

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 11724525	
Frame	: 444/5T	Locked rotor time	: 88s (cold) 49s (hot)		
Output	: 100 HP (75 kW)	Temperature rise	: 80 K		
Poles	: 6	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	: 96.7 A	Protection degree	: IP55		
L. R. Amperes	: 658 A	Cooling method	: IC411 - TEFC		
LRC	: 6.8x(Code G)	Mounting	: F-1		
No load current	: 39.0 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1190 rpm	Noise level ²	: 70.0 dB(A)		
Slip	: 0.83 %	Starting method	: Direct On Line		
Rated torque	: 61.2 kgfm	Approx. weight ³	: 954 kg		
Locked rotor torque	: 229 %				
Breakdown torque	: 260 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 3.68 kgm ²				
Design	: B				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.1	95.0	95.0	Max. traction : 910 kgf	
Power Factor	0.66	0.76	0.82	Max. compression : 1864 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6219 C3	6316 C3		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	12202 h	12823 h		
Lubricant amount	:	28 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

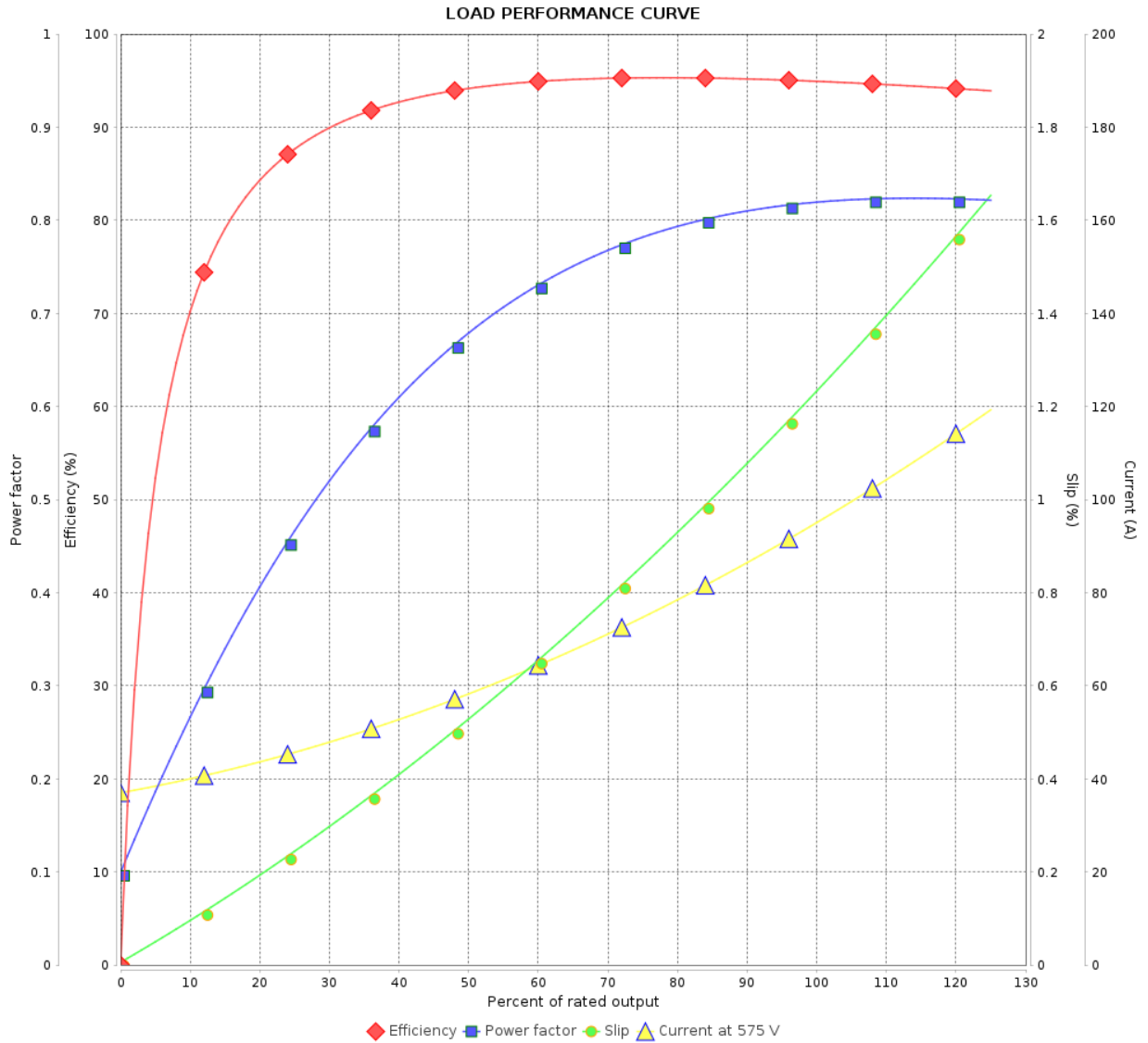
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11724525



Performance : 575 V 60 Hz 6P

Rated current : 96.7 A
 LRC : 6.8
 Rated torque : 61.2 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1190 rpm

Moment of inertia (J) : 3.68 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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