

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

13983075

Catalog # :

00309ET3EAL132M-W22

Frame : 132M  
Output : 4 HP (3 kW)  
Poles : 8  
Frequency : 50 Hz  
Rated voltage : 380 V  
Rated current : 7.48 A  
L. R. Amperes : 47.9 A  
LRC : 6.4  
No load current : 4.40 A  
Rated speed : 710 rpm  
Slip : 5.33 %  
Rated torque : 29.6 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 250 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 1.99 sq.ft.lb  
Design : N

Locked rotor time : 37s (cold) 21s (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)  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 48.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 153 lb

Output	25%		50%		75%		100%	
Efficiency (%)	81.7	80.7	82.5	81.5	83.0	83.2	83.5	83.7
	81.9		83.5		85.0		86.5	
Power Factor	0.30	0.24	0.52	0.43	0.65	0.57	0.73	0.67
	0.25		0.45		0.58		0.67	

Foundation loads  
Max. traction : 386 lb  
Max. compression : 539 lb

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

Losses (%)	P1 (0,9;1,0)	18.7	18.4	14.8
	P2 (0,5;1,0)	15.3	15.1	12.1
	P3 (0,25;1,0)	14.5	14.3	11.4
	P4 (0,9;0,5)	11.5	11.4	9.1
	P5 (0,5;0,5)	8.2	8.1	6.5
	P6 (0,5;0,25)	6.7	6.6	5.3
	P7 (0,25;0,25)	5.1	5.1	4.1

		<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	