

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer					
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12682579		
Frame	: 143/5T	Cooling method	: IC01 - ODP		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 18.3 kg		
Design	: B	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>		
Output [HP]	3				
Poles	2				
Frequency [Hz]	60				
Rated voltage [V]	575				
Rated current [A]	2.87				
L. R. Amperes [A]	23.0				
LRC [A]	8.0x(Code J)				
No load current [A]	1.04				
Rated speed [RPM]	3480				
Slip [%]	3.33				
Rated torque [kgfm]	0.626				
Locked rotor torque [%]	229				
Breakdown torque [%]	300				
Service factor	1.15				
Temperature rise	80 K				
Locked rotor time	16s (cold) 9s (hot)				
Noise level <sup>2</sup>	62.0 dB(A)				
Efficiency (%)	25%	83.7			
	50%	84.0			
	75%	85.5			
	100%	85.5			
Power Factor	25%	0.50			
	50%	0.76			
	75%	0.86			
	100%	0.90			
Bearing type	: Drive end	Non drive end	Foundation loads		
Sealing	: 6205 ZZ	6203 ZZ	Max. traction	: 44 kgf	
Lubrication interval	: Without	Without	Max. compression	: 62 kgf	
Lubricant amount	: Bearing Seal	Bearing Seal			
Lubricant type	: -	-			
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	13/05/2022			1 / 2	

# LOAD PERFORMANCE CURVE

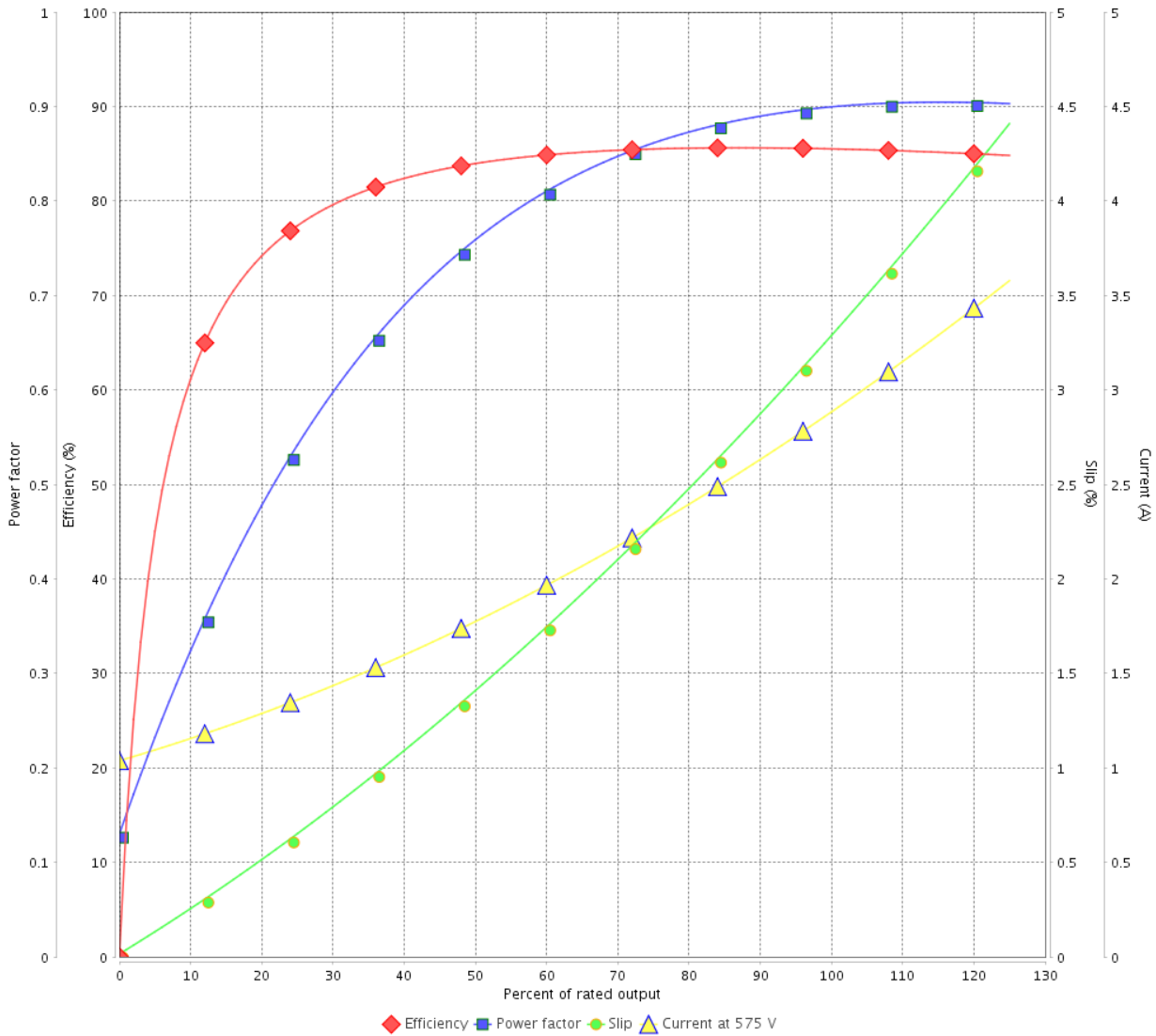
Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12682579

