

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984665  
Catalog # : 00159ET3YAL112M-W22

Frame	: 112M	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 4.02 A	Protection degree	: IP55
L. R. Amperes	: 20.1 A	Cooling method	: IC411 - TEFC
LRC	: 5.0	Mounting	: B3L(E)
No load current	: 2.40 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 700 rpm	Noise level <sup>2</sup>	: 46.0 dB(A)
Slip	: 6.67 %	Starting method	: Direct On Line
Rated torque	: 15.0 ft.lb	Approx. weight <sup>3</sup>	: 82.5 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.5648 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	78.3	76.9	79.0	77.9	79.5	80.2	79.8	80.8	Max. traction	: 192 lb
	73.6		77.0		80.0		84.0			
Power Factor	0.28	0.23	0.49	0.42	0.63	0.56	0.71	0.65	Max. compression	: 274 lb
	0.25		0.44		0.57		0.64			

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

Losses (%)	P1 (0,9;1,0)	24.2	22.7	18.2
	P2 (0,5;1,0)	21.1	19.8	15.9
	P3 (0,25;1,0)	21.1	19.8	15.9
	P4 (0,9;0,5)	14.8	13.9	11.2
	P5 (0,5;0,5)	11.5	10.8	8.7
	P6 (0,5;0,25)	9.4	8.9	7.1
	P7 (0,25;0,25)	7.6	7.1	5.7

		<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	