

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 12445705

Frame	: 182/4T	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 1.5 HP (1.1 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	: 2.03 A	Protection degree	: IP55
L. R. Amperes	: 15.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.8x(Code M)	Mounting	: F-1
No load current	: 1.30 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	: 0.930 kgfm	Approx. weight <sup>3</sup>	: 41.8 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0	86.5	87.5	Max. traction	: 57 kgf
Power Factor	0.45	0.54	0.62	Max. compression	: 99 kgf

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)
13.4	10.3	9.3	8.8	5.8	4.8	3.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 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

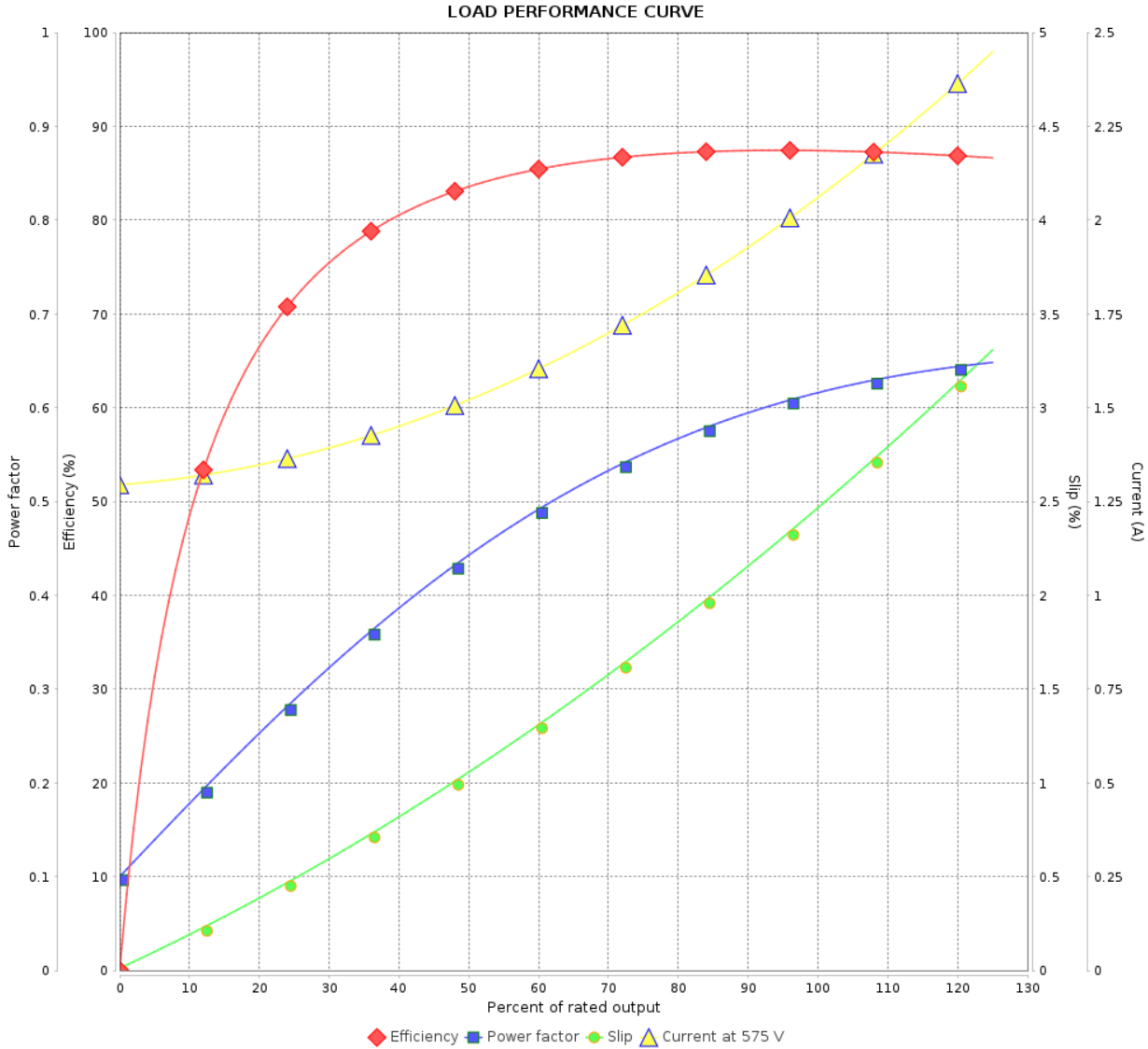
Three Phase Induction Motor - Squirrel Cage



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Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12445705



Performance : 575 V 60 Hz 6P

Rated current : 2.03 A  
 LRC : 7.8  
 Rated torque : 0.930 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 400 %  
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0206 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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