

# Three Phase Induction Motor - Squirrel Cage



Product line	: Close Coupled Pump High Efficiency Three-Phase	Product code :	12111023
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Frame	: 284JP	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 6	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	: IP23
L. R. Amperes	: 223/112 A	Cooling method	: IC01 - ODP
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 13.2/6.60 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level <sup>2</sup>	: 58.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 66.8 ft.lb	Approx. weight <sup>3</sup>	: 325 lb
Locked rotor torque	: 190 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 5.07 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	89.3	88.1	89.5	87.5	90.2	87.5	90.2	86.5	Max. traction	: 577 lb
	89.2	88.3	88.5	88.5	88.5	88.5	87.5	88.5		
Power Factor	0.47	0.52	0.72	0.75	0.81	0.83	0.85	0.85	Max. compression	: 902 lb
	0.49	0.47	0.73	0.72	0.82	0.80	0.84	0.84		

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6311 Z C3	6211 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	Mobil Polyrex EM	

Notes:

- (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	Revision
Checked by					
Date	26/03/2024				