

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 15289890		
Frame	: 444/5TS	Locked rotor time	: 39s (cold) 22s (hot)			
Output	: 125 HP	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	: 107 A	Protection degree	: IP55			
L. R. Amperes	: 708 A	Cooling method	: IC411 - TEFC			
LRC	: 6.6x(Code G)	Mounting	: F-1			
No load current	: 26.0 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 3575 rpm	Noise level ²	: 86.0 dB(A)			
Slip	: 0.69 %	Starting method	: Direct On Line			
Rated torque	: 25.4 kgfm	Approx. weight ³	: 923 kg			
Locked rotor torque	: 200 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 1.31 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	94.5	95.0	Max. traction : 93 kgf		
Power Factor	0.83	0.88	0.89	Max. compression : 1016 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Viton Oil Seal		Lip Seal		
Lubrication interval	:	3604 h		3604 h		
Lubricant amount	:	27 g		27 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

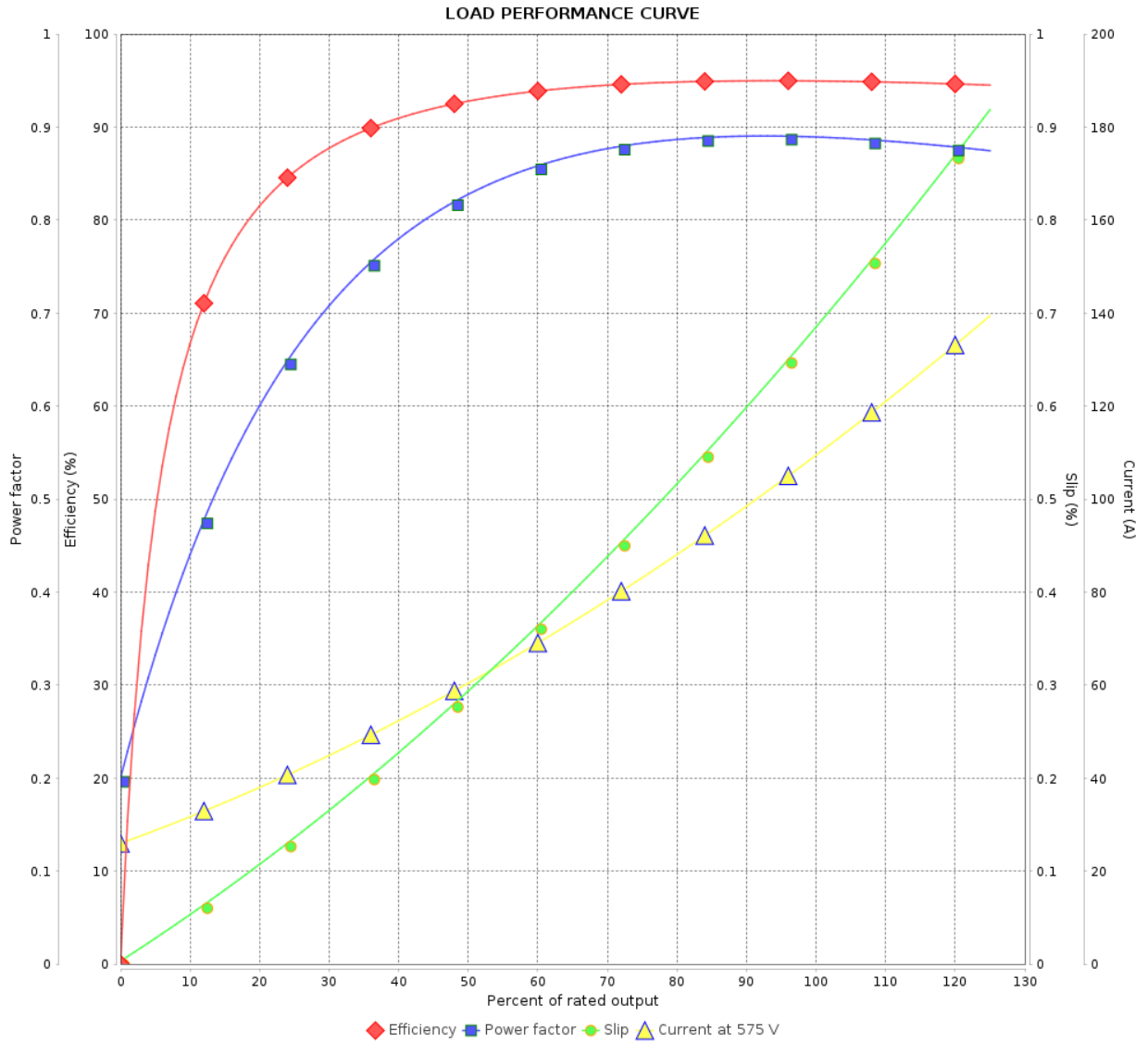
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 15289890



Performance : 575 V 60 Hz 2P

Rated current : 107 A
 LRC : 6.6
 Rated torque : 25.4 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3575 rpm

Moment of inertia (J) : 1.31 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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