

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

13983077

Catalog # :

00336ET3EAL100L-W22

Frame : 100L  
Output : 4 HP (3 kW)  
Poles : 2  
Frequency : 50 Hz  
Rated voltage : 380 V  
Rated current : 6.02 A  
L. R. Amperes : 49.4 A  
LRC : 8.2  
No load current : 2.40 A  
Rated speed : 2900 rpm  
Slip : 3.33 %  
Rated torque : 7.24 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 0.1519 sq.ft.lb  
Design : N

Locked rotor time : 14s (cold) 8s (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> : 67.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 57.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	85.9	83.8	86.0	84.5	87.4	86.7	87.1	87.1
	80.5		82.5		86.5		88.5	
Power Factor	0.44	0.37	0.70	0.62	0.81	0.74	0.87	0.82
	0.40		0.64		0.76		0.82	

Foundation loads  
Max. traction : 171 lb  
Max. compression : 228 lb

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

Losses (%)	P1 (0,9;1,0)	13.7	13.7	12.0
	P2 (0,5;1,0)	10.2	10.2	9.0
	P3 (0,25;1,0)	9.6	9.6	8.4
	P4 (0,9;0,5)	9.2	9.2	8.0
	P5 (0,5;0,5)	5.6	5.6	4.9
	P6 (0,5;0,25)	4.6	4.6	4.1
	P7 (0,25;0,25)	3.0	3.0	2.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 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	