

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13983073
Catalog # : 00218ET3EAL100L-W22

Frame : 100L	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 : 61.9 lb
Protection degree : IP55	Moment of inertia (J) : 0.2136 sq.ft.lb
Design : N	

Output [HP]	3	3	3	3
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	8.22/4.11	4.88	4.87	4.87
L. R. Amperes [A]	74.0/37.0	36.1	39.4	40.9
LRC [A]	9.0	7.4	8.1	8.4
No load current [A]	5.20/2.60	2.60	2.90	3.10
Rated speed [RPM]	1750	1435	1440	1445
Slip [%]	2.78	4.33	4.00	3.67
Rated torque [ft.lb]	8.88	10.9	10.8	10.8
Locked rotor torque [%]	380	280	370	409
Breakdown torque [%]	370	300	360	400
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²		53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	85.2	87.2	85.0
	50%	86.6	87.2	85.7
	75%	88.2	87.1	86.8
	100%	89.5	86.7	87.2
Power Factor	25%	0.30	0.33	0.28
	50%	0.54	0.57	0.49
	75%	0.67	0.70	0.63
	100%	0.75	0.79	0.72

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6206 ZZ	6205 ZZ	Max. traction : 301 lb
Sealing :	V'Ring	V'Ring	Max. compression : 363 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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