

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Standard Efficiency Three-Phase      Product code : 13760277
Frame	: W56C
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>	: 10.5 kg
Moment of inertia (J)	: 0.0024 kgm <sup>2</sup>
Output [HP]	0.5
Poles	6
Frequency [Hz]	60
Rated voltage [V]	208-230/460
Rated current [A]	2.20-1.98/0.990
L. R. Amperes [A]	9.68-8.71/4.36
LRC [A]	4.4x(Code H)
No load current [A]	1.34-1.55/0.775
Rated speed [RPM]	1130
Slip [%]	5.83
Rated torque [kgfm]	0.321
Locked rotor torque [%]	200
Breakdown torque [%]	240
Service factor	
Temperature rise	80 K
Locked rotor time	30s (cold) 17s (hot)
Noise level <sup>2</sup>	48.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ
Sealing	: V'Ring      V'Ring
Lubrication interval	: -      -
Lubricant amount	: -      -
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 19 kgf Max. compression : 30 kgf
Notes USABLE @208V SF 1.00	
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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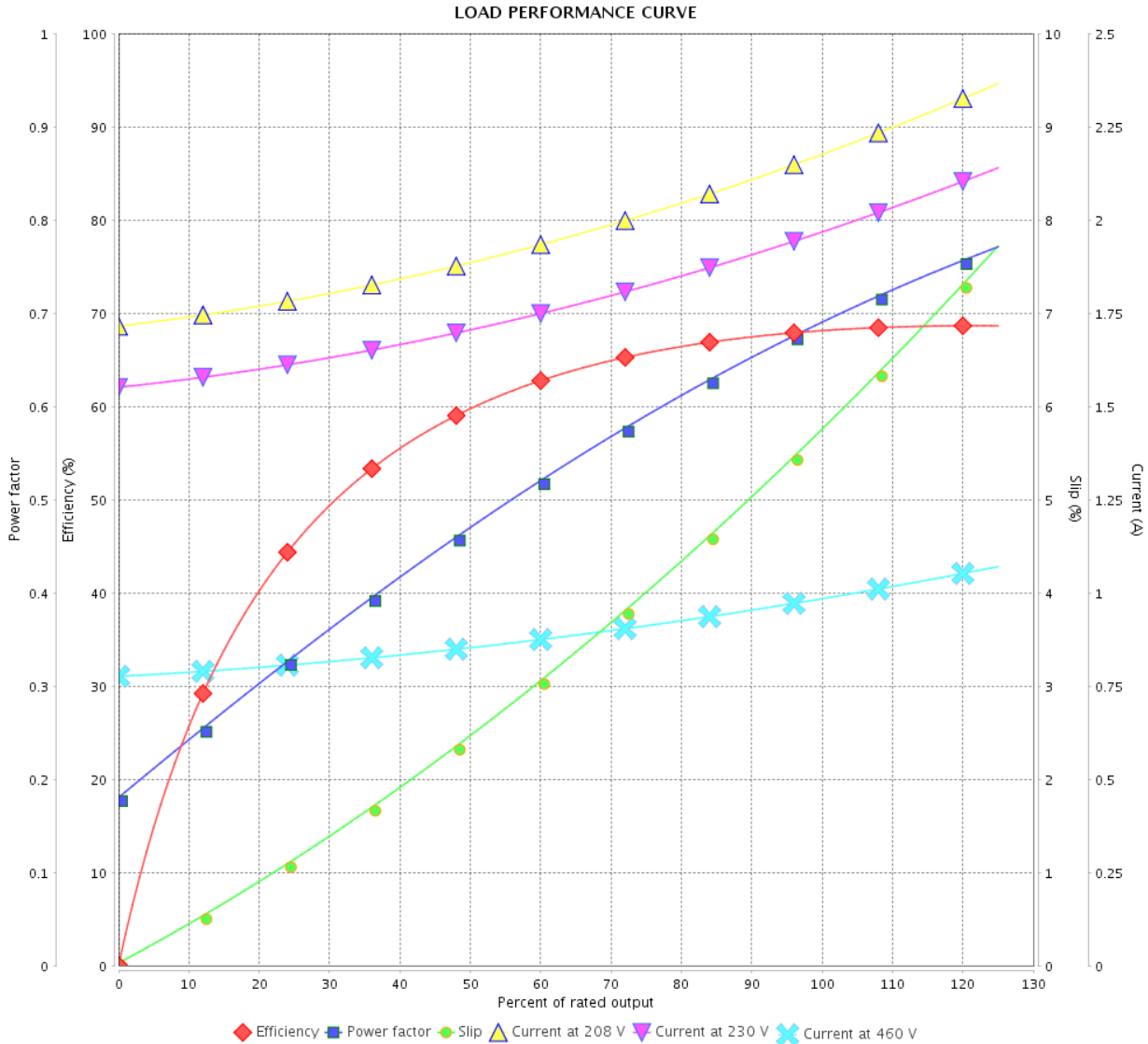
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13760277



