

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11681853  
Catalog # : 05536ET3Y250S/M-W22

Frame : 250S/M	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 : m.a.s.l.	Approx. weight <sup>2</sup> : lb
Protection degree : IP55	Moment of inertia (J) : sq.ft.lb
Design : N	

Output [HP]				
Poles				
Frequency [Hz]				
Rated voltage [V]				
Rated current [A]	81.4	97.6	94.8	92.4
L. R. Amperes [A]	700	810	787	767
LRC [A]				
No load current [A]				
Rated speed [RPM]				
Slip [%]	0.83	1.33	1.17	1.17
Rated torque [ft.lb]	109	131	131	131
Locked rotor torque [%]				
Breakdown torque [%]	370	260	290	310
Service factor				
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time				
Noise level <sup>2</sup>	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
Efficiency (%)	25%	93.5	94.7	94.8
	50%	93.6	94.9	94.9
	75%	94.2	95.0	95.2
	100%	94.2	95.1	95.2
Power Factor	25%	0.54	0.59	0.56
	50%	0.80	0.82	0.80
	75%	0.87	0.87	0.86
	100%	0.90	0.89	0.88

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 663 lb
Sealing :	WSeal	WSeal	Max. compression : 1809 lb
Lubrication interval :	4000 h	4000 h	
Lubricant amount :	27 g	27 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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