

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: W21 Flameproof Motor IE1 Three-Phase EX d IIB T4		Product code : 11610257	
Frame : 225S/M Output : 45 kW Poles : 2 Frequency : 50 Hz Rated voltage : 400/690 V Rated current : 77.1/44.7 A L. R. Amperes : 609/353 A LRC : 7.9 No load current : 18.0/10.4 A Rated speed : 2965 rpm Slip : 1.17 % Rated torque : 14.8 kgfm Locked rotor torque : 260 % Breakdown torque : 280 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.4276 kgm ² Design : N		Locked rotor time : 43s (cold) 24s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 82.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 459 kg			
Output	50%	75%	100%	Foundation loads Max. traction : 213 kgf Max. compression : 672 kgf	
Efficiency (%)	91.0	92.7	92.7		
Power Factor	0.84	0.88	0.90		
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314 C3	6314 C3		
Sealing	:	Lip Seal	Lip Seal		
Lubrication interval	:	4548 h	4548 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.		
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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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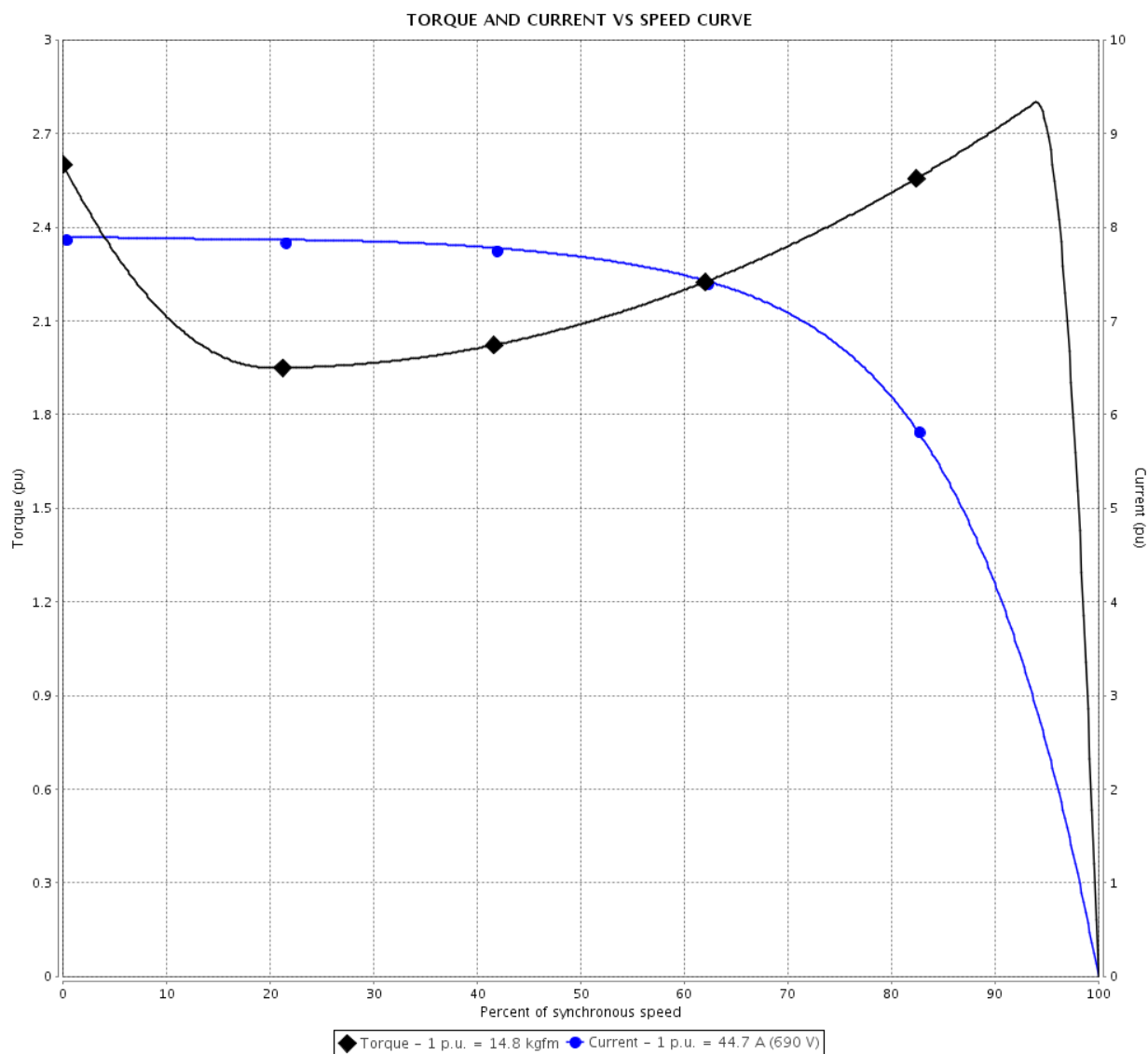
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor IE1 Three-Phase Product code : 11610257



