

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: W22 IE2 Three-Phase		Product code : 11253536
Frame	: 315S/M	Locked rotor time	: 39s (cold) 22s (hot)	
Output	: 132 kW	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: S1	
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 230/133 A	Protection degree	: IP55	
L. R. Amperes	: 1610/933 A	Cooling method	: IC411 - TEFC	
LRC	: 7.0	Mounting	: B3T	
No load current	: 75.0/43.5 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1490 rpm	Noise level ²	: 71.0 dB(A)	
Slip	: 0.67 %	Starting method	: Direct On Line	
Rated torque	: 86.3 kgfm	Approx. weight ³	: 987 kg	
Locked rotor torque	: 229 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 3.12 kgm ²			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	94.6	95.2	95.2	Max. traction : 1145 kgf
Power Factor	0.76	0.84	0.87	Max. compression : 2132 kgf
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6319 C3	6316 C3	
Sealing	:	WSeal	WSeal	
Lubrication interval	:	11000 h	13000 h	
Lubricant amount	:	45 g	34 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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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE

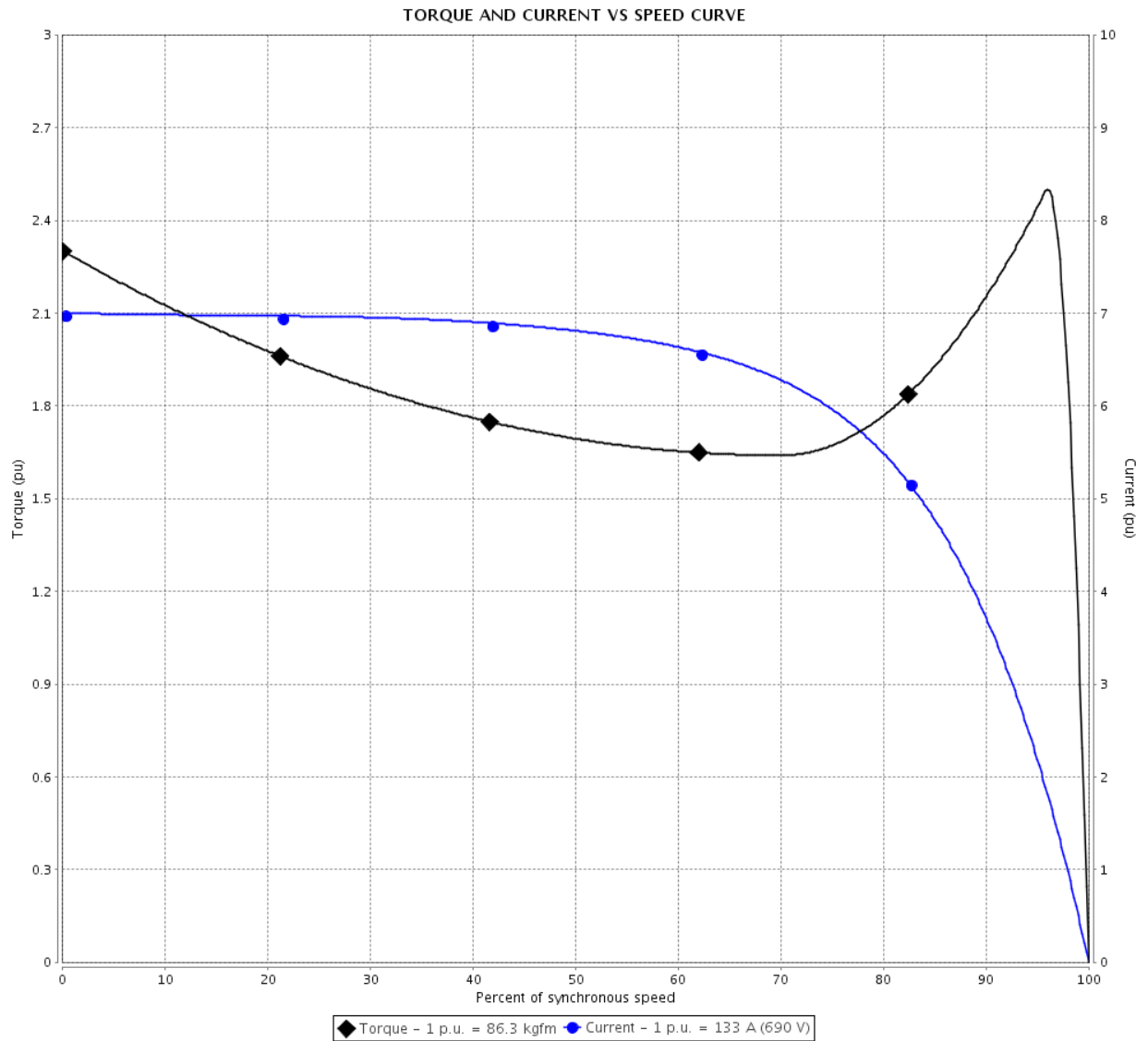
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE2 Three-Phase

