

# DATA SHEET

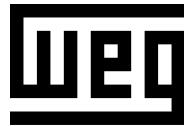
## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase		Product code :	12438187	
Frame	: 447/9TS	Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 300 HP (220 kW)	Temperature rise	: 80 K		
Poles	: 2	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 320 A	Protection degree	: IP55		
L. R. Amperes	: 2176 A	Cooling method	: IC411 - TEFC		
LRC	: 6.8x(Code G)	Mounting	: F-3		
No load current	: 65.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3570 rpm	Noise level <sup>2</sup>	: 81.0 dB(A)		
Slip	: 0.83 %	Starting method	: Direct On Line		
Rated torque	: 441 ft.lb	Approx. weight <sup>3</sup>	: 2587 lb		
Locked rotor torque	: 210 %				
Breakdown torque	: 240 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 58.1 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	95.3	95.0	95.4	95.4	
	95.3	95.3	95.4	95.4	Max. traction : 2000 lb
Power Factor	0.65	0.65	0.86	0.86	Max. compression : 4587 lb
	0.63	0.61	0.85	0.84	
	0.89	0.89	0.88	0.90	
	0.90	0.90	0.90	0.90	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.9	4.9	4.9	4.9
	P2 (0,5;1,0)	3.8	3.8	3.8	3.8
	P3 (0,25;1,0)	3.3	3.3	3.3	3.3
	P4 (0,9;0,5)	2.6	2.6	2.6	2.6
	P5 (0,5;0,5)	1.7	1.7	1.7	1.7
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6
Drive end			Non drive end		
Bearing type	: NU-314 C3		6314 C3		
Sealing	: WSeal		WSeal		
Lubrication interval	: 3000 h		7000 h		
Lubricant amount	: 27 g		27 g		
Lubricant type	Isoflex NBU-15				
Notes:					
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
(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.					
Rev.	Changes Summary			Performed	Checked
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Customer :

### Thermal protection

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

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Revision