

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Multimounting IE2 Three-Phase		Product code : 11657148
Frame	: 132S	Locked rotor time	: 23s (cold) 13s (hot)	
Output	: 7.5 kW	Temperature rise	: 80 K	
Poles	: 2	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	: 14.1/8.17 A	Protection degree	: IP55	
L. R. Amperes	: 95.9/55.6 A	Cooling method	: IC411 - TEFC	
LRC	: 6.8	Mounting	: B35T	
No load current	: 5.20/3.01 A	Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 2910 rpm	Noise level <sup>2</sup>	: 67.0 dB(A)	
Slip	: 3.00 %	Starting method	: Direct On Line	
Rated torque	: 2.50 kgfm	Approx. weight <sup>3</sup>	: 62.8 kg	
Locked rotor torque	: 220 %			
Breakdown torque	: 290 %			
Insulation class	: F			
Service factor	: 1.00			
Moment of inertia (J)	: 0.0251 kgm <sup>2</sup>			
Design	: N			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	88.0	88.5	88.5	Max. traction : 95 kgf
Power Factor	0.72	0.82	0.87	Max. compression : 158 kgf
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6308 ZZ	6207 ZZ	
Sealing	:	Oil Seal	Oil 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 IEC 60034-1.				
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by				
Date	30/04/2020		Page 1 / 4	Revision

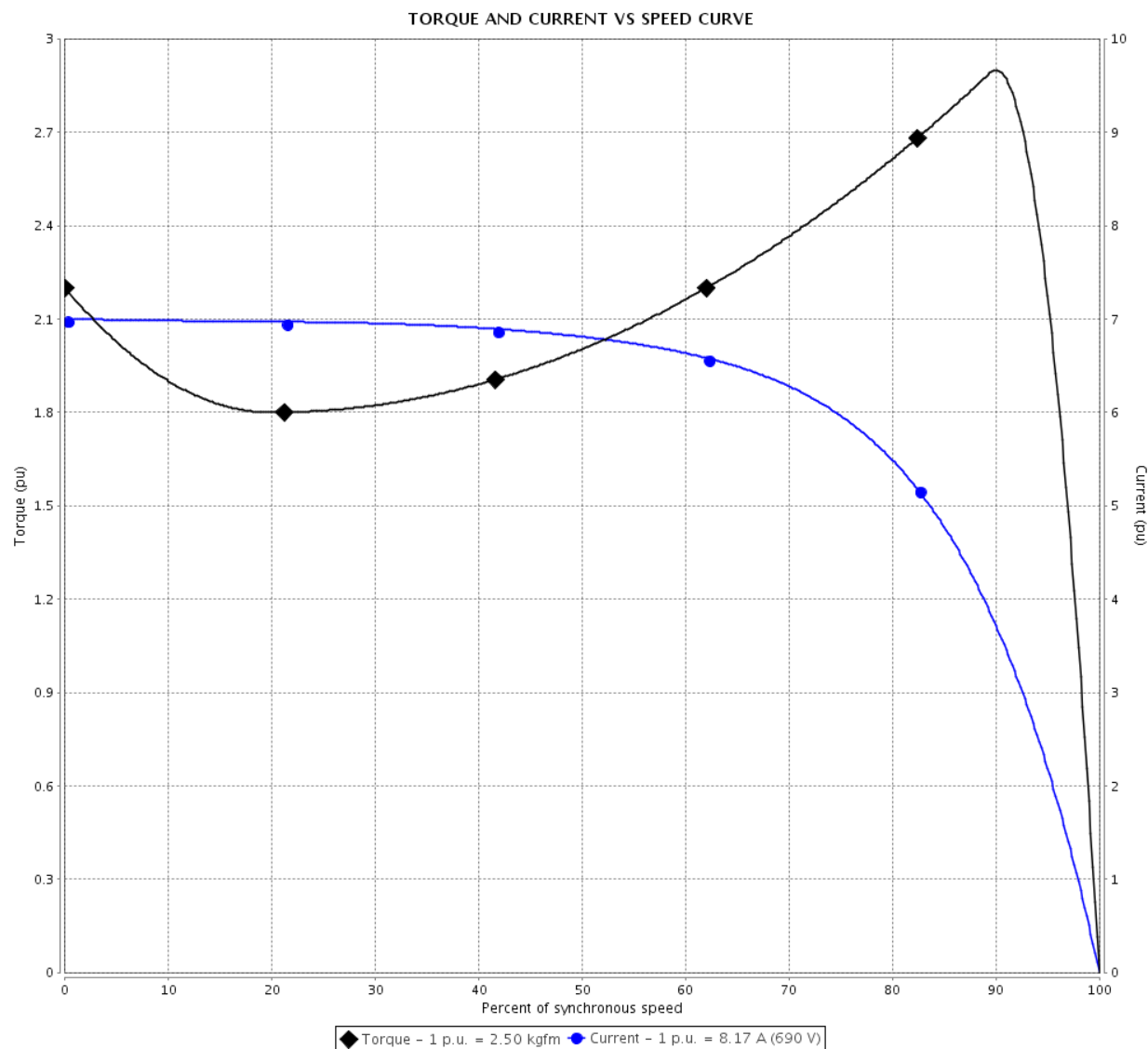
# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE2 Three-Phase Product code : 11657148



