

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:			
Product line	: NEMA Premium Efficiency Three-Phase	Product code : 14893734		
Frame	: 182/4TC	Cooling method : IC411 - TEFC		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation ¹ : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³ : 33.0 kg		
Protection degree	: IP55	Moment of inertia (J) : 0.0066 kgm ²		
Design	: B			
Output [HP]		3		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		575		
Rated current [A]		2.94		
L. R. Amperes [A]		25.8		
LRC [A]		8.8x(Code K)		
No load current [A]		1.29		
Rated speed [RPM]		3515		
Slip [%]		2.36		
Rated torque [kgfm]		0.619		
Locked rotor torque [%]		220		
Breakdown torque [%]		300		
Service factor		1.15		
Temperature rise		80 K		
Locked rotor time		39s (cold) 22s (hot)		
Noise level ²		68.0 dB(A)		
Efficiency (%)	25%			
	50%	84.0		
	75%	86.5		
	100%	86.5		
Power Factor	25%			
	50%	0.71		
	75%	0.82		
	100%	0.87		
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction : 22 kgf		
Lubrication interval	: - -	Max. compression : 55 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	

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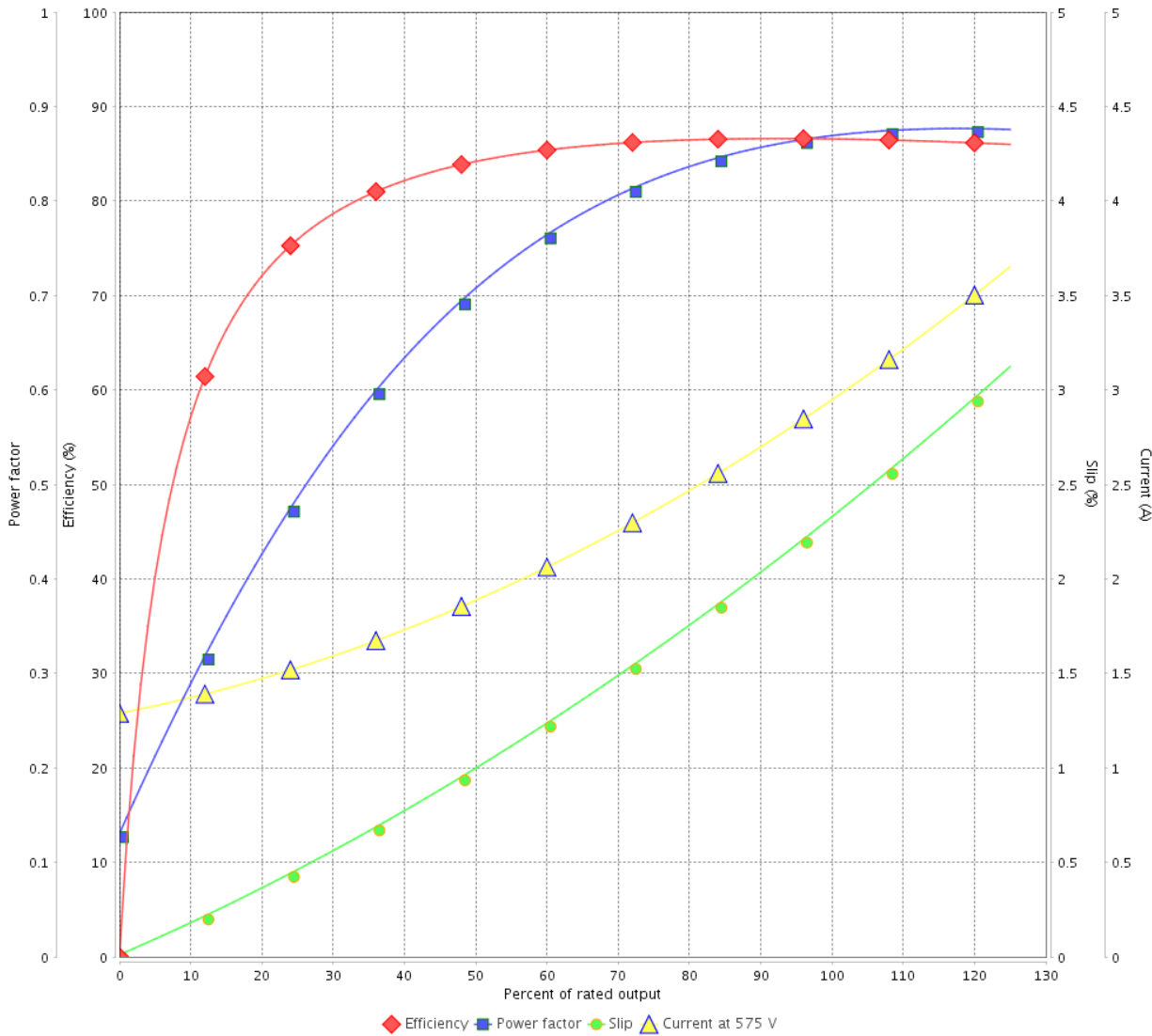
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 14893734

