

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13984835
Catalog # : 00418ET3YAL112M-W22

Frame : 112M	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B3L(E)
Duty cycle : S1	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ³ : 86.6 lb
Protection degree : IP55	Moment of inertia (J) : 0.4312 sq.ft.lb
Design : N	

Output [HP]	5.5	5.5	5.5	5.5
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	7.28	8.47	8.20	8.09
L. R. Amperes [A]	58.2	59.3	57.4	56.6
LRC [A]	8.0	7.0	7.0	7.0
No load current [A]	4.25	4.15	4.60	4.95
Rated speed [RPM]	1755	1445	1450	1455
Slip [%]	2.50	3.67	3.33	3.00
Rated torque [ft.lb]	16.2	19.7	19.7	19.6
Locked rotor torque [%]	250	200	229	260
Breakdown torque [%]	350	270	310	340
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	34s (cold) 19s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%	87.2	89.4	88.4
	50%	87.5	89.3	88.7
	75%	89.5	89.0	89.1
	100%	89.5	88.6	89.1
Power Factor	25%	0.33	0.39	0.34
	50%	0.58	0.65	0.60
	75%	0.70	0.76	0.72
	100%	0.77	0.81	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 ZZ	6206 ZZ	Max. traction : 389 lb
Sealing :	V'Ring	V'Ring	Max. compression : 476 lb
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	22/01/2018			

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Revision