

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase

Product code :

13984665

Catalog # :

00159ET3YAL112M-W22

Frame : 112M
 Output : 2 HP (1.5 kW)
 Poles : 8
 Frequency : 50 Hz
 Rated voltage : 380 V
 Rated current : 4.02 A
 L. R. Amperes : 20.1 A
 LRC : 5.0
 No load current : 2.40 A
 Rated speed : 700 rpm
 Slip : 6.67 %
 Rated torque : 15.0 ft.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

Locked rotor time : 50s (cold) 28s (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 : 46.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 82.5 lb

Output	25%	50%	75%	100%				
Efficiency (%)	78.3	76.9	79.0	77.9	79.5	80.2	79.8	80.8
Power Factor	0.28	0.23	0.49	0.42	0.63	0.56	0.71	0.65
	0.25	0.44	0.57	0.64				

Foundation loads
 Max. traction : 192 lb
 Max. compression : 274 lb

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

Losses (%)	P1 (0,9;1,0)		P2 (0,5;1,0)		P3 (0,25;1,0)		P4 (0,9;0,5)		P5 (0,5;0,5)		P6 (0,5;0,25)		P7 (0,25;0,25)					
	24.2	22.7	21.1	19.8	21.1	19.8	15.9	14.8	13.9	11.5	10.8	8.7	9.4	8.9	7.1	7.6	7.1	5.7
		18.2		15.9		15.9		11.2		8.7		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				Page	Revision
Date	26/03/2024			1 / 1	