

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase

Product code : 15712925

Frame : 112M  
 Output : 3 kW (4 HP)  
 Poles : 4  
 Frequency : 60 Hz  
 Rated voltage : 208-230/460 V  
 Rated current : 12.1-10.9/5.46 A  
 L. R. Amperes : 94.2-85.2/42.6 A  
 LRC : 7.8  
 No load current : 4.95-5.74/2.87 A  
 Rated speed : 1760 rpm  
 Slip : 2.22 %  
 Rated torque : 1.66 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 340 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 0.0156 kgm<sup>2</sup>  
 Design : N

Locked rotor time : 48s (cold) 27s (hot)  
 Temperature rise : 80 K  
 Duty cycle : S1  
 Ambient temperature : -20°C to +40°C  
 Altitude : 1000 m.a.s.l.  
 Protection degree : IP55  
 Cooling method : IC411 - TEFC  
 Mounting : B3R(E)  
 Rotation<sup>1</sup> : Both (CW and CCW)  
 Noise level<sup>2</sup> : 56.0 dB(A)  
 Starting method : VFD  
 Approx. weight<sup>3</sup> : 42.0 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	87.2	89.0	89.5
Power Factor	0.00	0.58	0.70	0.77

Foundation loads  
 Max. traction : 97 kgf  
 Max. compression : 139 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)
11.0	8.7	8.2	6.2	4.1	3.1	2.2

	Drive end	Non drive end
Bearing type :	6207 ZZ	6206 ZZ
Sealing :	V'Ring	V'Ring
Lubrication interval :	0 h	0 h
Lubricant amount :	0 g	0 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 IEC 60034-1.

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# LOAD PERFORMANCE CURVE

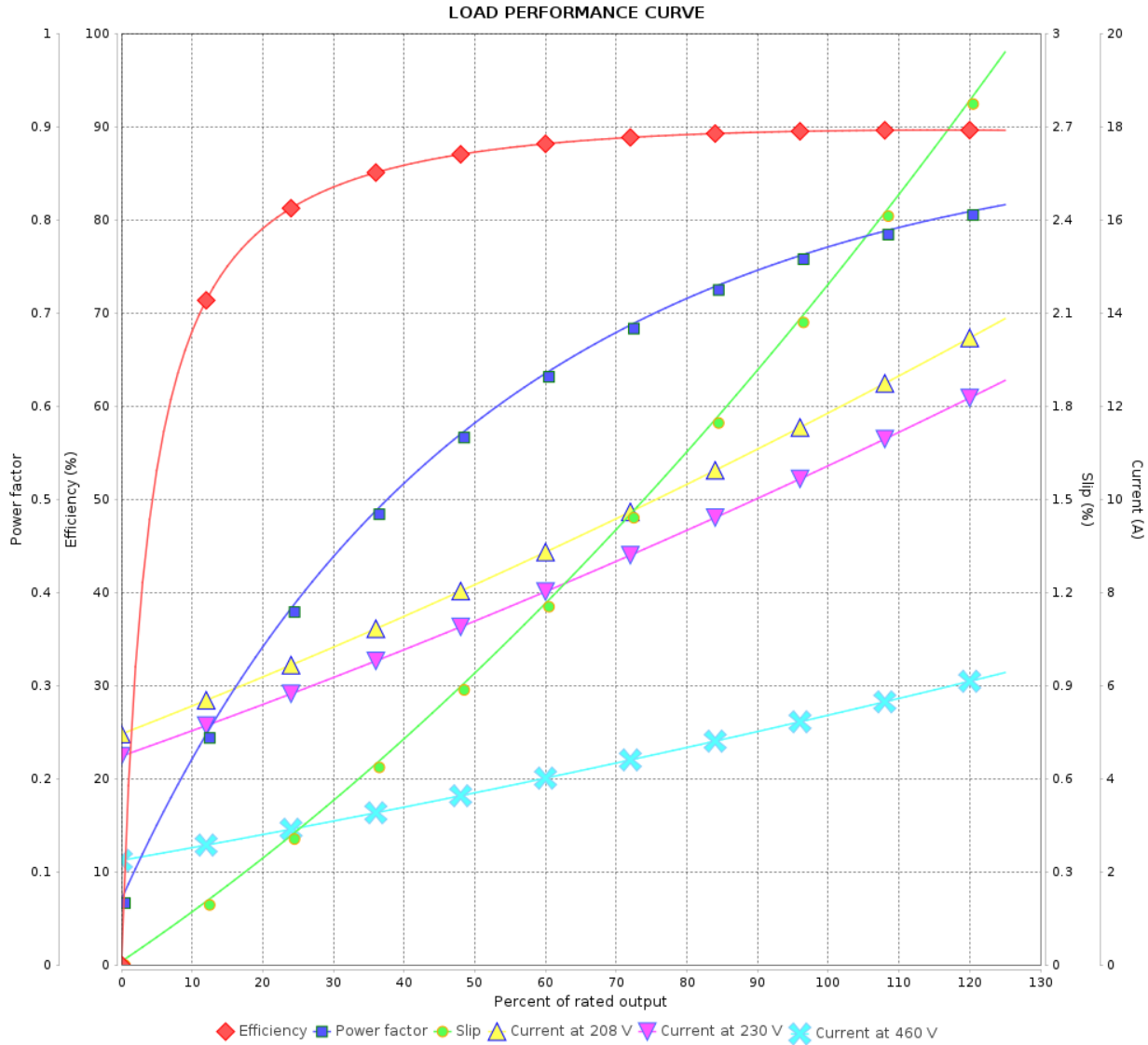
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Product code : 15712925



Performance : 208-230/460 V 60 Hz 4P

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 LRC : 7.8  
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 Breakdown torque : 340 %  
 Rated speed : 1760 rpm

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