

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984002
Catalog # : 7518ET3WAL90S/L-W22

Frame	: 90S/L	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 220/380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.02/1.75 A	Protection degree	: IP55
L. R. Amperes	: 19.3/11.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.4	Mounting	: B3L(E)
No load current	: 1.64/0.950 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1445 rpm	Noise level ²	: 49.0 dB(A)
Slip	: 3.67 %	Starting method	: Direct On Line
Rated torque	: 3.63 ft.lb	Approx. weight ³	: 34.4 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1163 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.7	79.2	82.0	80.0	82.5	82.0	82.5	82.5	Max. traction	: 76 lb
	78.4		80.0		84.0		85.5			
Power Factor	0.34	0.28	0.58	0.50	0.71	0.63	0.79	0.73	Max. compression	: 110 lb
	0.29		0.51		0.65		0.74			

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	19.7	19.7	17.7
	P2 (0,5;1,0)	15.6	15.6	14.0
	P3 (0,25;1,0)	15.3	15.3	13.7
	P4 (0,9;0,5)	12.7	12.7	11.4
	P5 (0,5;0,5)	8.6	8.6	7.7
	P6 (0,5;0,25)	7.2	7.2	6.4
	P7 (0,25;0,25)	5.3	5.3	4.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
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		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	