

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 16240921

Frame	: 324LP	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 40 HP (30 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	: 102-92.5/46.2 A	Protection degree	: IP55
L. R. Amperes	: 673-611/305 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: W-6
No load current	: 22.4-26.0/13.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3560 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 1.11 %	Starting method	: VFD
Rated torque	: 8.15 kgfm	Approx. weight ³	: 291 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2063 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.4	93.6	93.6	Max. traction	: 0 kgf
Power Factor	0.00	0.79	0.85	0.87	Max. compression	: 0 kgf

		<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
In Line Extra Thrust
NEMA Premium Efficiency

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	20/07/2026			

LOAD PERFORMANCE CURVE

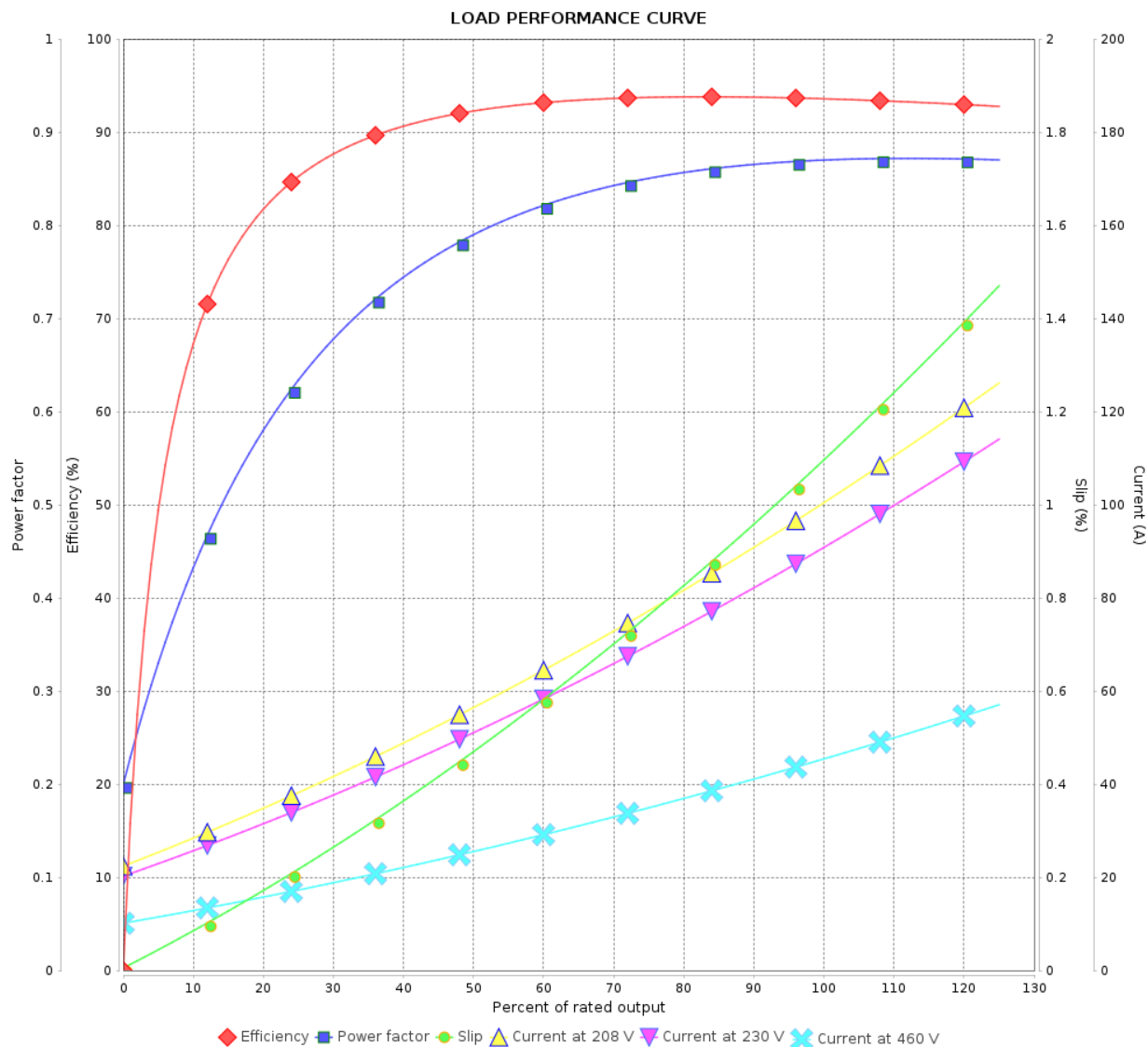
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 16240921



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

Rated current : 102-92.5/46.2 A
LRC : 6.6
Rated torque : 8.15 kgfm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 3560 rpm

Moment of inertia (J) : 0.2063 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B