

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase			Product code : 14407931			
Frame	: 256T		Locked rotor time	: 63s (cold) 35s (hot)		
Output	: 10 HP (7.5 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	: 10.6 A		Protection degree	: IP55		
L. R. Amperes	: 76.6 A		Cooling method	: IC411 - TEFC		
LRC	: 7.2x(Code J)		Mounting	: F-1		
No load current	: 5.28 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1175 rpm		Noise level ²	: 59.0 dB(A)		
Slip	: 2.08 %		Starting method	: Direct On Line		
Rated torque	: 6.18 kgfm		Approx. weight ³	: 166 kg		
Locked rotor torque	: 270 %					
Breakdown torque	: 310 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1751 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	88.6	89.5	90.2	91.0	Max. traction	: 218 kgf
Power Factor	0.35	0.60	0.70	0.78	Max. compression	: 384 kgf
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6309 C3	6209 C3			
Sealing	:	Oil Seal	Lip Seal			
Lubrication interval	:	20000 h	20000 h			
Lubricant amount	:	13 g	9 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

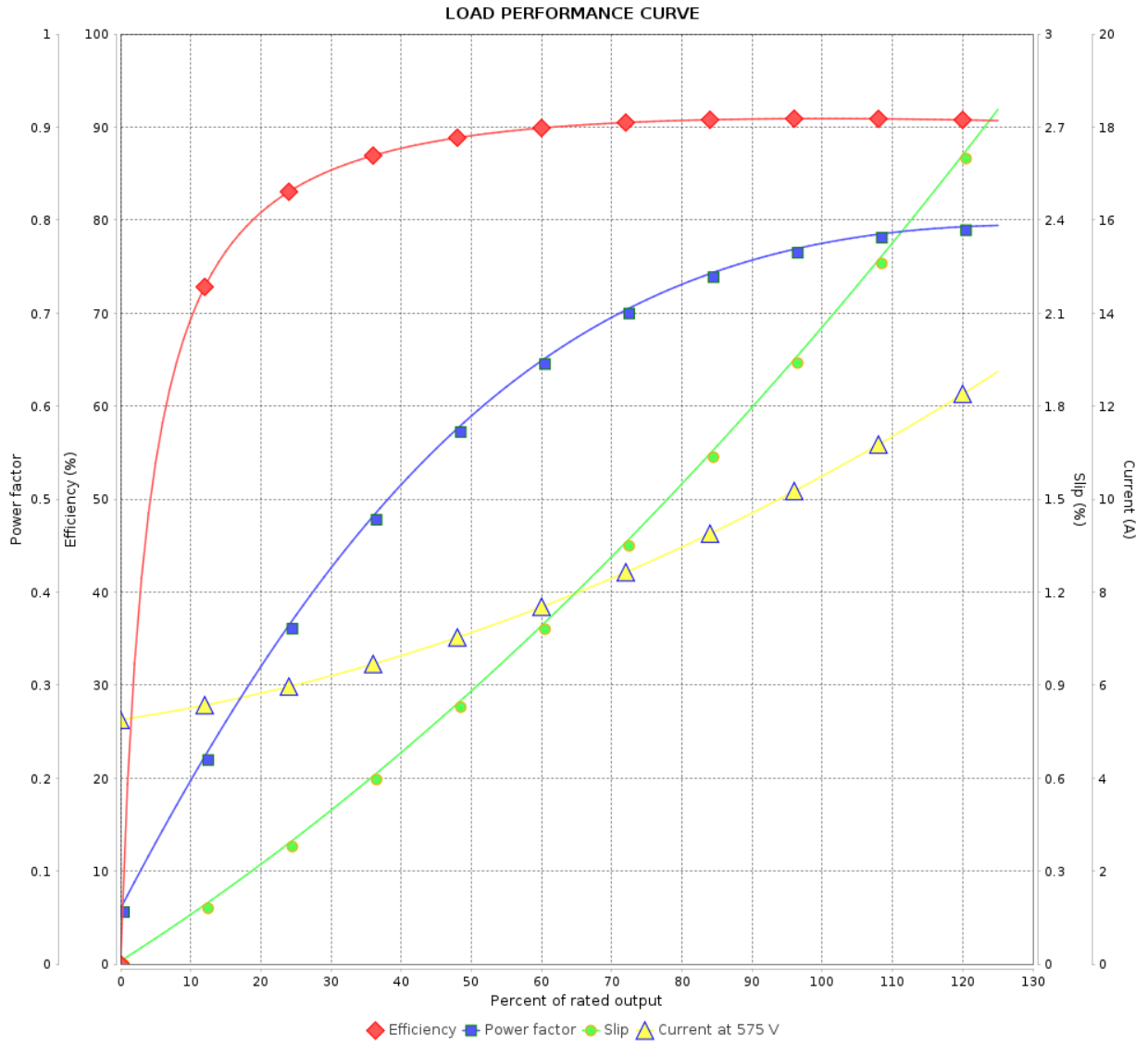
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14407931



Performance : 575 V 60 Hz 6P

Rated current : 10.6 A
 LRC : 7.2
 Rated torque : 6.18 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 310 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.1751 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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