

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 13034308
Catalog # : 13209ET3Y315L-W22

Frame	: 315L	Locked rotor time	: 61s (cold) 34s (hot)
Output	: 175 HP (132 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 260 A	Protection degree	: IP55
L. R. Amperes	: 1560 A	Cooling method	: IC411 - TEFC
LRC	: 6.0	Mounting	: B3L(E)
No load current	: 106 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 740 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 1240 ft.lb	Approx. weight ³	: 3325 lb
Locked rotor torque	: 170 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 313 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.5 95.1	95.6 95.6	95.4 95.8	Max. traction	: 4989 lb
	95.0	95.4	95.4		
Power Factor	0.68 0.61	0.77 0.72	0.81 0.78	Max. compression	: 8314 lb
	0.60	0.72	0.78		

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

Losses (%)	P1 (0,9;1,0)	4.9	4.4	4.9
	P2 (0,5;1,0)	3.6	3.3	3.6
	P3 (0,25;1,0)	3.0	2.7	3.0
	P4 (0,9;0,5)	2.9	2.6	2.9
	P5 (0,5;0,5)	1.9	1.7	1.9
	P6 (0,5;0,25)	1.5	1.3	1.5
	P7 (0,25;0,25)	0.9	0.8	0.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	17000 h	20000 h
Lubricant amount	:	45 g	34 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	