DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	13811913
		Catalog # :	

Frame	: 143/5TC	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.82/1.41 A	Protection degree	: IP55
L. R. Amperes	: 24.3/12.1 A	Cooling method	: IC410 - TENV
LRC	: 8.6x(Code L)	Mounting	: F-1
No load current	: 1.58/0.790 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1760 rpm	Starting method	: VFD
Slip	: 2.22 %	Approx. weight[3]	: 55.1 lb
Rated torque	: 2.98 ft.lb		
Locked rotor torque	: 240 %		
Breakdown torque	: 350 %		
Insulation class	: H		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1163 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	82.5	85.5	85.5
Power Factor	0.00	0.60	0.70	0.78

Foundation loads

Max. traction	: 63 lb
Max. compression	: 118 lb

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6205 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 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

Performed by				
Checked by			Page	Revision
Date	06/03/2025		1 / 2	

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Customer :

Thermal protection

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

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	06/03/2025		2 / 2	

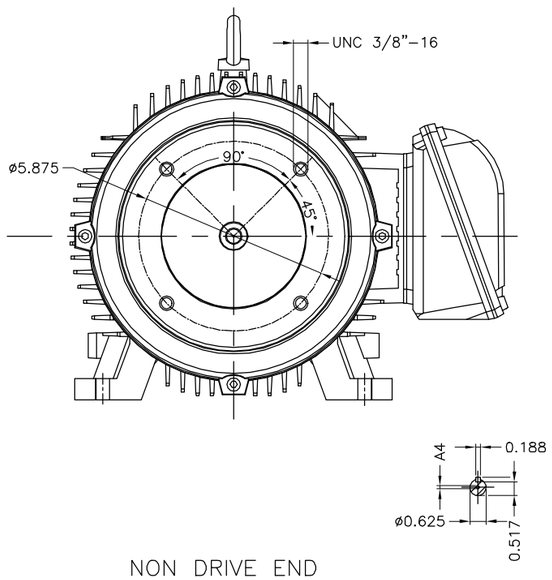
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EJE/SHAFT	
ESTÁNDAR/STANDARD	
OPCIONAL/OPTIONAL	
ESPECIAL/SPECIAL	X

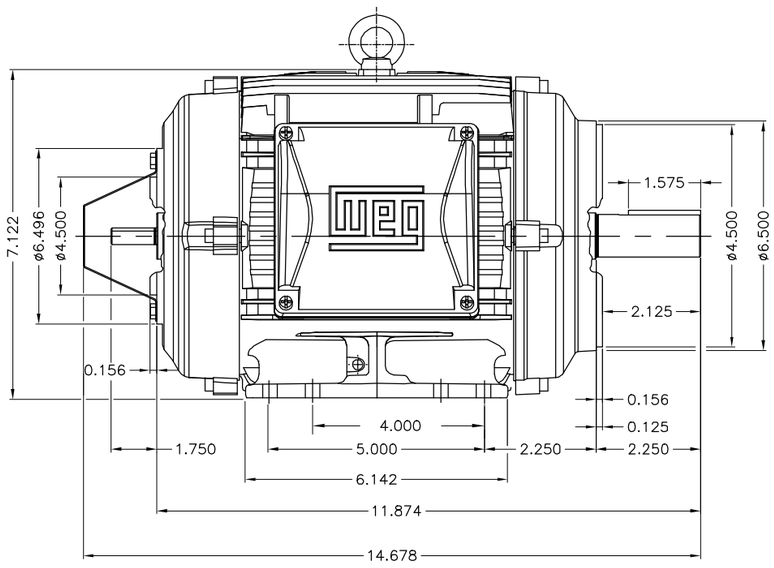
Dimensões em polegada
Dimensions in inches

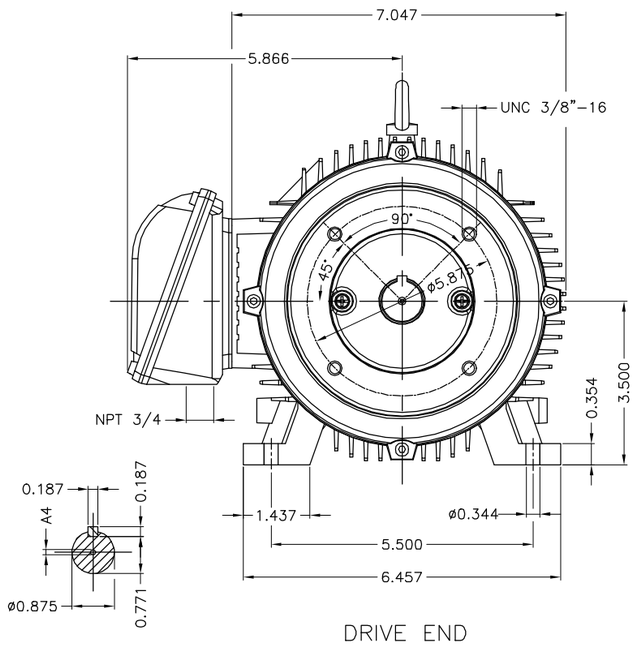
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WEG MOTORES
Certified document.
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THIS IS AN UPDATED REVISION, THE PREVIOUS ONE MUST BE DISREGARDED.

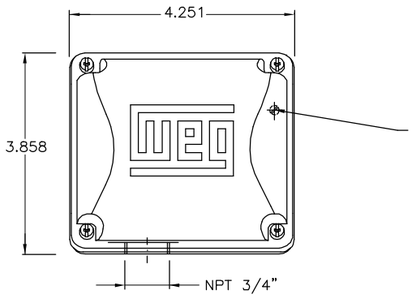


NON DRIVE END





DRIVE END



Main terminal box

Sin deflectora / Without fan cover
Anillo fijación del rodamiento / Bearing cap
Sin ventilador / Without fan
Color RAL 5009 / Color RAL 5009
Plan de pintura 207A / Painting plan 207A
Forma constructiva NEMA F-1 / Mounting NEMA F-1
Forma constructiva B34D / Mounting B34R(D)

OV: 4302353

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
500001499515		ACCORDING TO CLAIM 415160683	DRODRIGUEZ	JOSEARMANDO	JOSEARMANDO	27.11.2018	04
500001499516		DOCUMENTO CERTIFICADO	ISAAVEDRA	JOSE9	JOSE9	06.09.2018	03

EXECUTED	OLOPEZ	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF	10004588487
CHECKED	OMARG	FRAME 143/5TC IP55 TENV	000 | 04
RELEASED	OMARG		
REL DT	03.11.2016	WMX Huehuetoca Product Engineering	SHEET 1 /

1 HP 04 Poles 60Hz 414463338/0 A

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