

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase			Product code : 14284312			
Frame	: 143/5T		Locked rotor time	: 32s (cold) 18s (hot)		
Output	: 1 HP (0.75 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	: 1.18 A		Protection degree	: IP55		
L. R. Amperes	: 10.1 A		Cooling method	: IC411 - TEFC		
LRC	: 8.6x(Code M)		Mounting	: F-1		
No load current	: 0.752 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	: 0.414 kgfm		Approx. weight ³	: 30.8 kg		
Locked rotor torque	: 280 %					
Breakdown torque	: 360 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0041 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	77.3	80.0	82.5	85.5	Max. traction : 27 kgf	
Power Factor	0.32	0.57	0.68	0.75	Max. compression : 58 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

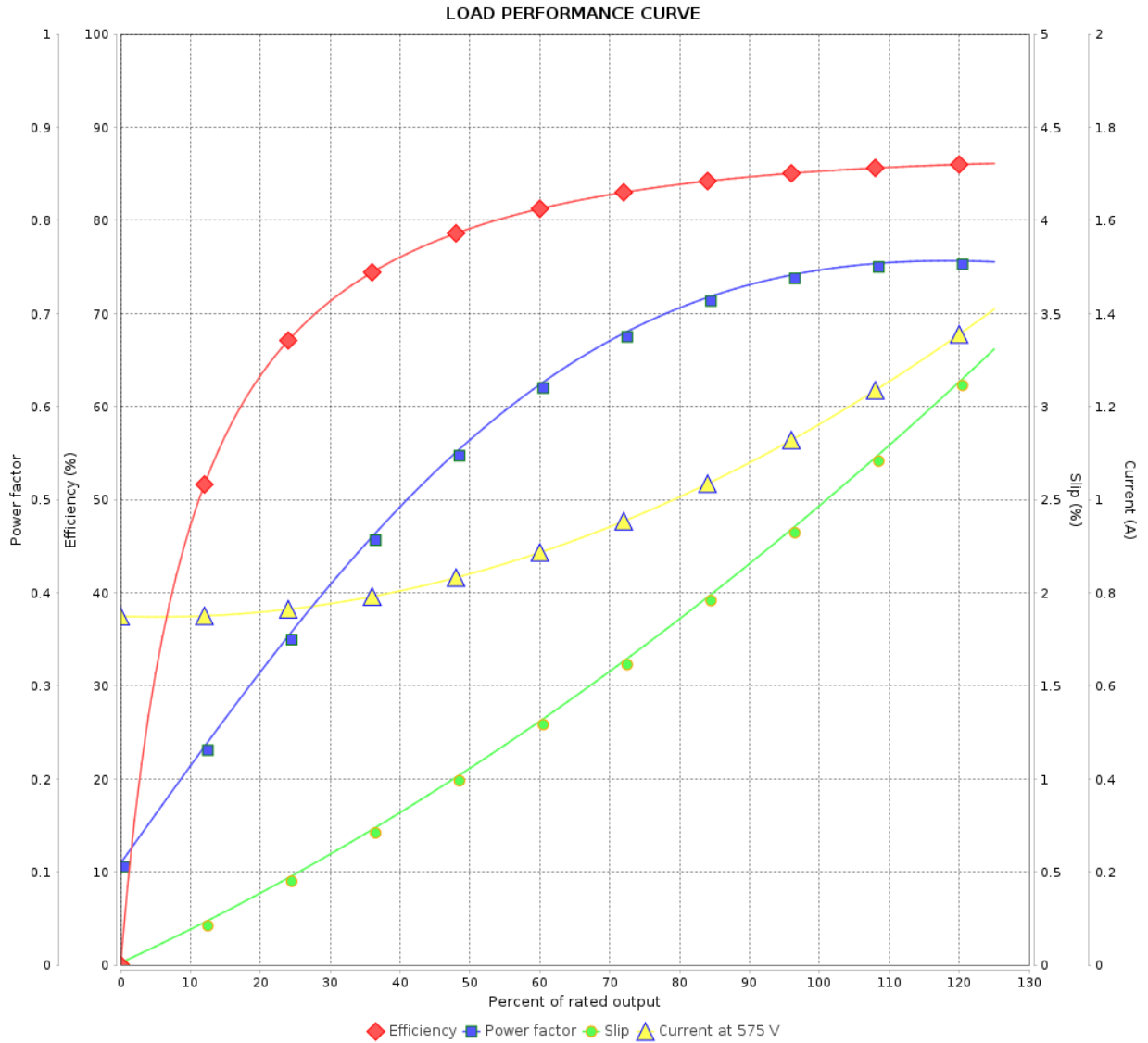
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14284312



Performance : 575 V 60 Hz 4P

Rated current : 1.18 A
 LRC : 8.6
 Rated torque : 0.414 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 360 %
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0041 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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