

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Standard Efficiency Three-Phase
Product code	: 13880822
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>	: 7.3 kg
Moment of inertia (J)	: 0.0013 kgm <sup>2</sup>
Output [HP]	0.33
Poles	4
Frequency [Hz]	60
Rated voltage [V]	208-230/460
Rated current [A]	1.46-1.32/0.659
L. R. Amperes [A]	7.88-7.12/3.56
LRC [A]	5.4x(Code K)
No load current [A]	0.919-1.07/0.533
Rated speed [RPM]	1730
Slip [%]	3.89
Rated torque [kgfm]	0.138
Locked rotor torque [%]	229
Breakdown torque [%]	270
Service factor	1.00
Temperature rise	80 K
Locked rotor time	37s (cold) 21s (hot)
Noise level <sup>2</sup>	50.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: Drive end 6203 ZZ Non drive end 6202 ZZ
Sealing	: V'Ring V'Ring
Lubrication interval	: - -
Lubricant amount	: - -
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 9 kgf Max. compression : 16 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.	
Rev.	Changes Summary
Performed by	Performed
Checked by	Checked
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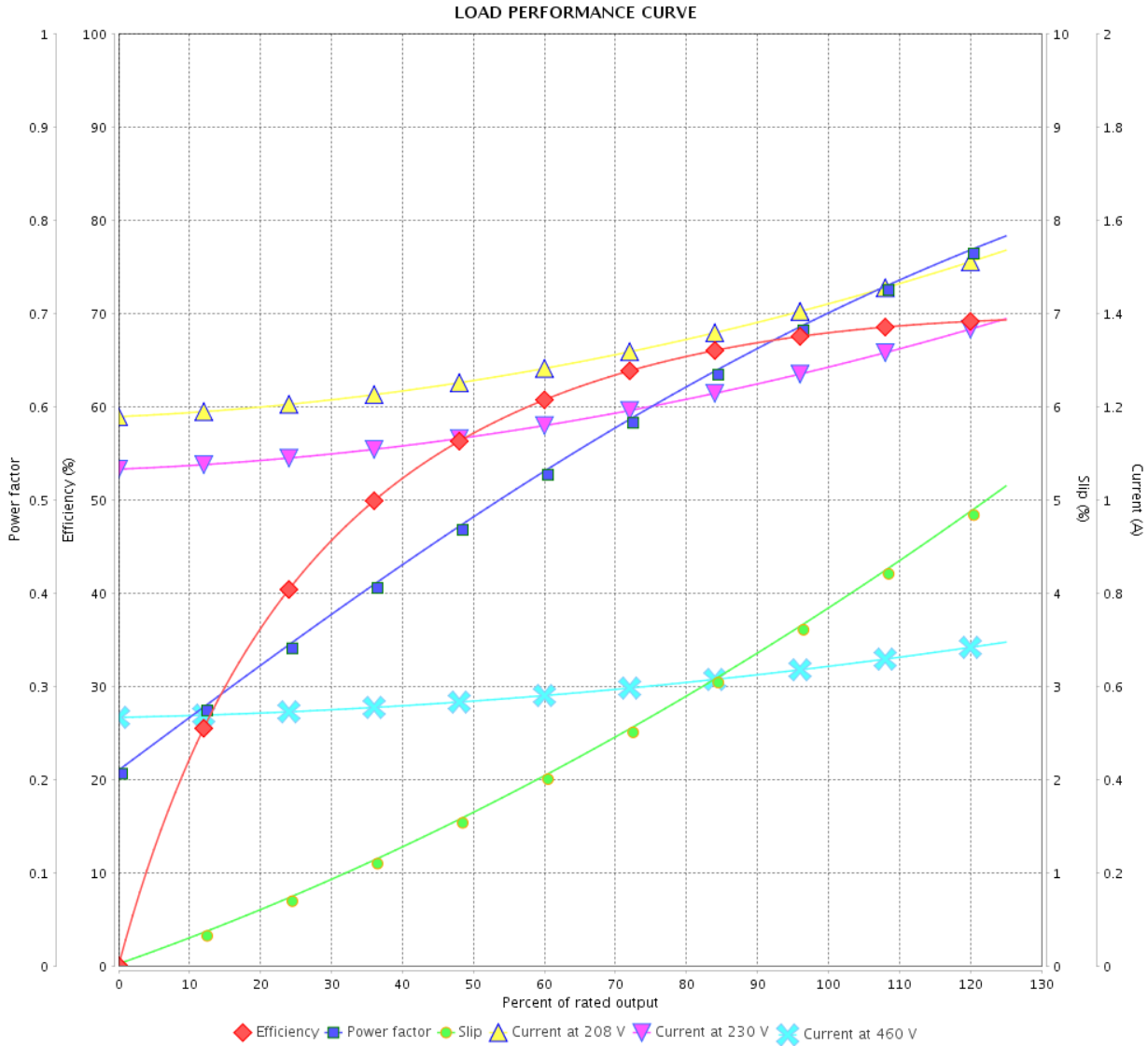
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880822



