

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 Tru-Metric IE3 Three-Phase	Product code : 12613699			
Frame : 160M Insulation class : F Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : N	Cooling method : IC411 - TEFC Mounting : B35L(E) Rotation <sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line Approx. weight <sup>2</sup> : 141 kg Moment of inertia (J) : 0.1004 kgm <sup>2</sup>			
Output [HP]	15			
Poles	4			
Frequency [Hz]	50			
Rated voltage [V]	380			
Rated current [A]	21.5			
L. R. Amperes [A]	161			
LRC [A]	7.5			
No load current [A]	9.00			
Rated speed [RPM]	1470			
Slip [%]	2.00			
Rated torque [kgfm]	7.41			
Locked rotor torque [%]	220			
Breakdown torque [%]	250			
Service factor	1.25			
Temperature rise	80 K			
Locked rotor time	25s (cold) 14s (hot)			
Noise level <sup>2</sup>	61.0 dB(A)			
Efficiency (%)	25%			
	50%			
	75%			
	100%			
Power Factor	25%			
	50%			
	75%			
	100%			
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)			
	P2 (0,5;1,0)			
	P3 (0,25;1,0)			
	P4 (0,9;0,5)			
	P5 (0,5;0,5)			
	P6 (0,5;0,25)			
	P7 (0,25;0,25)			
Bearing type : Drive end 6309 C3 Non drive end 6209 C3 Sealing : V'Ring V'Ring Lubrication interval : 20000 h 20000 h Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM	Foundation loads Max. traction : 247 kgf Max. compression : 388 kgf			
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.				
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## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Notes

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# LOAD PERFORMANCE CURVE

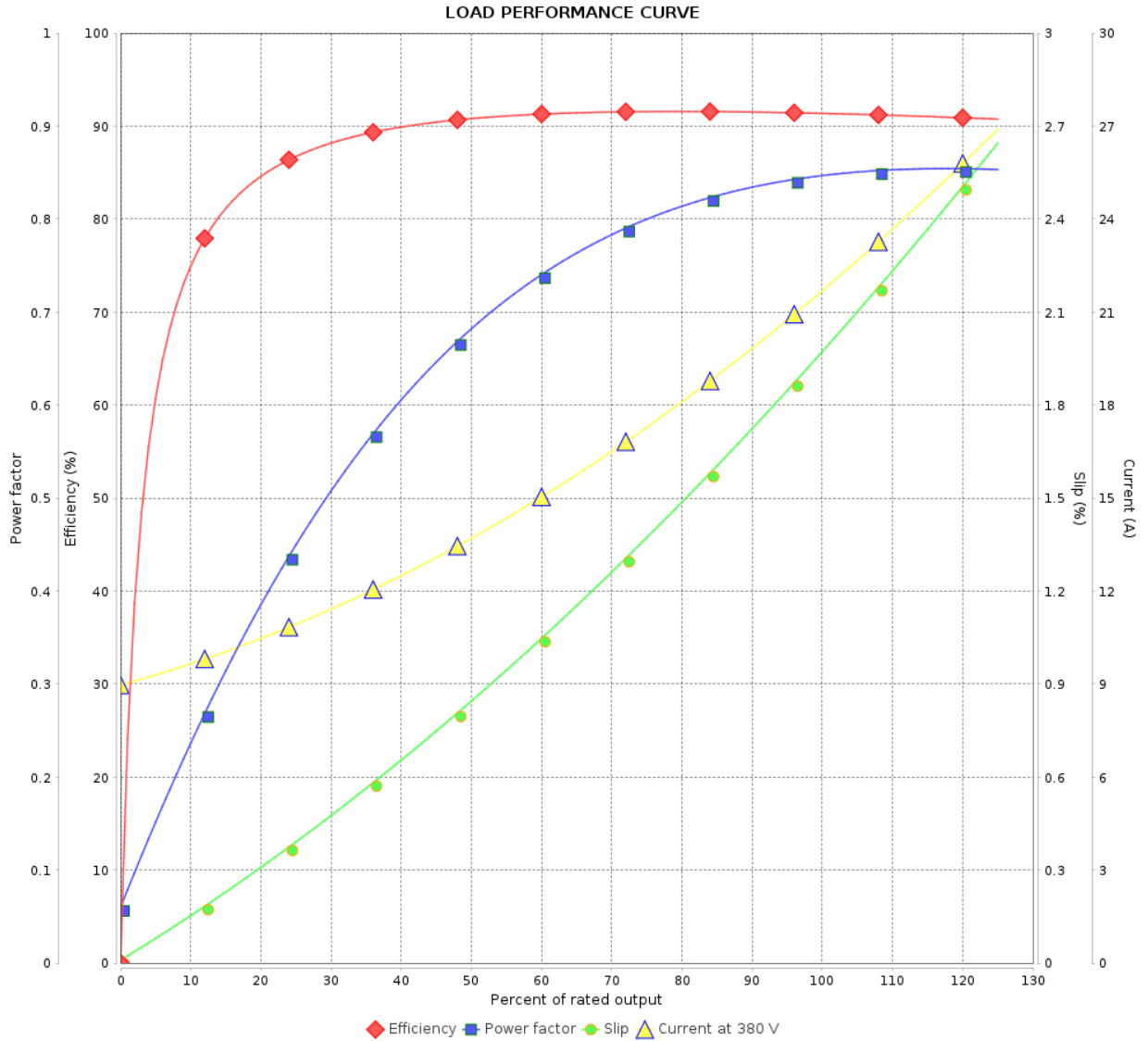
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 12613699



