

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Multimounting High Efficiency Three-Phase		Product code : 16122659
Frame	: 63	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: B35L(E)	
Duty cycle	: S1	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 6.0 kg	
Protection degree	: IP55	Moment of inertia (J)	: 0.0001 kgm <sup>2</sup>	
Design	: N			
Output [HP]	0.25	0.25	0.25	
Poles	2	2	2	
Frequency [Hz]	50	50	60	
Rated voltage [V]	380	415	230/460	
Rated current [A]	0.518	0.550	1.01/0.504	
L. R. Amperes [A]	2.28	2.42	5.04/2.52	
LRC [A]	4.4	4.4	5.0	
No load current [A]	0.430	0.540	0.900/0.450	
Rated speed [RPM]	2735	2780	3400	
Slip [%]	8.83	7.33	5.56	
Rated torque [kgfm]	0.066	0.065	0.053	
Locked rotor torque [%]	220	270	320	
Breakdown torque [%]	229	280	350	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level <sup>2</sup>	52.0 dB(A)	52.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%			
	50%	60.0	58.0	55.0
	75%	64.0	60.0	62.0
	100%	66.0	65.0	64.0
Power Factor	25%			
	50%	0.58	0.48	0.48
	75%	0.70	0.60	0.60
	100%	0.80	0.70	0.70
Bearing type	: Drive end 6201 ZZ Non drive end 6201 ZZ	Foundation loads		
Sealing	: Oil Seal Oil Seal	Max. traction	: 4 kgf	
Lubrication interval	: - -	Max. compression	: 10 kgf	
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 NEMA MG-1.		
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by				
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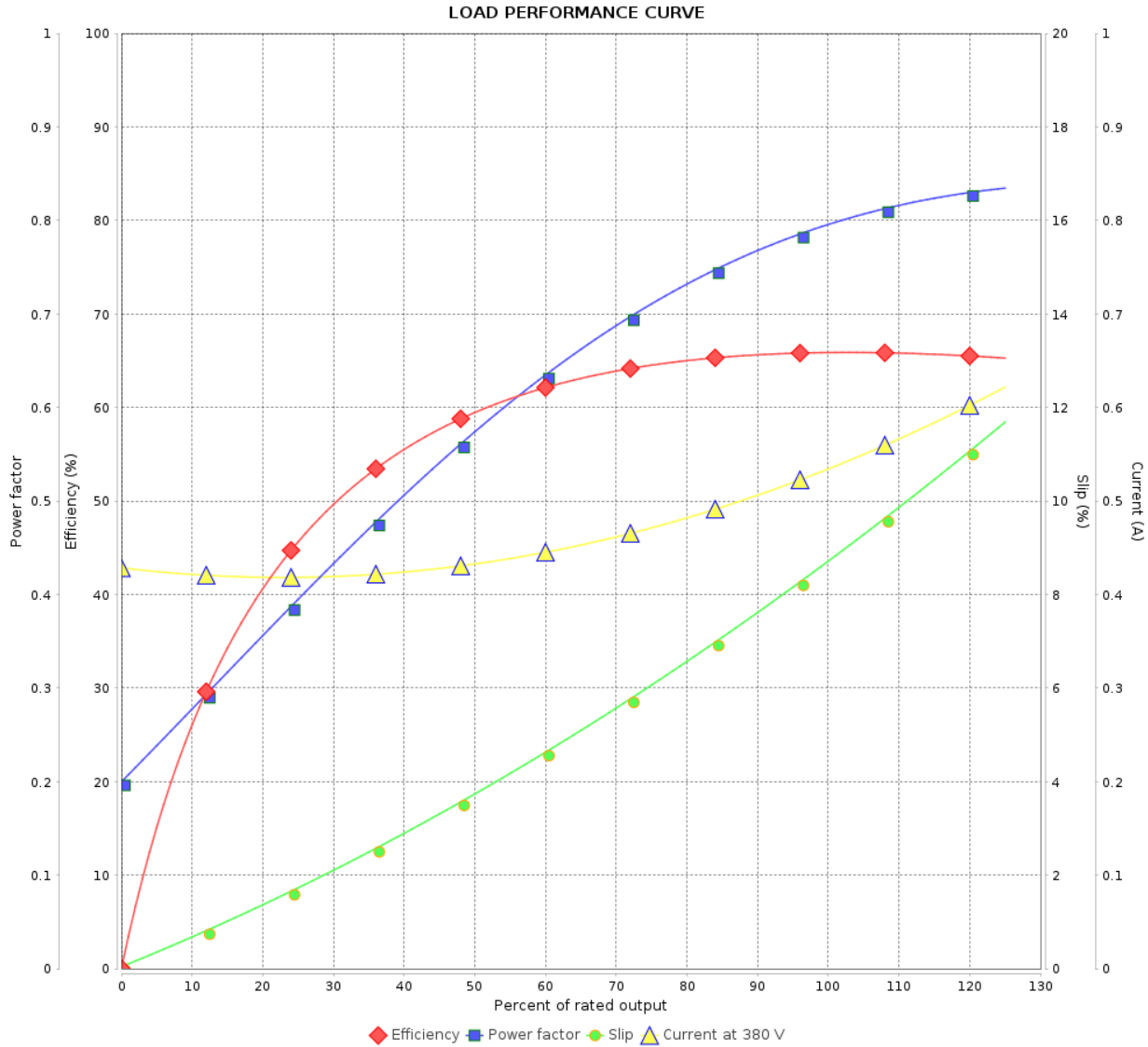
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Multimounting High Efficiency Three-Phase      Product code : 16122659



