

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14406979	
Frame	: 256T		Locked rotor time	: 36s (cold) 20s (hot)	
Output	: 20 HP (15 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	: 20.0 A		Protection degree	: IP55	
L. R. Amperes	: 150 A		Cooling method	: IC411 - TEFC	
LRC	: 7.5x(Code J)		Mounting	: F-1	
No load current	: 9.44 A		Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1770 rpm		Noise level ²	: 69.0 dB(A)	
Slip	: 1.67 %		Starting method	: Direct On Line	
Rated torque	: 8.20 kgfm		Approx. weight ³	: 169 kg	
Locked rotor torque	: 300 %				
Breakdown torque	: 300 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.1217 kgm ²				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	91.0	91.7	92.4	93.0	
Power Factor	0.38	0.63	0.75	0.81	
Foundation loads					
Max. traction : 302 kgf					
Max. compression : 471 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

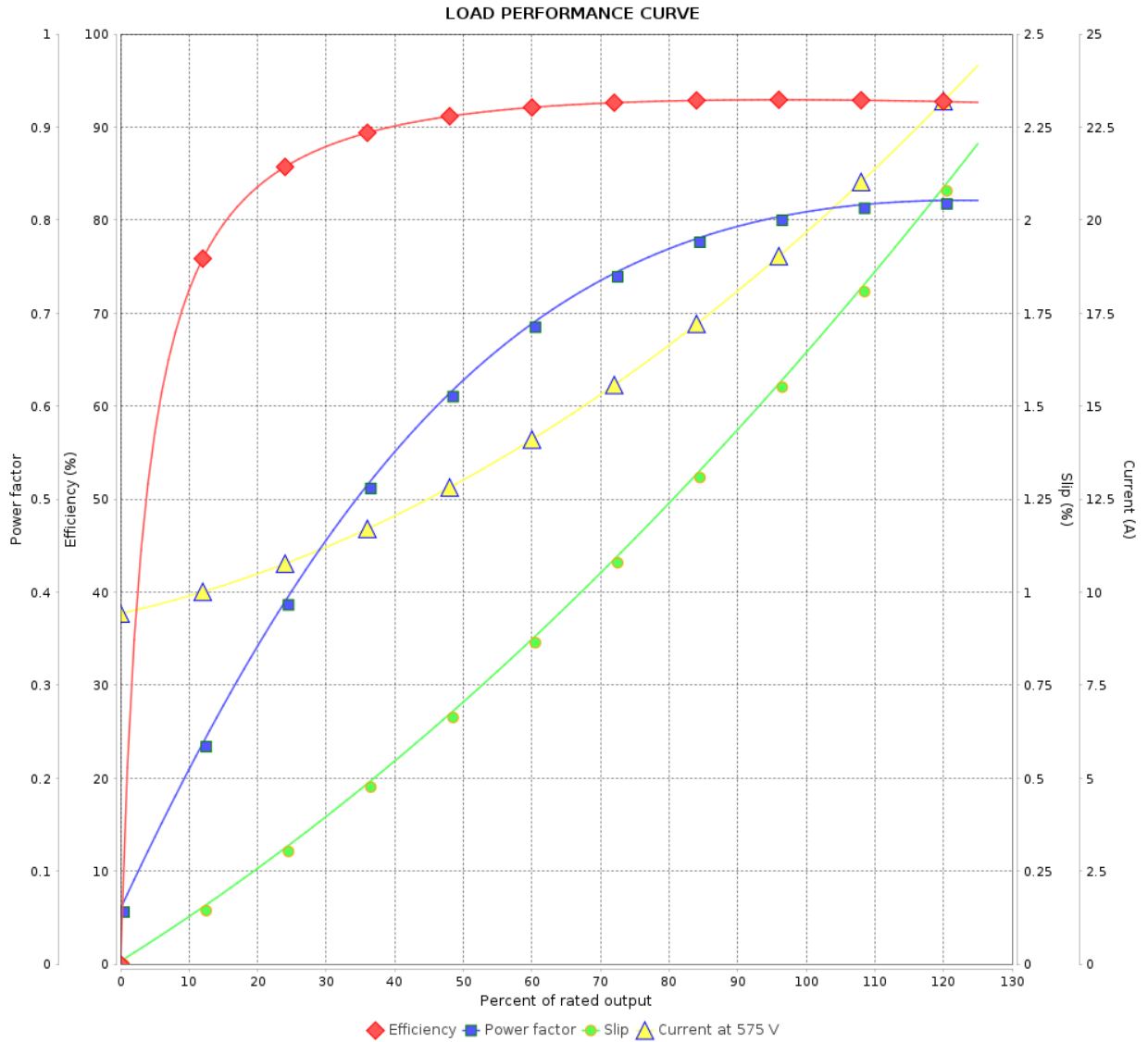
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14406979



Performance : 575 V 60 Hz 4P

Rated current : 20.0 A
LRC : 7.5
Rated torque : 8.20 kgfm
Locked rotor torque : 300 %
Breakdown torque : 300 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.1217 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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