

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14922725

Frame	: 326LP	Locked rotor time	: 59s (cold) 33s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 124-112/56.1 A	Protection degree	: IP55
L. R. Amperes	: 893-806/404 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: W-6
No load current	: 24.7-28.2/14.1 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3560 rpm	Noise level <sup>2</sup>	: 81.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 10.2 kgfm	Approx. weight <sup>3</sup>	: 330 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.2284 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	92.4	93.6	94.1	Max. traction
Power Factor	0.00	0.81	0.87	0.88	Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6212 C3	7310BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	6072 h	4017 h
Lubricant amount	:	13 g	15 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 / 2 Revision		
Checked by				
Date	29/10/2024			

# LOAD PERFORMANCE CURVE

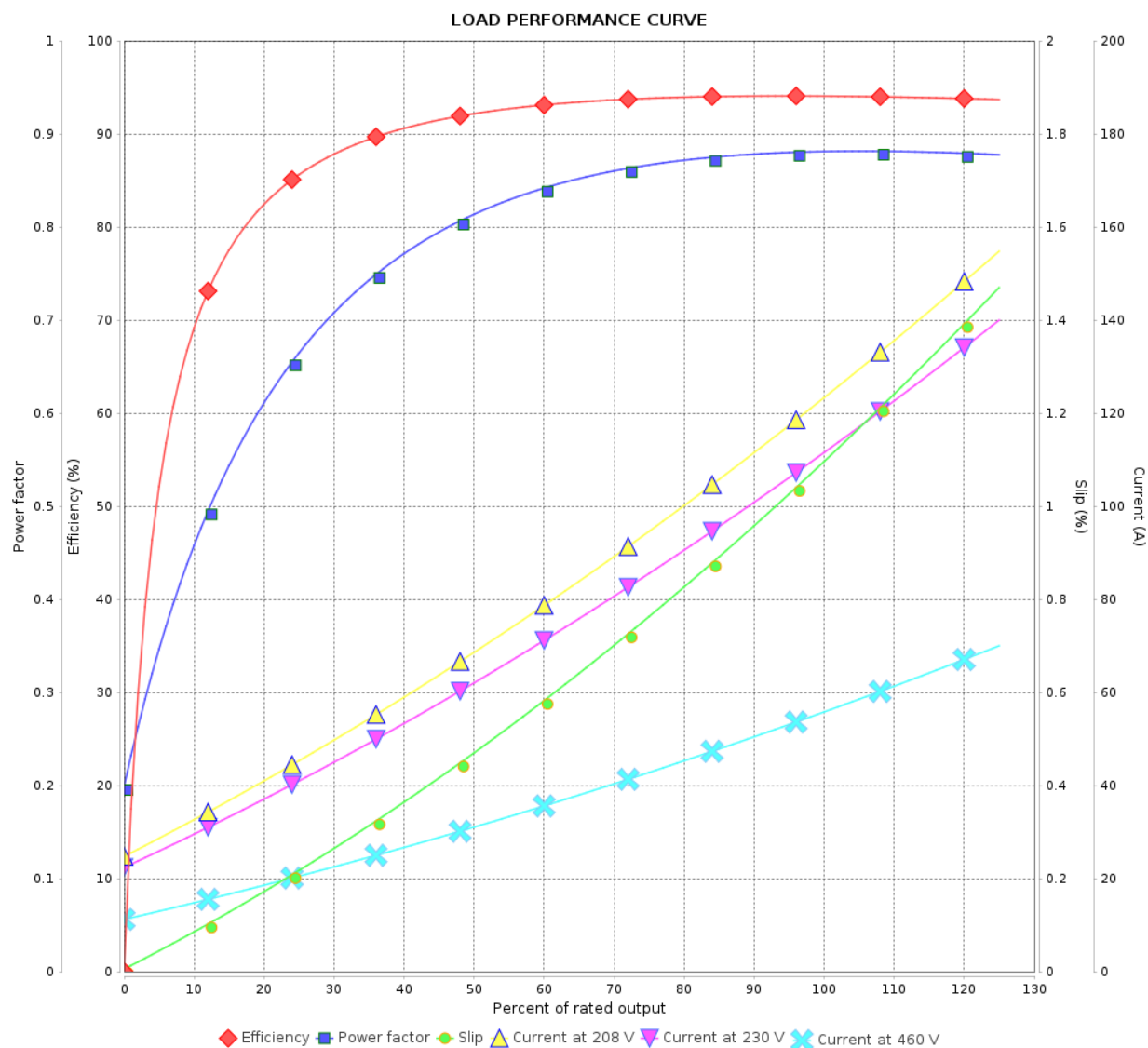
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA  
Premium Efficiency Three-Phase

Product code : 14922725



Performance : 208-230/460 V 60 Hz 2P

Rated current : 124-112/56.1 A  
LRC : 7.2  
Rated torque : 10.2 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 260 %  
Rated speed : 3560 rpm

Moment of inertia (J) : 0.2284 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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