

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: W21 PUMP/FILTER Three-Phase		Product code : 11610253
Frame	: 225S/M	Locked rotor time	: 28s (cold) 16s (hot)	
Output	: 45 kW	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: S1	
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 82.2/47.3 A	Protection degree	: IP55	
L. R. Amperes	: 575/331 A	Cooling method	: IC411 - TEFC	
LRC	: 7.0	Mounting	: B3T	
No load current	: 24.0/13.8 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1475 rpm	Noise level ²	: 70.0 dB(A)	
Slip	: 1.67 %	Starting method	: Direct On Line	
Rated torque	: 29.7 kgfm	Approx. weight ³	: 427 kg	
Locked rotor torque	: 210 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 0.7464 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	91.0	92.5	92.7	Max. traction : 671 kgf
Power Factor	0.80	0.87	0.89	Max. compression : 1098 kgf
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6314 C3	6314 C3	
Sealing	:	Lip Seal	Lip Seal	
Lubrication interval	:	11638 h	11638 h	
Lubricant amount	:	27 g	27 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 IEC 60034-1.				
Rev.	Changes Summary		Performed	Checked
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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	150 °C

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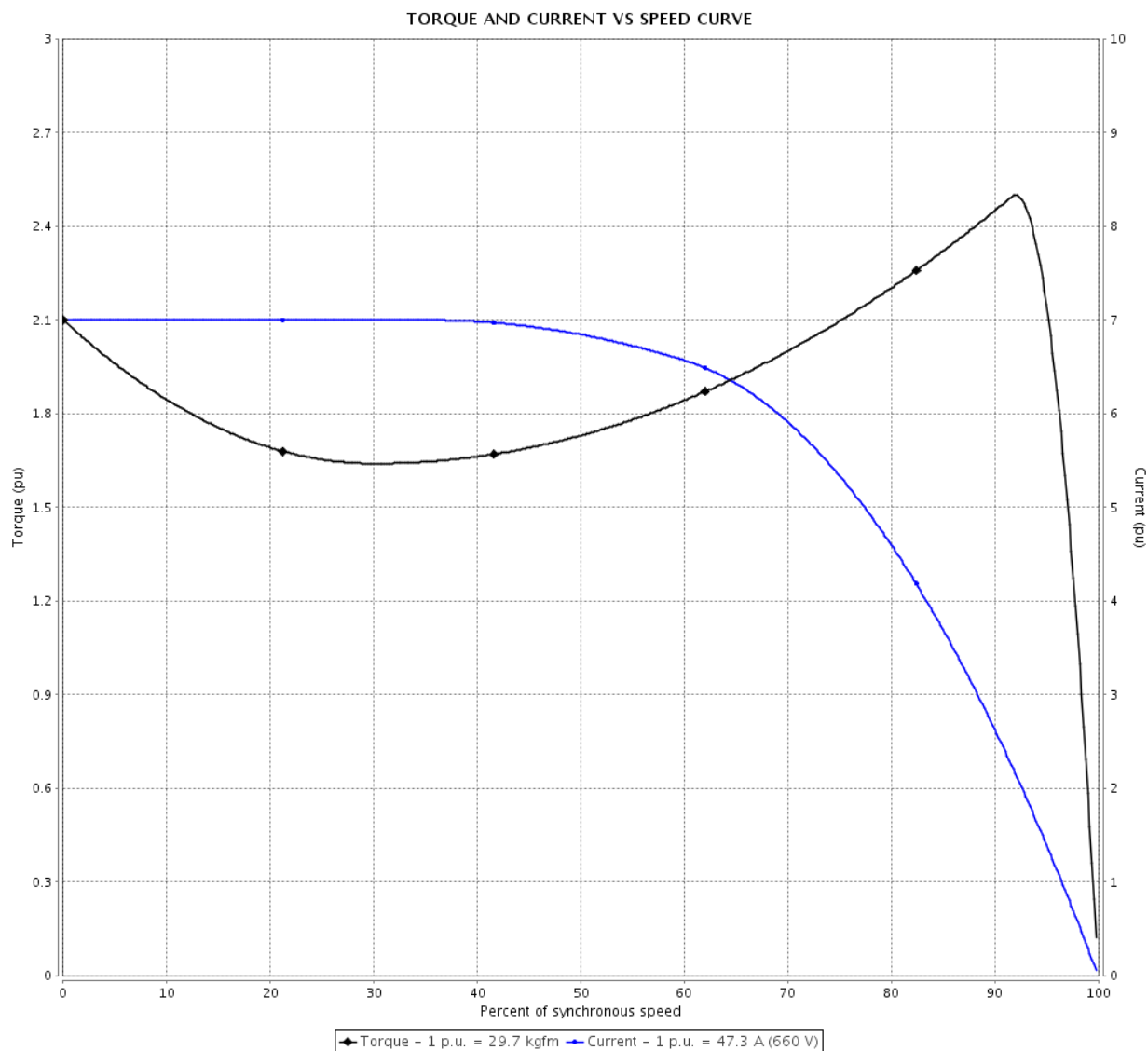
TORQUE AND CURRENT VS SPEED CURVE

