

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14230049			
Frame	:	: 213/5TC		Locked rotor time	:	: 41s (cold) 23s (hot)	
Output	:	: 7.5 HP (5.5 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	:	: 6.94 A		Protection degree	:	: IP55	
L. R. Amperes	:	: 49.9 A		Cooling method	:	: IC411 - TEFC	
LRC	:	: 7.2x(Code H)		Mounting	:	: F-1	
No load current	:	: 2.20 A		Rotation ¹	:	: Both (CW and CCW)	
Rated speed	:	: 3535 rpm		Noise level ²	:	: 72.0 dB(A)	
Slip	:	: 1.81 %		Starting method	:	: Direct On Line	
Rated torque	:	: 1.54 kgfm		Approx. weight ³	:	: 94.3 kg	
Locked rotor torque	:	: 229 %					
Breakdown torque	:	: 300 %					
Insulation class	:	: F					
Service factor	:	: 1.15					
Moment of inertia (J)	:	: 0.0198 kgm ²					
Design	:	: B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	85.5	88.5	89.5	Max. traction		: 38 kgf	
Power Factor	0.78	0.86	0.89	Max. compression		: 132 kgf	
				<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6308 2RS		6207 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

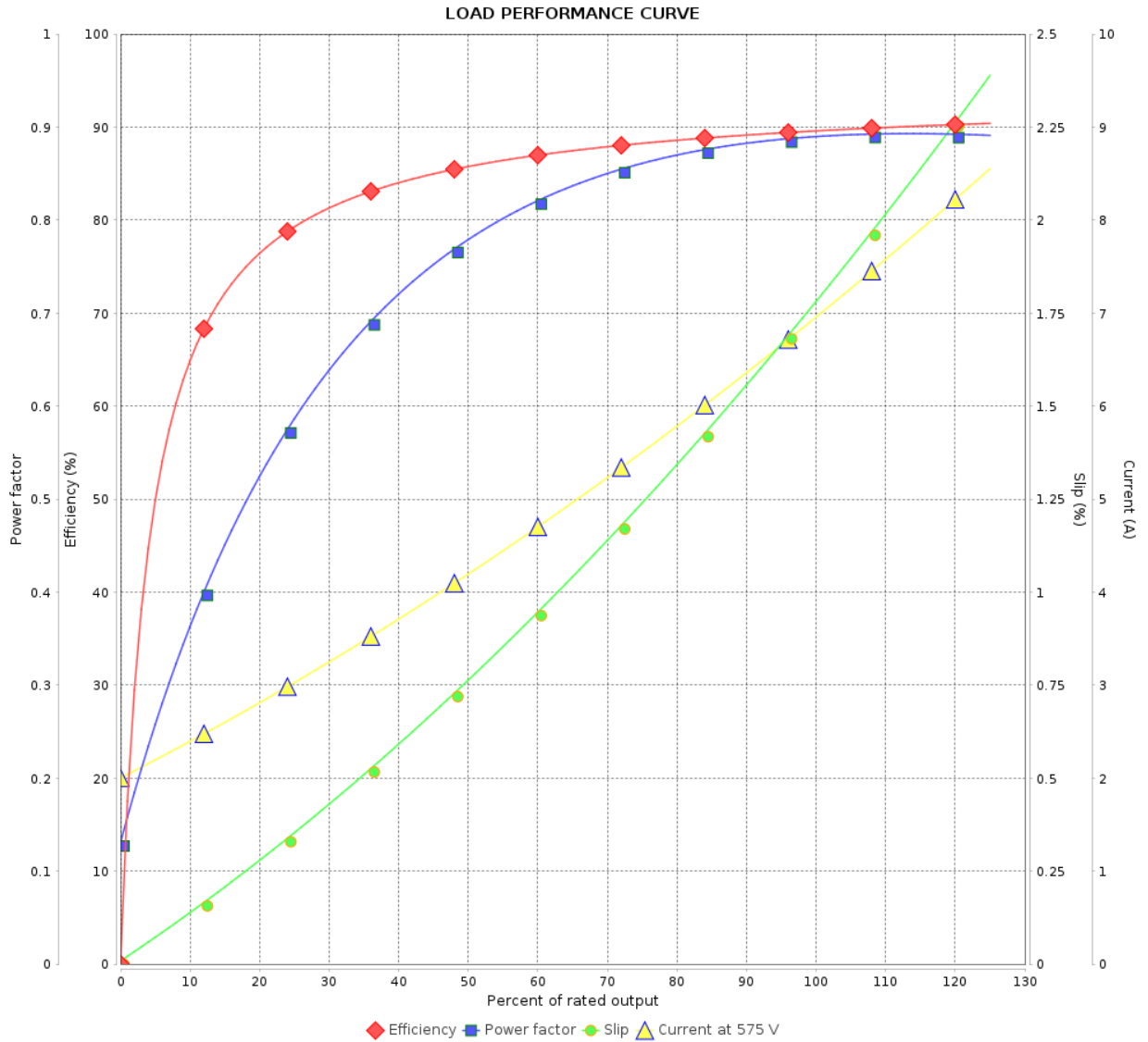
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14230049



Performance : 575 V 60 Hz 2P

Rated current : 6.94 A
 LRC : 7.2
 Rated torque : 1.54 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 0.0198 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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