Performance : 208-230/460 V 60 Hz 4P

Rated current : 1.46-1.32/0.659 A  
 LRC : 5.4  
 Rated torque : 0.138 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 270 %  
 Rated speed : 1730 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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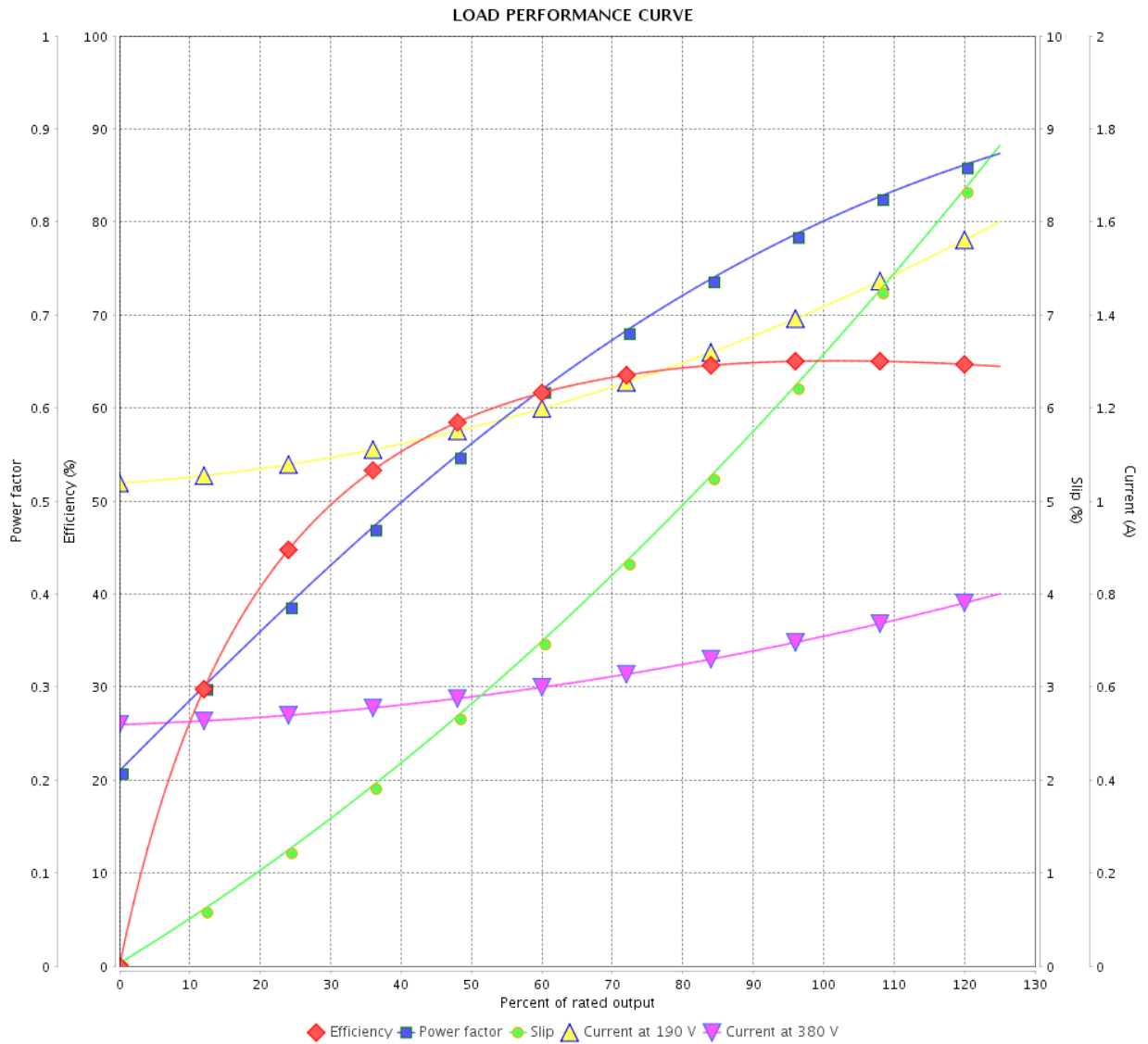
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880822



