

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

14052066

Catalog # :

00412ET3YAL132MFF-W2

Frame : 132M
Output : 5.5 HP (4 kW)
Poles : 6
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 9.21 A
L. R. Amperes : 59.9 A
LRC : 6.5
No load current : 4.70 A
Rated speed : 955 rpm
Slip : 4.50 %
Rated torque : 30.2 ft.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

Locked rotor time : 54s (cold) 30s (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 : B35L(E)
Rotation¹ : Both (CW and CCW)
Noise level² : 53.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 151 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.3	84.8	86.6	85.4	86.9	86.6	86.8	86.9
	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
	0.29		0.50		0.63		0.71	

Foundation loads
Max. traction : 344 lb
Max. compression : 495 lb

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

		<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	