

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 11360896	
Frame	: 364/5TS		Locked rotor time	: 108s (cold) 60s (hot)	
Output	: 60 HP (45 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	: 54.9 A		Protection degree	: IP55	
L. R. Amperes	: 351 A		Cooling method	: IC411 - TEFC	
LRC	: 6.4x(Code G)		Mounting	: F-1	
No load current	: 12.0 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 3550 rpm		Noise level <sup>2</sup>	: 85.0 dB(A)	
Slip	: 1.39 %		Starting method	: Direct On Line	
Rated torque	: 12.3 kgfm		Approx. weight <sup>3</sup>	: 471 kg	
Locked rotor torque	: 200 %				
Breakdown torque	: 250 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.4198 kgm <sup>2</sup>				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	91.7	92.4	93.0	93.6	
Power Factor	0.59	0.79	0.86	0.88	
Foundation loads					
Max. traction : 109 kgf					
Max. compression : 580 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3	6314 C3		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	3604 h	3604 h		
Lubricant amount	:	27 g	27 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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Customer : \_\_\_\_\_

### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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# LOAD PERFORMANCE CURVE

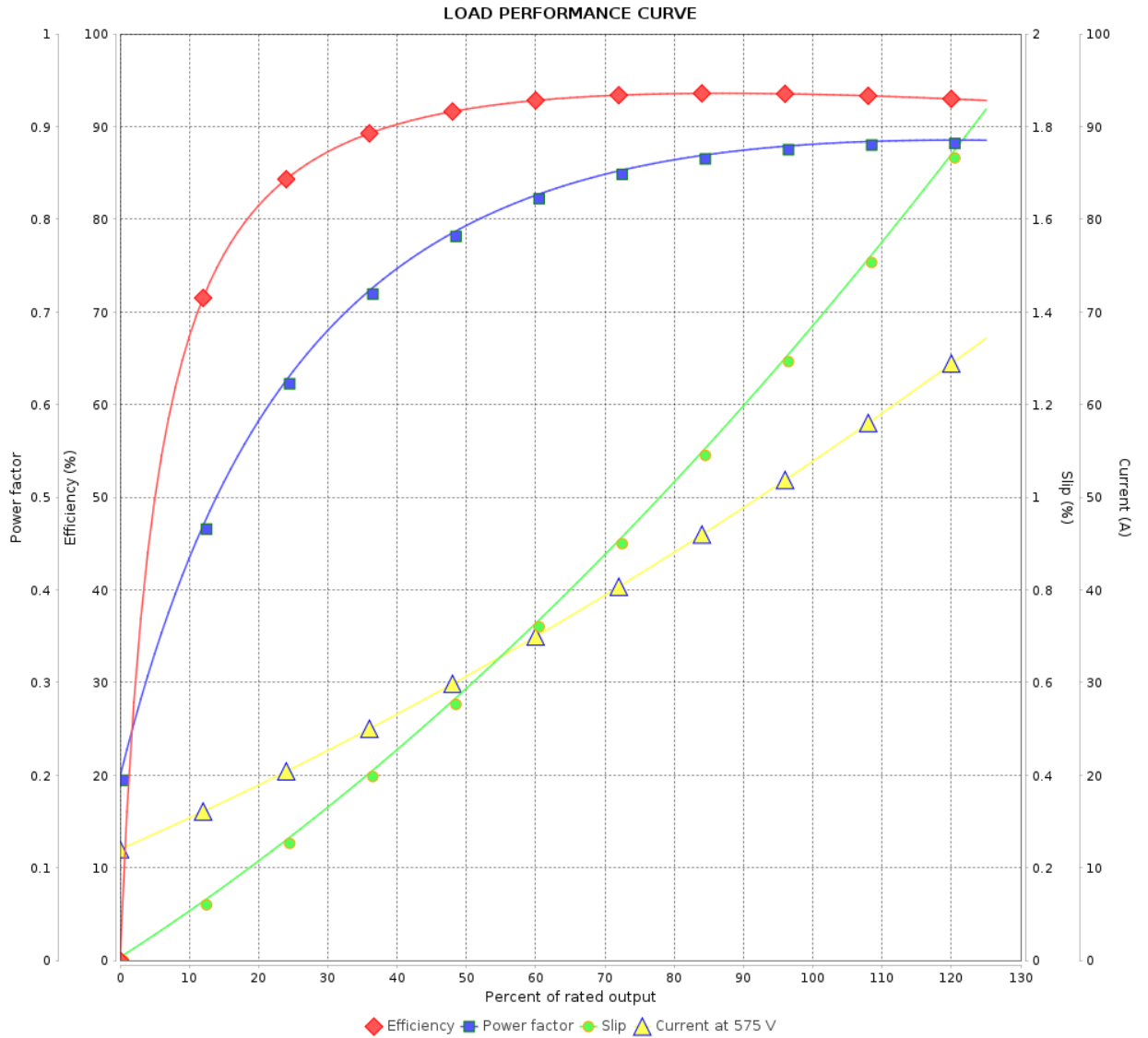
## Three Phase Induction Motor - Squirrel Cage



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

Product line : W21 Explosion Proof NEMA Premium  
Efficiency Three-Phase

Product code : 11360896



Performance : 575 V 60 Hz 2P

Rated current : 54.9 A  
 LRC : 6.4  
 Rated torque : 12.3 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 3550 rpm

Moment of inertia (J) : 0.4198 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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