

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Standard Efficiency Three-Phase
Product code	: 13504943
Frame	: W56
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>	: 8.8 kg
Moment of inertia (J)	: 0.0009 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]	23.3/11.6
LRC [A]	7.7x(Code L)
No load current [A]	1.61/0.804
Rated speed [RPM]	3405
Slip [%]	5.42
Rated torque [kgfm]	0.213
Locked rotor torque [%]	330
Breakdown torque [%]	320
Service factor	1.15
Temperature rise	80 K
Locked rotor time	19s (cold) 11s (hot)
Noise level <sup>2</sup>	65.0 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 : 18 kgf
	Max. compression : 27 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.	
Rev.	Changes Summary
Performed by	Performed
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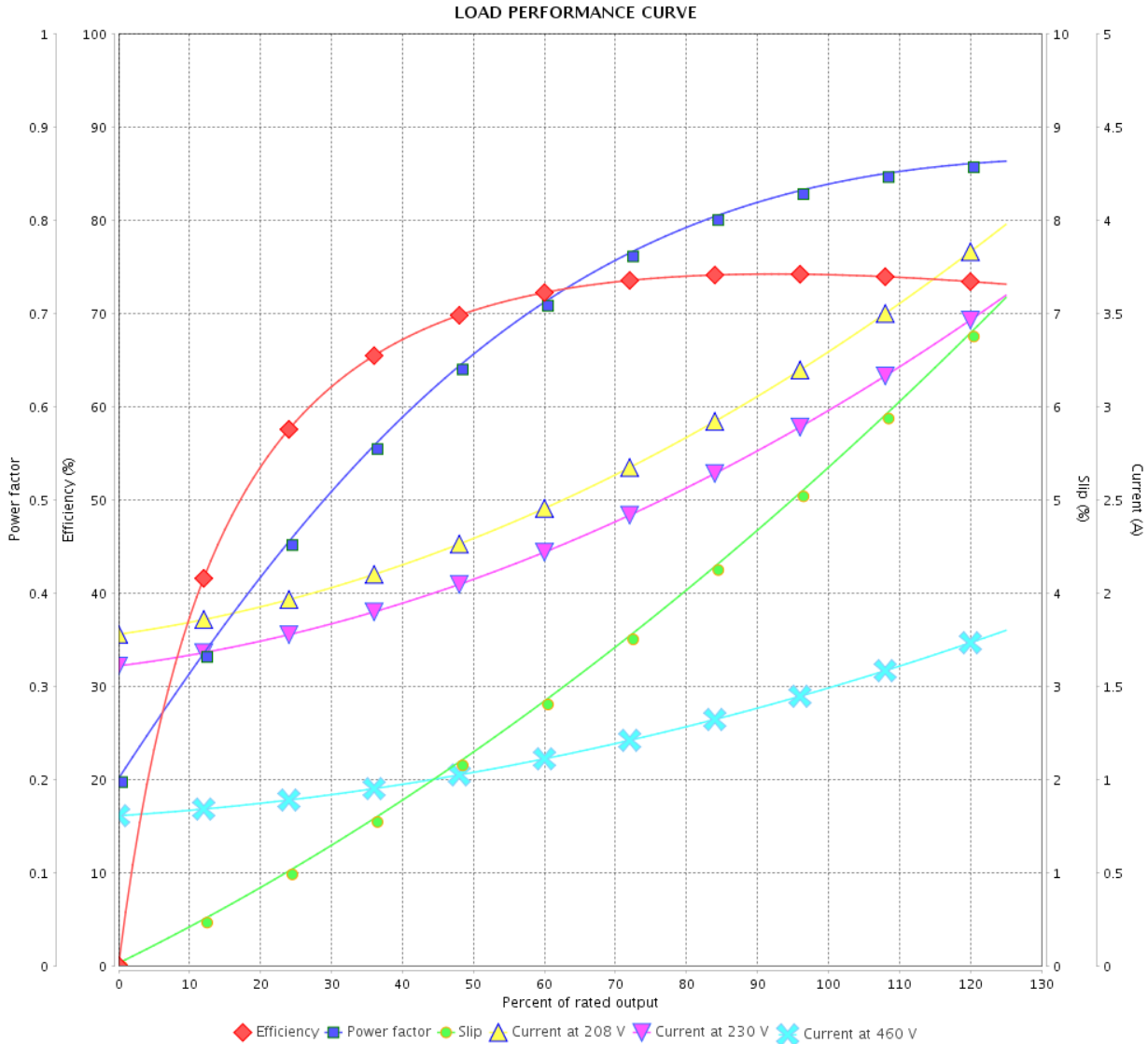
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13504943