LOAD PERFORMANCE CURVE

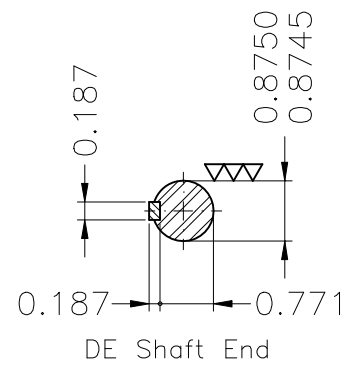
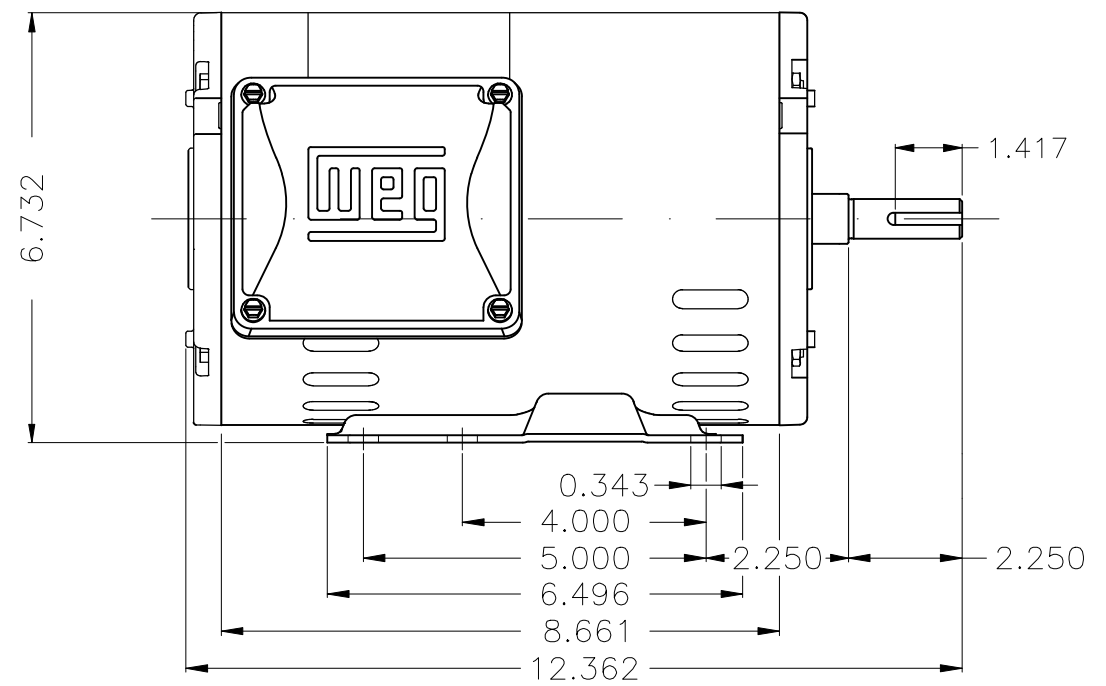
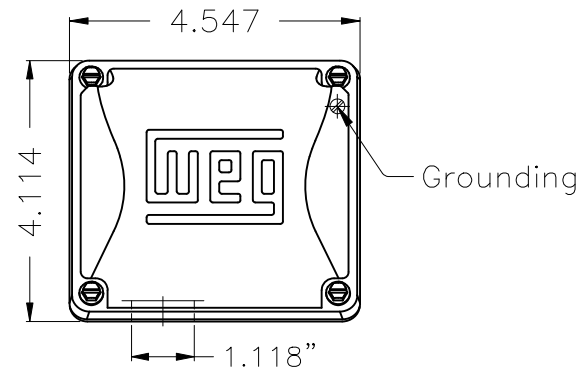
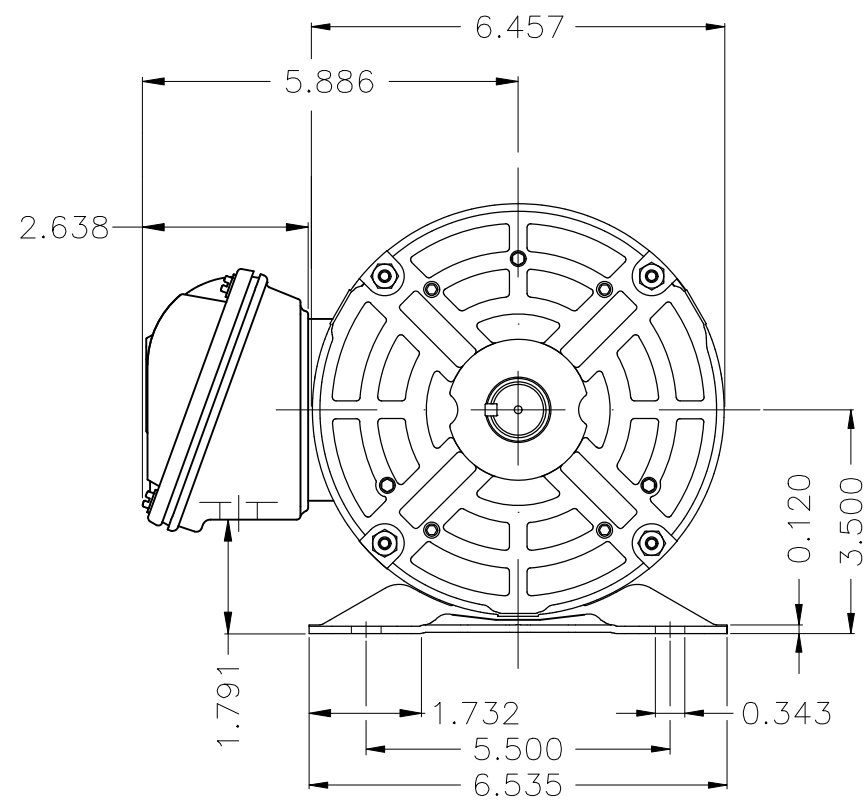


Performance : 575 V 60 Hz 2P

Rated current	: 2.87 A	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.626 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	13/05/2022			

A  
B  
C  
D  
E



Color Munsell N 1 matte black						
Painting plan 207N						
Mounting F-1/B3R(D)						
				HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED DATE VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. FRAME 143/5T IP21 ODP		PREVIEW		
CHECKED				WDD	00	
RELEASED				SHEET	1 / 1	
REL. DATE		WMO Jaragua do Sul	Product Engineering			

3 HP 02 Poles 60 Hz

A