

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11567403
Catalog # : 13218ET3Y315S/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 ³ : 2635 lb
Protection degree : IP55	Moment of inertia (J) : 69.7 sq.ft.lb
Design : N	

Output [HP]	175	175	175	175
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	203	239	230	224
L. R. Amperes [A]	1604	1816	1748	1702
LRC [A]	7.9	7.6	7.6	7.6
No load current [A]	77.6	74.7	80.0	84.7
Rated speed [RPM]	1790	1490	1490	1490
Slip [%]	0.56	0.67	0.67	0.67
Rated torque [ft.lb]	507	608	608	608
Locked rotor torque [%]	310	220	250	270
Breakdown torque [%]	330	229	260	280
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	102s (cold) 57s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)
Noise level ²	75.0 dB(A)	71.0 dB(A)	71.0 dB(A)	71.0 dB(A)
Efficiency (%)	25%	93.3	95.2	95.0
	50%	94.1	95.6	95.5
	75%	95.4	96.0	96.0
	100%	96.2	96.3	96.4
Power Factor	25%	0.46	0.52	0.49
	50%	0.72	0.78	0.75
	75%	0.81	0.85	0.83
	100%	0.85	0.87	0.86

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6319 C3	6316 C3	Max. traction : 2826 lb
Sealing :	WSeal	WSeal	Max. compression : 5461 lb
Lubrication interval :	8000 h	10000 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