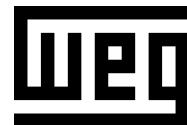


# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441311

Frame	: 254T	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 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	: 36.0/18.0 A	Protection degree	: IP55
L. R. Amperes	: 230/115 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 14.0/7.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1768 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Slip	: 1.78 %	Starting method	: Direct On Line
Rated torque	: 44.6 ft.lb	Approx. weight <sup>3</sup>	: 297 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.62 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	90.2	88.5	91.0	88.8	91.7	90.3	92.4
	88.1	87.6	88.6	88.3	90.3	90.3	90.6
	90.8	90.8	91.0	91.0	90.2	91.0	90.2
	90.8	91.0	91.0	91.0	91.0	91.0	91.0
Power Factor	0.44	0.40	0.68	0.65	0.78	0.77	0.83
	0.37	0.35	0.62	0.59	0.74	0.72	0.81
	0.49	0.46	0.74	0.71	0.82	0.80	0.86
	0.45	0.69	0.79	0.84			

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

	P1 (0,9;1,0)	8.1	8.1	8.1	8.1	8.1	8.1
	P2 (0,5;1,0)	6.8	6.8	6.8	6.8	6.8	6.8
	P3 (0,25;1,0)	6.3	6.3	6.3	6.3	6.3	6.3
	P4 (0,9;0,5)	3.9	3.9	3.9	3.9	3.9	3.9
	P5 (0,5;0,5)	2.7	2.7	2.7	2.7	2.7	2.7
	P6 (0,5;0,25)	1.8	1.8	1.8	1.8	1.8	1.8
Losses (%)	P7 (0,25;0,25)	1.2	1.2	1.2	1.2	1.2	1.2

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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						
Date	28/03/2024					
Page						Revision
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