

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

13034282

Catalog # :

03009ET3Y250S/M-W22

Frame	: 250S/M	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 40 HP (30 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	: 57.9 A	Protection degree	: IP55
L. R. Amperes	: 428 A	Cooling method	: IC411 - TEFC
LRC	: 7.4	Mounting	: B3L(E)
No load current	: 23.3 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 730 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)
Slip	: 2.67 %	Starting method	: Direct On Line
Rated torque	: 288 ft.lb	Approx. weight <sup>3</sup>	: 1145 lb
Locked rotor torque	: 160 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 33.9 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.0 92.0	92.6 92.6	92.6 92.6	Max. traction	: 1269 lb
	92.0	92.4	92.4		
Power Factor	0.70 0.63	0.80 0.75	0.85 0.85	Max. compression	: 2415 lb
	0.60	0.72	0.79		

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

Losses (%)	P1 (0,9;1,0)	7.7	7.7	7.9
	P2 (0,5;1,0)	6.1	6.1	6.2
	P3 (0,25;1,0)	5.5	5.5	5.7
	P4 (0,9;0,5)	4.0	4.0	4.2
	P5 (0,5;0,5)	2.7	2.7	2.8
	P6 (0,5;0,25)	1.9	1.9	2.0
	P7 (0,25;0,25)	1.3	1.3	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	27 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 1 / 1	Revision