

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

13983169

Catalog # :

00418ET3EAL112M-W22

Frame : 112M
Output : 5.5 HP (4 kW)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 8.47 A
L. R. Amperes : 59.3 A
LRC : 7.0
No load current : 4.15 A
Rated speed : 1445 rpm
Slip : 3.67 %
Rated torque : 20.0 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.4312 sq.ft.lb
Design : N

Locked rotor time : 27s (cold) 15s (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)
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 88.0 lb

Output	25%		50%		75%		100%	
Efficiency (%)	89.4	87.6	89.3	88.2	89.0	88.9	88.6	89.3
	87.2		87.5		89.5		89.5	
Power Factor	0.39	0.32	0.65	0.57	0.76	0.70	0.81	0.77
	0.33		0.58		0.70		0.77	

Foundation loads
Max. traction : 325 lb
Max. compression : 413 lb

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

Losses (%)	P1 (0,9;1,0)	12.3	11.4	11.2
	P2 (0,5;1,0)	10.3	9.6	9.4
	P3 (0,25;1,0)	10.0	9.3	9.2
	P4 (0,9;0,5)	6.9	6.4	6.3
	P5 (0,5;0,5)	5.0	4.6	4.5
	P6 (0,5;0,25)	3.8	3.5	3.4
	P7 (0,25;0,25)	2.8	2.6	2.6

		<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	