

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Premium Efficiency Three-Phase
Product code :	13484346
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
Design	: B
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>	: 16.5 kg
Moment of inertia (J)	: 0.0046 kgm <sup>2</sup>
Output [HP]	1.5
Poles	4
Frequency [Hz]	60
Rated voltage [V]	230/460
Rated current [A]	4.04/2.02
L. R. Amperes [A]	33.1/16.6
LRC [A]	8.2x(Code K)
No load current [A]	2.17/1.08
Rated speed [RPM]	1750
Slip [%]	2.78
Rated torque [kgfm]	0.622
Locked rotor torque [%]	270
Breakdown torque [%]	300
Service factor	
Temperature rise	80 K
Locked rotor time	37s (cold) 21s (hot)
Noise level <sup>2</sup>	52.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
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 : 65 kgf
	Max. compression : 81 kgf
Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A	
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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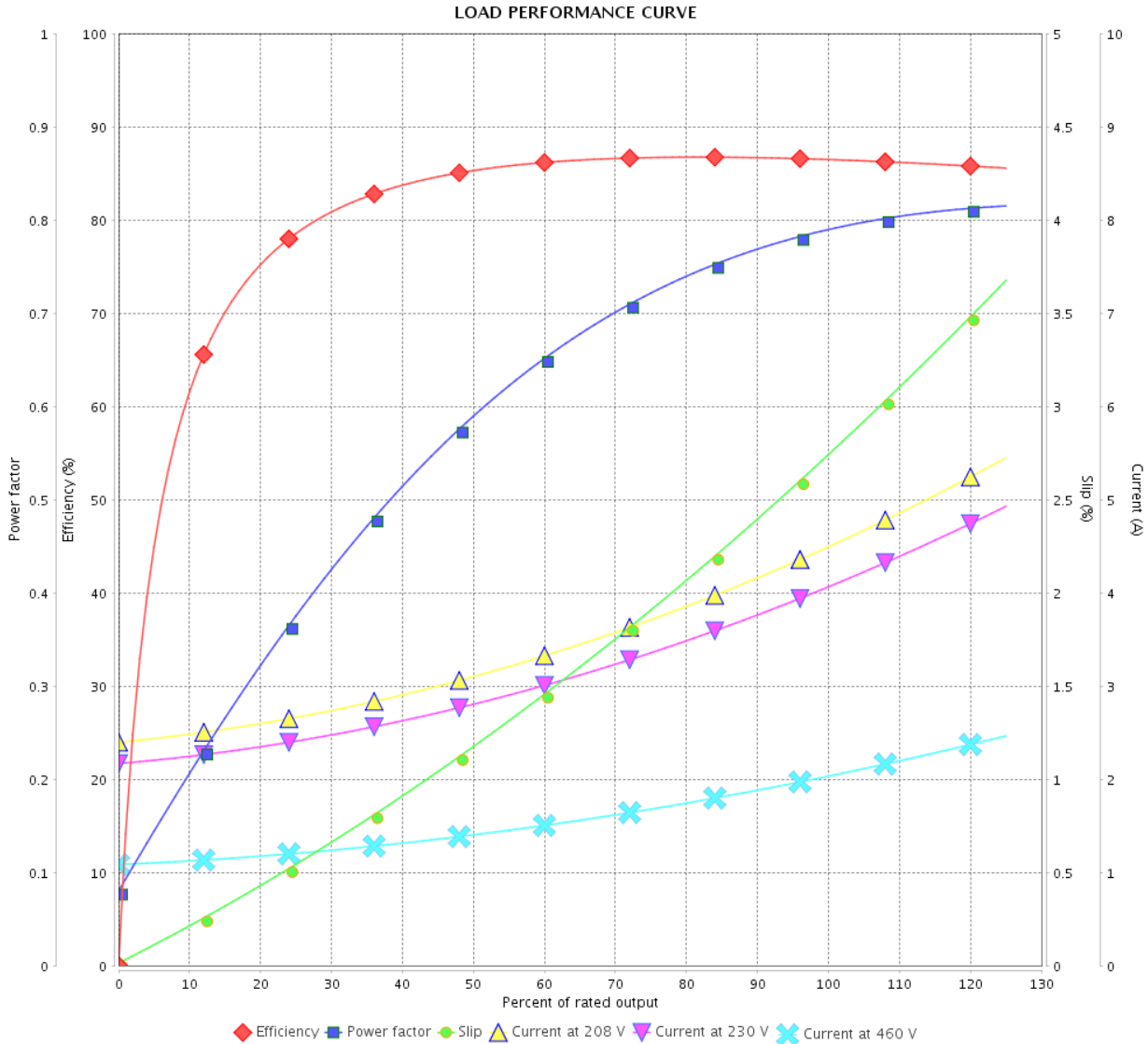
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance : 230/460 V 60 Hz 4P

