

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14443258	
Frame	: 324TS		Locked rotor time	: 54s (cold) 30s (hot)	
Output	: 40 HP (30 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	: 37.0 A		Protection degree	: IP55	
L. R. Amperes	: 244 A		Cooling method	: IC411 - TEFC	
LRC	: 6.6x(Code G)		Mounting	: F-1	
No load current	: 10.4 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3560 rpm		Noise level ²	: 81.0 dB(A)	
Slip	: 1.11 %		Starting method	: Direct On Line	
Rated torque	: 8.15 kgfm		Approx. weight ³	: 281 kg	
Locked rotor torque	: 250 %				
Breakdown torque	: 260 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.2063 kgm ²				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	92.2	92.4	93.6	93.6	
Power Factor	0.55	0.79	0.85	0.87	
Foundation loads					
Max. traction : 126 kgf					
Max. compression : 407 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6312 C3	6212 C3		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	9829 h	12143 h		
Lubricant amount	:	21 g	13 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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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

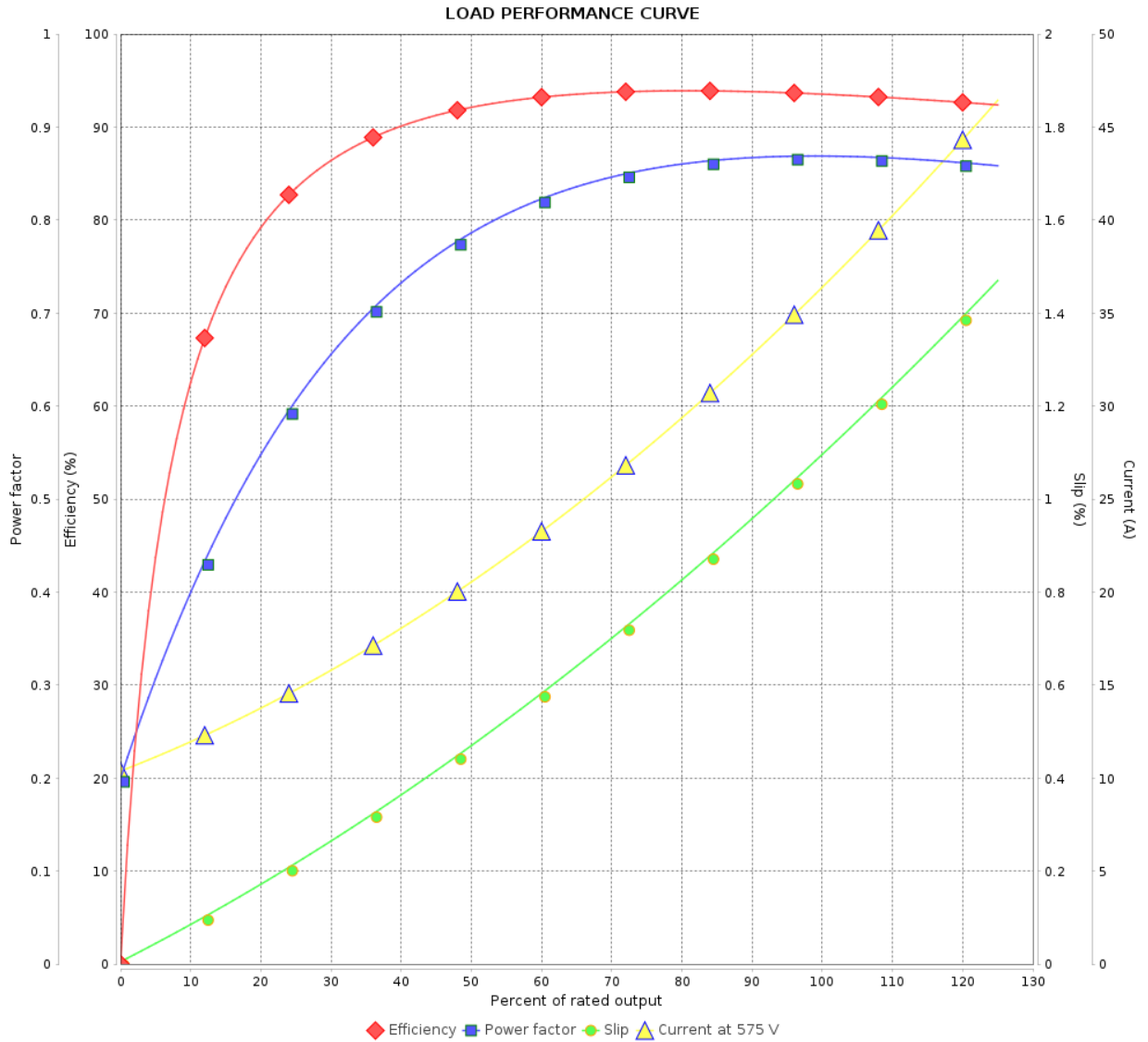
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14443258



Performance : 575 V 60 Hz 2P

Rated current : 37.0 A
LRC : 6.6
Rated torque : 8.15 kgfm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 3560 rpm

Moment of inertia (J) : 0.2063 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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