

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14232997		
Frame	: 143/5TC			Locked rotor time	: 19s (cold) 11s (hot)	
Output	: 2 HP (1.5 kW)			Temperature rise	: 80 K	
Poles	: 4			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	: 2.23 A			Protection degree	: IP55	
L. R. Amperes	: 19.9 A			Cooling method	: IC411 - TEFC	
LRC	: 8.9x(Code L)			Mounting	: F-1	
No load current	: 1.28 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1750 rpm			Noise level ²	: 51.0 dB(A)	
Slip	: 2.78 %			Starting method	: Direct On Line	
Rated torque	: 0.829 kgfm			Approx. weight ³	: 34.0 kg	
Locked rotor torque	: 270 %					
Breakdown torque	: 320 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0067 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	82.9	84.0	85.5	86.5	Max. traction	: 59 kgf
Power Factor	0.32	0.56	0.70	0.78	Max. compression	: 92 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

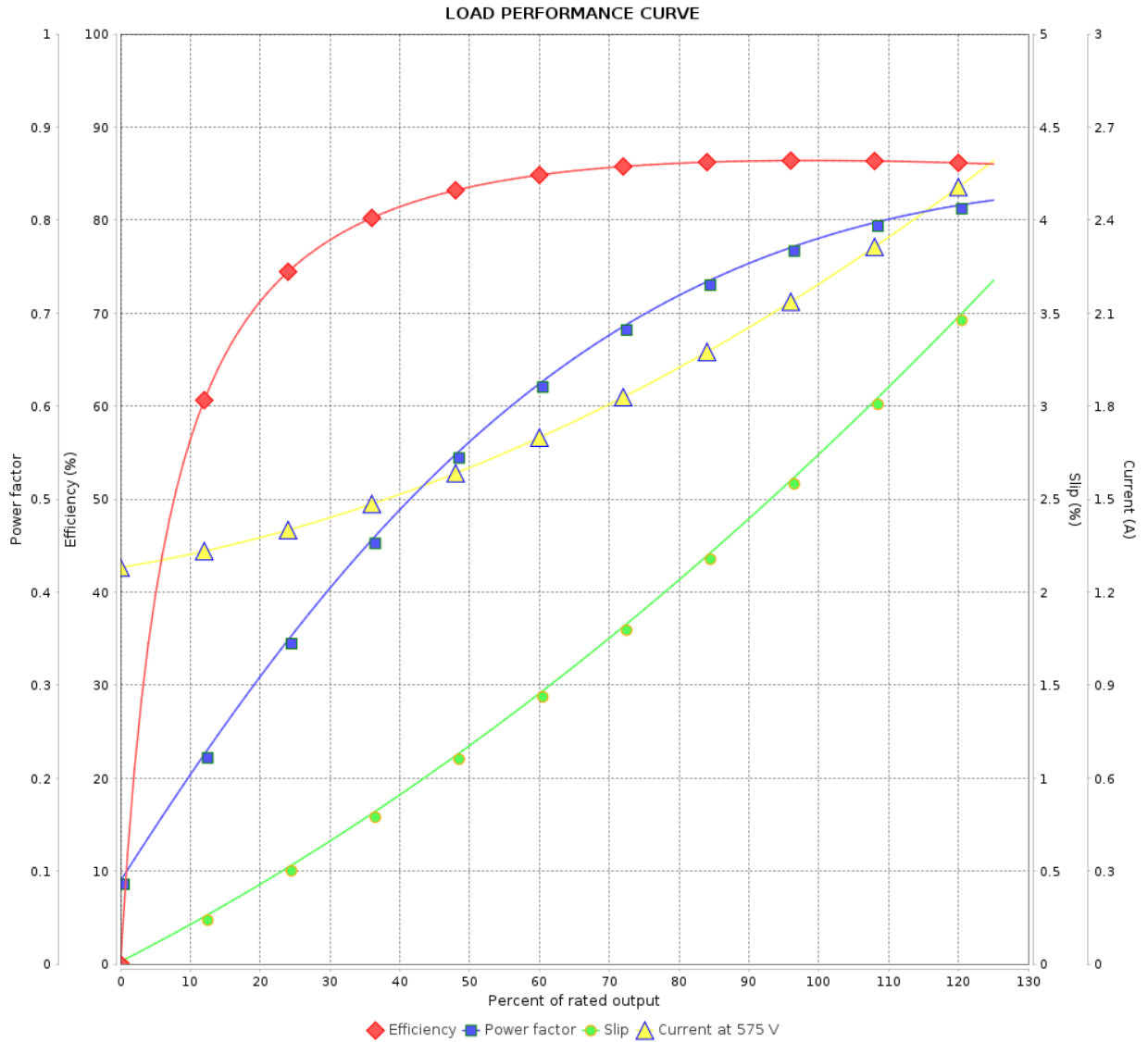
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Customer : _____

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

Product code : 14232997



Performance : 575 V 60 Hz 4P

Rated current : 2.23 A
 LRC : 8.9
 Rated torque : 0.829 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0067 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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