

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13983068
Catalog # : .7518ET3EAL90S/L-W22

Frame : 90S/L	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 ³ : 0.0 lb
Protection degree : IP55	Moment of inertia (J) : 0.1163 sq.ft.lb
Design : N	

Output [HP]	1	1	1	1
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	2.96/1.48	1.70	1.66	1.64
L. R. Amperes [A]	25.5/12.7	13.3	12.9	12.8
LRC [A]	8.6	7.8	7.8	7.8
No load current [A]	1.78/0.890	0.870	0.950	1.00
Rated speed [RPM]	1760	1450	1455	1460
Slip [%]	2.22	3.33	3.00	2.67
Rated torque [ft.lb]	2.94	3.57	3.56	3.55
Locked rotor torque [%]	280	210	240	260
Breakdown torque [%]	390	290	330	360
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)
Noise level ²	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	79.1	83.0	81.8
	50%	80.0	83.2	82.5
	75%	84.5	84.1	84.0
	100%	85.0	84.0	84.5
Power Factor	25%	0.30	0.35	0.32
	50%	0.52	0.59	0.55
	75%	0.66	0.72	0.69
	100%	0.75	0.80	0.77

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6205 ZZ	6204 ZZ	Max. traction : 112 lb
Sealing :	V'Ring	V'Ring	Max. compression : 112 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	