

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency  
Three-Phase

Product code : 13983265

Catalog # : .3709EP3WAL90S/L-W22

Frame	: 90S/L	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3L(E)
Duty cycle	: S1	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 0.0 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1063 sq.ft.lb
Design	: N		

Output [HP]	0.5	0.5	0.5	0.5
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	220/380	400	240/415
Rated current [A]	1.35	2.50/1.45	1.42	2.46/1.42
L. R. Amperes [A]	5.94	11.3/6.52	6.39	11.0/6.39
LRC [A]	4.4	4.5	4.5	4.5
No load current [A]	1.07	1.21/0.700	0.750	1.38/0.800
Rated speed [RPM]	840	680	685	690
Slip [%]	6.67	9.33	8.67	8.00
Rated torque [ft.lb]	3.08	3.81	3.78	3.75
Locked rotor torque [%]	229	220	229	240
Breakdown torque [%]	250	220	240	250
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>	47.0 dB(A)	43.0 dB(A)	43.0 dB(A)	43.0 dB(A)
Efficiency (%)	25%	56.2	52.9	51.3
	50%	56.5	55.0	53.5
	75%	62.0	64.9	64.5
	100%	61.5	67.0	67.0
Power Factor	25%	0.19	0.29	0.27
	50%	0.36	0.44	0.40
	75%	0.46	0.52	0.50
	100%	0.56	0.58	0.56

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6205 ZZ	6204 ZZ	Max. traction	: 82 lb
Sealing	: Oil Seal	Oil Seal	Max. compression	: 82 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	