

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase
Product code : 14348909
Catalog # : 01036XT3E215T

Frame	: 213/5T	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 23.5/11.7 A	Protection degree	: IP55
L. R. Amperes	: 162/80.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.9x(Code H)	Mounting	: F-1
No load current	: 7.20/3.60 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3525 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 14.9 ft.lb	Approx. weight ³	: 199 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.5512 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5	90.2	90.2	Max. traction	: 164 lb
Power Factor	0.79	0.86	0.89	Max. compression	: 363 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
10.1	7.5	7.0	5.5	3.0	2.0	1.1

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6308 2RS	: 6207 2RS
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 25.7A SF 1.15 SFA 29.5A

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.

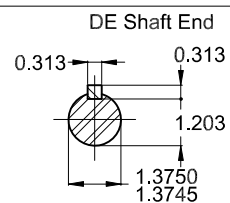
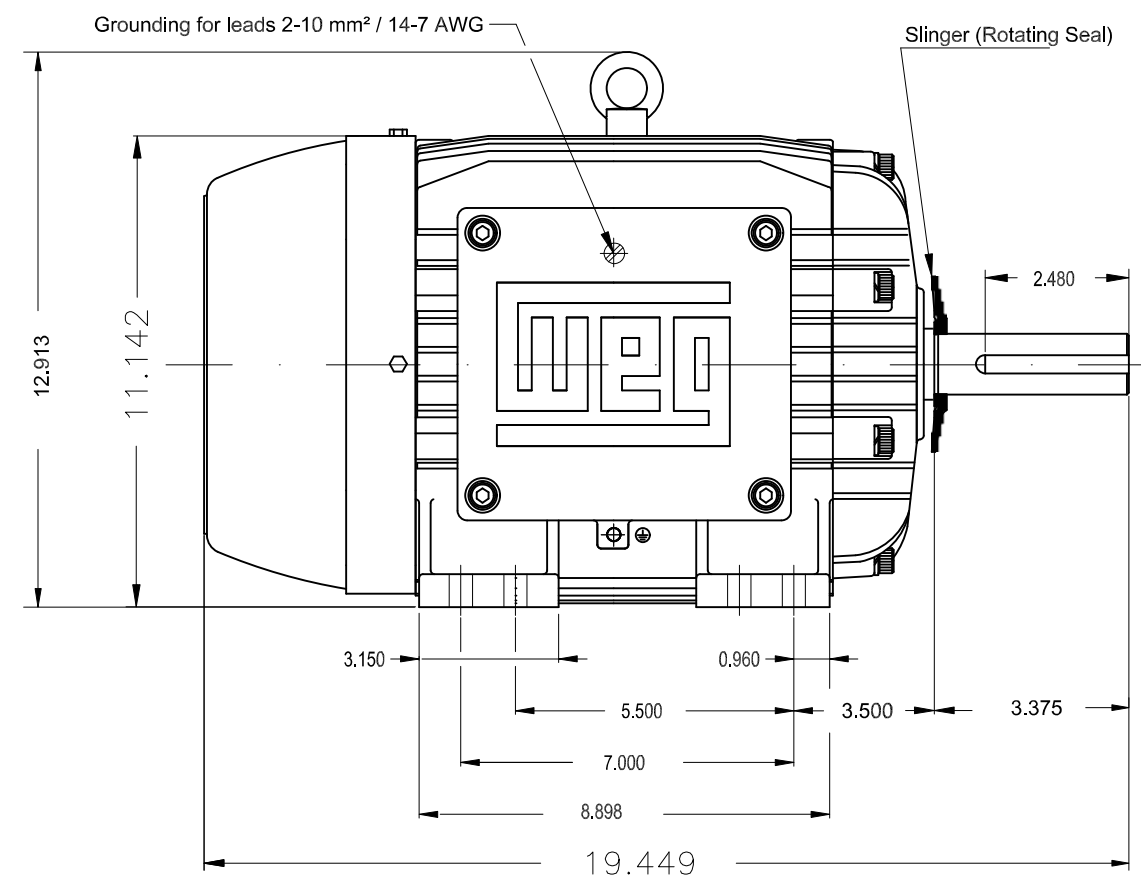
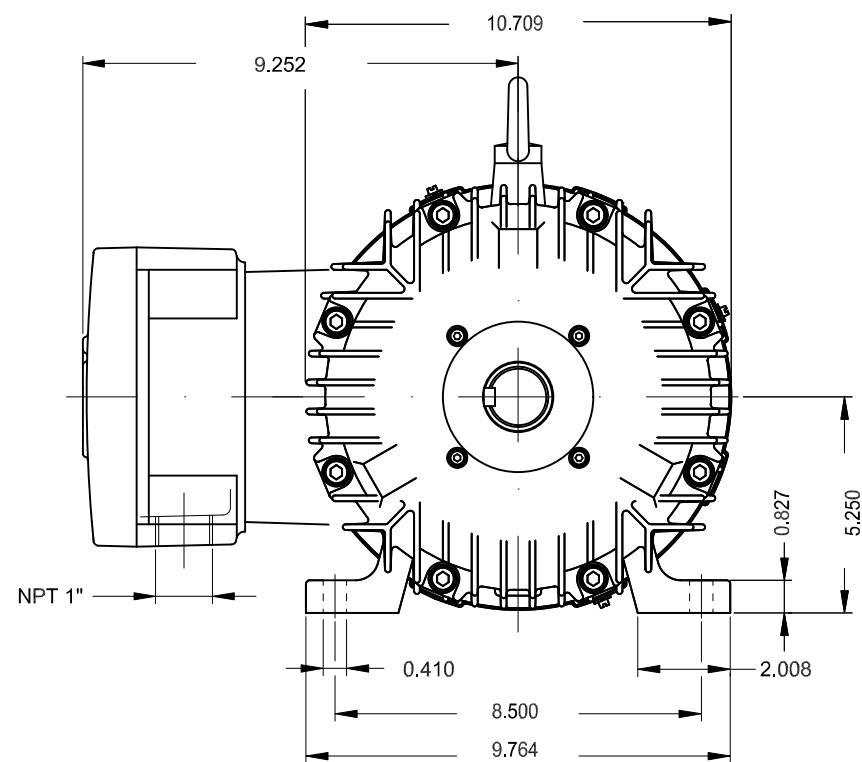
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	11/03/2025			
		Page		Revision
		1 / 2		

Customer :

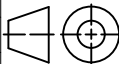
Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	11/03/2025				



Color RAL 5009
Painting plan 202P
Mounting NEMA F-1
Mounting B3R(D)

10 HP 02 Poles 60 Hz										A
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF. FRAME 213/5T IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE		WMO	Jaragua do Sul			Product Engineering	SHEET	1	/	1