

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11567431  
Catalog # : 02212ET3Y200L-W22

Frame : 200L	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> : 562 lb
Protection degree : IP55	Moment of inertia (J) : 10.8 sq.ft.lb
Design : N	

Output [HP]	30	30	30	30
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	37.1	42.9	41.7	41.2
L. R. Amperes [A]	267	270	263	260
LRC [A]	7.2	6.3	6.3	6.3
No load current [A]	18.4	18.2	20.0	21.6
Rated speed [RPM]	1180	980	980	980
Slip [%]	1.67	2.00	2.00	2.00
Rated torque [ft.lb]	132	159	159	159
Locked rotor torque [%]	280	200	229	250
Breakdown torque [%]	330	260	290	320
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level <sup>2</sup>	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	91.0	92.3	91.5
	50%	91.7	92.5	92.0
	75%	92.4	92.7	92.6
	100%	93.0	92.7	92.9
Power Factor	25%	0.37	0.43	0.39
	50%	0.62	0.69	0.65
	75%	0.74	0.79	0.76
	100%	0.80	0.84	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312 C3	6212 C3	Max. traction : 1690 lb
Sealing :	V'Ring	V'Ring	Max. compression : 2252 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	21 g	13 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