

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 15949050		
Frame	: 286TC	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	: 227 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	50%	75%	100%	Foundation loads		
Efficiency (%)	91.7	91.7	91.7	Max. traction : 346 kgf		
Power Factor	0.70	0.80	0.85	Max. compression : 573 kgf		
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6311 2RS C3		6211 2RS C3		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
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

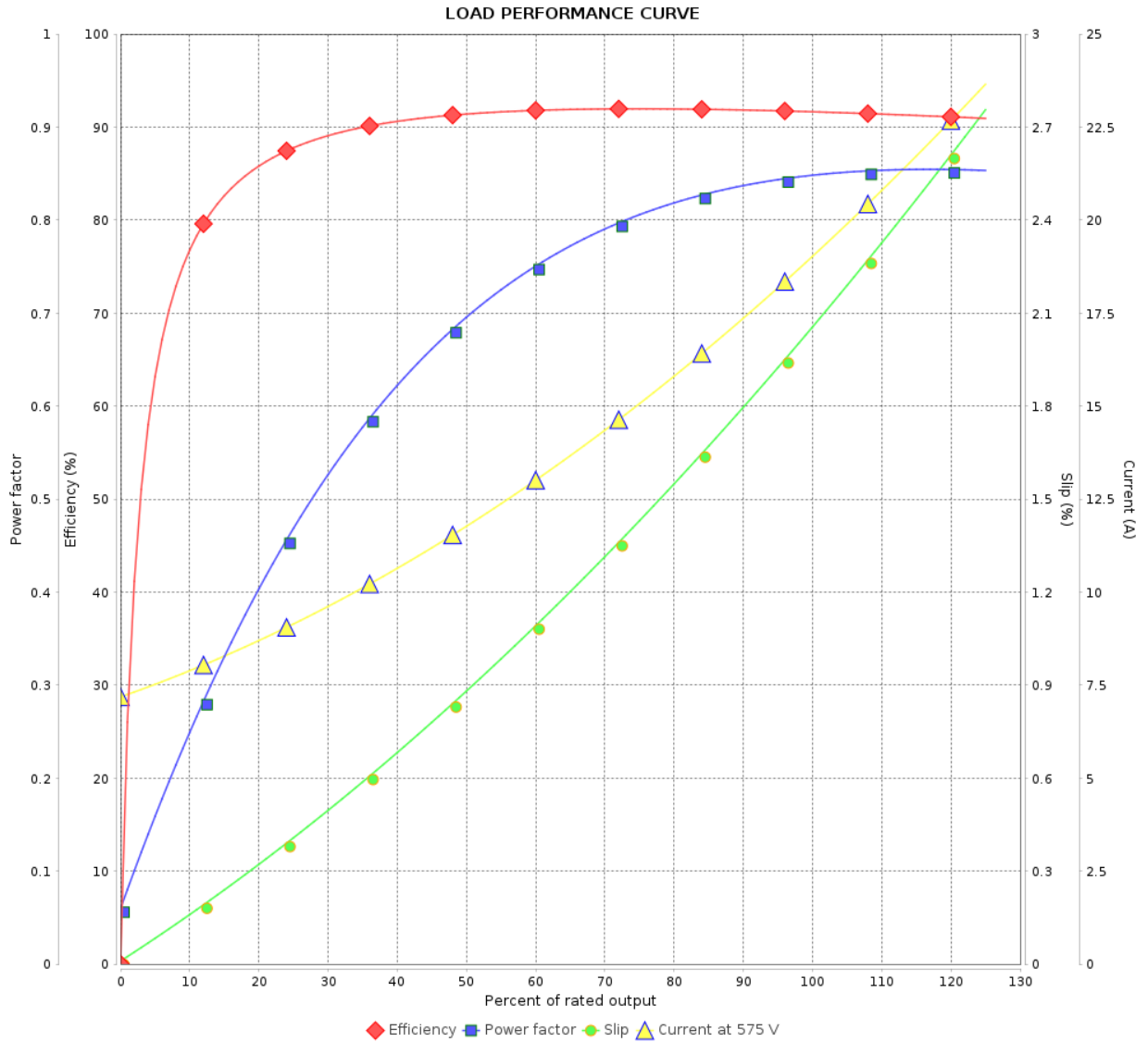
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 15949050



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

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