DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13034281
Catalog # : 02209ET3Y225S/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]	: 874 lb
Protection degree	: IP55	Moment of inertia (J)	: 30.6 sq.ft.lb
Design	: N		

Output [HP]		30	30	30	30
Poles		8	8	8	8
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		37.7	45.3	42.8	42.2
L. R. Amperes [A]		249	236	248	274
LRC [A]		6.6	5.2	5.8	6.5
No load current [A]		16.5	16.5	17.5	18.5
Rated speed [RPM]		885	730	730	735
Slip [%]		1.67	2.67	2.67	2.00
Rated torque [ft.lb]		176	213	213	211
Locked rotor torque [%]		150	130	150	170
Breakdown torque [%]		240	180	210	229
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		68s (cold) 38s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)
Noise level[2]		60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	92.0	90.0	90.5	90.8
	50%	92.4	90.5	91.0	91.2
	75%	92.5	90.7	91.2	91.4
	100%	92.8	91.0	91.5	91.7
Power Factor	25%	0.37	0.44	0.40	0.38
	50%	0.59	0.67	0.63	0.60
	75%	0.71	0.78	0.75	0.73
	100%	0.79	0.81	0.81	0.79

	Drive end	Non drive end
Bearing type	6314 C3	6314 C3
Sealing	WSeal	WSeal
Lubrication interval	20000 h	20000 h
Lubricant amount	27 g	27 g
Lubricant type	Mobil Polyrex EM	

Foundation loads
Max. traction : 1251 lb
Max. compression : 2124 lb

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			Page	Revision
Date	22/01/2018		1 / 1	