

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984833
Catalog # : 00412ET3YAL132M-W22

Frame	: 132M	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 5.5 HP (4 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 9.21 A	Protection degree	: IP55
L. R. Amperes	: 59.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3L(E)
No load current	: 4.70 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 955 rpm	Noise level ²	: 53.0 dB(A)
Slip	: 4.50 %	Starting method	: Direct On Line
Rated torque	: 30.2 ft.lb	Approx. weight ³	: 139 lb
Locked rotor torque	: 190 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.34 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	86.3	84.8	86.6	85.4	86.9	86.6	86.8	86.9	Max. traction	: 350 lb
	84.3		85.5		88.5		89.5			
Power Factor	0.34	0.29	0.57	0.50	0.70	0.63	0.76	0.71	Max. compression	: 489 lb
	0.29		0.50		0.63		0.71			

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

Losses (%)	P1 (0,9;1,0)	14.4	14.3	11.1
	P2 (0,5;1,0)	11.6	11.5	8.9
	P3 (0,25;1,0)	10.8	10.7	8.3
	P4 (0,9;0,5)	8.3	8.2	6.4
	P5 (0,5;0,5)	5.7	5.6	4.4
	P6 (0,5;0,25)	4.4	4.3	3.4
	P7 (0,25;0,25)	3.2	3.2	2.5

		Drive end	Non drive end
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	