

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		:	
Product line		: Standard Efficiency Three-Phase	Product code : 12630186
Frame	: 56	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 9.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0022 kgm <sup>2</sup>
Output [HP]	0.75	0.75	0.75
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190-220/380	415
Rated current [A]	2.50-2.26/1.13	2.52-2.18/1.26	1.20
L. R. Amperes [A]	17.5-15.8/7.91	13.9-12.0/6.93	7.56
LRC [A]	7.0x(Code K)	5.5x(Code G)	6.3x(Code J)
No load current [A]	0.948-1.10/0.550	1.05-0.909/0.526	0.665
Rated speed [RPM]	3475	2825	2860
Slip [%]	3.47	5.83	4.67
Rated torque [kgfm]	0.157	0.193	0.190
Locked rotor torque [%]	250	180	220
Breakdown torque [%]	290	220	270
Service factor		1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	41s (cold) 23s (hot)	52s (cold) 29s (hot)	43s (cold) 24s (hot)
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	62.0	70.3
	75%	68.0	73.4
	100%	72.0	73.0
Power Factor	25%		
	50%	0.70	0.77
	75%	0.79	0.86
	100%	0.85	0.91
Bearing type	: Drive end 6203 ZZ Non drive end 6202 ZZ	Foundation loads	
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 11 kgf
		Max. compression	: 21 kgf
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
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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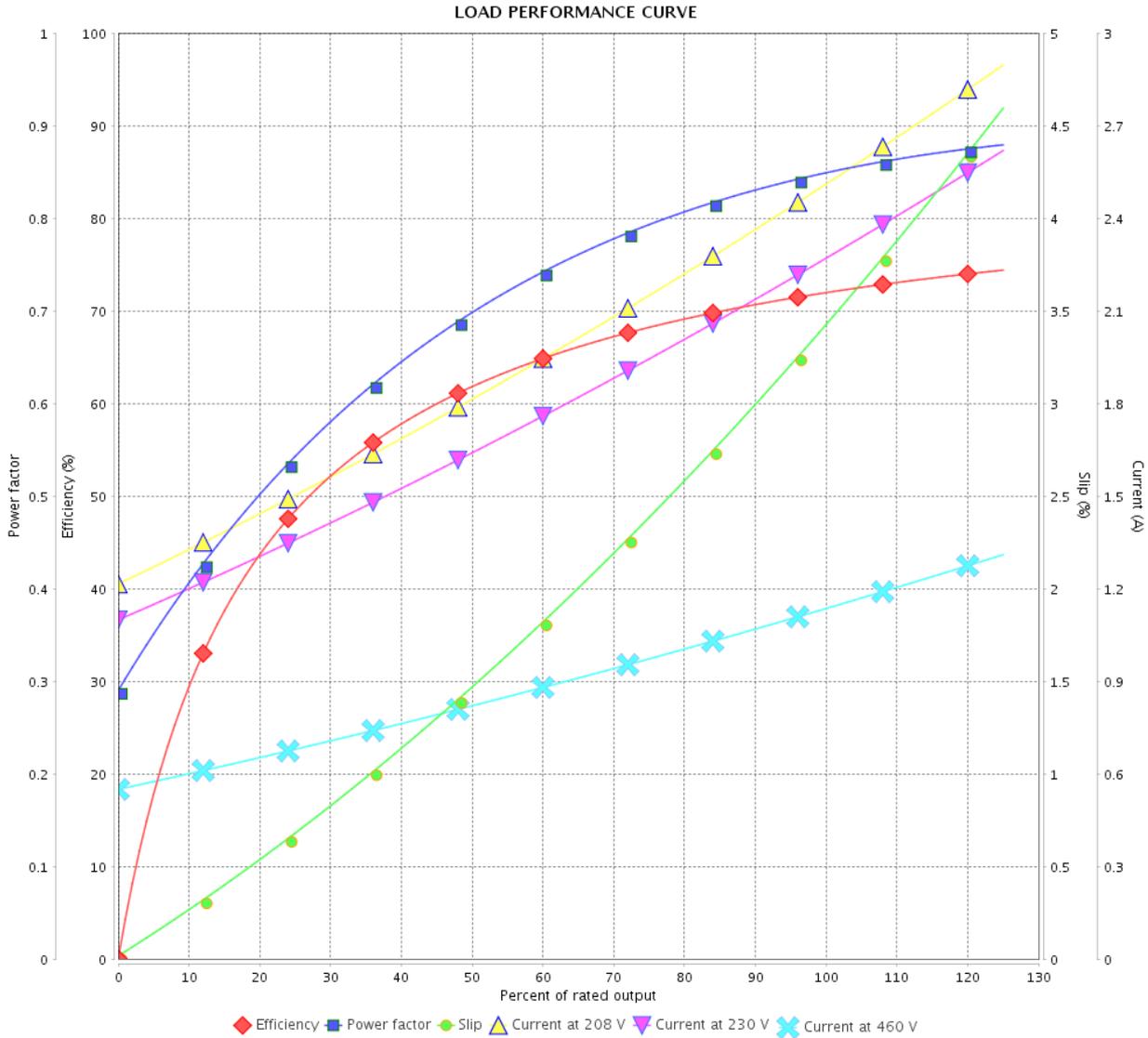
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12630186



