

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE2 Three-Phase

Product code : 13025530

Frame	: 225S/M	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 30 HP (22 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	: 44.1 A	Protection degree	: IP55
L. R. Amperes	: 269 A	Cooling method	: IC411 - TEFC
LRC	: 6.1	Mounting	: B3L(E)
No load current	: 16.5 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	: 216 ft.lb	Approx. weight <sup>3</sup>	: 842 lb
Locked rotor torque	: 170 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 23.0 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.9 91.4	91.8 92.0	91.4 92.2	Max. traction	: 1224 lb
	91.7	92.4	92.4		
Power Factor	0.70 0.64	0.81 0.76	0.83 0.80	Max. compression	: 2066 lb
	0.65	0.77	0.81		

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

Losses (%)	P1 (0,9;1,0)	8.9	8.0	7.8
	P2 (0,5;1,0)	7.1	6.4	6.2
	P3 (0,25;1,0)	6.6	5.9	5.8
	P4 (0,9;0,5)	4.7	4.3	4.1
	P5 (0,5;0,5)	3.1	2.8	2.7
	P6 (0,5;0,25)	2.2	2.0	2.0
	P7 (0,25;0,25)	1.6	1.4	1.4

		<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		Page Revision 1 / 1		
Checked by				
Date	26/03/2024			