Performance : 230/460 V 60 Hz 2P

Rated current : 3.02/1.51 A  
 LRC : 7.7  
 Rated torque : 0.213 kgfm  
 Locked rotor torque : 330 %  
 Breakdown torque : 320 %  
 Rated speed : 3405 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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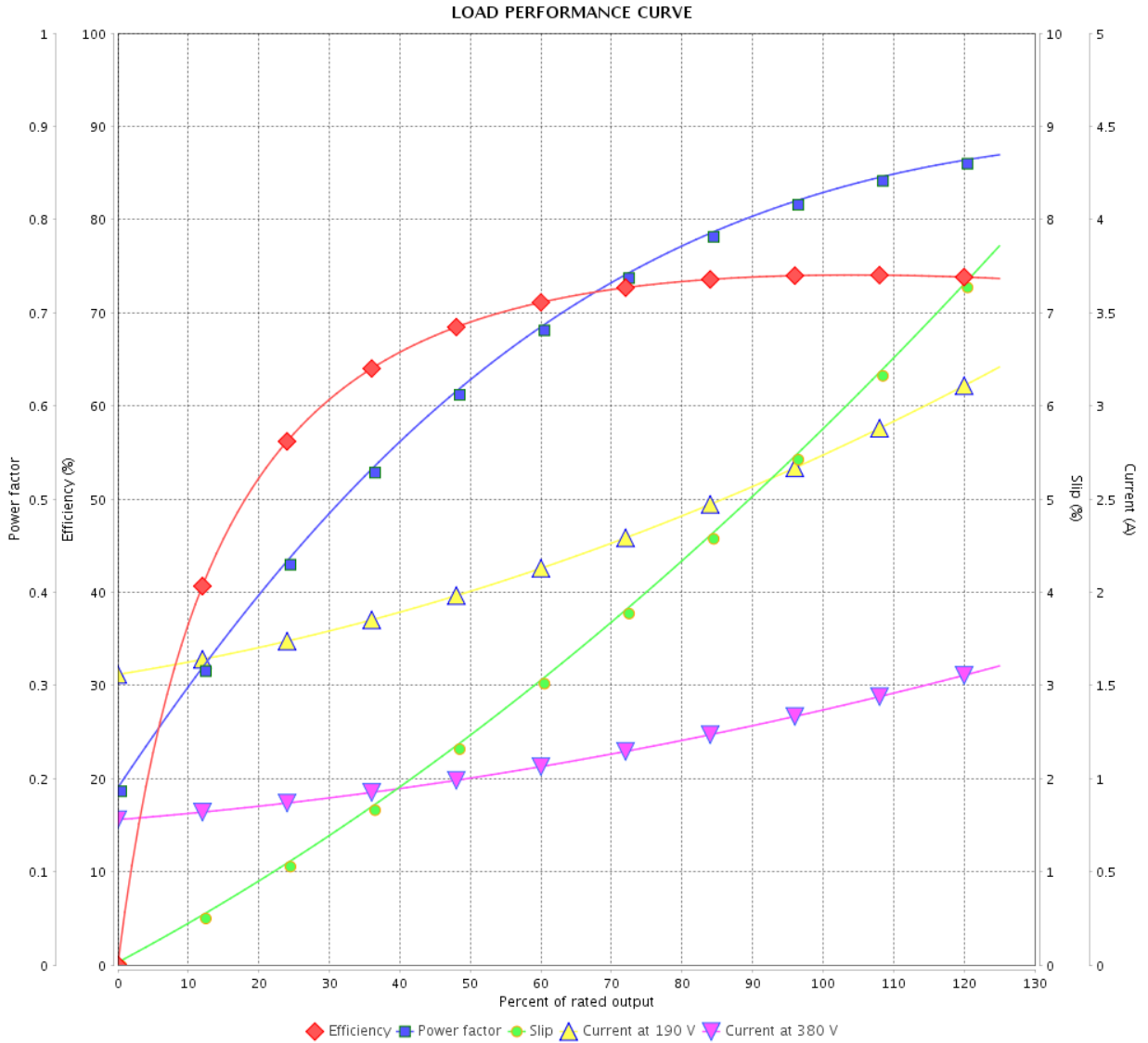
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 13504943



