

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11699640

Catalog # : 10018OT3E404JM

Frame : 404/5JM
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 : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 988 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 : 2698 lb
Max. compression : 3686 lb

	Drive end	Non drive end
Bearing type :	6314 C3	6314 C3
Sealing :	Without Bearing Seal	Without Bearing Seal
Lubrication interval :	20000 h	20000 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