Performance : 400/690 V 50 Hz 2P

Rated current	: 77.1/44.7 A	Moment of inertia (J)	: 0.4276 kgm ²
LRC	: 7.9	Duty cycle	: S1
Rated torque	: 14.8 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: N

Locked rotor time : 43s (cold) 24s (hot)

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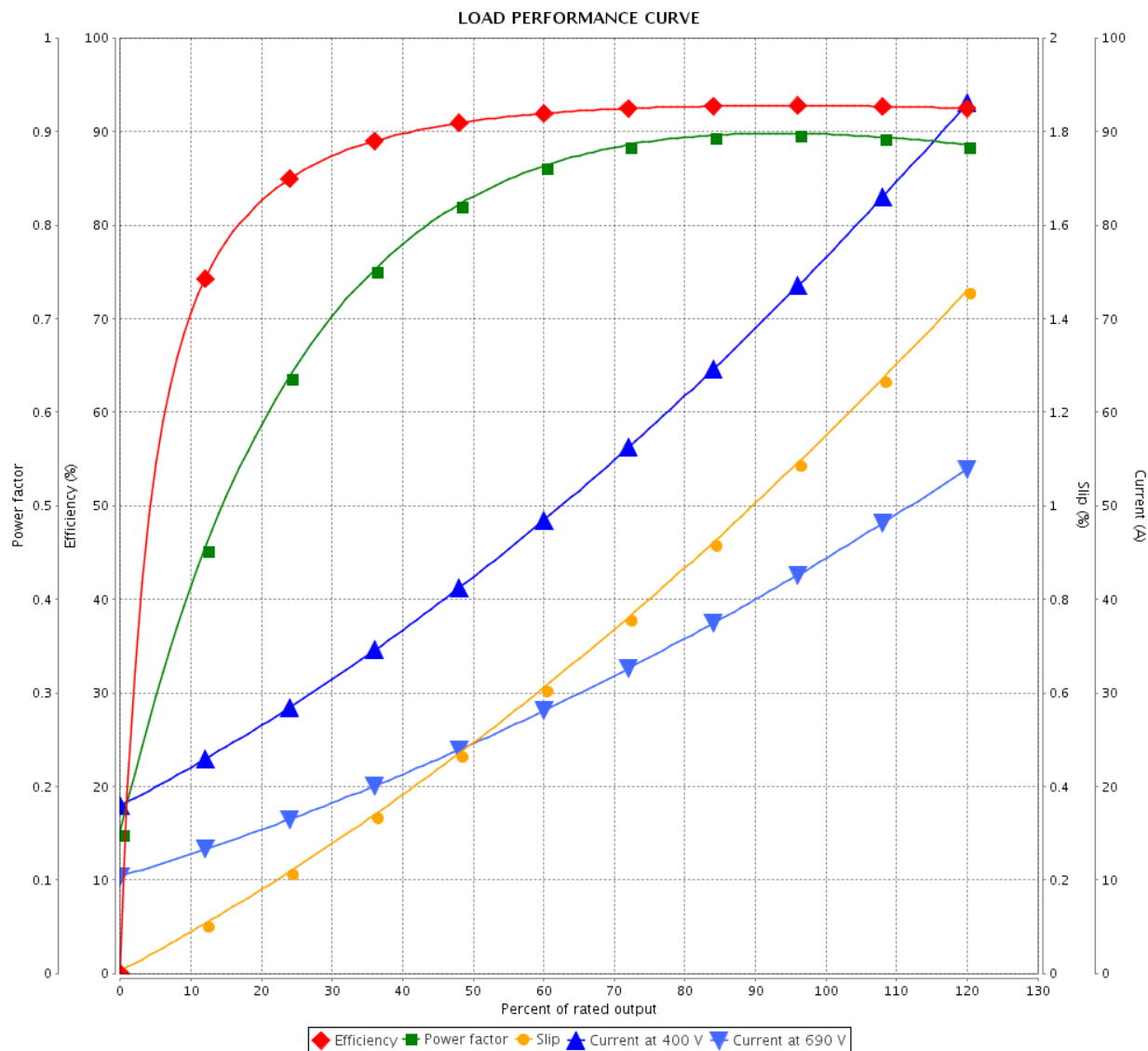
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor IE1 Three-Phase Product code : 11610257



Performance : 400/690 V 50 Hz 2P

Rated current : 77.1/44.7 A
LRC : 7.9
Rated torque : 14.8 kgfm
Locked rotor torque : 260 %
Breakdown torque : 280 %
Rated speed : 2965 rpm

Moment of inertia (J) : 0.4276 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

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