

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13983023
Catalog # : .7512ET3EAL90S-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 : 48.2 lb
Protection degree : IP55	Moment of inertia (J) : 0.1561 sq.ft.lb
Design : N	

Output [HP]	1	1	1	1
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	3.36/1.68	1.90	1.87	1.84
L. R. Amperes [A]	21.5/10.8	9.50	10.3	10.7
LRC [A]	6.4	5.0	5.5	5.8
No load current [A]	2.46/1.23	1.21	1.32	1.40
Rated speed [RPM]	1155	940	945	950
Slip [%]	3.75	6.00	5.50	5.00
Rated torque [ft.lb]	4.49	5.51	5.48	5.45
Locked rotor torque [%]	300	220	260	290
Breakdown torque [%]	350	250	300	330
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	64s (cold) 36s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)
Noise level ²	49.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)
Efficiency (%)	25%	75.7	79.0	77.5
	50%	77.0	78.9	78.0
	75%	81.5	80.5	80.5
	100%	82.5	79.8	80.5
Power Factor	25%	0.25	0.29	0.27
	50%	0.46	0.52	0.49
	75%	0.59	0.67	0.63
	100%	0.68	0.75	0.72

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6205 ZZ	6204 ZZ	Max. traction : 134 lb
Sealing :	V'Ring	V'Ring	Max. compression : 182 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			

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Revision