

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 15349039		
Frame	: 447T	Locked rotor time	: 32s (cold) 18s (hot)			
Output	: 150 HP (110 kW)	Temperature rise	: 80 K			
Poles	: 8	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	: 143 A	Protection degree	: IP55			
L. R. Amperes	: 858 A	Cooling method	: IC411 - TEFC			
LRC	: 6.0x(Code G)	Mounting	: F-1			
No load current	: 60.0 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 890 rpm	Noise level ²	: 66.0 dB(A)			
Slip	: 1.11 %	Starting method	: Direct On Line			
Rated torque	: 122 kgfm	Approx. weight ³	: 1204 kg			
Locked rotor torque	: 170 %					
Breakdown torque	: 200 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 5.29 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.5	95.0	94.5	Max. traction : 1538 kgf		
Power Factor	0.68	0.77	0.82	Max. compression : 2742 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6319 C3		6316 C3		
Sealing	:	Viton Oil Seal		Lip Seal		
Lubrication interval	:	14016 h		15904 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

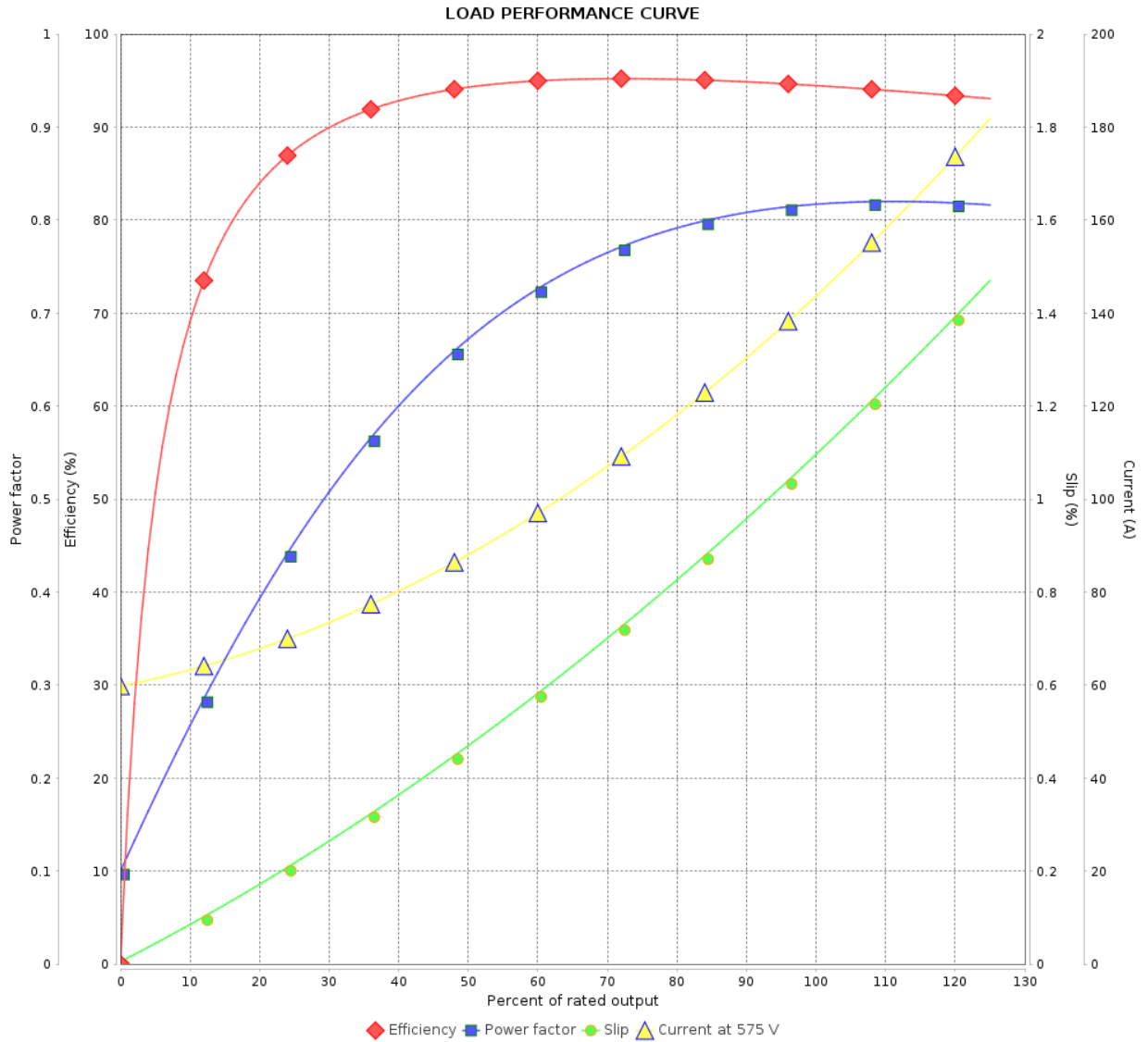
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 15349039



Performance : 575 V 60 Hz 8P

Rated current : 143 A
LRC : 6.0
Rated torque : 122 kgfm
Locked rotor torque : 170 %
Breakdown torque : 200 %
Rated speed : 890 rpm

Moment of inertia (J) : 5.29 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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