Performance : 380 V 50 Hz 2P

Rated current : 0.518 A  
 LRC : 4.4  
 Rated torque : 0.066 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 229 %  
 Rated speed : 2735 rpm

Moment of inertia (J) : 0.0001 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : N

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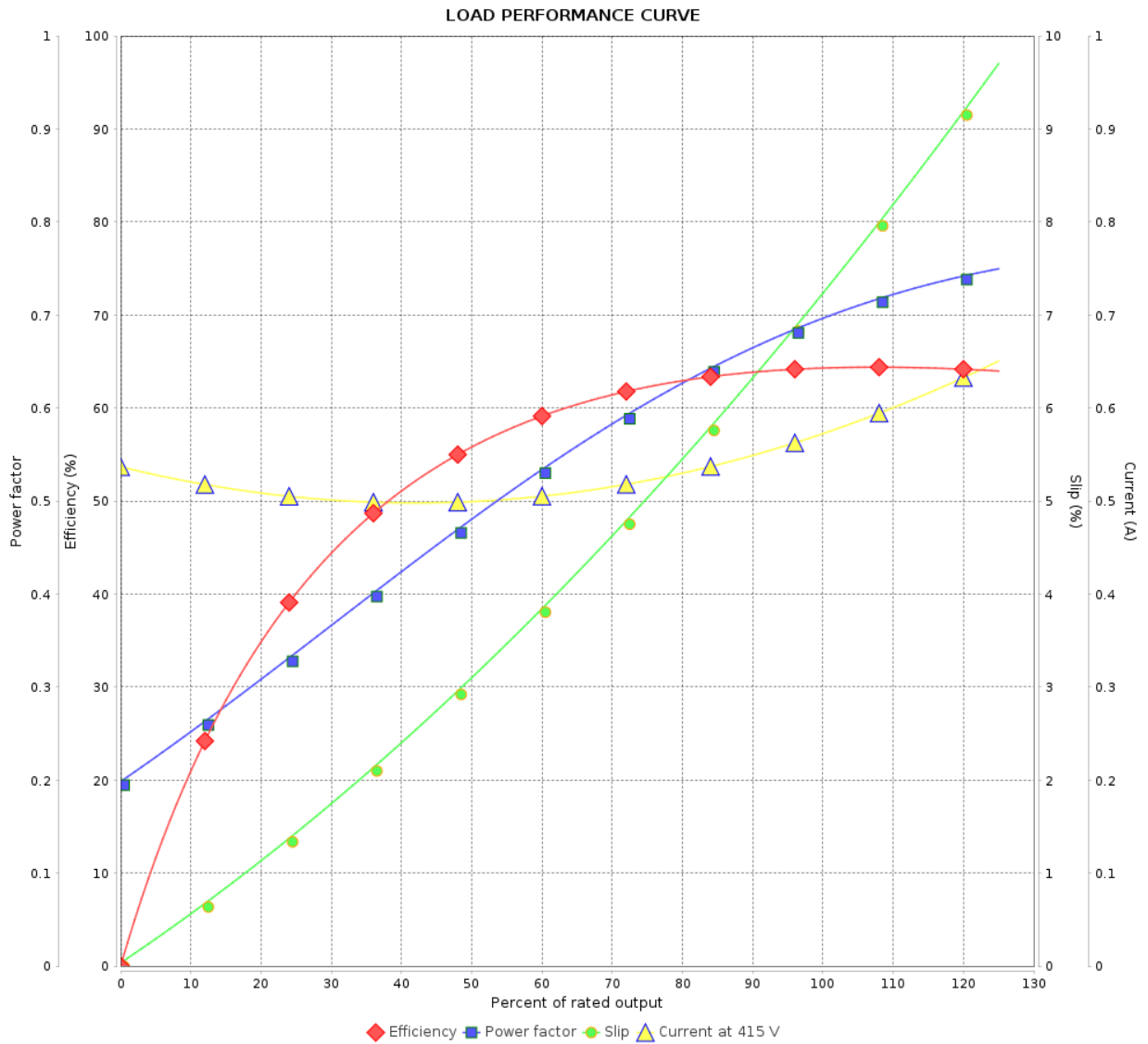
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : Multimounting High Efficiency Three-Phase      Product code : 16122659