Performance : 208-230/460 V 60 Hz 2P

Rated current : 2.50-2.26/1.13 A  
 LRC : 7.0  
 Rated torque : 0.157 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 290 %  
 Rated speed : 3475 rpm

Moment of inertia (J) : 0.0022 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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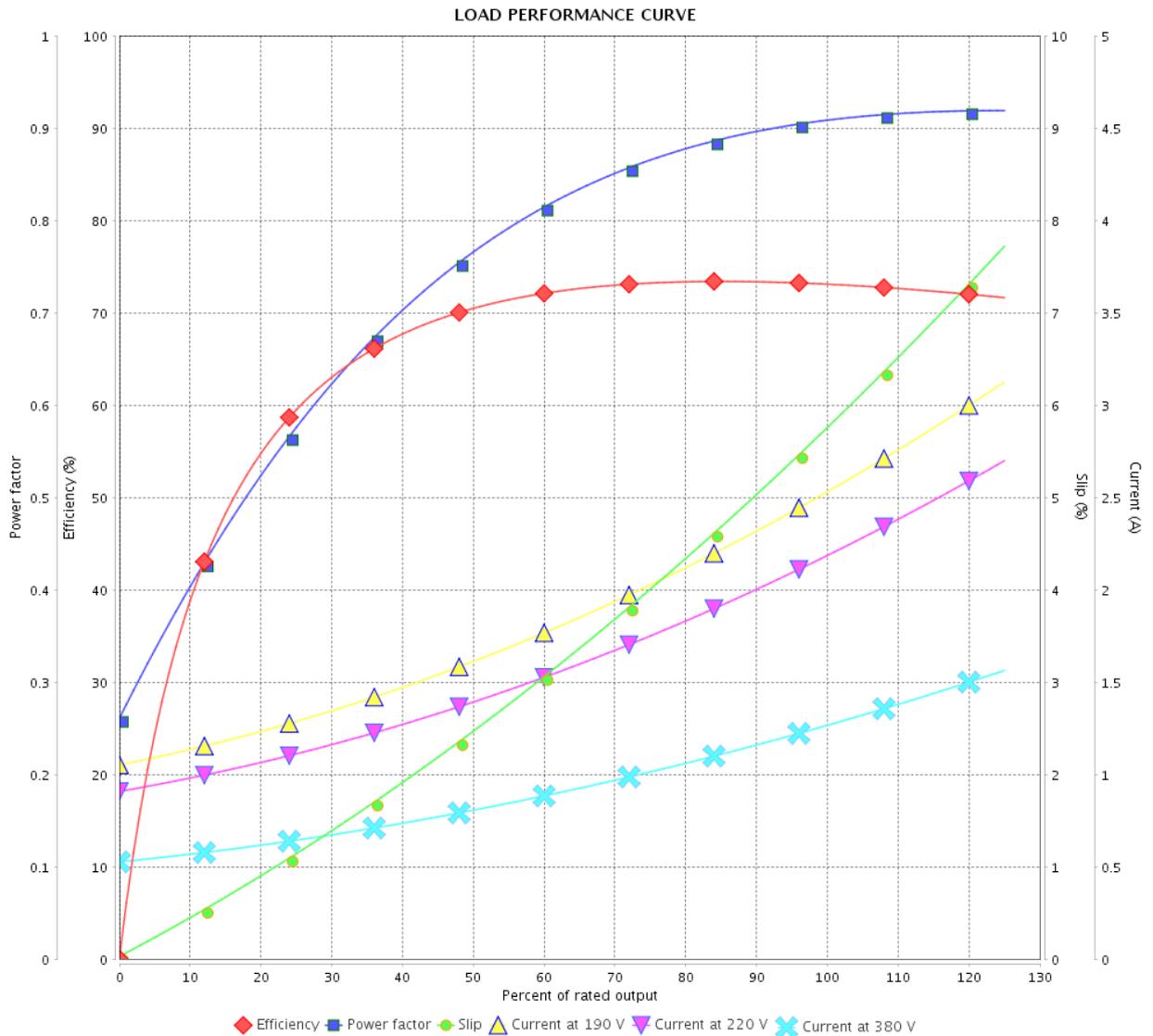
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12630186