Performance : 190/380 V 50 Hz 2P

Rated current : 2.72/1.36 A  
 LRC : 7.3  
 Rated torque : 0.193 kgfm  
 Locked rotor torque : 360 %  
 Breakdown torque : 330 %  
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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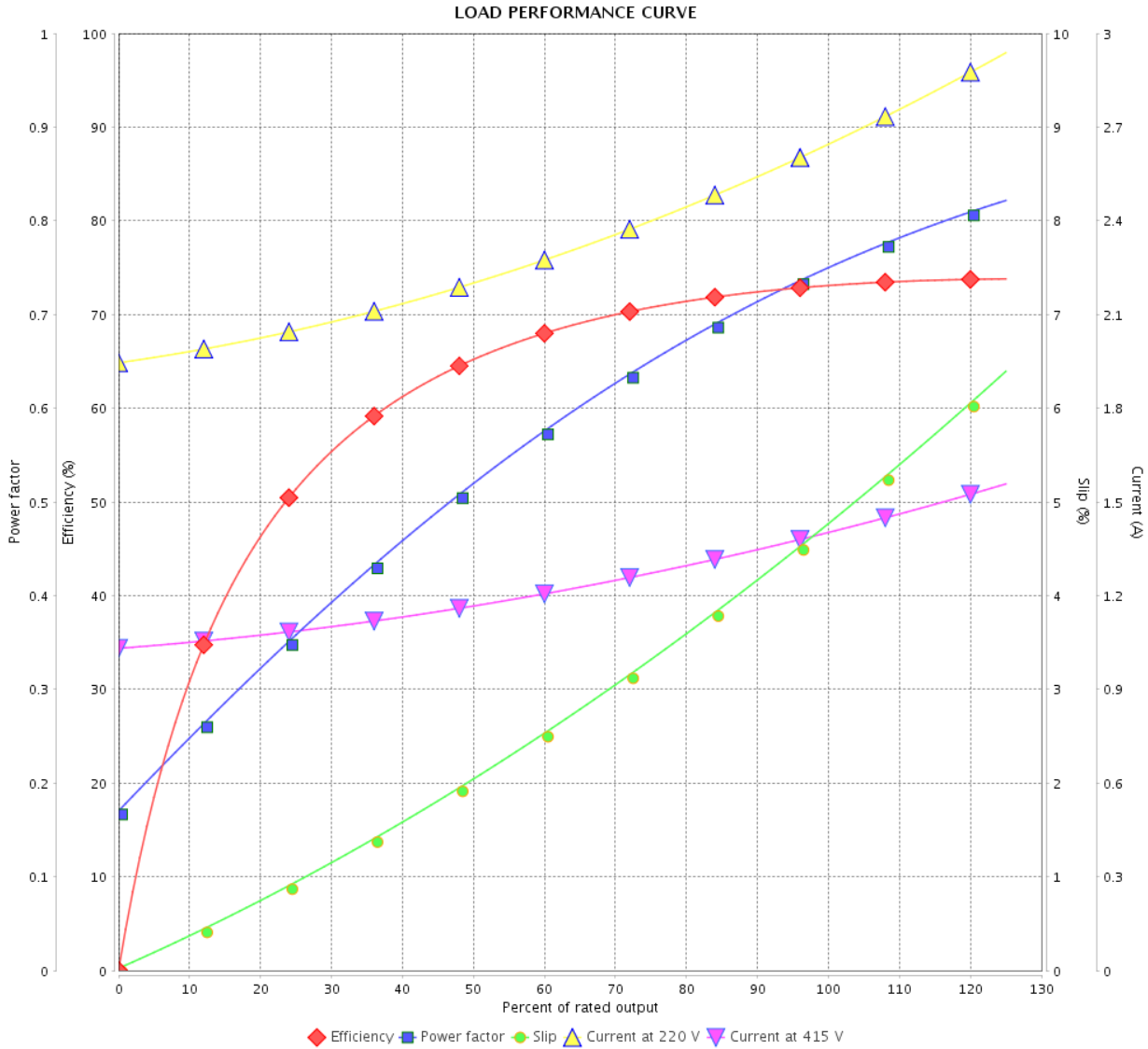
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13504943



Performance : 220/415 V 50 Hz 2P

Rated current : 2.64/1.40 A  
 LRC : 7.8  
 Rated torque : 0.191 kgfm  
 Locked rotor torque : 440 %  
 Breakdown torque : 380 %  
 Rated speed : 2855 rpm

Moment of inertia (J) : 0.0009 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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