

Three Phase Induction Motor - Squirrel Cage



Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 12549706

Frame	: 286JP	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 30 HP (22 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	: 71.2/35.6 A	Protection degree	: IP23
L. R. Amperes	: 434/217 A	Cooling method	: IC01 - ODP
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 28.0/14.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 89.0 ft.lb	Approx. weight ³	: 361 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.41 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	91.5	89.6	91.7	88.5	92.4	90.2	92.4	88.5	Max. traction	: 858 lb
	89.8	90.0	89.5	90.2	90.2	90.2	89.5	90.2		
Power Factor	0.46	0.54	0.72	0.78	0.81	0.84	0.84	0.86	Max. compression	: 1219 lb
	0.50	0.47	0.75	0.73	0.82	0.81	0.85	0.85		

	<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	28/03/2024				