

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: NEMA Premium Efficiency Three-Phase	Product code : 12682585		
Frame	: 143/5T	Cooling method : IC411 - TEFC		
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> : 18.4 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0054 kgm <sup>2</sup>		
Design	: B			
Output [HP]		2		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		1.98		
L. R. Amperes [A]		19.6		
LRC [A]		9.9x(Code L)		
No load current [A]		0.850		
Rated speed [RPM]		3520		
Slip [%]		2.22		
Rated torque [kgfm]		0.412		
Locked rotor torque [%]		250		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		23s (cold) 13s (hot)		
Noise level <sup>2</sup>		68.0 dB(A)		
Efficiency (%)	25%	82.1		
	50%	82.5		
	75%	85.5		
	100%	85.5		
Power Factor	25%	0.45		
	50%	0.73		
	75%	0.83		
	100%	0.89		
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 26 kgf		
Lubrication interval	: - -	Max. compression : 44 kgf		
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	13/05/2022		1 / 2	

# LOAD PERFORMANCE CURVE

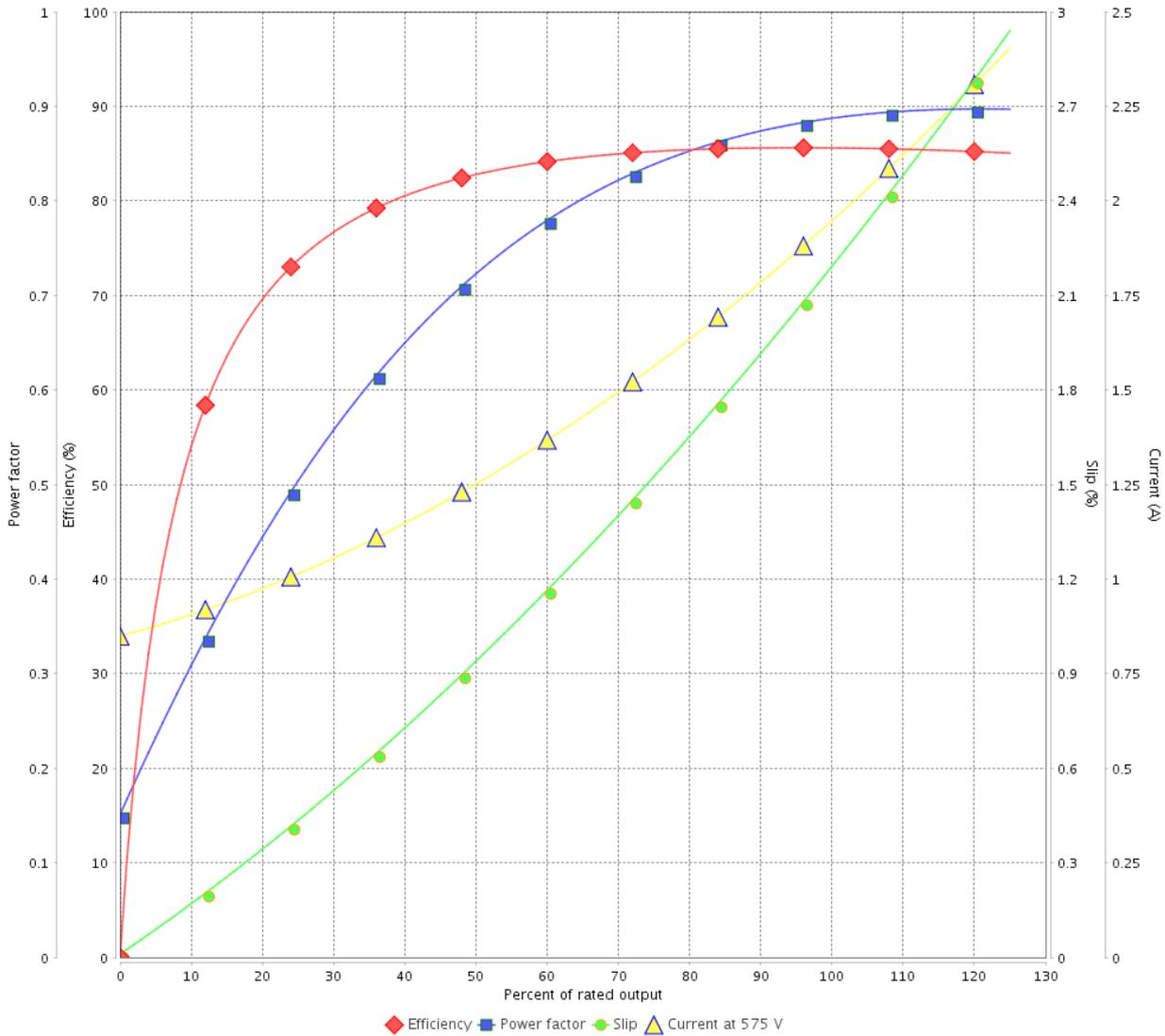
Three Phase Induction Motor - Squirrel Cage



