

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

14052065

Catalog # :

00436ET3YAL112MFF-W2

Frame : 112M
Output : 5.5 HP (4 kW)
Poles : 2
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 7.83 A
L. R. Amperes : 60.3 A
LRC : 7.7
No load current : 2.80 A
Rated speed : 2890 rpm
Slip : 3.67 %
Rated torque : 10.0 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.1898 sq.ft.lb
Design : N

Locked rotor time : 25s (cold) 14s (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 : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 86.8 lb

Output	25%		50%		75%		100%	
Efficiency (%)	87.7	86.9	88.0	87.5	88.2	88.0	88.2	88.4
	84.3		85.5		87.5		88.5	
Power Factor	0.48	0.41	0.73	0.65	0.83	0.77	0.88	0.84
	0.42		0.67		0.79		0.85	

Foundation loads
Max. traction : 188 lb
Max. compression : 275 lb

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

Losses (%)	P1 (0,9;1,0)	12.6	12.4	12.3
	P2 (0,5;1,0)	9.9	9.7	9.6
	P3 (0,25;1,0)	9.6	9.5	9.4
	P4 (0,9;0,5)	7.3	7.1	7.0
	P5 (0,5;0,5)	4.5	4.4	4.4
	P6 (0,5;0,25)	3.3	3.2	3.2
	P7 (0,25;0,25)	2.2	2.1	2.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6206 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	