DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump High Efficiency Three-Phase

Product code : 10264919

Frame	: 364/5JP
Output	: 100 HP (75 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 230/115 A
L. R. Amperes	: 1403/702 A
LRC	: 6.1x(Code F)
No load current	: 60.0/30.0 A
Rated speed	: 3560 rpm
Slip	: 1.11 %
Rated torque	: 148 ft.lb
Locked rotor torque	: 190 %
Breakdown torque	: 270 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 7.88 sq.ft.lb
Design	: B

Locked rotor time	: 23s (cold) 13s (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	: 83.0 dB(A)
Starting method	: Direct On Line
Approx. weight³	: 801 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.9	92.1	93.0	91.7	93.0	92.4	93.0	91.7
	92.1	92.2	91.7	91.7	92.4	92.4	91.7	91.7
Power Factor	0.58	0.61	0.82	0.82	0.86	0.86	0.88	0.88
	0.58	0.55	0.80	0.79	0.85	0.85	0.87	0.87

Foundation loads

Max. traction : 1061 lb

Max. compression : 1862 lb

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	14418 h	14418 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			Page	Revision
Date	26/03/2024		1 / 1	

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