

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code :	11360969	
Frame	:	364/5T		Locked rotor time	: 36s (cold) 20s (hot)	
Output	:	60 HP (45 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	:	54.6 A		Protection degree	: IP55	
L. R. Amperes	:	382 A		Cooling method	: IC411 - TEFC	
LRC	:	7.0x(Code H)		Mounting	: F-1	
No load current	:	17.6 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	:	1780 rpm		Noise level ²	: 75.0 dB(A)	
Slip	:	1.11 %		Starting method	: Direct On Line	
Rated torque	:	24.5 kgfm		Approx. weight ³	: 463 kg	
Locked rotor torque	:	250 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	0.8767 kgm ²				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	93.5	94.1	94.5	95.0	Max. traction : 456 kgf	
Power Factor	0.48	0.72	0.82	0.87	Max. compression : 919 kgf	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	9789 h		9789 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

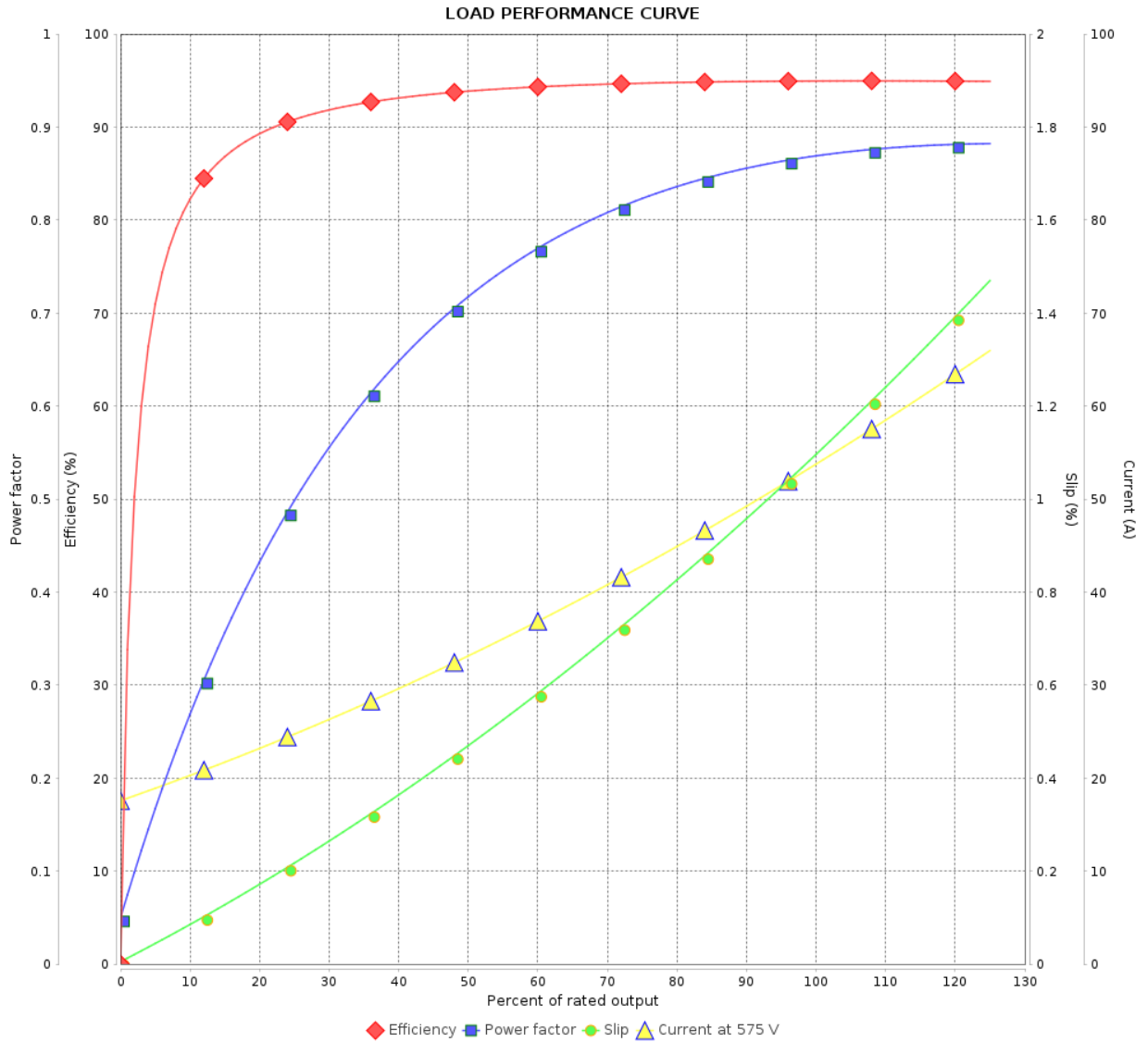
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 11360969



Performance : 575 V 60 Hz 4P

Rated current : 54.6 A
LRC : 7.0
Rated torque : 24.5 kgfm
Locked rotor torque : 250 %
Breakdown torque : 250 %
Rated speed : 1780 rpm

Moment of inertia (J) : 0.8767 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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