

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 True Metric IE3 Three-Phase Product code : 13533737  
Catalog # : 33018ET3Y355M/L-W22

Frame : 355M/L	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : B3L(E)
Duty cycle : S1	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>2</sup> : 4600 lb
Protection degree : IP55	Moment of inertia (J)
Design : N	

Output [HP]	450	450	450
Poles	4	4	4
Frequency [Hz]	50	50	60
Rated voltage [V]	380	415	460
Rated current [A]	595	557	505
L. R. Amperes [A]	4582	4289	4192
LRC [A]	7.7	7.7	8.3
No load current [A]	170	195	171
Rated speed [RPM]	1491	1493	1793
Slip [%]	0.60	0.47	0.39
Rated torque [ft.lb]	1560	1560	1300
Locked rotor torque [%]	235	275	285
Breakdown torque [%]	235	285	305
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	66s (cold) 37s (hot)
Noise level <sup>2</sup>	74.0 dB(A)	74.0 dB(A)	78.0 dB(A)
Efficiency (%)	25%	96.3	95.9
	50%	96.4	96.2
	75%	96.8	96.8
	100%	96.8	97.0
Power Factor	25%	0.53	0.46
	50%	0.75	0.69
	75%	0.85	0.81
	100%	0.87	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6322 C3	6319 C3	Max. traction : 5624 lb
Sealing :	WSeal	WSeal	Max. compression : 10224 lb
Lubrication interval :	6000 h	8000 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		Page 1 / 1		
Checked by				
Date	22/01/2018			