

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency
Three-Phase

Product code : 13982681

Catalog # : .1818EP3EAL63-W22

Frame	: 63	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	: 15.3 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0133 sq.ft.lb
Design	: N		

Output [HP]	0.25	0.25	0.25	0.25
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	1.02/0.512	0.551	0.554	0.567
L. R. Amperes [A]	4.71/2.36	2.53	2.55	2.61
LRC [A]	4.6	4.6	4.6	4.6
No load current [A]	0.800/0.400	0.400	0.450	0.500
Rated speed [RPM]	1710	1390	1400	1410
Slip [%]	5.00	7.33	6.67	6.00
Rated torque [ft.lb]	0.757	0.932	0.925	0.919
Locked rotor torque [%]	280	200	229	260
Breakdown torque [%]	290	210	240	270
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	34s (cold) 19s (hot)	34s (cold) 19s (hot)	34s (cold) 19s (hot)	34s (cold) 19s (hot)
Noise level ²	48.0 dB(A)	44.0 dB(A)	44.0 dB(A)	44.0 dB(A)
Efficiency (%)	25%	61.0	61.0	59.5
	50%	63.0	63.0	61.5
	75%	67.0	66.0	66.0
	100%	69.0	68.0	68.0
Power Factor	25%	0.23	0.28	0.25
	50%	0.42	0.50	0.46
	75%	0.54	0.63	0.59
	100%	0.64	0.73	0.69

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6201 ZZ	6201 ZZ	Max. traction	: 22 lb
Sealing	: Oil Seal	Oil Seal	Max. compression	: 38 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	