

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase      Product code : 13445105

Frame	: 286HP	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 27.4 A	Protection degree	: IP55
L. R. Amperes	: 172 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code G)	Mounting	: W-6
No load current	: 8.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3540 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 6.14 kgfm	Approx. weight <sup>3</sup>	: 186 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1419 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads Max. traction Max. compression
Efficiency (%)	91.7	91.7	91.7	
Power Factor	0.80	0.86	0.88	

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
8.8	7.5	7.0	4.1	2.7	1.6	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	6000 h	8000 h
Lubricant amount	:	21 g	11 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.

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# LOAD PERFORMANCE CURVE

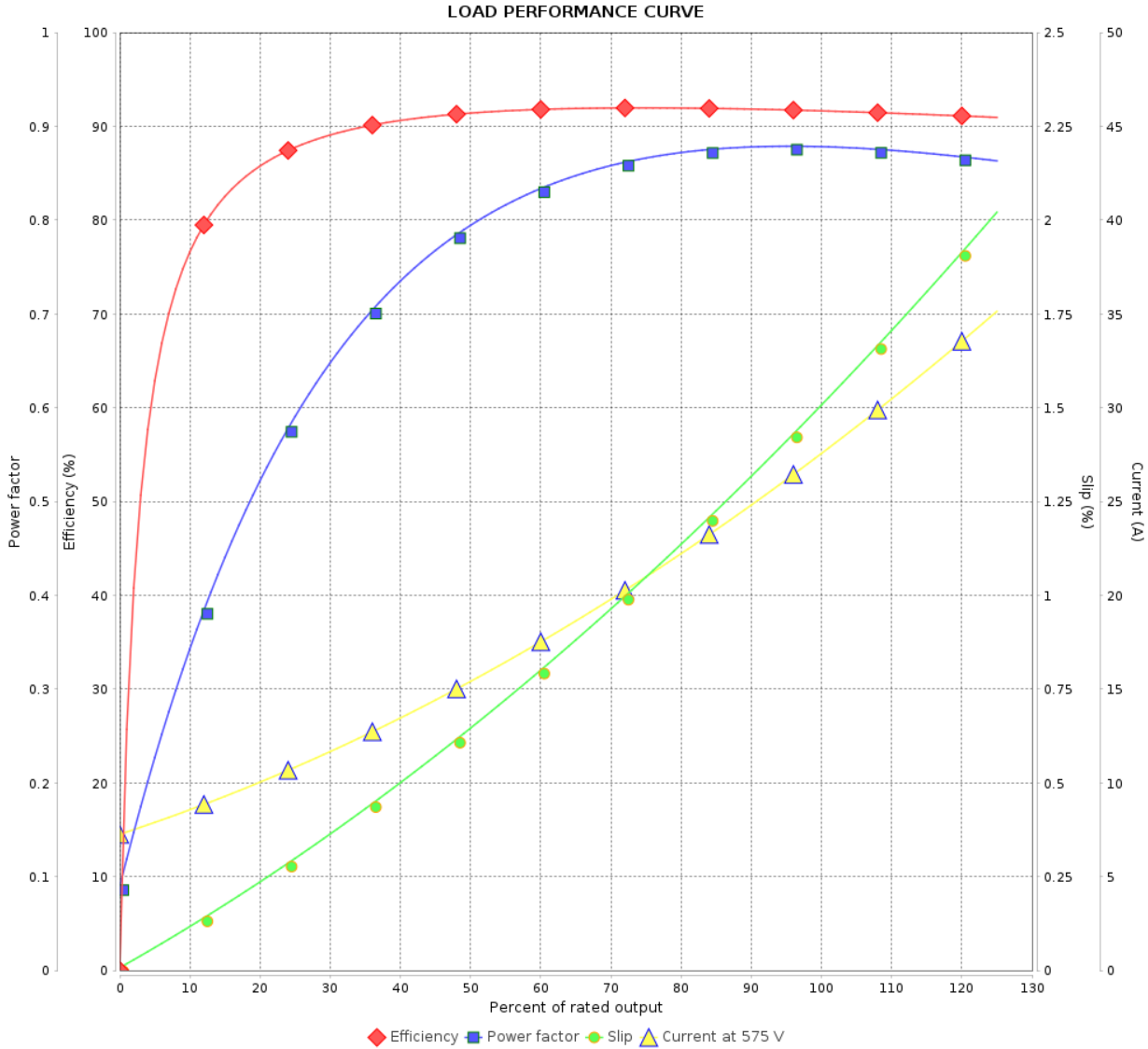
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 P Base NEMA Premium Efficiency  
Three-Phase

Product code : 13445105



Performance : 575 V 60 Hz 2P

Rated current : 27.4 A  
 LRC : 6.3  
 Rated torque : 6.14 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 3540 rpm

Moment of inertia (J) : 0.1419 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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