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 2.94 A	Moment of inertia (J)	: 0.0066 kgm ²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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Checked by				
Date	13/05/2022			

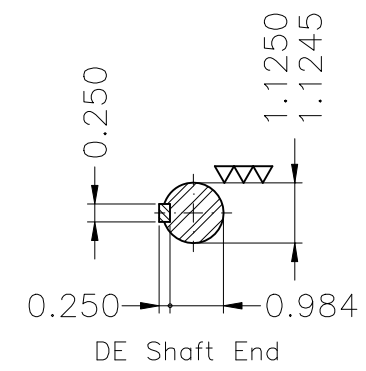
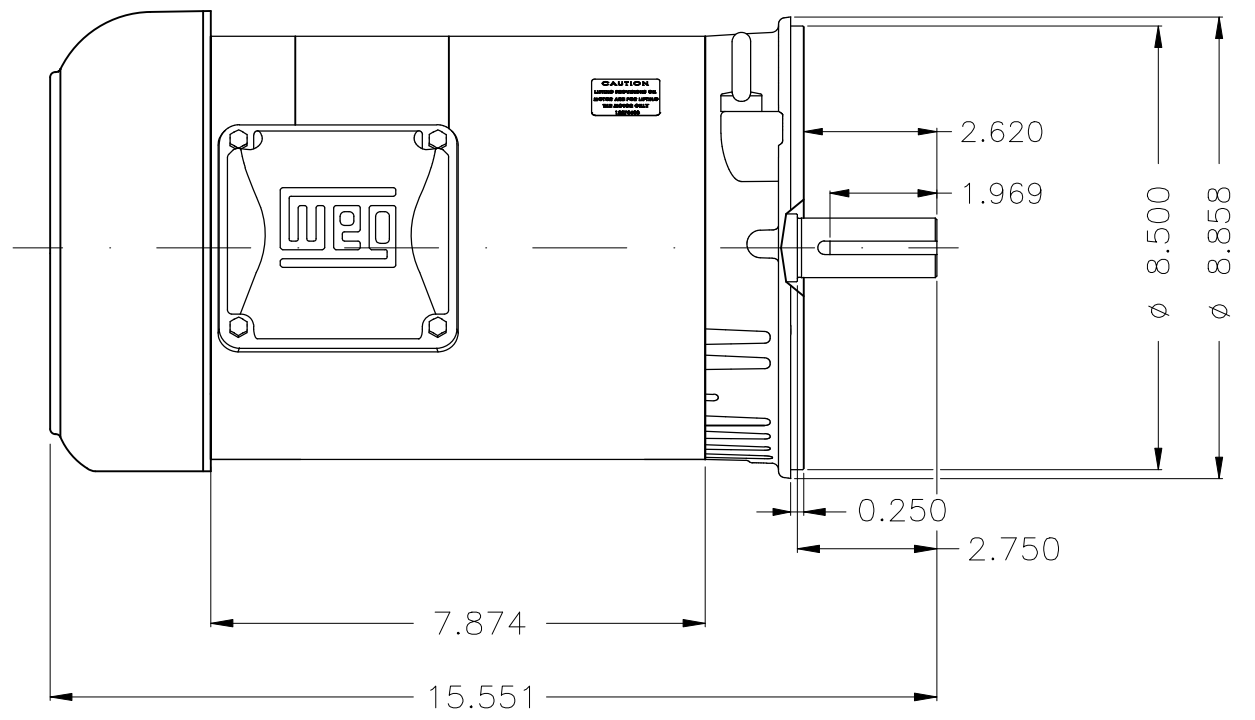
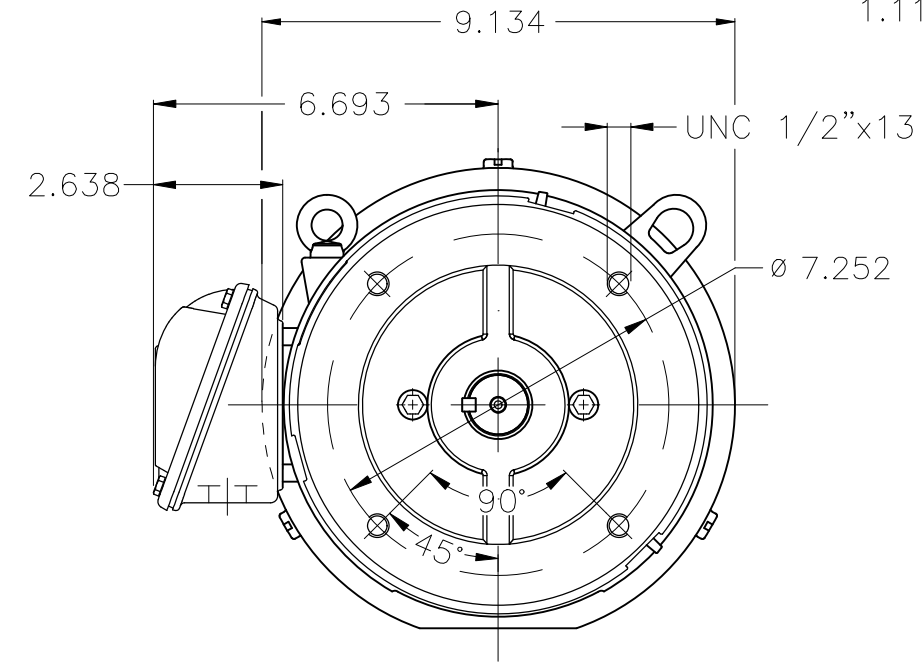
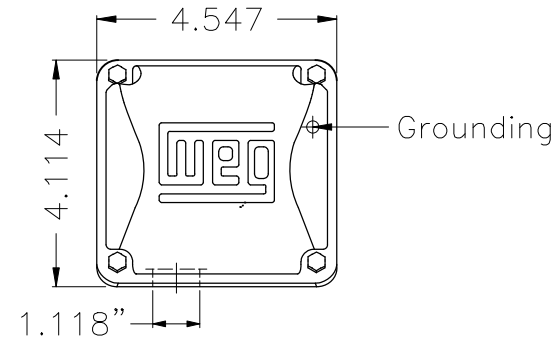
A

B

C

D

E



Color Munsell N 1 matte black											
Painting plan 207N											
Mounting F-1/B14R(D)											
								HYBRISUSER	00		
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.						PREVIEW			
CHECKED		FRAME 182/4TC IP55 TEFC						WDD	00		
RELEASED											
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1				

3 HP 02 Poles 60 Hz

A