

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: W21 Explosion Proof NEMA Premium Efficiency Three-Phase		Product code : 16339529	
Frame	:	143/5T	Locked rotor time	: 72s (cold) 40s (hot)	
Output	:	1 HP (0.75 kW)	Temperature rise	: 80 K	
Poles	:	2	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	:	1.19 A	Protection degree	: IP55	
L. R. Amperes	:	10.7 A	Cooling method	: IC411 - TEFC	
LRC	:	9.0x(Code M)	Mounting	: F-1	
No load current	:	0.520 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	:	3500 rpm	Noise level ²	: 68.0 dB(A)	
Slip	:	2.78 %	Starting method	: Direct On Line	
Rated torque	:	0.207 kgfm	Approx. weight ³	: 31.6 kg	
Locked rotor torque	:	340 %			
Breakdown torque	:	400 %			
Insulation class	:	F			
Service factor	:	1.15			
Moment of inertia (J)	:	0.0018 kgm ²			
Design	:	B			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	75.5	77.0	77.0	Max. traction : 7 kgf	
Power Factor	0.65	0.76	0.82	Max. compression : 39 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6205 2RS	6204 2RS		
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

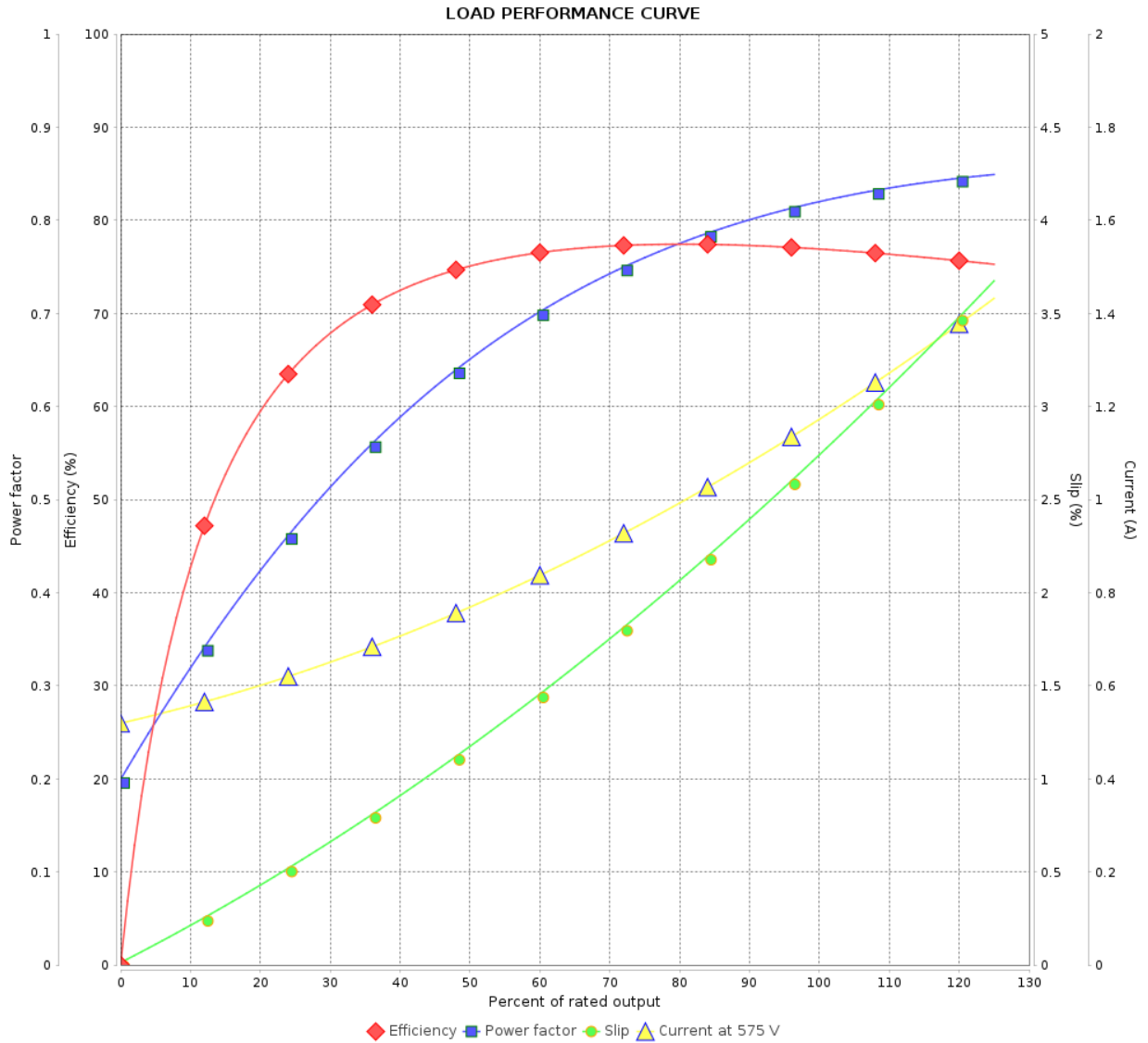
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 16339529



Performance : 575 V 60 Hz 2P

Rated current : 1.19 A
 LRC : 9.0
 Rated torque : 0.207 kgfm
 Locked rotor torque : 340 %
 Breakdown torque : 400 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0018 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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