

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Standard Efficiency Three-Phase			
Product code	: 12805243			
Frame	: 56C			
Insulation class	: F			
Duty cycle	: Cont.(S1)			
Ambient temperature	: -20°C to +40°C			
Altitude	: 1000 m.a.s.l.			
Protection degree	: IP55			
Cooling method	: IC411 - TEFC			
Mounting	: F-1			
Rotation <sup>1</sup>	: Both (CW and CCW)			
Starting method	: Direct On Line			
Approx. weight <sup>2</sup>	: 11.0 kg			
Moment of inertia (J)	: 0.0027 kgm <sup>2</sup>			
Output [HP]	1			
Poles	2			
Frequency [Hz]	60			
Rated voltage [V]	230/460			
Rated current [A]	3.02/1.51			
L. R. Amperes [A]	21.7/10.9			
LRC [A]	7.2x(Code K)			
No load current [A]	1.42/0.710			
Rated speed [RPM]	3480			
Slip [%]	3.33			
Rated torque [kgfm]	0.209			
Locked rotor torque [%]	240			
Breakdown torque [%]	290			
Service factor	1.00			
Temperature rise	80 K			
Locked rotor time	43s (cold) 24s (hot)			
Noise level <sup>2</sup>	68.0 dB(A)			
Efficiency (%)	25%	64.0		
	50%	66.0		
	75%	72.0		
	100%	74.0		
Power Factor	25%	0.43		
	50%	0.68		
	75%	0.79		
	100%	0.84		
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ			
Sealing	: V'Ring Without Bearing Seal			
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Foundation loads	Max. traction : 15 kgf			
	Max. compression : 26 kgf			
Notes				
USABLE @208V 3.34A SF 1.00 SFA 3.34A				
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.				
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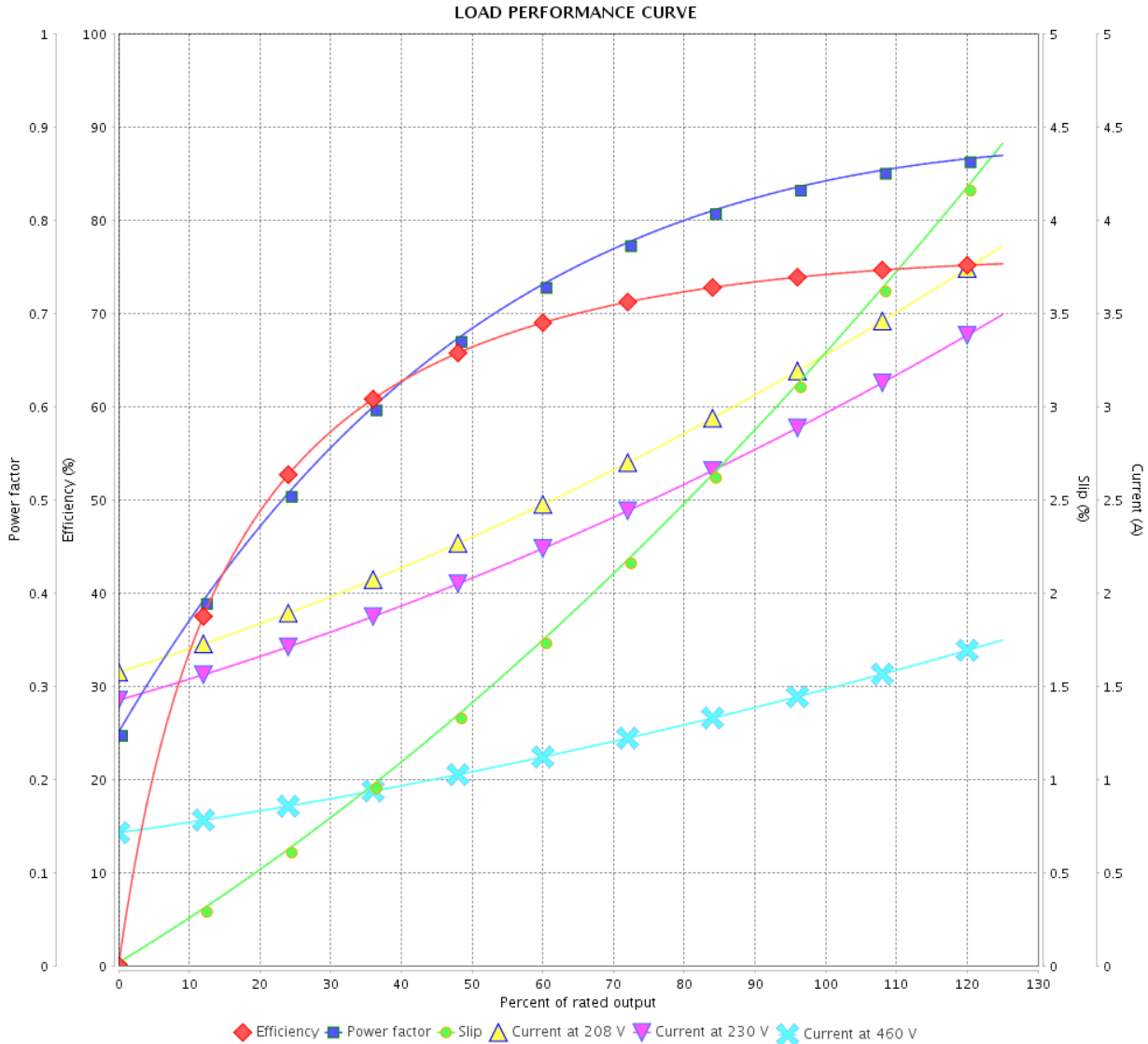
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase      Product code : 12805243



