

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase      Product code : 13586076

Frame	: 184HP	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 2.58 A	Protection degree	: IP55
L. R. Amperes	: 19.3 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code L)	Mounting	: W-6
No load current	: 1.52 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1170 rpm	Noise level <sup>2</sup>	: 52.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 1.24 kgfm	Approx. weight <sup>3</sup>	: 47.6 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0262 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads Max. traction Max. compression
Efficiency (%)	86.5	87.5	88.5	
Power Factor	0.46	0.58	0.66	

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)
12.3	9.8	9.2	7.4	5.0	3.9	2.9

	Drive end	Non drive end
Bearing type	: 6308 ZZ	: 6206 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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

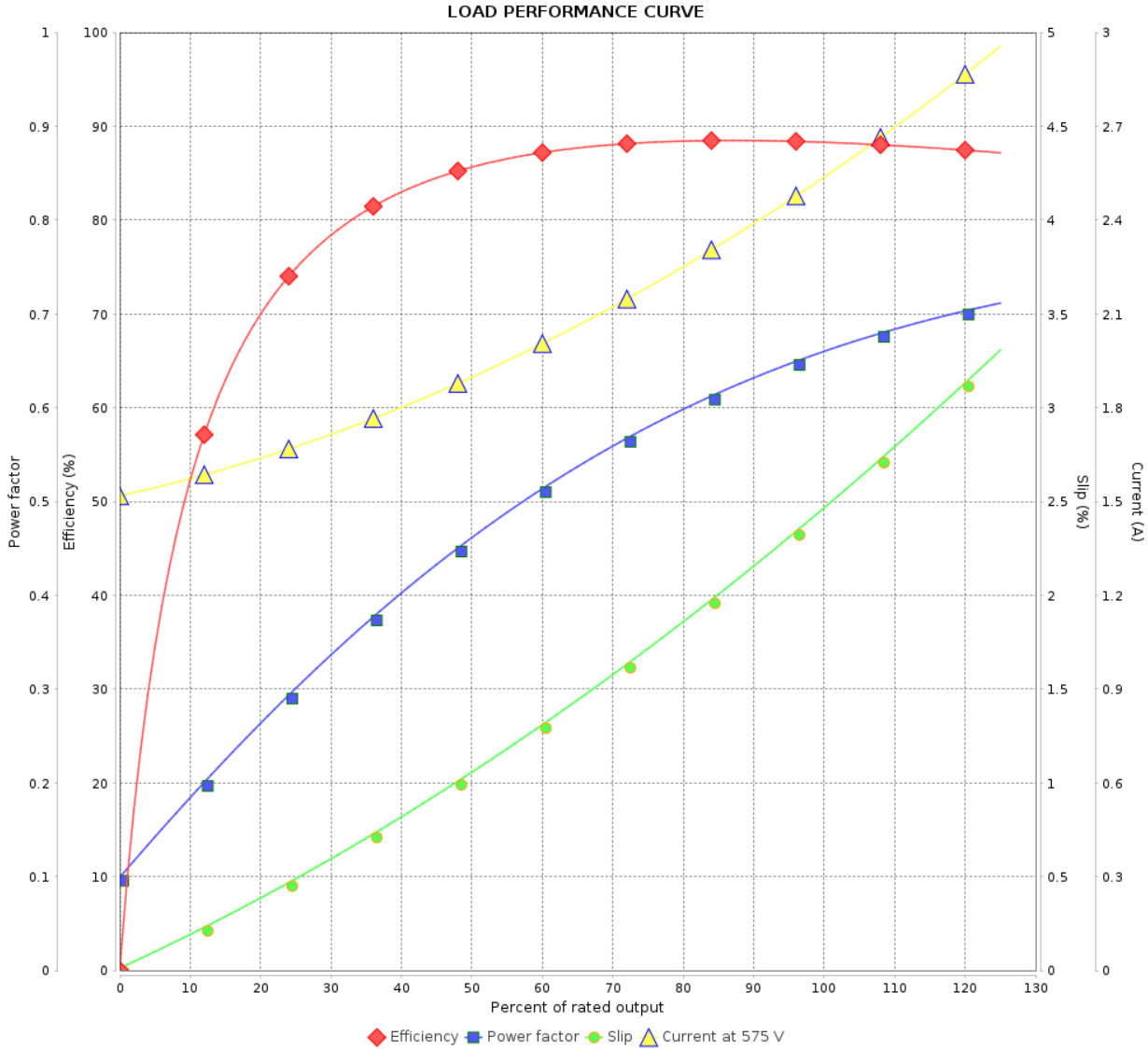
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Customer :

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

Product code : 13586076



Performance : 575 V 60 Hz 6P

Rated current : 2.58 A  
 LRC : 7.5  
 Rated torque : 1.24 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 350 %  
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0262 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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