

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

13984666

Catalog # :

00209ET3YAL132S-W22

Frame : 132S
Output : 3 HP (2.2 kW)
Poles : 8
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 5.52 A
L. R. Amperes : 34.2 A
LRC : 6.2
No load current : 3.10 A
Rated speed : 715 rpm
Slip : 4.67 %
Rated torque : 22.0 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 1.64 sq.ft.lb
Design : N

Locked rotor time : 48s (cold) 27s (hot)
Temperature rise : 80 K
Duty cycle : S1
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : B3L(E)
Rotation¹ : Both (CW and CCW)
Noise level² : 48.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 136 lb

Output	25%		50%		75%		100%	
Efficiency (%)	80.3	80.3	81.0	81.2	81.5	82.3	81.9	82.9
	80.4		82.0		84.0		85.5	
Power Factor	0.32	0.27	0.54	0.48	0.67	0.61	0.74	0.69
	0.27		0.47		0.60		0.68	

Foundation loads
Max. traction : 226 lb
Max. compression : 362 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	20.9	19.5	16.0
	P2 (0,5;1,0)	17.3	16.1	13.2
	P3 (0,25;1,0)	16.5	15.4	12.7
	P4 (0,9;0,5)	12.5	11.6	9.6
	P5 (0,5;0,5)	8.9	8.3	6.8
	P6 (0,5;0,25)	7.1	6.6	5.4
	P7 (0,25;0,25)	5.4	5.1	4.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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	26/03/2024			
			Page	Revision
			1 / 1	