Product code : 11253536



Performance : 400/690 V 50 Hz 4P

Rated current : 230/133 A
LRC : 7.0
Rated torque : 86.3 kgfm
Locked rotor torque : 229 %
Breakdown torque : 250 %
Rated speed : 1490 rpm

Moment of inertia (J) : 3.12 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

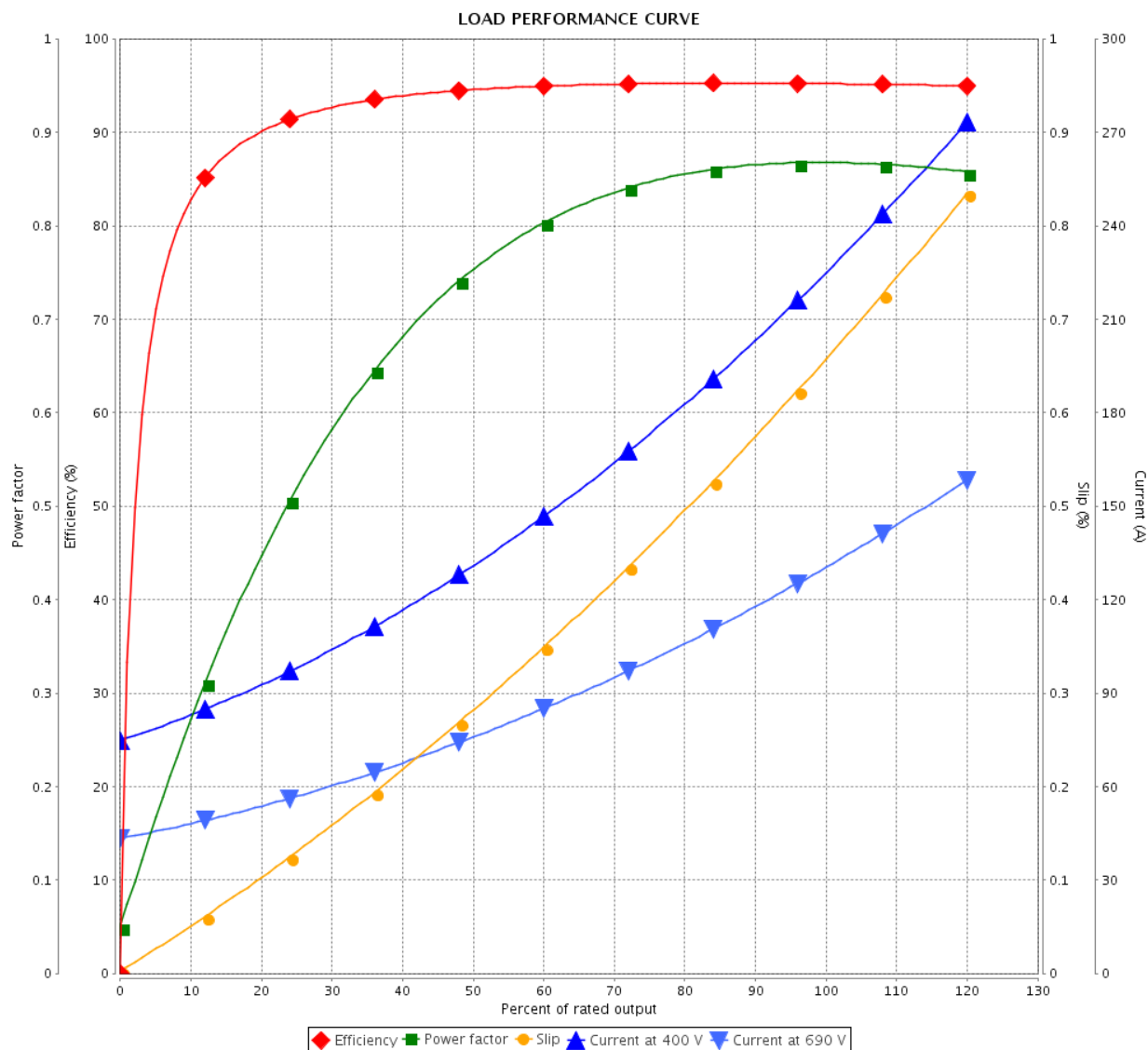
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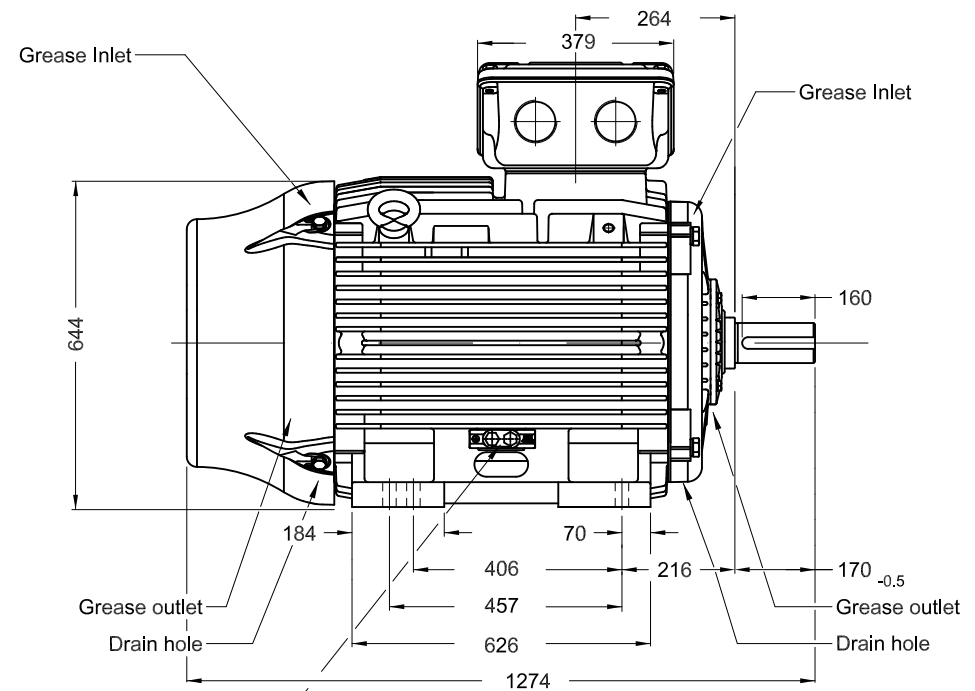


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132 kW 04 Poles 50 Hz

Dimensions in mm

2015

ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER		THREE PHASE W22 MOTOR - HIGH EFF			PREVIEW			
CHECKED			FRAME 315S/M IP55 TEFC						
RELEASED						WDD			
REL DT.		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			