# **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:			
Product line		: W22 IE1	Three-Phase		
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torque Insulation class Service factor Moment of inertic	ue	: 180M : 18.5 kW : 4 : 50 Hz : 380/660 : 37.2/21.4 : 260/150 : 7.0 : 14.7/8.46 : 1465 rpn : 2.33 % : 12.3 kgfr : 240 % : 280 % : F : 1.00 : 0.1398 kg : N	4 A A 6 A n	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 21s (cold) 12s (hot) : 80 K : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : B3T : Both (CW and CCW) : 61.0 dB(A) : Direct On Line : 161 kg
Output	50%	75%	100%	Foundation loads	
Efficiency (%) Power Factor	88.0 0.70	89.5 0.80	90.0 0.84	Max. traction Max. compression	: 430 kgf : 591 kgf
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	<u>Drive end</u> 6311 C3 V'Ring 20000 h 18 g	Non drive end 6211 Z C3 V'Ring 20000 h 11 g 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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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		

#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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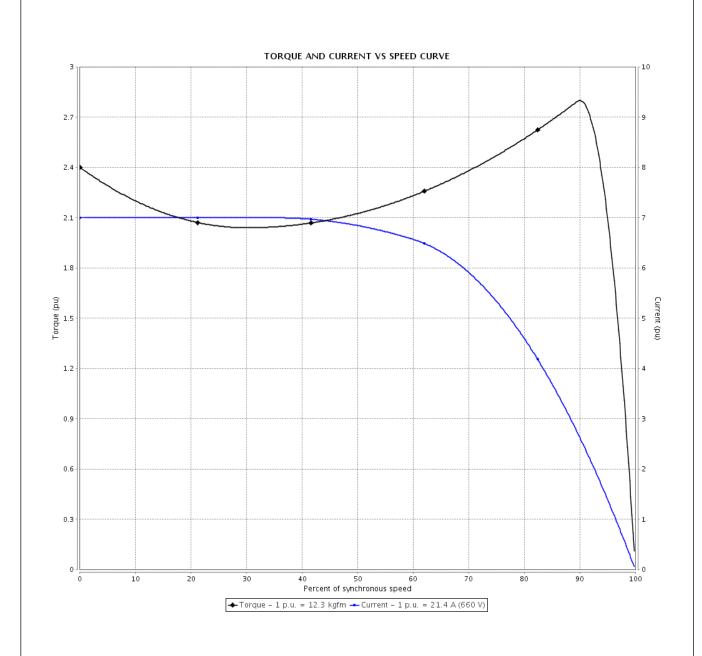
# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IE1 Three-Phase



Performance	: 380/660 V 50 Hz 4P			
Rated current	: 37.2/21.4 A	Moment of inertia (J)	: 0.1398 kgm²	
LRC	: 7.0	Duty cycle	: S1	
Rated torque	: 12.3 kgfm	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: N	
Locked roter time	: 21s (sold) 12s (bot)			

Locked rotor time : 21s (cold) 12s (hot)

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



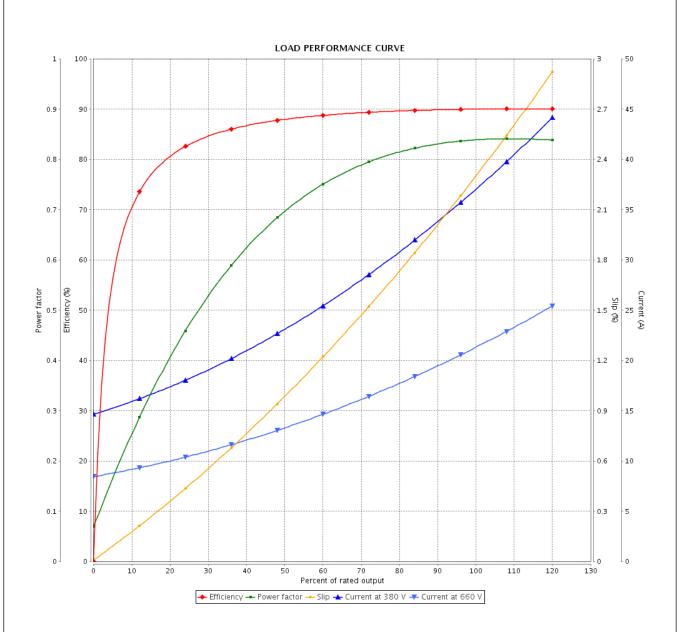
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Date

21/11/2018

Product line : W22 IE1 Three-Phase



	-10-					
Performance		: 380/660 V 50 Hz 4P	•			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 37.2/21.4 A : 7.0 : 12.3 kgfm : 240 % : 280 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.1398 kgm² : S1 : F : 1.00 : 80 K : N	
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