Performance : 380 V 50 Hz 4P

Rated current : 21.5 A  
 LRC : 7.5  
 Rated torque : 7.41 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1004 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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# LOAD PERFORMANCE CURVE

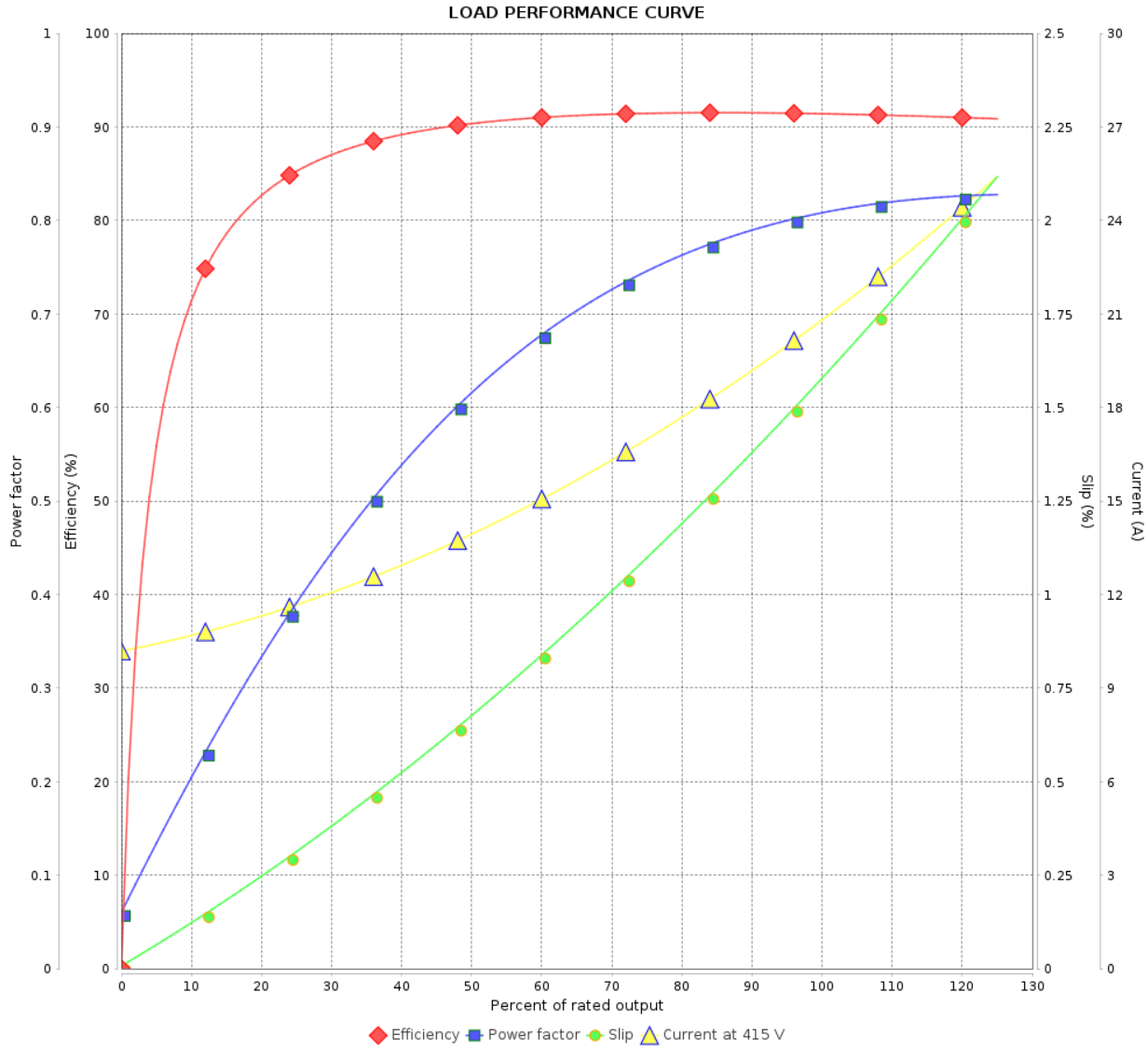
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 12613699



