

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

11767240

Catalog # :

13212ET3Y315S/M-W22

Frame : 315S/M  
Output : 175 HP (132 kW)  
Poles : 6  
Frequency : 50 Hz  
Rated voltage : 380 V  
Rated current : 255 A  
L. R. Amperes : 1709 A  
LRC : 6.7  
No load current : 97.0 A  
Rated speed : 991 rpm  
Slip : 0.90 %  
Rated torque : 927 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 121 sq.ft.lb  
Design : N

Locked rotor time : 46s (cold) 26s (hot)  
Temperature rise : 80 K  
Duty cycle : S1  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : B3L(E)  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 67.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 2841 lb

Output	50%	75%	100%
Efficiency (%)	94.1 94.1	96.0 96.0	96.0 96.1
	95.0	95.8	95.8
Power Factor	0.68 0.62	0.78 0.75	0.82 0.79
	0.63	0.75	0.81

Foundation loads  
Max. traction : 4493 lb  
Max. compression : 7335 lb

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

Losses (%)	P1 (0,9;1,0)	4.4	4.3	4.6
	P2 (0,5;1,0)	3.2	3.1	3.3
	P3 (0,25;1,0)	2.5	2.4	2.6
	P4 (0,9;0,5)	2.9	2.8	3.0
	P5 (0,5;0,5)	1.8	1.8	1.9
	P6 (0,5;0,25)	1.5	1.4	1.6
	P7 (0,25;0,25)	0.9	0.8	0.9

	Drive end	Non drive end
Bearing type :	6319 C3	6316 C3
Sealing :	WSeal	WSeal
Lubrication interval :	13000 h	16000 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 Revision 1 / 1		
Checked by				
Date	26/03/2024			