Performance : 208-230/460 V 60 Hz 6P

Rated current : 2.20-1.98/0.990 A  
 LRC : 4.4  
 Rated torque : 0.321 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 240 %  
 Rated speed : 1130 rpm

Moment of inertia (J) : 0.0024 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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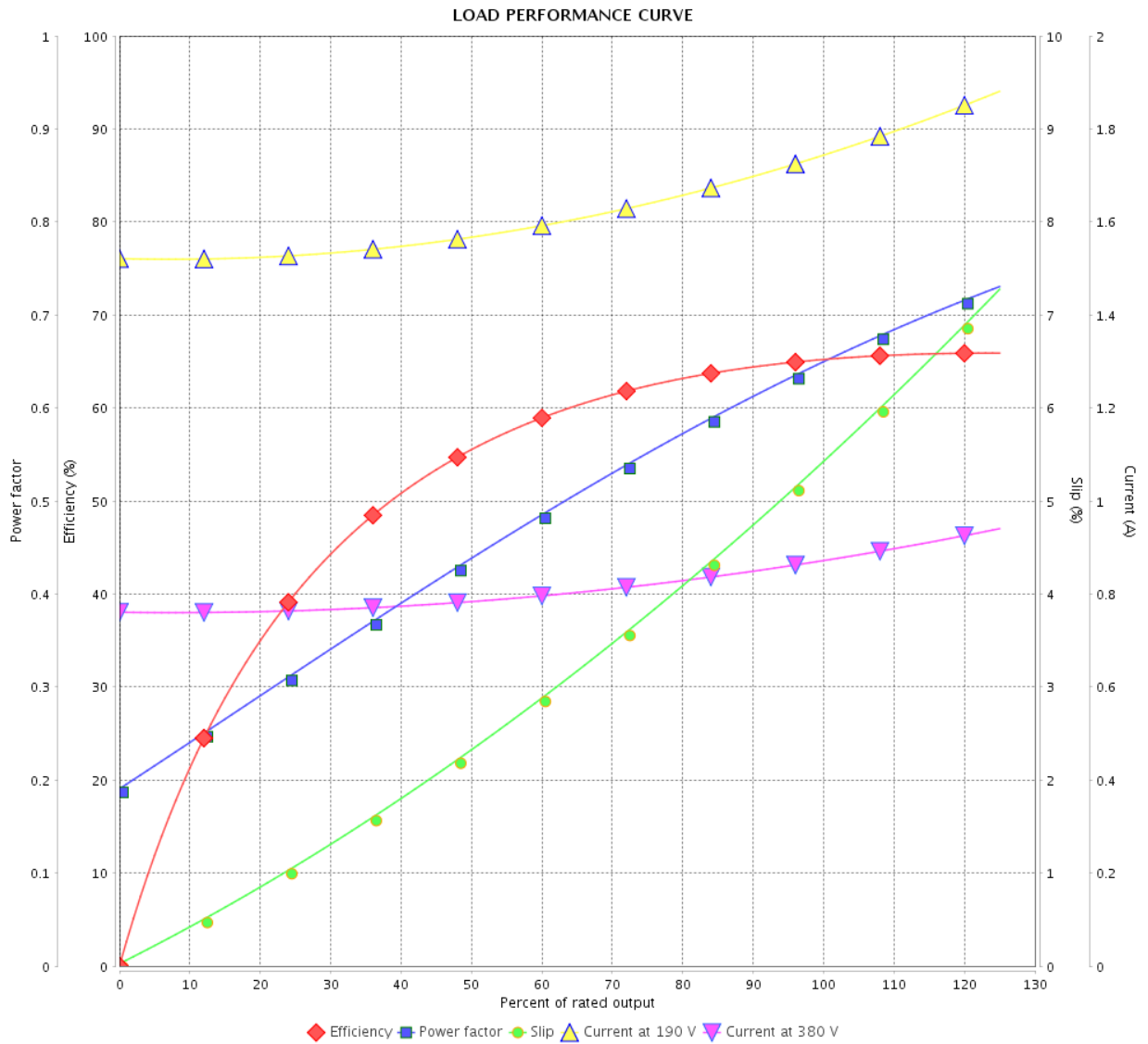
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 13760277



