

# DATA SHEET

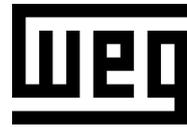


## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 12697748		
Frame	: 364/5TC	Locked rotor time	: 36s (cold) 20s (hot)			
Output	: 60 HP (45 kW)	Temperature rise	: 80 K			
Poles	: 4	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 54.6 A	Protection degree	: IP55			
L. R. Amperes	: 382 A	Cooling method	: IC411 - TEFC			
LRC	: 7.0x(Code H)	Mounting	: F-1			
No load current	: 17.6 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1780 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)			
Slip	: 1.11 %	Starting method	: Direct On Line			
Rated torque	: 24.5 kgfm	Approx. weight <sup>3</sup>	: 471 kg			
Locked rotor torque	: 250 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.8767 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.1	94.5	95.0	Max. traction : 452 kgf		
Power Factor	0.72	0.82	0.87	Max. compression : 922 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	9789 h		9789 h		
Lubricant amount	:	27 g		27 g		
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
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## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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# LOAD PERFORMANCE CURVE

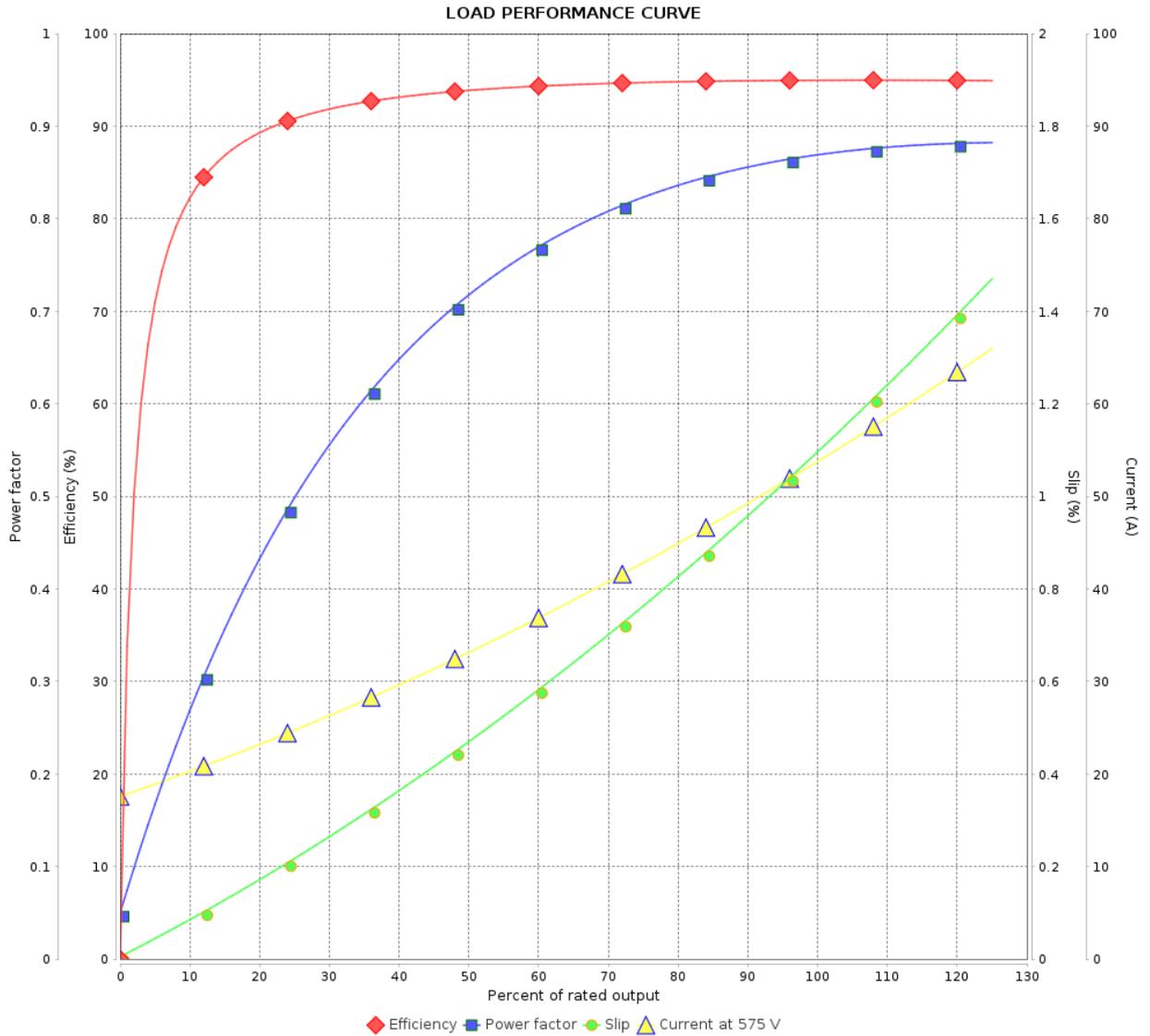
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA  
Premium Efficiency Three-Phase

