

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11974205  
Catalog # : 03012ET3Y225S/M-W22

Frame : 225S/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 : 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 946 lb
Protection degree : IP55	Moment of inertia (J) : 30.6 sq.ft.lb
Design : N	

Output [HP]	40	40	40	40
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	47.6	56.6	54.2	52.7
L. R. Amperes [A]	367	419	401	390
LRC [A]	7.7	7.4	7.4	7.4
No load current [A]	20.9	20.6	22.0	23.3
Rated speed [RPM]	1185	980	985	985
Slip [%]	1.25	2.00	1.50	1.50
Rated torque [ft.lb]	175	211	210	210
Locked rotor torque [%]	270	200	229	250
Breakdown torque [%]	330	250	280	300
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	54s (cold) 30s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)
Noise level <sup>2</sup>	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	92.8	93.8	93.6
	50%	93.0	93.8	93.7
	75%	94.1	93.8	94.0
	100%	94.1	93.6	94.0
Power Factor	25%	0.41	0.47	0.44
	50%	0.67	0.73	0.70
	75%	0.78	0.82	0.80
	100%	0.84	0.86	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 1717 lb
Sealing :	WSeal	WSeal	Max. compression : 2663 lb
Lubrication interval :	17000 h	17000 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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Revision