

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15686551

Frame	: 182LP	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 3 HP (2.2 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	: 8.31-7.51/3.76 A	Protection degree	: IP55
L. R. Amperes	: 69.8-63.1/31.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code K)	Mounting	: W-6
No load current	: 2.70-2.80/1.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.36 %	Vibration	: B
Rated torque	: 0 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 260 %	Approx. weight ³	: 65.0 kg
Breakdown torque	: 380 %		: 207A (ISO 12944 - C3)
Insulation class	: F		: RAL 5009
Service factor	: 1.25	Design	: B
Moment of inertia (J)	: 0.0059 kgm ²		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	78.5	84.0	86.5	Max. traction	: 0 kgf
Power Factor	0.00	0.72	0.81	0.85	Max. compression	: 0 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206	7306BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	13463 h	8437 h
Lubricant amount	:	5 g	7 g
Lubricant type	:	Mobil Polyrex EM	

Notes

In Line Extra Thrust
NEMA Premium Efficiency

For use on PWM, VT 1000:1, CT: 20:1, 1.0SF, FDTF.

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 / 2		
Checked by				
Date	05/10/2026			

LOAD PERFORMANCE CURVE

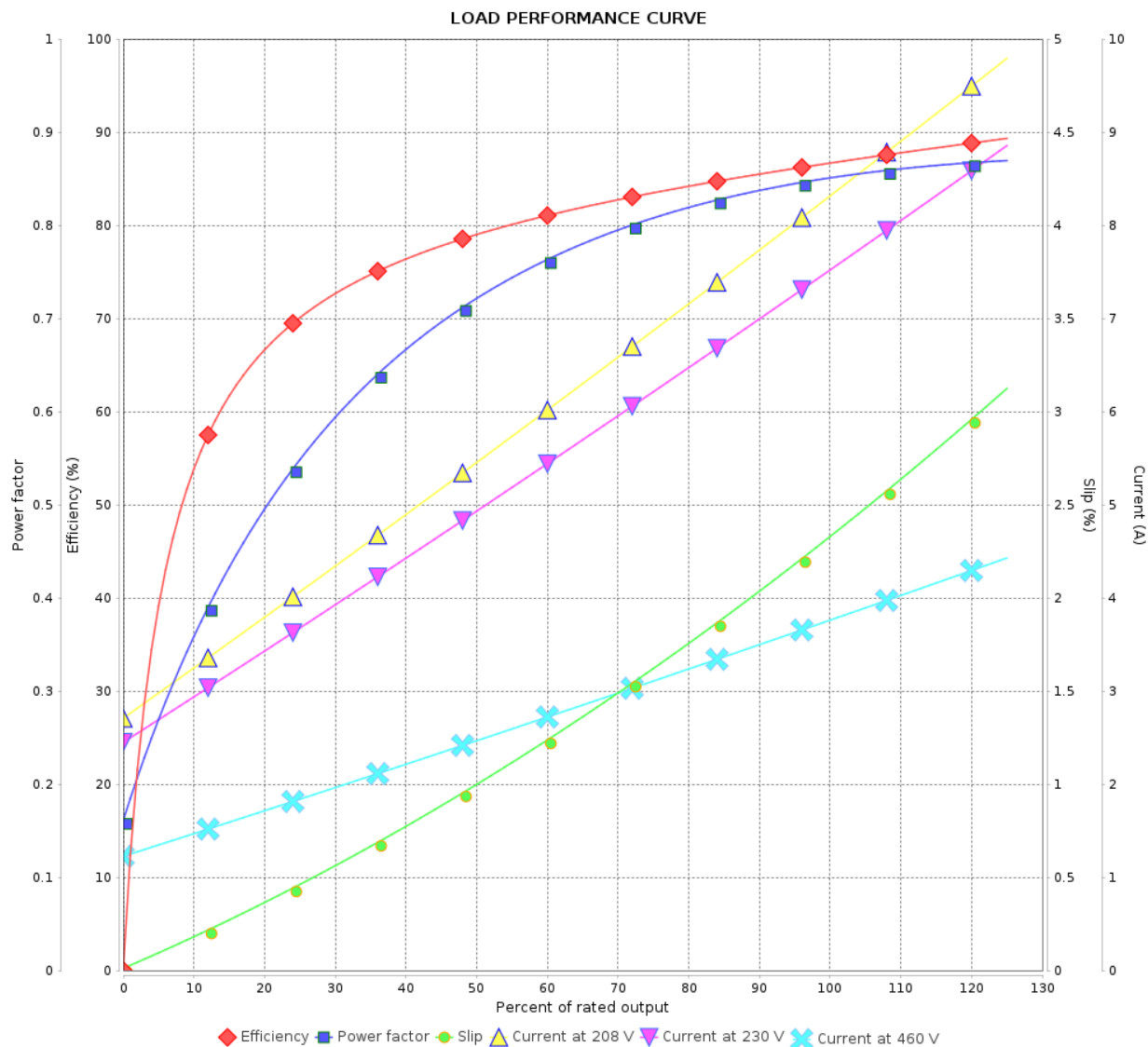
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 15686551



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

Rated current : 8.31-7.51/3.76 A
LRC : 8.4
Rated torque : 0 kgfm
Locked rotor torque : 260 %
Breakdown torque : 380 %
Rated speed : 3515 rpm

Moment of inertia (J) : 0.0059 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	05/10/2026				