DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984837
Catalog # : 00436ET3YAL112M-W22

Frame	: 112M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3L(E)
Duty cycle	: S1	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 79.4 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1898 sq.ft.lb
Design	: N		

Output [HP]		5.5	5.5	5.5	5.5
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		6.67	7.75	7.50	7.39
L. R. Amperes [A]		57.4	59.7	57.7	56.9
LRC [A]		8.6	7.7	7.7	7.7
No load current [A]		2.30	2.20	2.60	2.90
Rated speed [RPM]		3505	2890	2900	2905
Slip [%]		2.64	3.67	3.33	3.17
Rated torque [ft.lb]		8.13	9.86	9.83	9.81
Locked rotor torque [%]		310	260	290	320
Breakdown torque [%]		440	310	350	380
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)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)
Noise level²		64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%	84.3	88.4	87.4	86.7
	50%	85.5	88.6	88.1	87.5
	75%	87.5	89.2	89.1	89.0
	100%	88.5	89.1	89.5	89.6
Power Factor	25%	0.46	0.51	0.46	0.42
	50%	0.67	0.73	0.69	0.65
	75%	0.79	0.83	0.80	0.77
	100%	0.85	0.88	0.86	0.84

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 202 lb
Max. compression : 282 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	