

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 14409582	
Frame	: 286T		Locked rotor time	: 39s (cold) 22s (hot)	
Output	: 20 HP (15 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	: 19.4 A		Protection degree	: IP55	
L. R. Amperes	: 139 A		Cooling method	: IC411 - TEFC	
LRC	: 7.2x(Code H)		Mounting	: F-1	
No load current	: 7.20 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	: 12.4 kgfm		Approx. weight ³	: 224 kg	
Locked rotor torque	: 250 %				
Breakdown torque	: 260 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.3381 kgm ²				
Design	: B				
Output	25%	50%	75%	100%	
Efficiency (%)	91.5	91.7	91.7	91.7	
Power Factor	0.45	0.70	0.80	0.85	
Foundation loads					
Max. traction : 347 kgf					
Max. compression : 571 kgf					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6311 C3	6211 C3		
Sealing	:	Oil Seal	Lip Seal		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	18 g	11 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

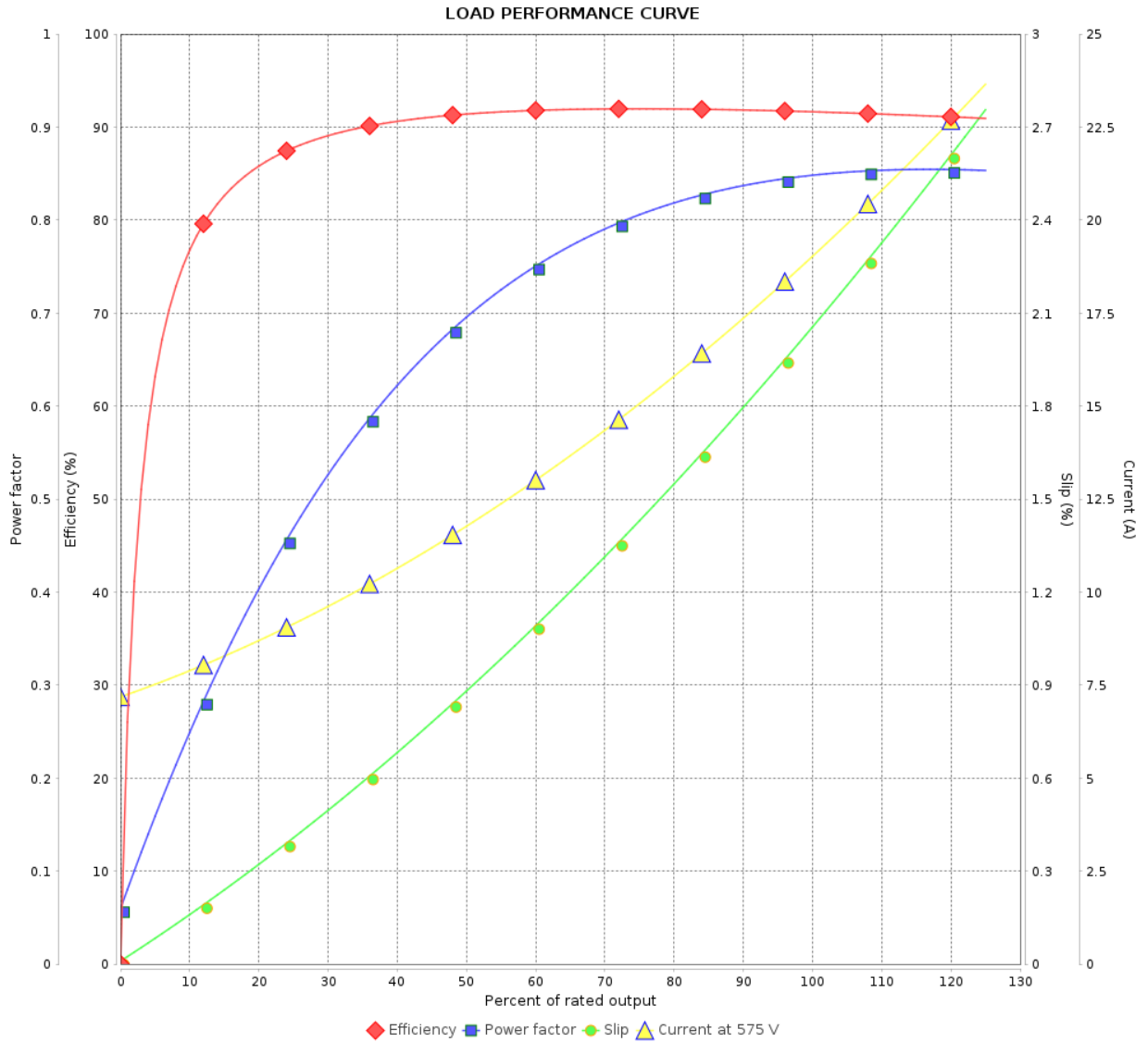
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14409582



Performance : 575 V 60 Hz 6P

Rated current : 19.4 A
LRC : 7.2
Rated torque : 12.4 kgfm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 1175 rpm

Moment of inertia (J) : 0.3381 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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