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

Product line : NEMA Premium Efficiency Three-Phase      Product code : 12682585

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 1.98 A	Moment of inertia (J)	: 0.0054 kgm <sup>2</sup>
LRC	: 9.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.412 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3520 rpm	Design	: B

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

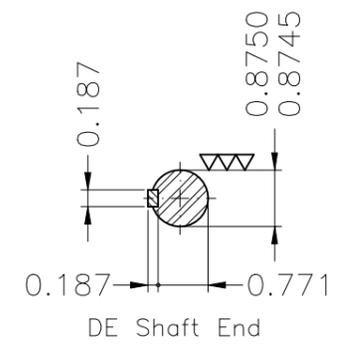
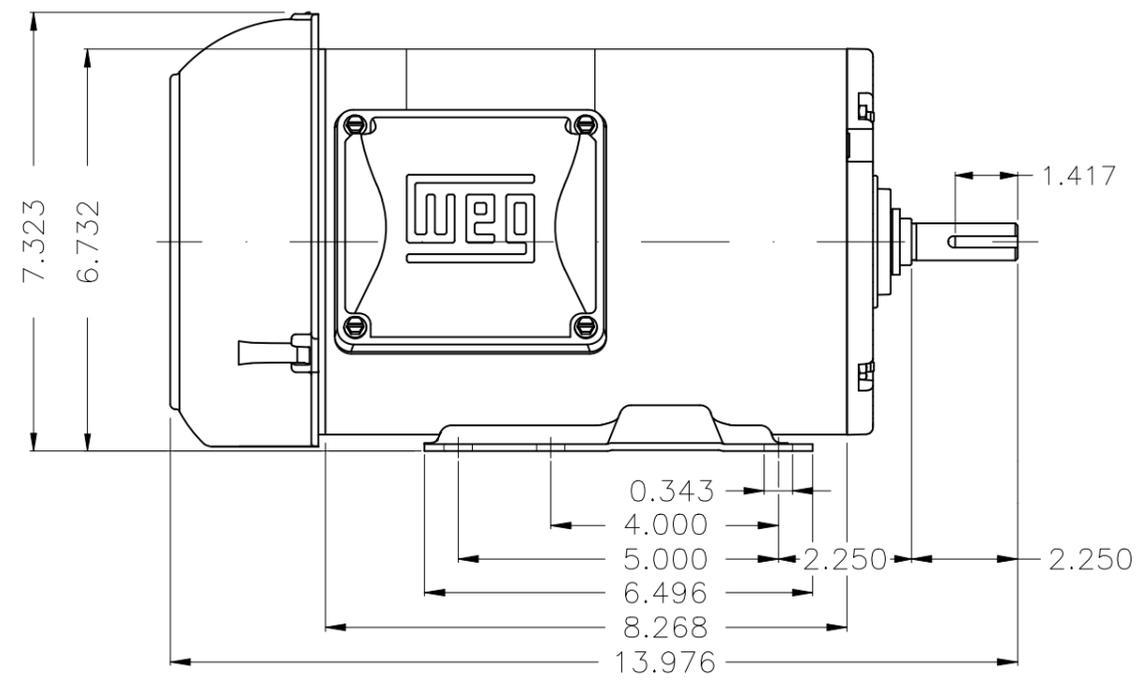
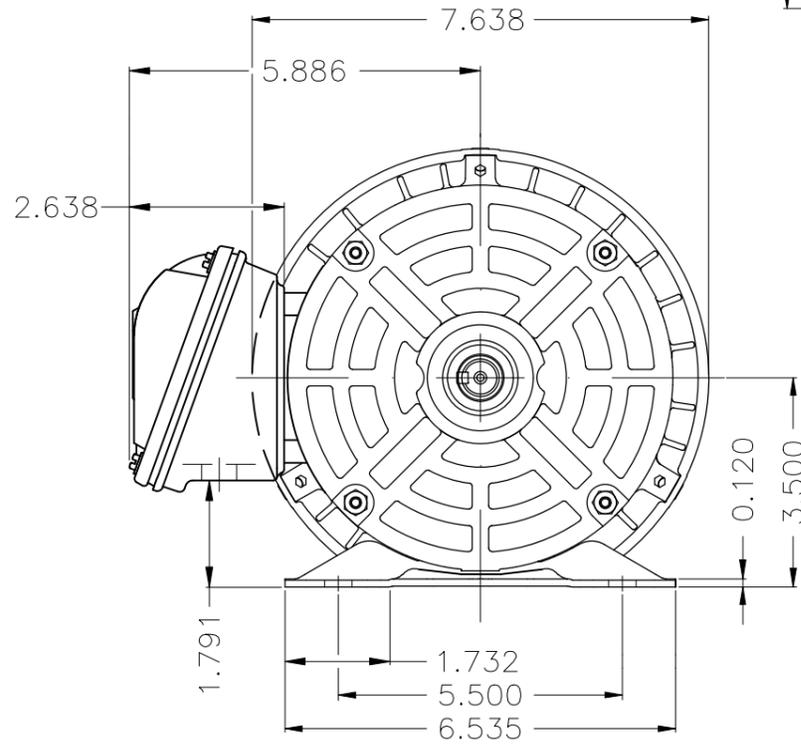
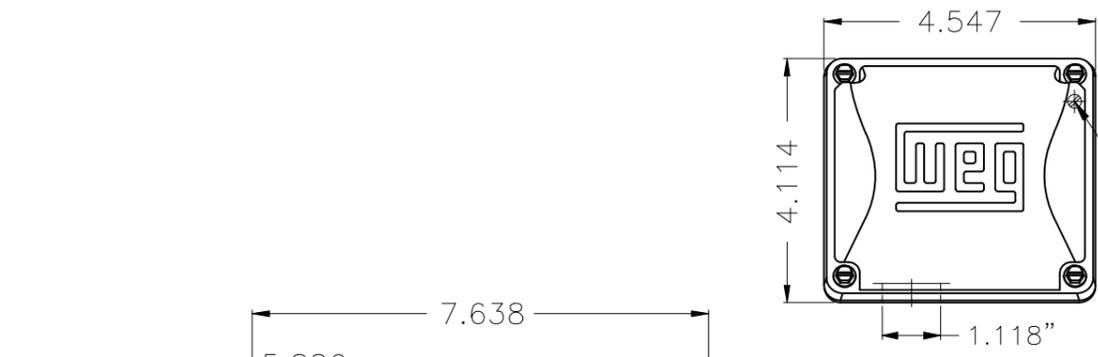
A

B

C

D

E



Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. FRAME 143/5T IP55 TEFC					00
CHECKED							
RELEASED							
REL. DATE	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

2 HP 02 Poles 60 Hz

A

PREVIEW  
 WDD 00