

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11586759
Catalog # : 04518ET3Y225S/M-W22

Frame : 225S/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 : 964 lb
Protection degree : IP55	Moment of inertia (J) : 22.6 sq.ft.lb
Design : N	

Output [HP]	60	60	60	60
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	69.9	83.9	79.4	78.6
L. R. Amperes [A]	573	663	627	621
LRC [A]	8.2	7.9	7.9	7.9
No load current [A]	29.8	29.8	32.0	33.9
Rated speed [RPM]	1780	1475	1480	1480
Slip [%]	1.11	1.67	1.33	1.33
Rated torque [ft.lb]	175	211	210	210
Locked rotor torque [%]	320	250	280	310
Breakdown torque [%]	370	270	320	330
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	43s (cold) 24s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²	67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	93.0	94.1	94.0
	50%	93.6	94.3	94.2
	75%	94.5	94.7	94.8
	100%	95.0	94.7	94.8
Power Factor	25%	0.42	0.49	0.44
	50%	0.69	0.77	0.70
	75%	0.79	0.82	0.80
	100%	0.85	0.86	0.85

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 1923 lb
Sealing :	WSeal	WSeal	Max. compression : 2887 lb
Lubrication interval :	12000 h	12000 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