Product code : 12697748

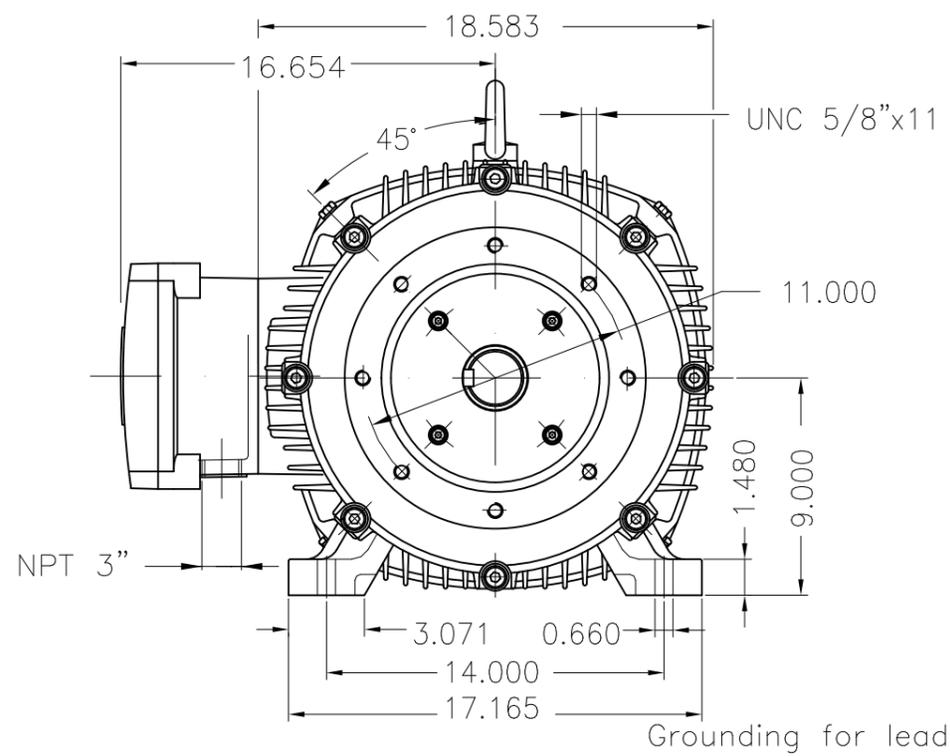


Performance : 575 V 60 Hz 4P

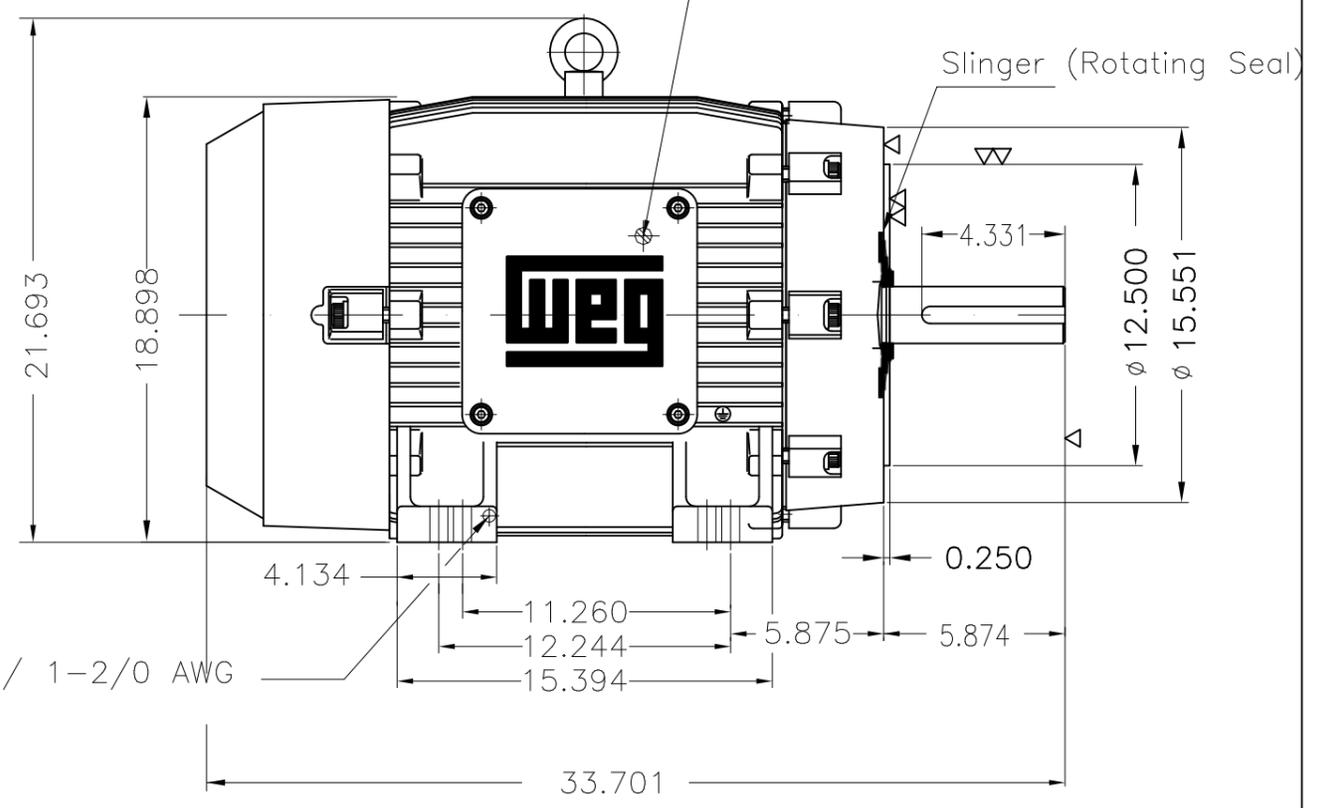
Rated current : 54.6 A  
 LRC : 7.0  
 Rated torque : 24.5 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 250 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.8767 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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Grounding for leads 25-50 mm<sup>2</sup> / 3-1 AWG

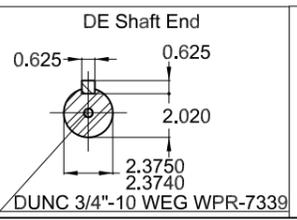


C

D

E

Color RAL 5009  
 Painting plan 222P  
 Mounting NEMA F-1  
 Mounting B34R(D)



60 HP 04 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF.					
CHECKED		FRAME 364/5TC IP55 TEFC					
RELEASED							
REL. DATE		WMO Jaragua do Sul					

PREVIEW  
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