Rated current : 4.04/2.02 A  
 LRC : 8.2  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0046 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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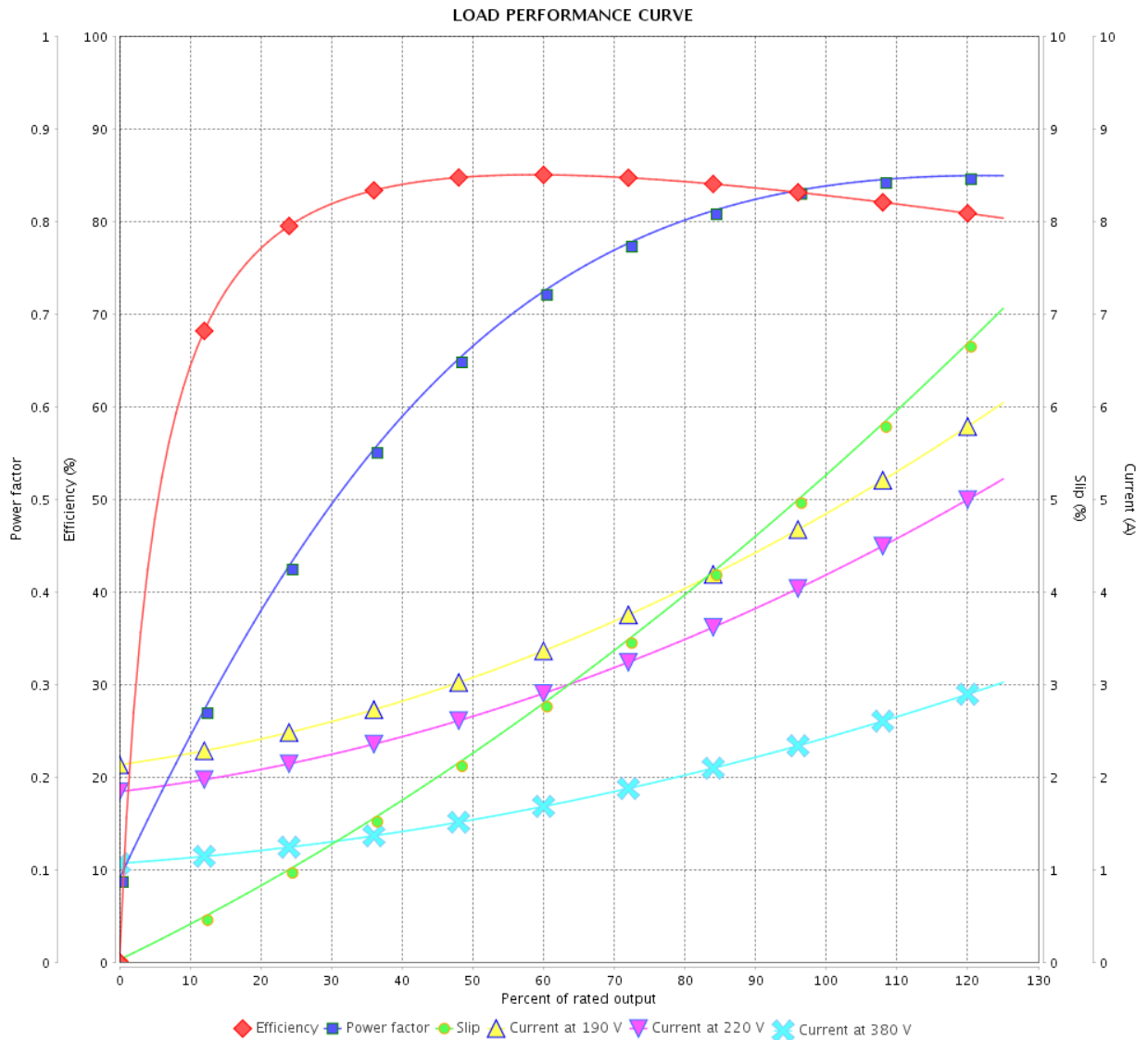
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Premium Efficiency Three-Phase      Product code : 13484346



