

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE2 Three-Phase

Product code : 12512236  
Catalog # : 11009EP3Y315L-W22

Frame	: 315L	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 150 HP (110 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	: 218 A	Protection degree	: IP55
L. R. Amperes	: 1308 A	Cooling method	: IC411 - TEFC
LRC	: 6.0	Mounting	: B3L(E)
No load current	: 83.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 740 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 1060 ft.lb	Approx. weight <sup>3</sup>	: 2962 lb
Locked rotor torque	: 160 %		
Breakdown torque	: 190 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 298 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.8 94.3	94.7 94.7	94.5 94.9	Max. traction	: 3403 lb
	94.1	94.5	95.0		
Power Factor	0.71 0.64	0.79 0.74	0.81 0.79	Max. compression	: 6365 lb
	0.64	0.76	0.80		

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

Losses (%)	P1 (0,9;1,0)	5.7	5.3	5.2
	P2 (0,5;1,0)	4.3	3.9	3.8
	P3 (0,25;1,0)	3.5	3.3	3.2
	P4 (0,9;0,5)	3.3	3.0	3.0
	P5 (0,5;0,5)	2.1	1.9	1.9
	P6 (0,5;0,25)	1.6	1.5	1.4
	P7 (0,25;0,25)	1.0	0.9	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 1 / 1	Revision