Performance : 400/690 V 50 Hz 2P

Rated current : 14.1/8.17 A  
 LRC : 6.8  
 Rated torque : 2.50 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 290 %  
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0251 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Locked rotor time : 23s (cold) 13s (hot)

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Checked by				
Date	30/04/2020			

# LOAD PERFORMANCE CURVE

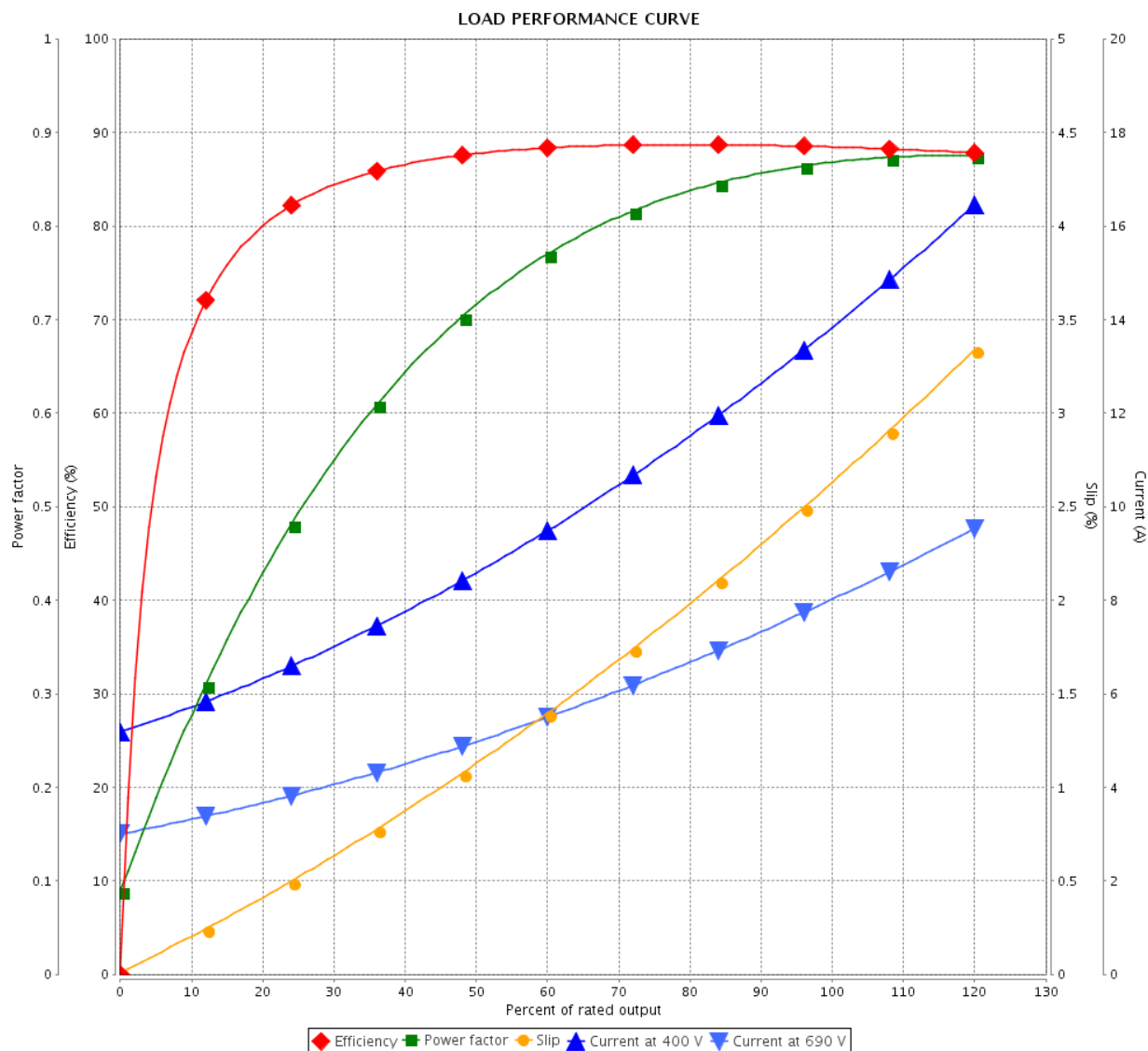
