

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 15046201

Frame	: 286LP	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 28.8 A	Protection degree	: IP55
L. R. Amperes	: 228 A	Cooling method	: IC411 - TEFC
LRC	: 7.9x(Code J)	Mounting	: W-6
No load current	: 11.6 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 12.3 kgfm	Approx. weight <sup>3</sup>	: 232 kg
Locked rotor torque	: 290 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2175 kgm <sup>2</sup>		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	93.0	93.6	93.6	Max. traction
Power Factor	0.00	0.66	0.77	0.82	Max. compression

	Drive end	Non drive end
Bearing type	: 6212	7310BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 12541 h	10618 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 Revision 1 / 2		
Checked by				
Date	29/10/2024			

# LOAD PERFORMANCE CURVE

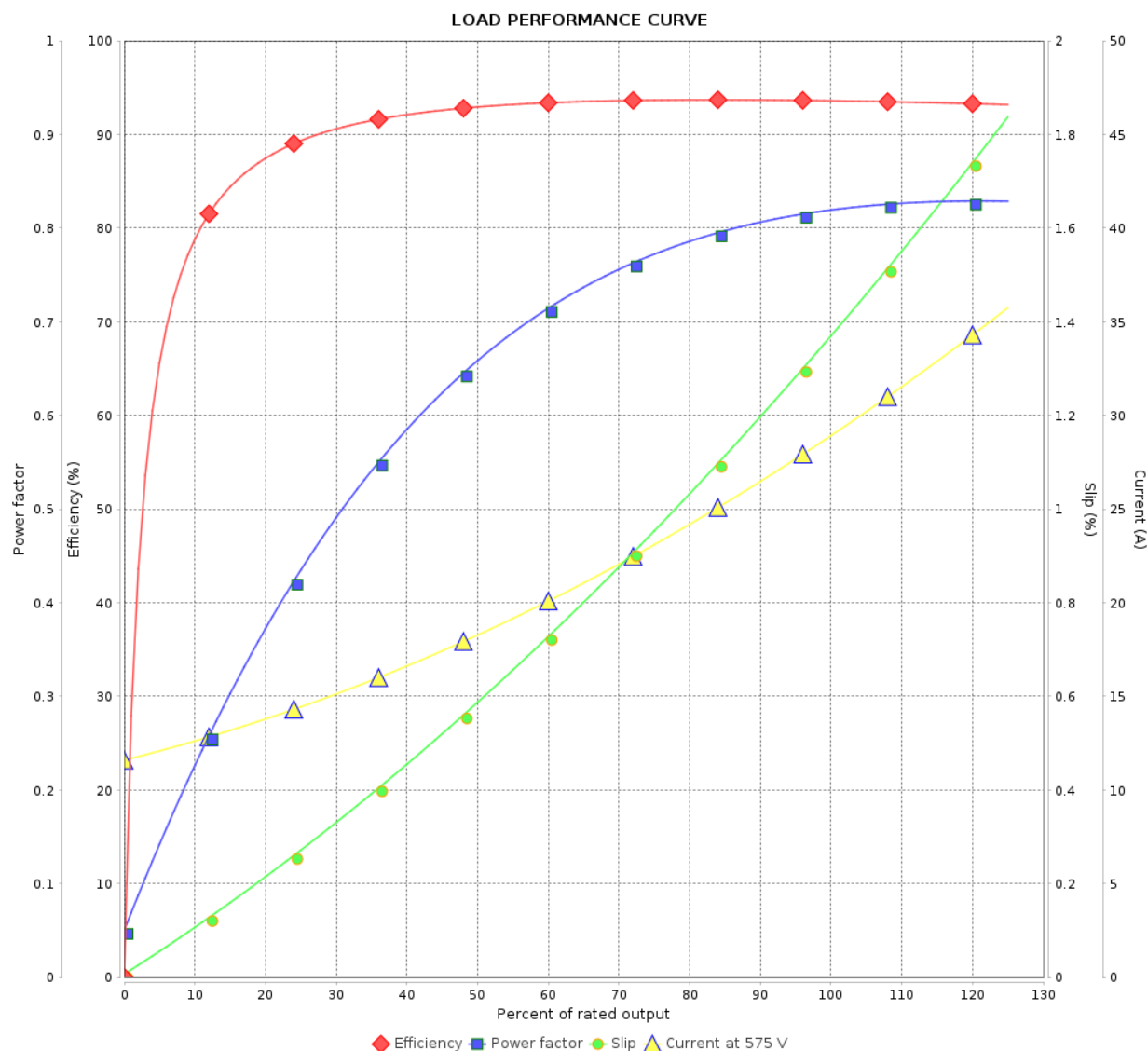
## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 15046201



Performance : 575 V 60 Hz 4P

Rated current : 28.8 A  
LRC : 7.9  
Rated torque : 12.3 kgfm  
Locked rotor torque : 290 %  
Breakdown torque : 320 %  
Rated speed : 1775 rpm

Moment of inertia (J) : 0.2175 kgm<sup>2</sup>  
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	Revision
Checked by				2 / 2	
Date					

