

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13034186
Catalog # : 18512ET3Y355M/L-W22

Frame : 355M/L	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 : 3674 lb
Protection degree : IP55	Moment of inertia (J) : 264 sq.ft.lb
Design : N	

Output [HP]	250	250	250	250
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	311	363	353	349
L. R. Amperes [A]	2208	2396	2330	2303
LRC [A]	7.1	6.6	6.6	6.6
No load current [A]	154	148	160	170
Rated speed [RPM]	1195	990	990	990
Slip [%]	0.42	1.00	1.00	1.00
Rated torque [ft.lb]	1080	1310	1310	1310
Locked rotor torque [%]	250	190	220	240
Breakdown torque [%]	290	220	240	260
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	86s (cold) 48s (hot)	61s (cold) 34s (hot)	61s (cold) 34s (hot)	61s (cold) 34s (hot)
Noise level ²	77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%	93.8	95.3	94.6
	50%	94.3	95.4	94.9
	75%	95.4	95.8	95.6
	100%	95.8	95.8	95.8
Power Factor	25%	0.36	0.42	0.39
	50%	0.60	0.68	0.64
	75%	0.72	0.77	0.74
	100%	0.78	0.81	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6322 C3	6319 C3	Max. traction : 5052 lb
Sealing :	WSeal	WSeal	Max. compression : 8726 lb
Lubrication interval :	11000 h	13000 h	
Lubricant amount :	60 g	45 g	
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