

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency  
Three-Phase Product code : 11447448

Frame	: 143/5T	Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K		
Poles	: 4	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 1.62 A	Protection degree	: IP56		
L. R. Amperes	: 13.6 A	Cooling method	: IC411 - TEFC		
LRC	: 8.4x(Code L)	Mounting	: F-1		
No load current	: 0.880 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1755 rpm	Noise level <sup>2</sup>	: 51.0 dB(A)		
Slip	: 2.50 %	Starting method	: Direct On Line		
Rated torque	: 4.49 ft.lb	Approx. weight <sup>3</sup>	: 58.6 lb		
Locked rotor torque	: 290 %				
Breakdown torque	: 350 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 0.1431 sq.ft.lb				
Design	: B				
Output	25%	50%	75% 100%	Foundation loads	
Efficiency (%)	81.3	82.5	85.5	Max. traction	: 107 lb
Power Factor	0.35	0.60	0.70	Max. compression	: 166 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)
14.6	12.1	12.2	8.2	5.7	4.3	3.2
Drive end						Non drive end
						6204 2RS C3
						Inpro/Seal
						-
						-
						-
						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	29/03/2024			
			Page	Revision
			1 / 1	