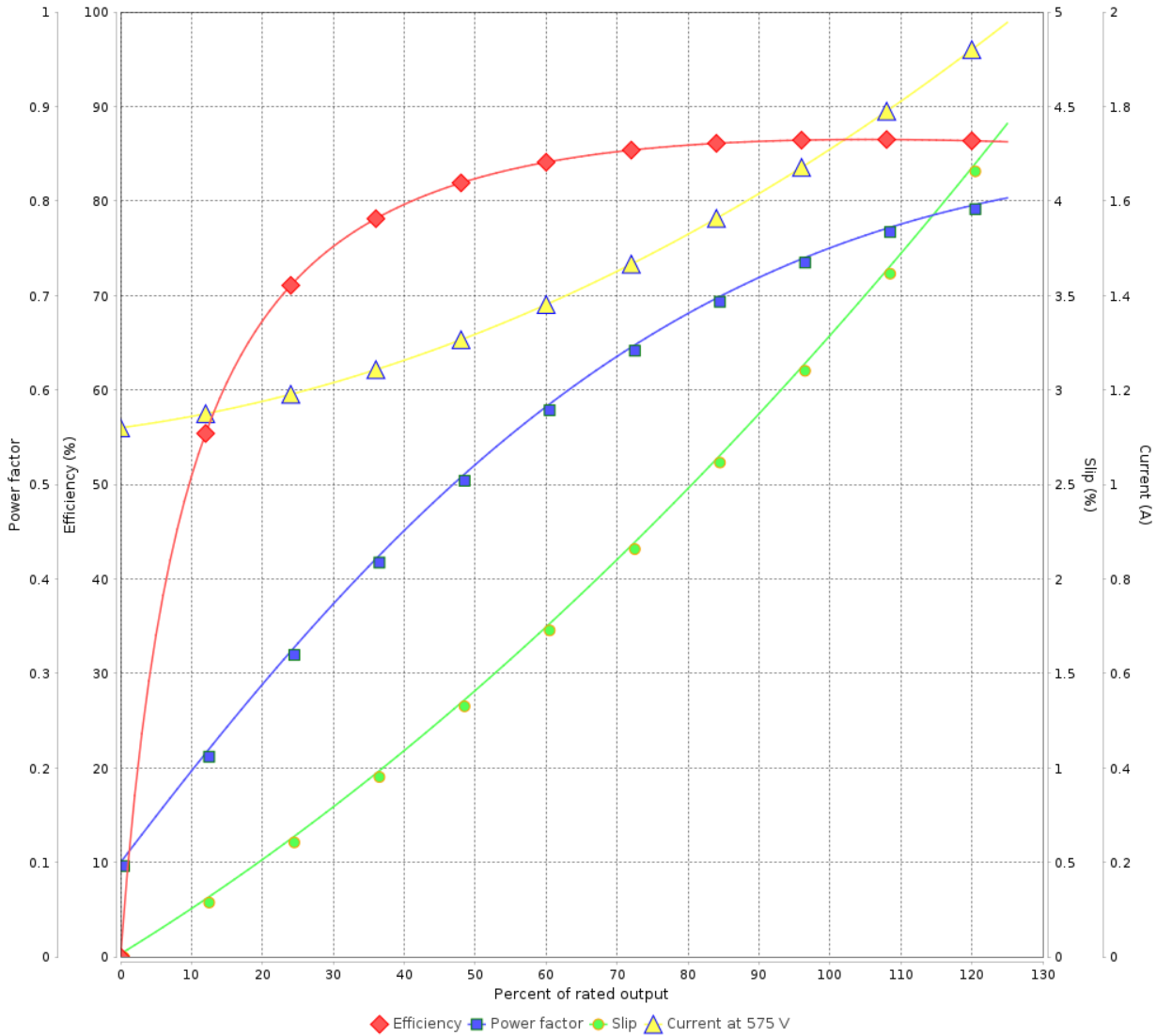


Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code : 11146952

LOAD PERFORMANCE CURVE

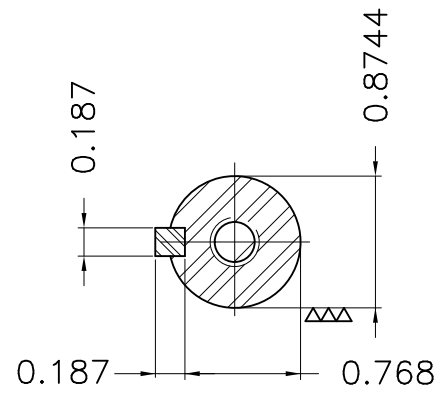
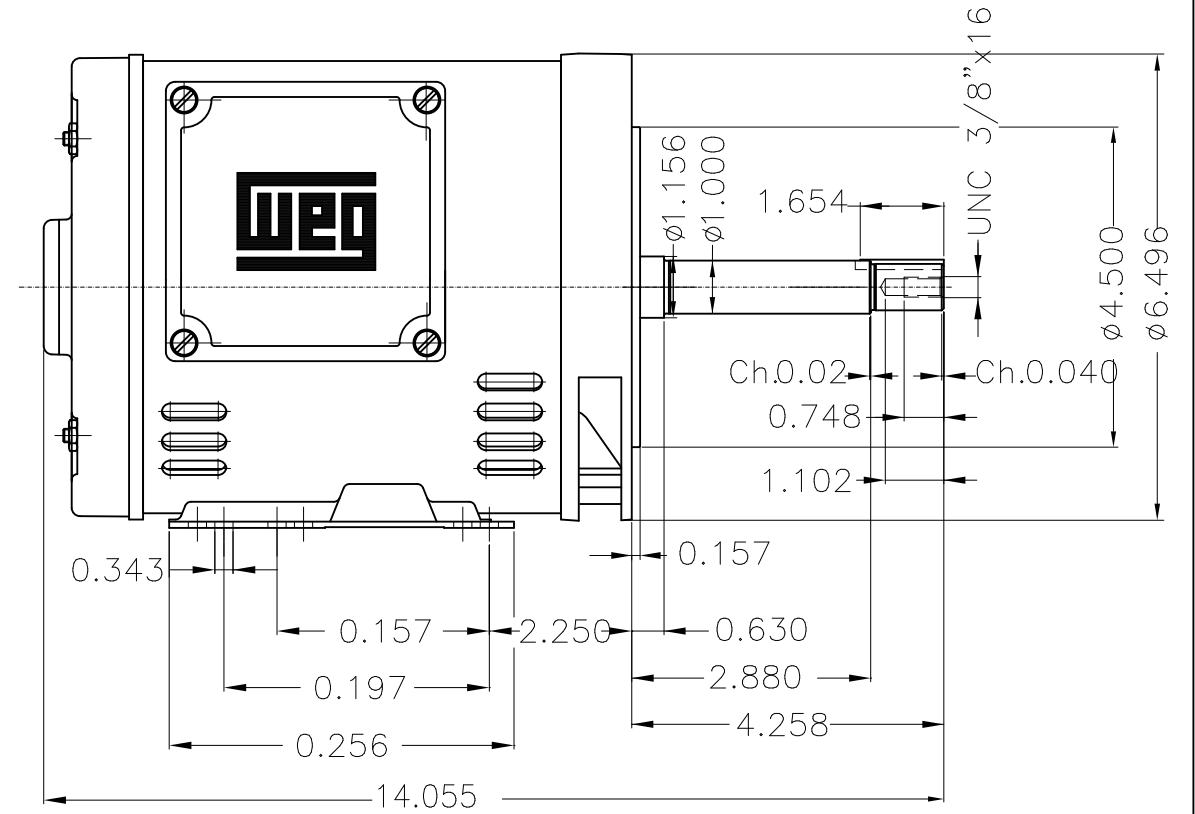
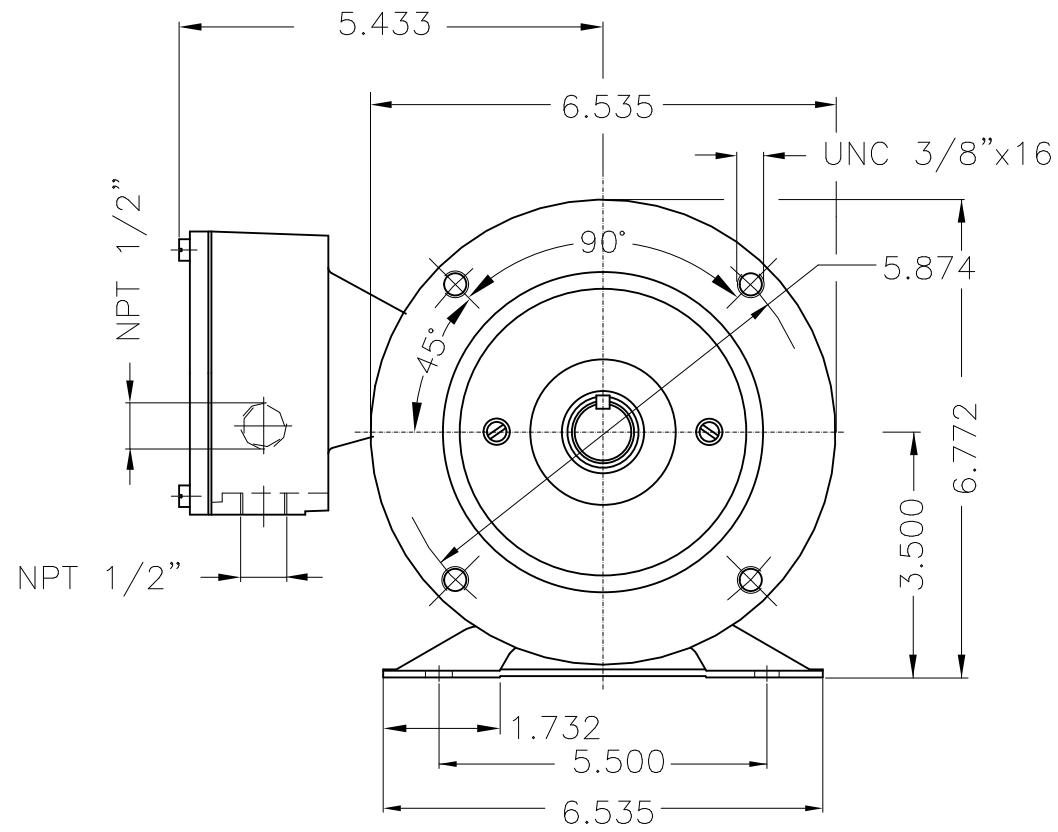


Performance : 575 V 60 Hz 4P

Rated current : 1.76 A
LRC : 9.0
Rated torque : 0.626 kgfm
Locked rotor torque : 360 %
Breakdown torque : 340 %
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0067 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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Without switch off thermal protection									
Mounting B34R(D)									
					HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR JM/JP/JET PUMP NEMA PREM. EFF.							
CHECKED		FRAME E143/5JM IP21 ODP							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	PREVIEW		WDD 00		
				SHEET		1 / 1			

1.5 HP 04 Poles 60 Hz

A