

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

16993739

Catalog # :

01812ET3E200LF3-W22

Frame	: 200L	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 37.2 A	Protection degree	: IP55
L. R. Amperes	: 208 A	Cooling method	: IC411 - TEFC
LRC	: 5.6	Mounting	: B3T
No load current	: 14.6 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 979 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 2.10 %	Starting method	: Direct On Line
Rated torque	: 134 ft.lb	Approx. weight ³	: 492 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 9.16 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	92.2	90.6	92.2	91.2	92.4	92.1	92.2	92.6	Max. traction	: 1289 lb
	89.7		91.0		91.7		93.0			
Power Factor	0.43	0.36	0.68	0.60	0.79	0.73	0.82	0.78	Max. compression	: 1781 lb
	0.37		0.61		0.73		0.79			

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

Losses (%)	P1 (0,9;1,0)	8.1	7.7	7.2
	P2 (0,5;1,0)	6.2	5.9	5.6
	P3 (0,25;1,0)	5.6	5.3	5.0
	P4 (0,9;0,5)	4.7	4.4	4.2
	P5 (0,5;0,5)	3.0	2.8	2.7
	P6 (0,5;0,25)	2.3	2.1	2.0
	P7 (0,25;0,25)	1.5	1.4	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
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	