Performance : 190-220/380 V 50 Hz 2P

Rated current : 2.52-2.18/1.26 A  
 LRC : 5.5  
 Rated torque : 0.193 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 220 %  
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0022 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 105 K

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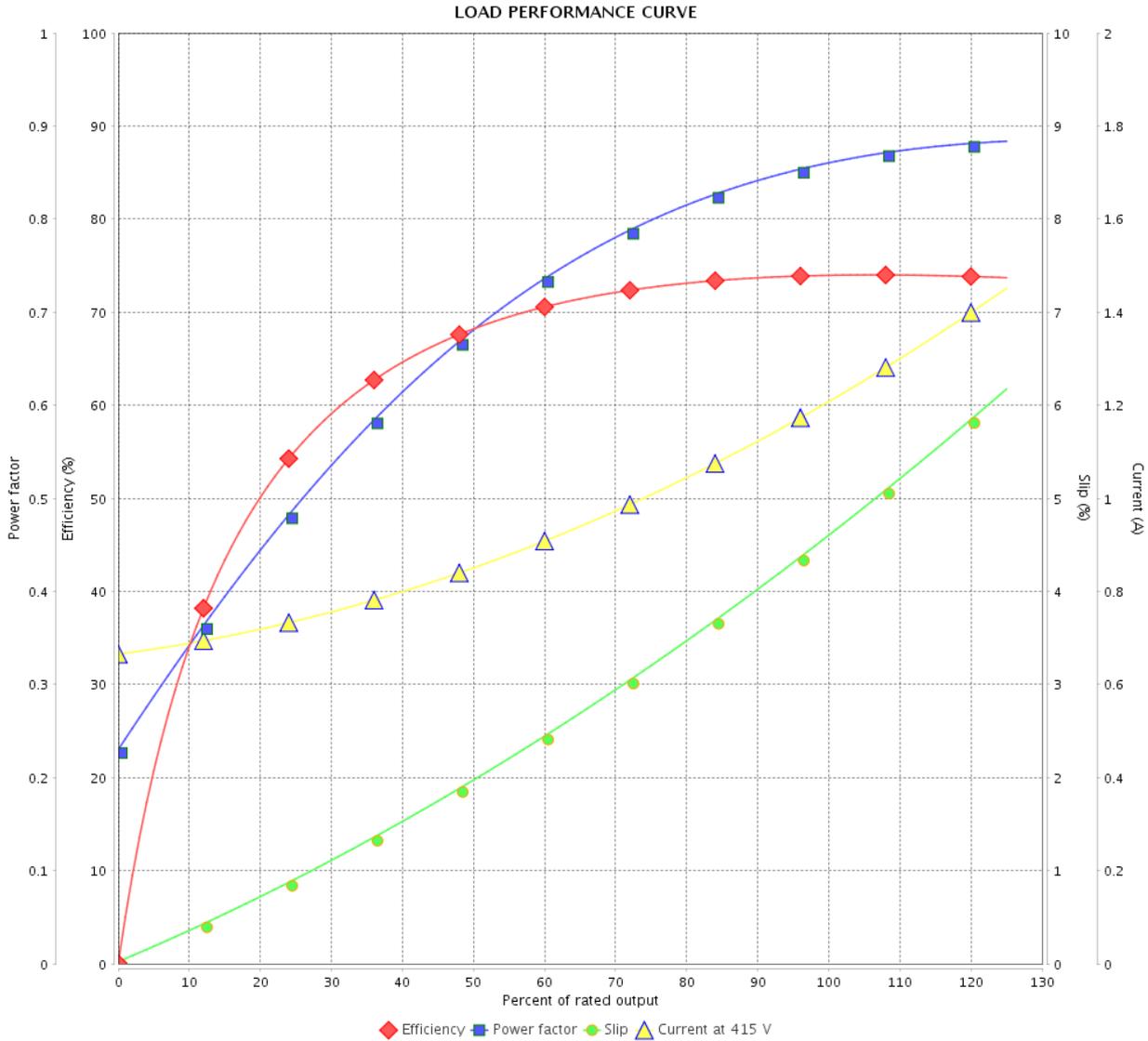
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12630186



Performance : 415 V 50 Hz 2P

Rated current	: 1.20 A	Moment of inertia (J)	: 0.0022 kgm <sup>2</sup>
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.190 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm		

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