

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13984023
Catalog # : 00318ET3WAL100L-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 : 76.5 lb
Protection degree : IP55	Moment of inertia (J) : 0.2848 sq.ft.lb
Design : N	

Output [HP]	4	4	4	4
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	220/380	400	240/415
Rated current [A]	5.33	10.8/6.26	6.15	10.5/6.07
L. R. Amperes [A]	45.8	84.3/48.8	48.0	81.9/47.3
LRC [A]	8.6	7.8	7.8	7.8
No load current [A]	3.20	5.53/3.20	3.50	6.57/3.80
Rated speed [RPM]	1740	1430	1440	1445
Slip [%]	3.33	4.67	4.00	3.67
Rated torque [ft.lb]	11.9	14.5	14.4	14.3
Locked rotor torque [%]	459	310	350	380
Breakdown torque [%]	480	330	370	400
Service factor	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	23s (cold) 13s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	54.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	81.3	87.6	86.6
	50%	84.0	87.7	87.0
	75%	86.5	88.0	88.0
	100%	89.5	87.7	88.0
Power Factor	25%	0.34	0.38	0.34
	50%	0.59	0.65	0.60
	75%	0.71	0.77	0.73
	100%	0.79	0.83	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6206 ZZ	6206 ZZ	Max. traction : 404 lb
Sealing :	V'Ring	V'Ring	Max. compression : 481 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