

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13469704

Catalog # : 10018OT3E404JPV

Frame : 404/5JP  
Output : 100 HP (75 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 226/113 A  
L. R. Amperes : 1514/757 A  
LRC : 6.7x(Code G)  
No load current : 84.0/42.0 A  
Rated speed : 1780 rpm  
Slip : 1.11 %  
Rated torque : 295 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 270 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 22.8 sq.ft.lb  
Design : B

Locked rotor time : 18s (cold) 10s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP23  
Cooling method : IC01 - ODP  
Mounting : W-6  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 69.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 961 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.9	91.4	95.0	92.2	95.4	93.9	95.4	94.6
	91.0	90.8	91.9	91.7	93.9	93.9	94.6	94.6
	93.7	93.7	93.9	93.9	94.0	94.0	94.1	94.1
	93.7		93.9		94.0		94.1	
Power Factor	0.49	0.48	0.77	0.75	0.84	0.85	0.87	0.89
	0.44	0.40	0.71	0.66	0.83	0.79	0.87	0.85
	0.58	0.53	0.84	0.80	0.88	0.87	0.89	0.88
	0.49		0.76		0.85		0.87	

Foundation loads  
Max. traction : 2711 lb  
Max. compression : 3673 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				
Checked by				
Date	28/03/2024			

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Revision