Performance : 190/380 V 50 Hz 6P

Rated current : 1.80/0.899 A  
 LRC : 4.3  
 Rated torque : 0.253 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 250 %  
 Rated speed : 945 rpm

Moment of inertia (J) : 0.0024 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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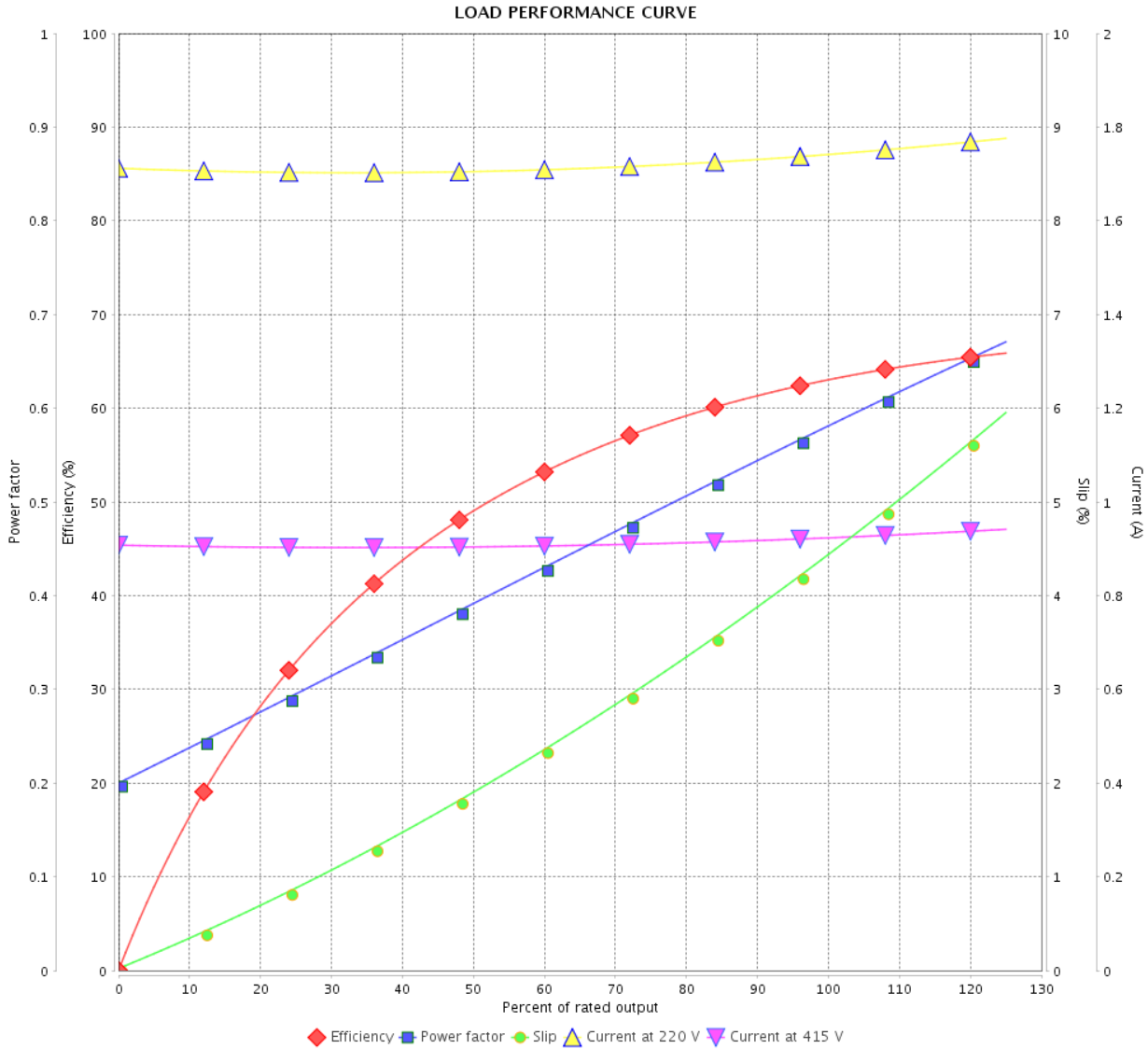
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13760277



Performance : 220/415 V 50 Hz 6P

Rated current : 1.80/0.952 A  
 LRC : 4.4  
 Rated torque : 0.251 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 310 %  
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0024 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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