

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11767240
Catalog # : 13212ET3Y315S/M-W22

Frame : 315S/M	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 ² : 2848 lb
Protection degree : IP55	Moment of inertia (J) : 121 sq.ft.lb
Design : N	

Output [HP]	175	175	175	175
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	214	248	241	235
L. R. Amperes [A]	1541	1786	1735	1692
LRC [A]	7.2	7.2	7.2	7.2
No load current [A]	99.5	98.7	106	112
Rated speed [RPM]	1190	990	990	990
Slip [%]	0.83	1.00	1.00	1.00
Rated torque [ft.lb]	762	916	916	916
Locked rotor torque [%]	290	220	250	270
Breakdown torque [%]	320	240	270	290
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	82s (cold) 46s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)
Noise level ²	70.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%	94.9	95.7	95.3
	50%	95.0	95.8	95.6
	75%	95.8	96.1	96.1
	100%	95.8	96.1	96.3
Power Factor	25%	0.38	0.44	0.41
	50%	0.63	0.71	0.67
	75%	0.75	0.80	0.77
	100%	0.81	0.84	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6319 C3	6316 C3	Max. traction : 5035 lb
Sealing :	WSeal	WSeal	Max. compression : 7883 lb
Lubrication interval :	13000 h	16000 h	
Lubricant amount :	45 g	34 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