

Three Phase Induction Motor - Squirrel Cage



Product line	: Close Coupled Pump High Efficiency Three-Phase	Product code :	10793197
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Frame	: 364/5JM	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 85.3 A	Protection degree	: IP23
L. R. Amperes	: 537 A	Cooling method	: IC01 - ODP
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 27.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 221 ft.lb	Approx. weight ³	: 784 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 16.2 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	Max. traction : 1621 lb
	91.5	92.3	91.7	92.4	91.7	92.4	
Power Factor	0.50	0.59	0.74	0.82	0.82	0.88	Max. compression : 2405 lb
	0.55	0.51	0.79	0.76	0.86	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	20000 h	20000 h
Lubricant amount	27 g	27 g
Lubricant type	Mobil Polyrex EM	

- (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	Revision
Checked by				1 / 1	
Date	28/03/2024				