Performance : 415 V 50 Hz 4P

Rated current : 20.7 A  
 LRC : 8.5  
 Rated torque : 7.38 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 310 %  
 Rated speed : 1476 rpm

Moment of inertia (J) : 0.1004 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

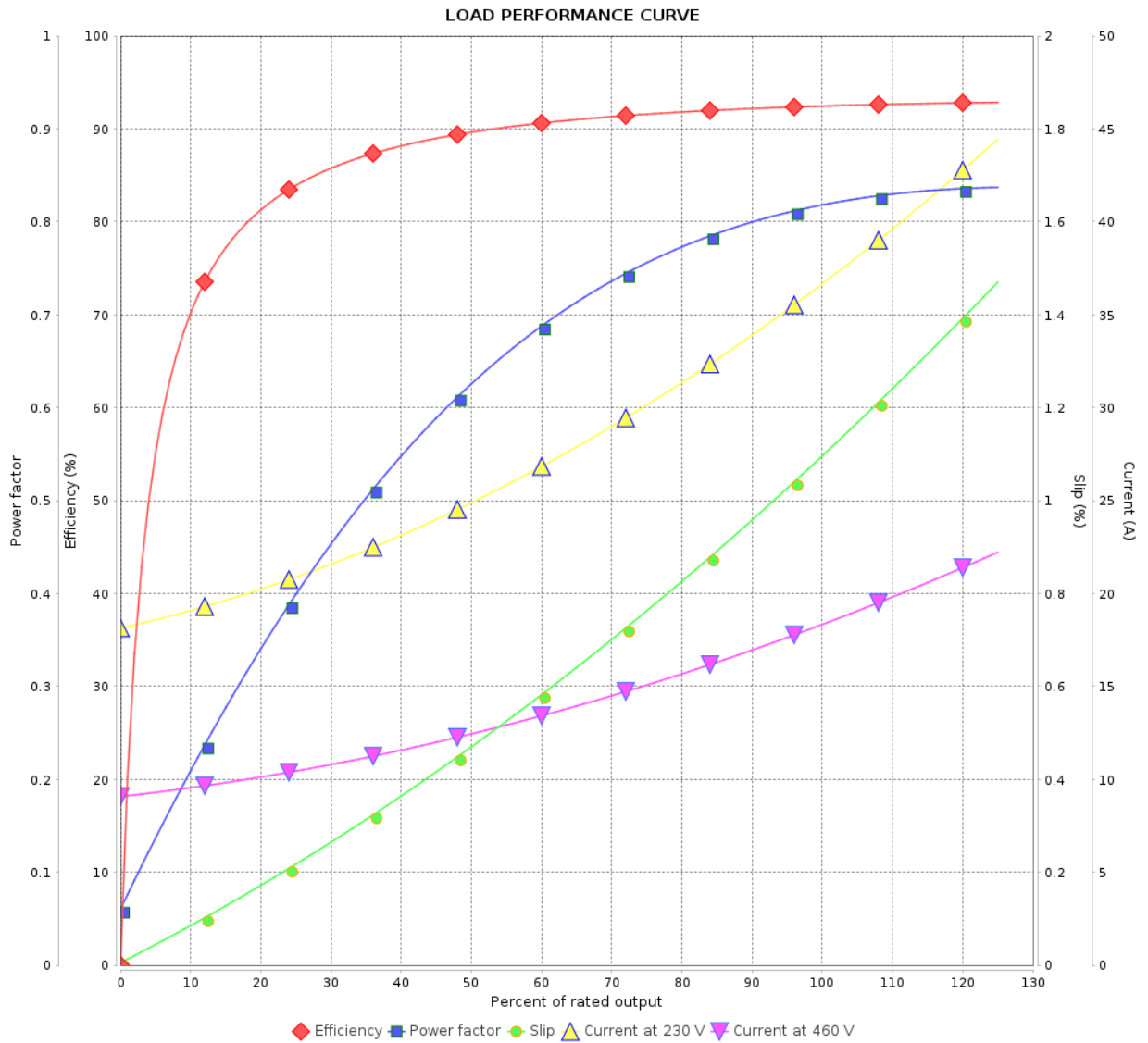


Customer : \_\_\_\_\_

Product line : W22 Tru-Metric IE3 Three-Phase

Product code :

12613699



Performance : 230/460 V 60 Hz 4P

Rated current : 36.4/18.2 A  
 LRC : 8.5  
 Rated torque : 6.12 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 330 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.1004 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

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