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Product line : W21 PUMP/FILTER Three-Phase Product code : 11610253



Performance : 380/660 V 50 Hz 4P

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Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

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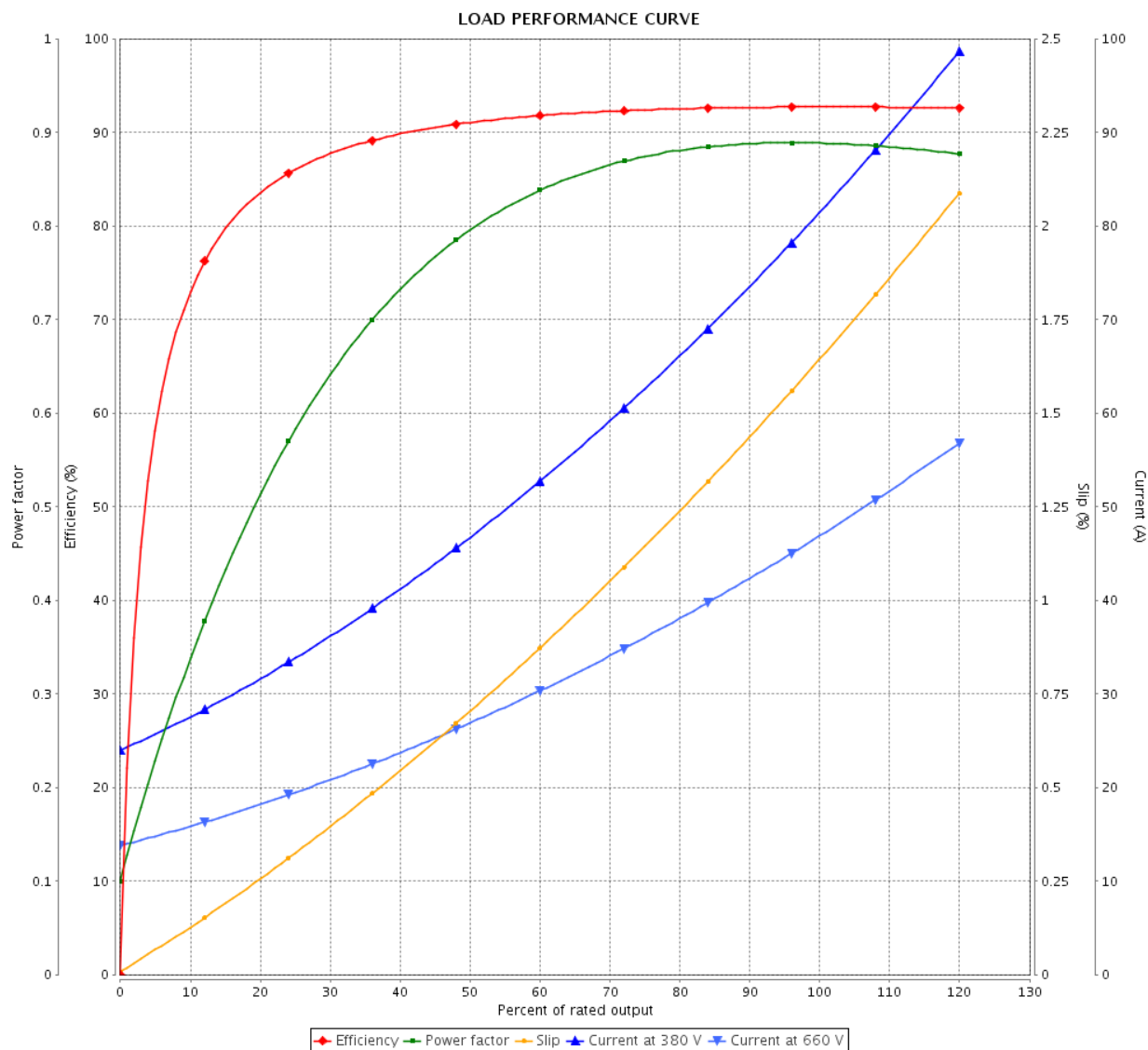
LOAD PERFORMANCE CURVE

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