

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 12382815

Frame	: 404/5JP	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 271/136 A	Protection degree	: IP23
L. R. Amperes	: 1628/814 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)	Mounting	: W-6
No load current	: 82.8/41.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 296 ft.lb	Approx. weight ³	: 869 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 18.3 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	93.5	93.6	94.1	94.1	Max. traction	: 1784 lb
Power Factor	0.50	0.74	0.82	0.85	Max. compression	: 2652 lb

	Drive end	Non drive end
Bearing type	: 6314 C3	6314 C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 19579 h	19579 h
Lubricant amount	: 27 g	27 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 Revision		
Checked by				
Date	26/03/2024			