DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting High Efficiency Three-Phase

Product code : 13983027

Catalog # : .5512EP3EAL80-W22

Frame	: 80	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	: 0.0 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0738 sq.ft.lb
Design	: N		

Output [HP]		0.75	0.75	0.75	0.75
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		3.18/1.59	1.50	1.53	1.59
L. R. Amperes [A]		16.5/8.27	7.95	8.11	8.43
LRC [A]		5.2	5.3	5.3	5.3
No load current [A]		2.52/1.26	1.30	1.40	1.50
Rated speed [RPM]		1135	910	920	930
Slip [%]		5.42	9.00	8.00	7.00
Rated torque [ft.lb]		3.42	4.27	4.22	4.18
Locked rotor torque [%]		330	200	210	220
Breakdown torque [%]		320	210	220	229
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level²		47.0 dB(A)	43.0 dB(A)	43.0 dB(A)	43.0 dB(A)
Efficiency (%)	25%	52.8	65.6	65.7	65.7
	50%	56.5	68.5	68.5	68.5
	75%	63.0	70.0	70.0	70.0
	100%	68.0	73.1	73.1	73.1
Power Factor	25%	0.25	0.28	0.25	0.23
	50%	0.44	0.53	0.49	0.44
	75%	0.55	0.67	0.64	0.60
	100%	0.64	0.76	0.71	0.66

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	Oil Seal	Oil Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 94 lb

Max. compression : 94 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	