Performance : 415 V 50 Hz 2P

Rated current : 0.550 A  
 LRC : 4.4  
 Rated torque : 0.065 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 280 %  
 Rated speed : 2780 rpm

Moment of inertia (J) : 0.0001 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : N

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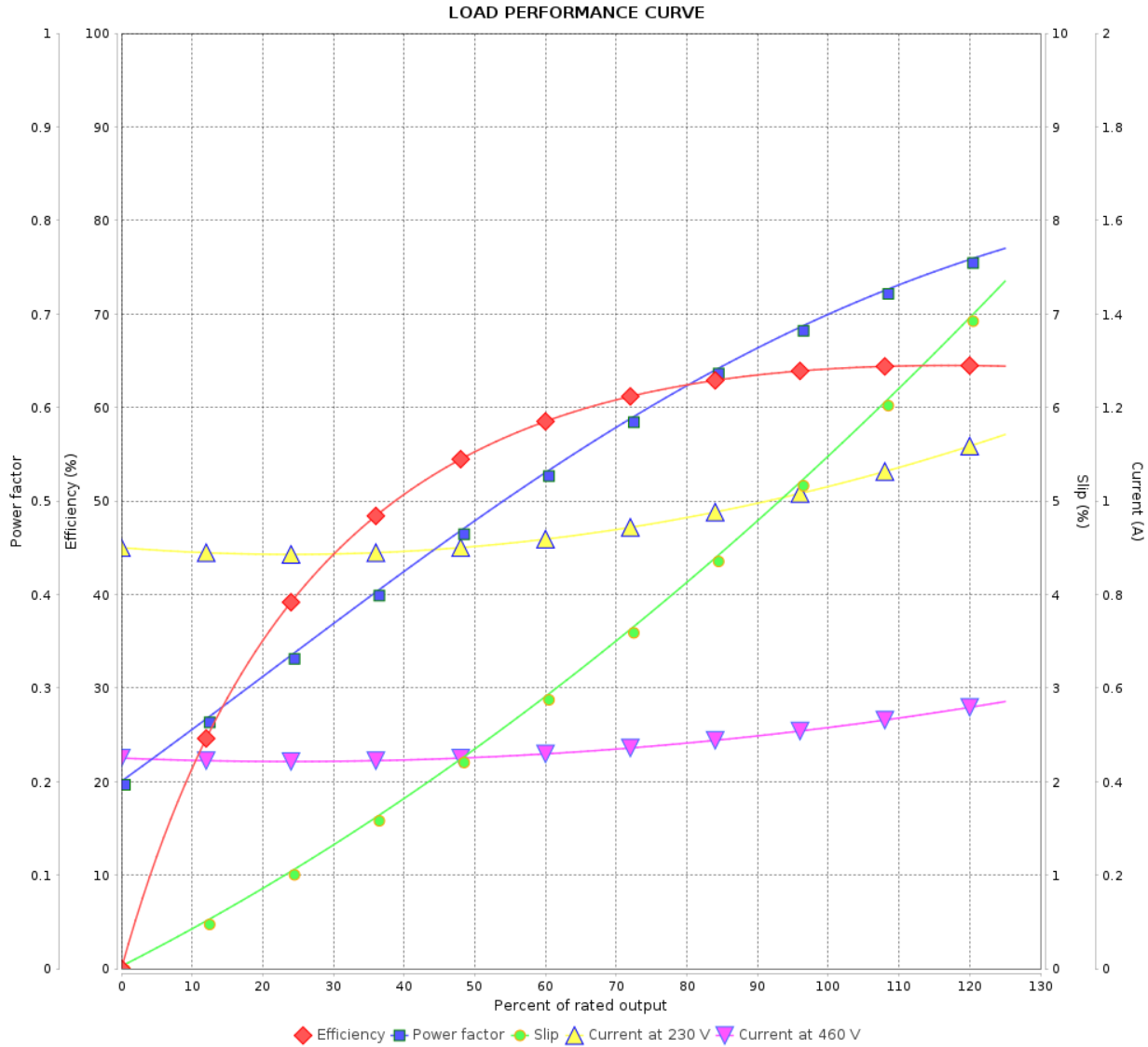
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 16122659



Performance : 230/460 V 60 Hz 2P

Rated current : 1.01/0.504 A  
 LRC : 5.0  
 Rated torque : 0.053 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 350 %  
 Rated speed : 3400 rpm

Moment of inertia (J) : 0.0001 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : N

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