Performance : 230/460 V 60 Hz 2P

Rated current : 3.02/1.51 A  
 LRC : 7.2  
 Rated torque : 0.209 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 290 %  
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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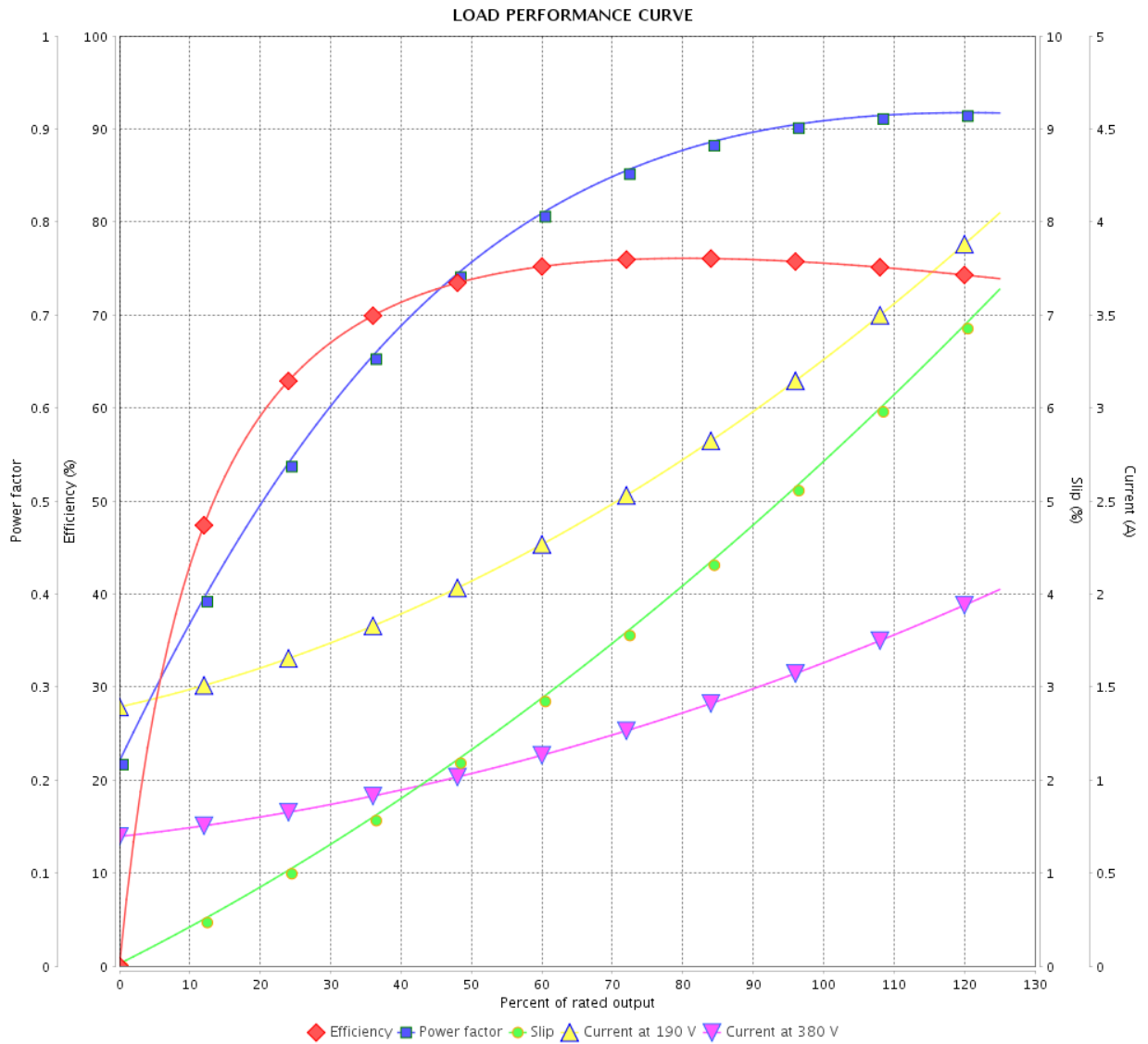
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12805243



