

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984015
Catalog # : 00218ET3WAL100L-W22

Frame	: 100L	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 3 HP (2.2 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	: 8.43/4.88 A	Protection degree	: IP55
L. R. Amperes	: 62.4/36.1 A	Cooling method	: IC411 - TEFC
LRC	: 7.4	Mounting	: B3L(E)
No load current	: 3.80/2.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1425 rpm	Noise level ²	: 53.0 dB(A)
Slip	: 5.00 %	Starting method	: Direct On Line
Rated torque	: 11.1 ft.lb	Approx. weight ³	: 61.1 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2136 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	87.2	85.0	87.2	85.7	87.1	86.8	86.7	87.2	Max. traction	: 223 lb
	85.2		86.6		88.2		89.5			
Power Factor	0.35	0.30	0.57	0.49	0.70	0.63	0.79	0.72	Max. compression	: 285 lb
	0.32		0.54		0.67		0.75			

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

Losses (%)	P1 (0,9;1,0)	14.4	13.8	11.0
	P2 (0,5;1,0)	11.6	11.1	8.9
	P3 (0,25;1,0)	11.1	10.7	8.5
	P4 (0,9;0,5)	8.2	7.9	6.3
	P5 (0,5;0,5)	5.5	5.3	4.2
	P6 (0,5;0,25)	4.1	4.0	3.2
	P7 (0,25;0,25)	3.0	2.8	2.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 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				
Checked by				
Date	26/03/2024			
			Page	Revision
			1 / 1	