

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump High Efficiency Three-Phase
Product code : 13549362
Catalog # : 10018OP3EFP404JPV

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	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 236/118 A	Protection degree	: IP23
L. R. Amperes	: 1416/708 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)	Mounting	: W-6
No load current	: 72.0/36.0 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	: 870 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	92.1	93.6	91.7	94.1	92.4	94.1	91.7	Max. traction	: 1815 lb
	92.1	92.2	91.7	92.4	92.4	92.4	91.7	92.4		
Power Factor	0.50	0.62	0.74	0.83	0.82	0.86	0.85	0.87	Max. compression	: 2684 lb
	0.58	0.53	0.82	0.76	0.85	0.83	0.87	0.85		

		<u>Drive end</u>	<u>Non drive end</u>
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		
Checked by				
Date	30/03/2024			
			Revision	