Performance : 190/380 V 50 Hz 4P

Rated current : 1.46/0.730 A  
 LRC : 4.1  
 Rated torque : 0.171 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 200 %  
 Rated speed : 1400 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

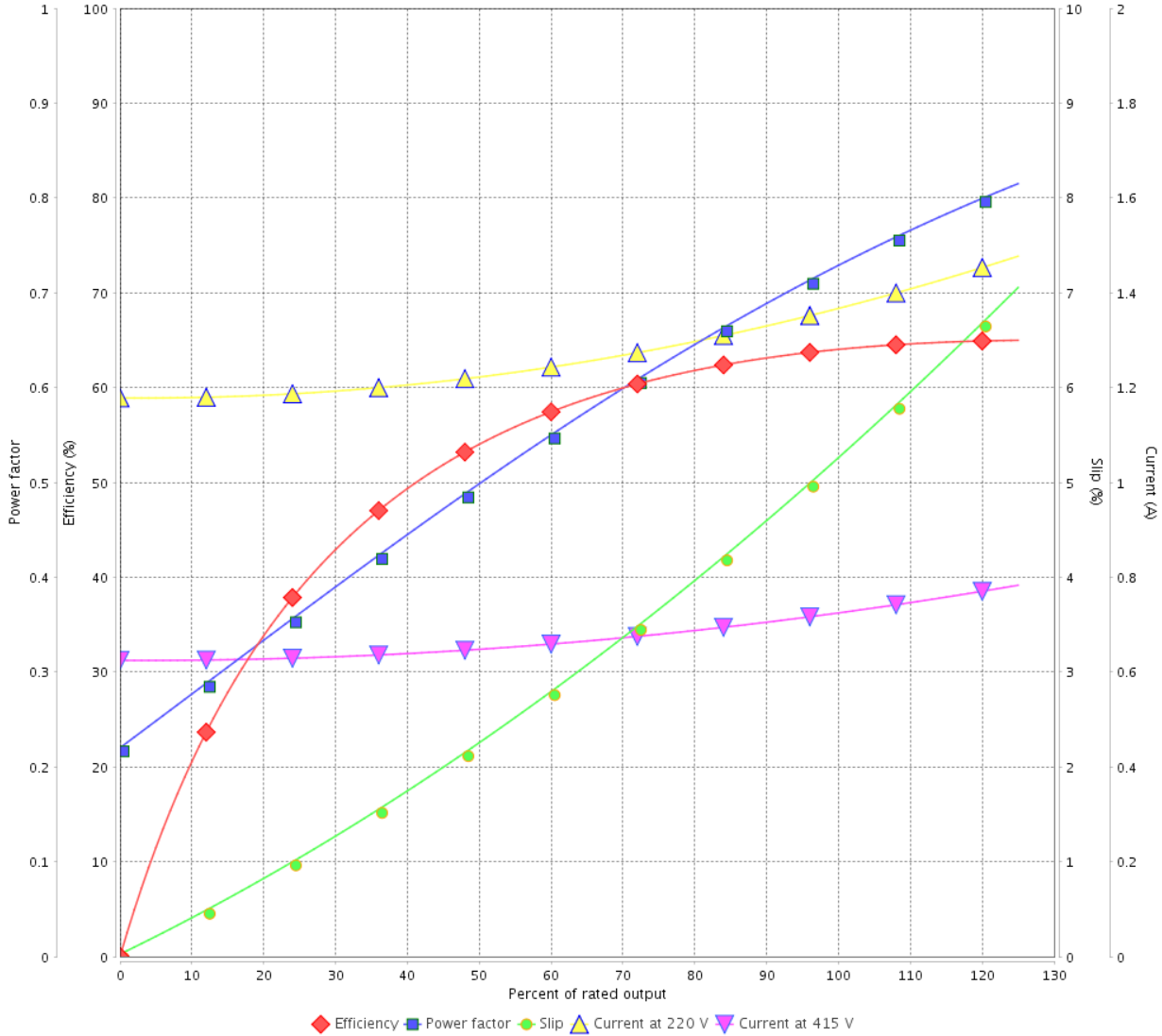
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13880822

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 1.40/0.744 A  
 LRC : 4.4  
 Rated torque : 0.169 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 240 %  
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K

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