

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13958269
Catalog # : 00158ET3EAL90L-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 ²	: 46.1 lb
Protection degree	: IP55	Moment of inertia (J)	
Design	: N		

Output [HP]	2	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	380	415
Rated current [A]	6.17-5.58/2.79	3.21	3.15
L. R. Amperes [A]	51.2-46.3/23.2	23.8	23.3
LRC [A]	8.3	7.4	7.4
No load current [A]	0.000-3.36/1.68	1.70	2.00
Rated speed [RPM]	1755	1445	1454
Slip [%]	2.50	3.67	3.07
Rated torque [ft.lb]	5.90	7.17	7.13
Locked rotor torque [%]	300	229	280
Breakdown torque [%]	400	300	370
Service factor	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	81.3	82.4
	50%	82.5	83.1
	75%	85.5	85.7
	100%	86.5	86.1
Power Factor	25%	0.51	0.30
	50%	0.56	0.54
	75%	0.69	0.68
	100%	0.78	0.77

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6205 ZZ	6204 ZZ	Max. traction : 206 lb
Sealing	: V'Ring	V'Ring	Max. compression : 252 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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