Performance : 190/380 V 50 Hz 2P

Rated current : 3.32/1.66 A  
 LRC : 5.8  
 Rated torque : 0.256 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 229 %  
 Rated speed : 2835 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K

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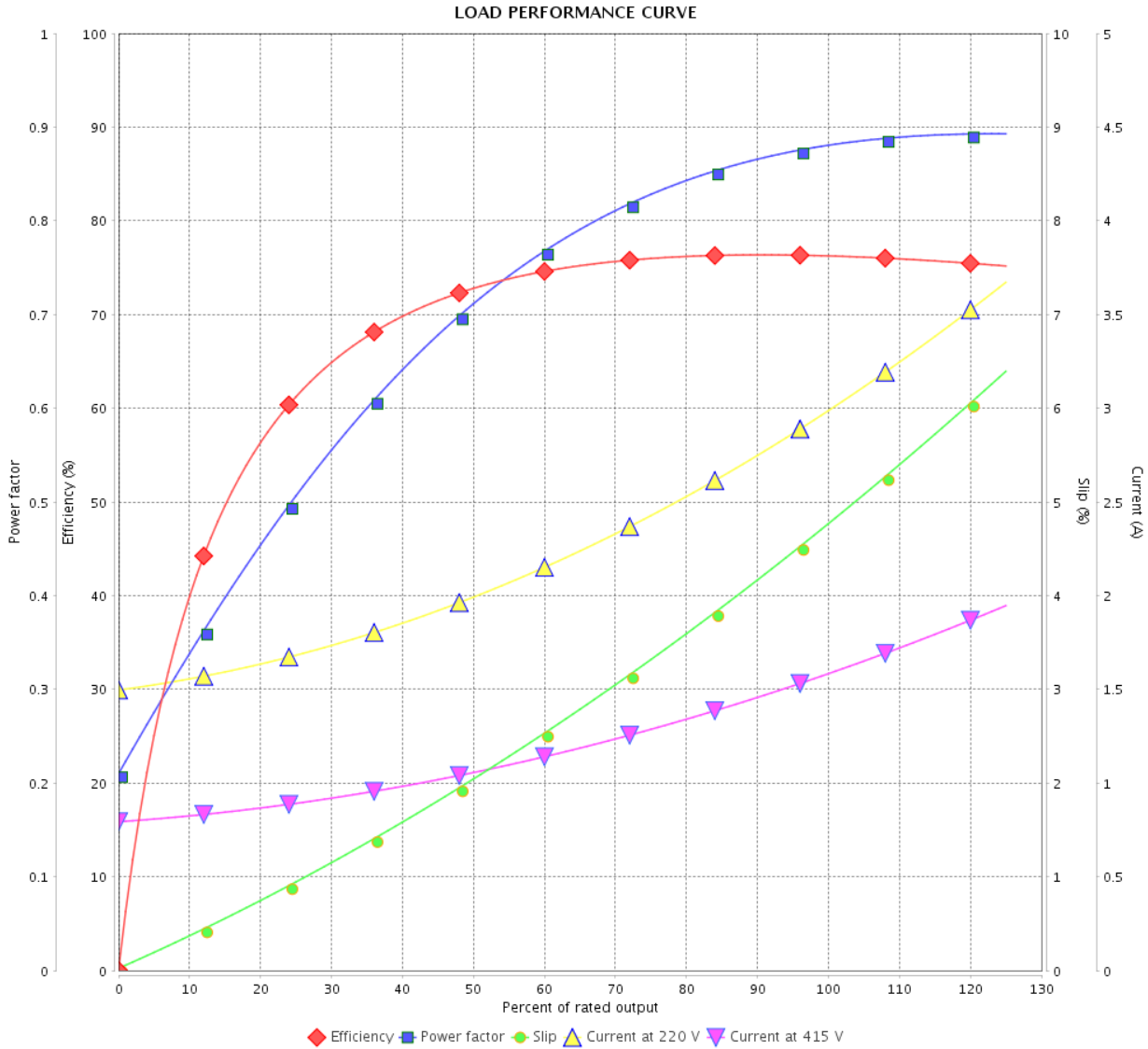
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12805243



Performance : 220/415 V 50 Hz 2P

Rated current : 3.04/1.61 A  
 LRC : 6.3  
 Rated torque : 0.254 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 250 %  
 Rated speed : 2855 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K

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