

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14306728	
Frame	: 143/5T		Locked rotor time	: 25s (cold) 14s (hot)	
Output	: 1.5 HP (1.1 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	: 1.64 A		Protection degree	: IP55	
L. R. Amperes	: 14.6 A		Cooling method	: IC411 - TEFC	
LRC	: 8.9x(Code L)		Mounting	: F-1	
No load current	: 0.960 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1755 rpm		Noise level ²	: 51.0 dB(A)	
Slip	: 2.50 %		Starting method	: Direct On Line	
Rated torque	: 0.620 kgfm		Approx. weight ³	: 33.2 kg	
Locked rotor torque	: 270 %				
Breakdown torque	: 350 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0055 kgm ²				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	80.2	81.5	85.5	86.5	
Power Factor	0.34	0.58	0.70	0.78	
Foundation loads					
Max. traction : 45 kgf					
Max. compression : 78 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

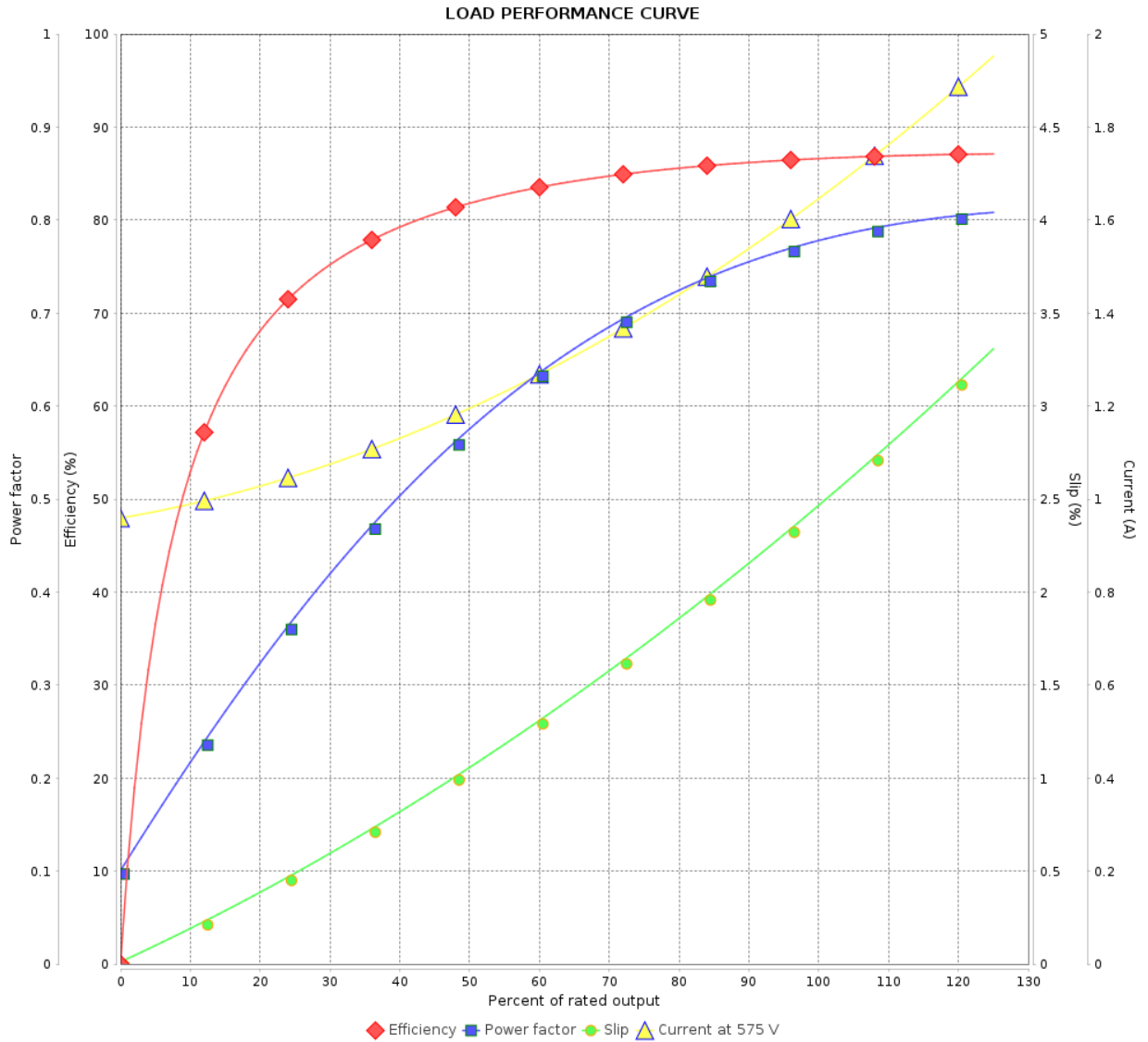
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14306728



Performance : 575 V 60 Hz 4P

Rated current : 1.64 A
 LRC : 8.9
 Rated torque : 0.620 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 350 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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