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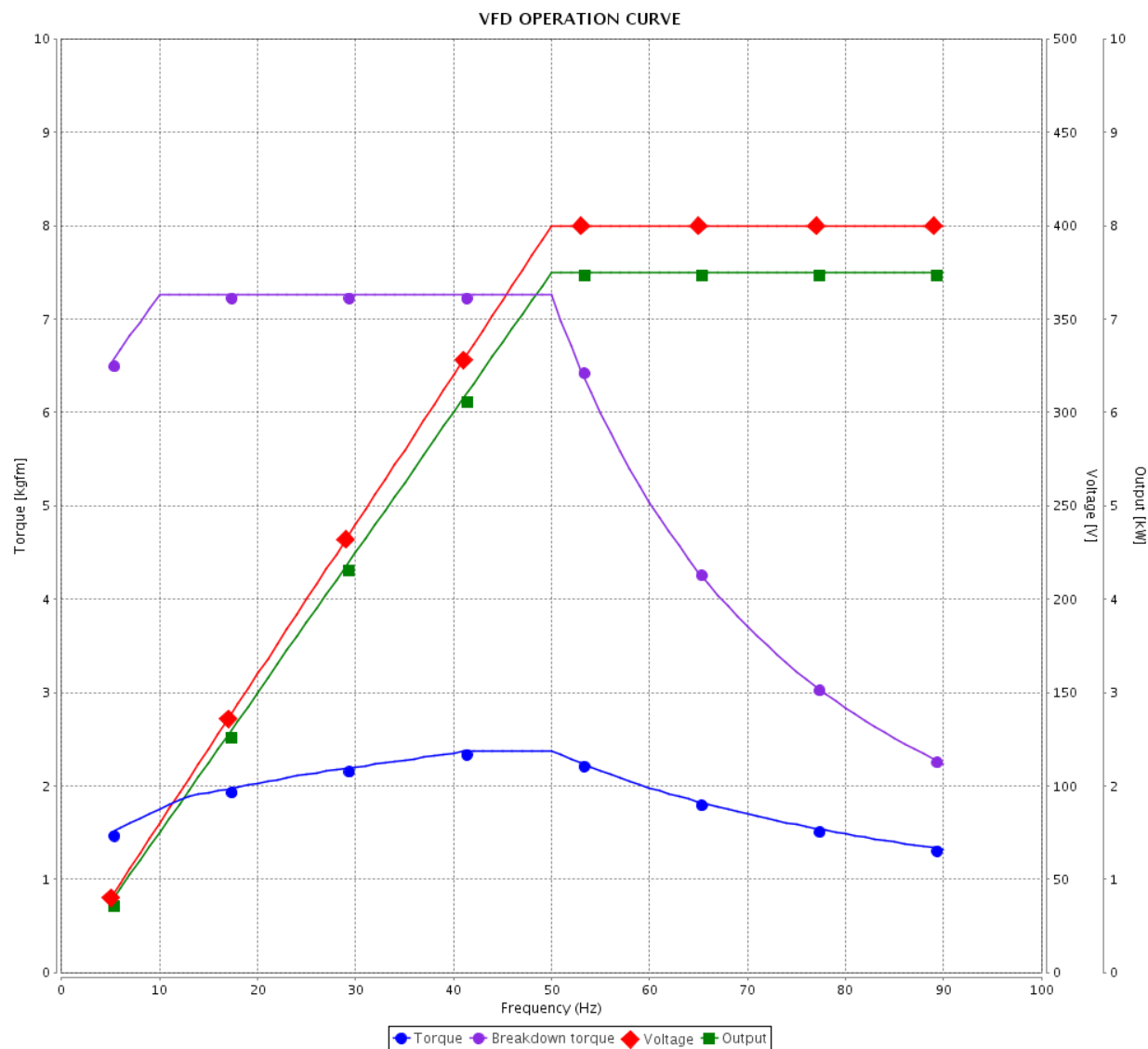
# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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 LRC : 6.8  
 Rated torque : 2.50 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 290 %  
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0251 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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