

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency
Three-Phase

Product code : 13958123

Catalog # : .3712EP3EAL80-W22

Frame	: 80	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 ²	: 26.2 lb
Protection degree	: IP55	Moment of inertia (J)	
Design	: N		

Output [HP]	0.5	0.5	0.5
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	380	415
Rated current [A]	2.14/1.07	1.16	1.19
L. R. Amperes [A]	10.7/5.35	6.03	6.19
LRC [A]	5.0	5.2	5.2
No load current [A]	1.52/0.760	0.650	0.750
Rated speed [RPM]	1135	920	930
Slip [%]	5.42	8.00	7.00
Rated torque [ft.lb]	2.28	2.82	2.79
Locked rotor torque [%]	290	160	180
Breakdown torque [%]	300	200	220
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level ²	47.0 dB(A)	43.0 dB(A)	43.0 dB(A)
Efficiency (%)	25%	55.7	62.3
	50%	57.0	64.0
	75%	63.0	68.5
	100%	64.0	70.0
Power Factor	25%	0.27	0.30
	50%	0.48	0.48
	75%	0.60	0.63
	100%	0.68	0.69

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6204 ZZ	6203 ZZ	Max. traction : 46 lb
Sealing	: Oil Seal	Oil Seal	Max. compression : 72 lb
Lubrication interval	: -	-	
Lubricant amount	: -	-	
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			
			Page	Revision
			1 / 1	