

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code :	12408382	
Frame	:	447T		Locked rotor time	: 36s (cold) 20s (hot)	
Output	:	250 HP (185 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	:	227 A		Protection degree	: IP55	
L. R. Amperes	:	1590 A		Cooling method	: IC411 - TEFC	
LRC	:	7.0x(Code H)		Mounting	: F-1	
No load current	:	72.2 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	:	1784 rpm		Noise level ²	: 82.0 dB(A)	
Slip	:	0.89 %		Starting method	: Direct On Line	
Rated torque	:	102 kgfm		Approx. weight ³	: 1170 kg	
Locked rotor torque	:	250 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	3.77 kgm ²				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.3	95.4	96.2	96.2	Max. traction	: 1639 kgf
Power Factor	0.49	0.72	0.81	0.85	Max. compression	: 2809 kgf
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6319 C3		6316 C3		
Sealing	:	Viton Oil Seal		Viton Seal		
Lubrication interval	:	7038 h		8569 h		
Lubricant amount	:	45 g		34 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

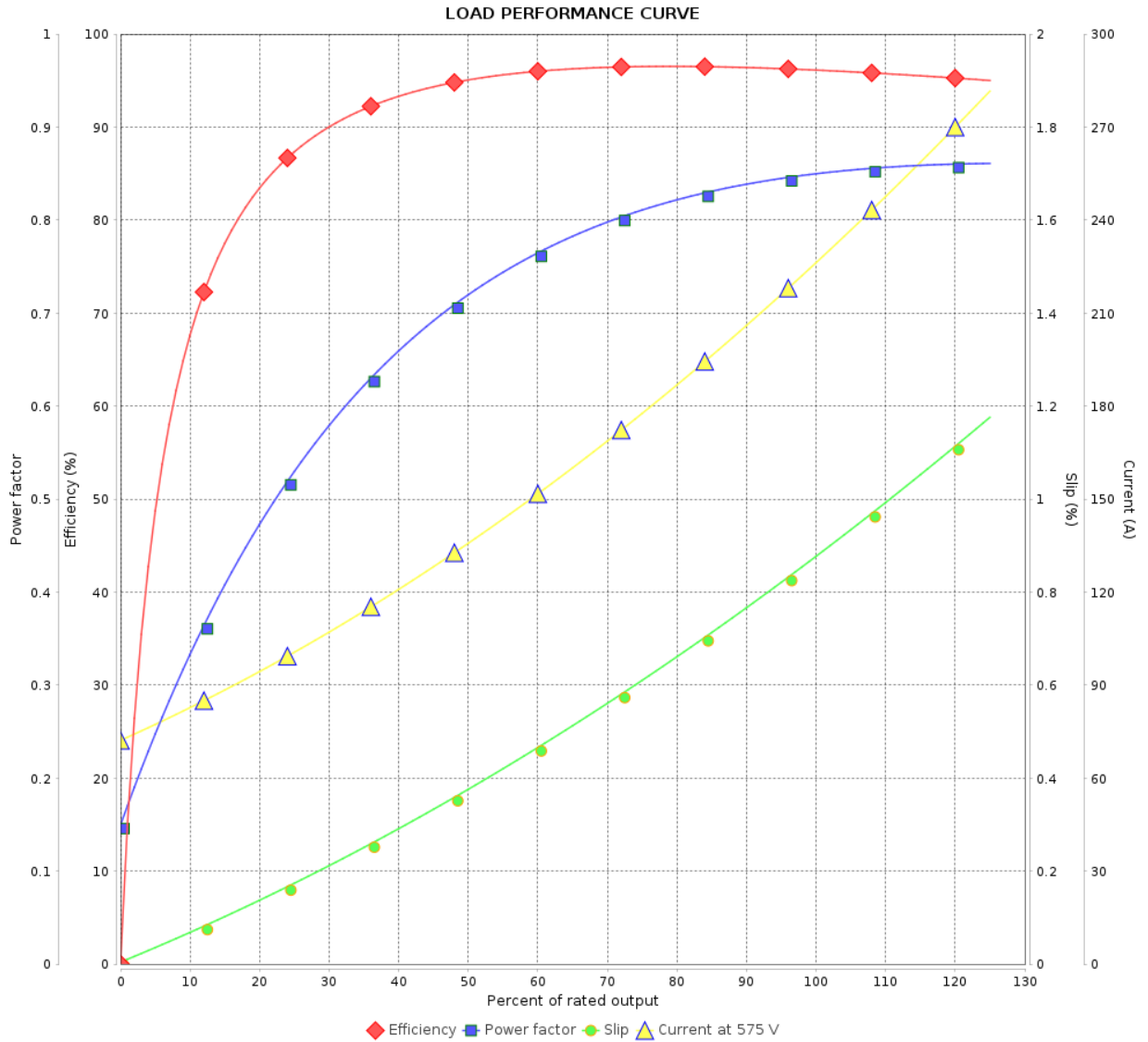
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 12408382



Performance : 575 V 60 Hz 4P

Rated current : 227 A
 LRC : 7.0
 Rated torque : 102 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 250 %
 Rated speed : 1784 rpm

Moment of inertia (J) : 3.77 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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