

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14217807	
Frame	: 143/5TC	Locked rotor time	: 36s (cold) 20s (hot)		
Output	: 1.5 HP (1.1 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	: 1.64 A	Protection degree	: IP55		
L. R. Amperes	: 15.1 A	Cooling method	: IC411 - TEFC		
LRC	: 9.2x(Code M)	Mounting	: F-1		
No load current	: 0.800 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3500 rpm	Noise level ²	: 68.0 dB(A)		
Slip	: 2.78 %	Starting method	: Direct On Line		
Rated torque	: 0.311 kgfm	Approx. weight ³	: 31.6 kg		
Locked rotor torque	: 340 %				
Breakdown torque	: 440 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0017 kgm ²				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	78.5	82.5	84.0	Max. traction : 22 kgf	
Power Factor	0.62	0.73	0.80	Max. compression : 55 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6205 2RS	6204 2RS		
Sealing	:	Oil Seal	Lip Seal		
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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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

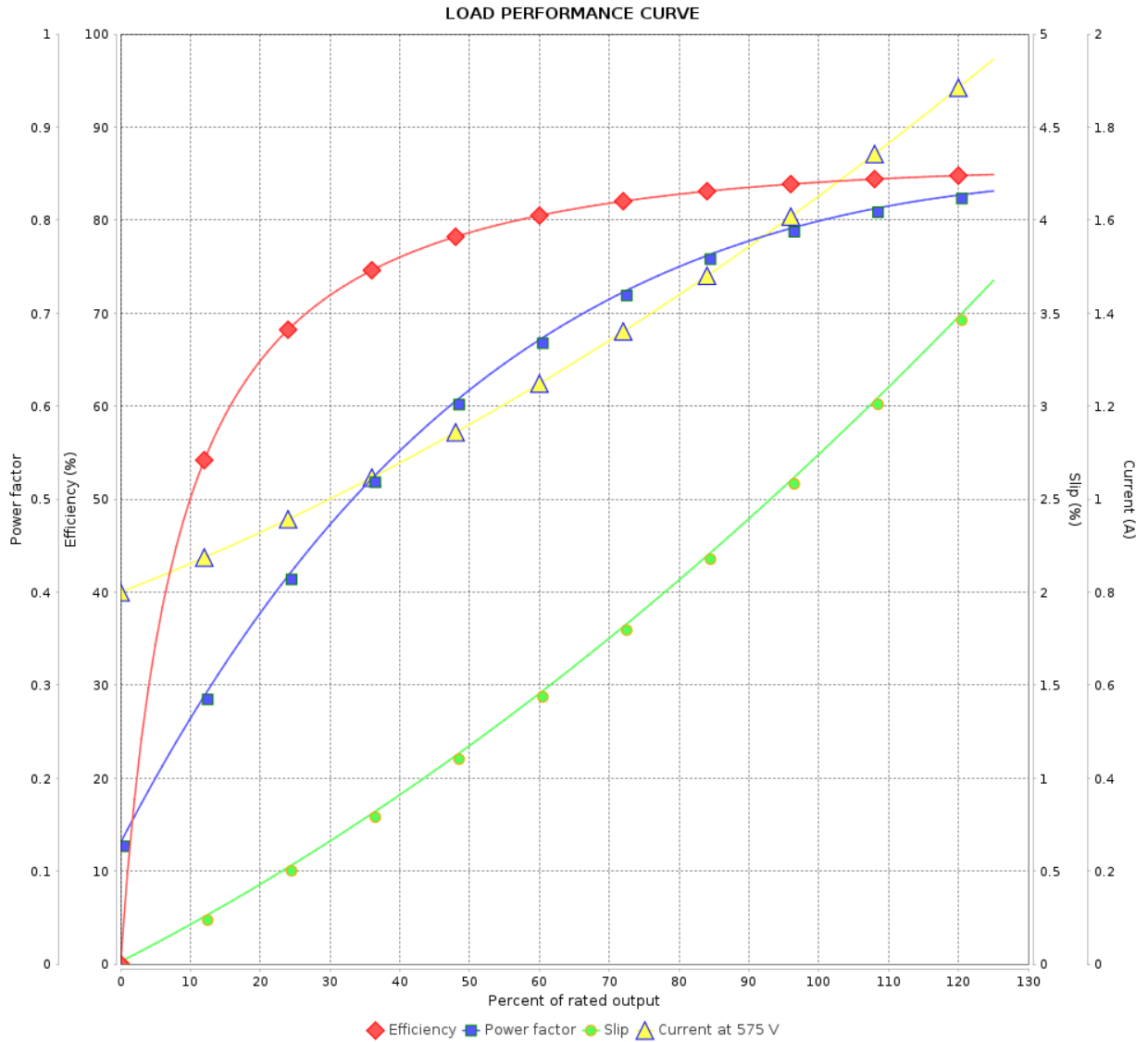
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Customer :

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

Product code : 14217807



Performance : 575 V 60 Hz 2P

Rated current : 1.64 A
 LRC : 9.2
 Rated torque : 0.311 kgfm
 Locked rotor torque : 340 %
 Breakdown torque : 440 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0017 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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