

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE2 Three-Phase

Product code : 12324563

Frame	: 315S/M	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 338 A	Protection degree	: IP55
L. R. Amperes	: 2298 A	Cooling method	: IC411 - TEFC
LRC	: 6.8	Mounting	: B3L(E)
No load current	: 102 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1485 rpm	Noise level <sup>2</sup>	: 71.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 884 ft.lb	Approx. weight <sup>3</sup>	: 2569 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 65.9 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	95.1	94.5	95.1	94.7	95.6	95.5	95.5	95.6	Max. traction	: 3467 lb
	93.6		94.1		95.0		95.4			
Power Factor	0.54	0.46	0.79	0.72	0.85	0.81	0.87	0.85	Max. compression	: 6035 lb
	0.47		0.72		0.83		0.86			

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

Losses (%)	P1 (0,9;1,0)	4.9	4.8	5.0
	P2 (0,5;1,0)	3.3	3.2	3.4
	P3 (0,25;1,0)	2.5	2.5	2.6
	P4 (0,9;0,5)	3.3	3.2	3.3
	P5 (0,5;0,5)	1.9	1.8	1.9
	P6 (0,5;0,25)	1.5	1.5	1.6
	P7 (0,25;0,25)	0.8	0.8	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	8000 h	10000 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		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	