Performance : 190-220/380 V 50 Hz 4P

Rated current : 4.82-4.16/2.41 A  
 LRC : 6.1  
 Rated torque : 0.767 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 250 %  
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0046 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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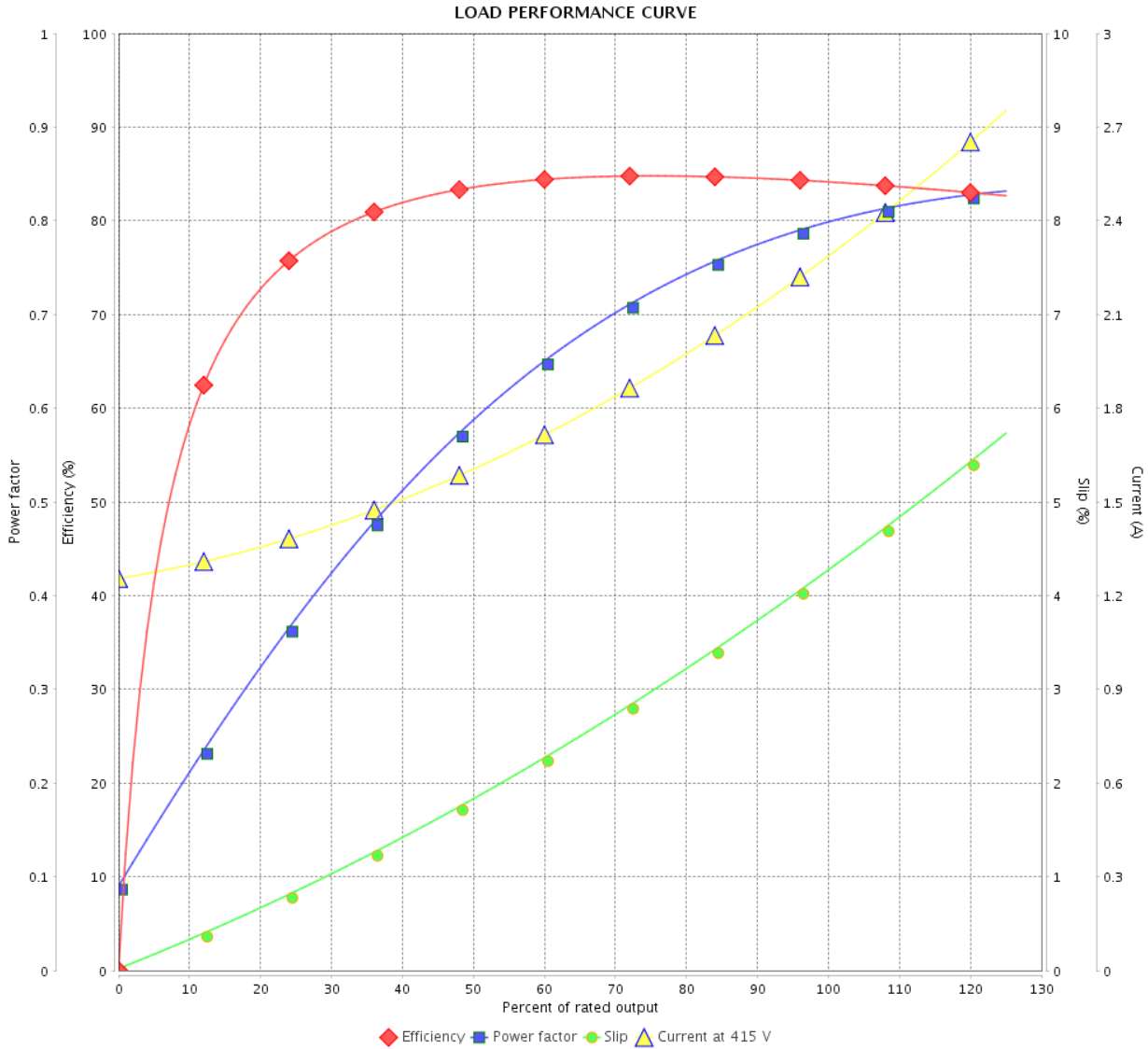
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484346



Performance : 415 V 50 Hz 4P

Rated current	: 2.27 A	Moment of inertia (J)	: 0.0046 kgm <sup>2</sup>
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.759 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

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