

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase

Product code : 12822513

Frame	: 256TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 20 HP (15 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	: 47.4/23.7 A	Protection degree	: IP55
L. R. Amperes	: 285/142 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code G)	Mounting	: W-6
No load current	: 11.4/5.70 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 29.9 ft.lb	Approx. weight <sup>3</sup>	: 278 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.54 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.0	88.7	90.2	89.5	90.2	89.5	90.2	90.2	Max. traction	: 233 lb
	88.8	88.1	90.2	89.5	89.5	89.5	91.0	91.0		
Power Factor	0.56	0.57	0.78	0.81	0.85	0.87	0.88	0.90	Max. compression	: 511 lb
	0.54	0.52	0.78	0.76	0.86	0.85	0.89	0.88		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6309 C3	6209 C3
Sealing	:				V'Ring	V'Ring
Lubrication interval	:				9000 h	11000 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		Page 1 / 1		
Checked by				
Date	28/03/2024			
			Revision	