

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer	:		
Product line	: Standard Efficiency Three-Phase	Product code :	13406280
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>3</sup>	: 14.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0027 kgm <sup>2</sup>
Output [HP]	0.75	0.75	0.75
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.70-2.44/1.22	2.74/1.37	2.60/1.38
L. R. Amperes [A]	18.6-16.8/8.42	15.3/7.67	16.1/8.56
LRC [A]	6.9x(Code K)	5.6x(Code H)	6.2x(Code K)
No load current [A]	1.55-1.80/0.900	1.71/0.856	2.06/1.09
Rated speed [RPM]	1755	1440	1450
Slip [%]	2.50	4.00	3.33
Rated torque [kgfm]	0.310	0.378	0.375
Locked rotor torque [%]	240	170	220
Breakdown torque [%]	300	229	290
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	72.0	68.6
	75%	77.0	74.2
	100%	78.5	76.1
Power Factor	25%		
	50%	0.48	0.49
	75%	0.61	0.62
	100%	0.72	0.73
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads	
Sealing	: V'Ring                    V'Ring	Max. traction	: 27 kgf
Lubrication interval	: -                                -	Max. compression	: 42 kgf
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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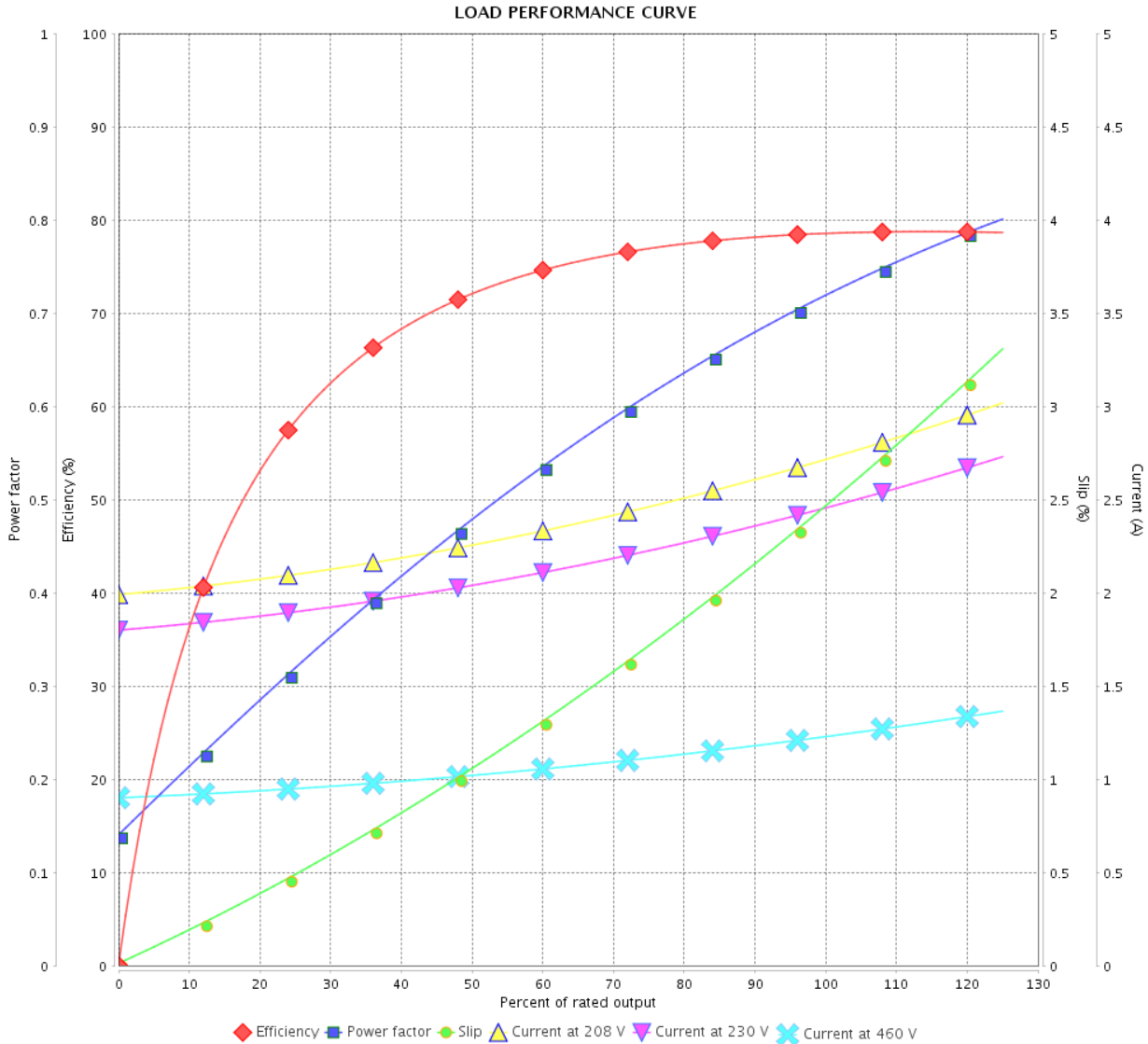
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13406280



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

Rated current : 2.70-2.44/1.22 A  
 LRC : 6.9  
 Rated torque : 0.310 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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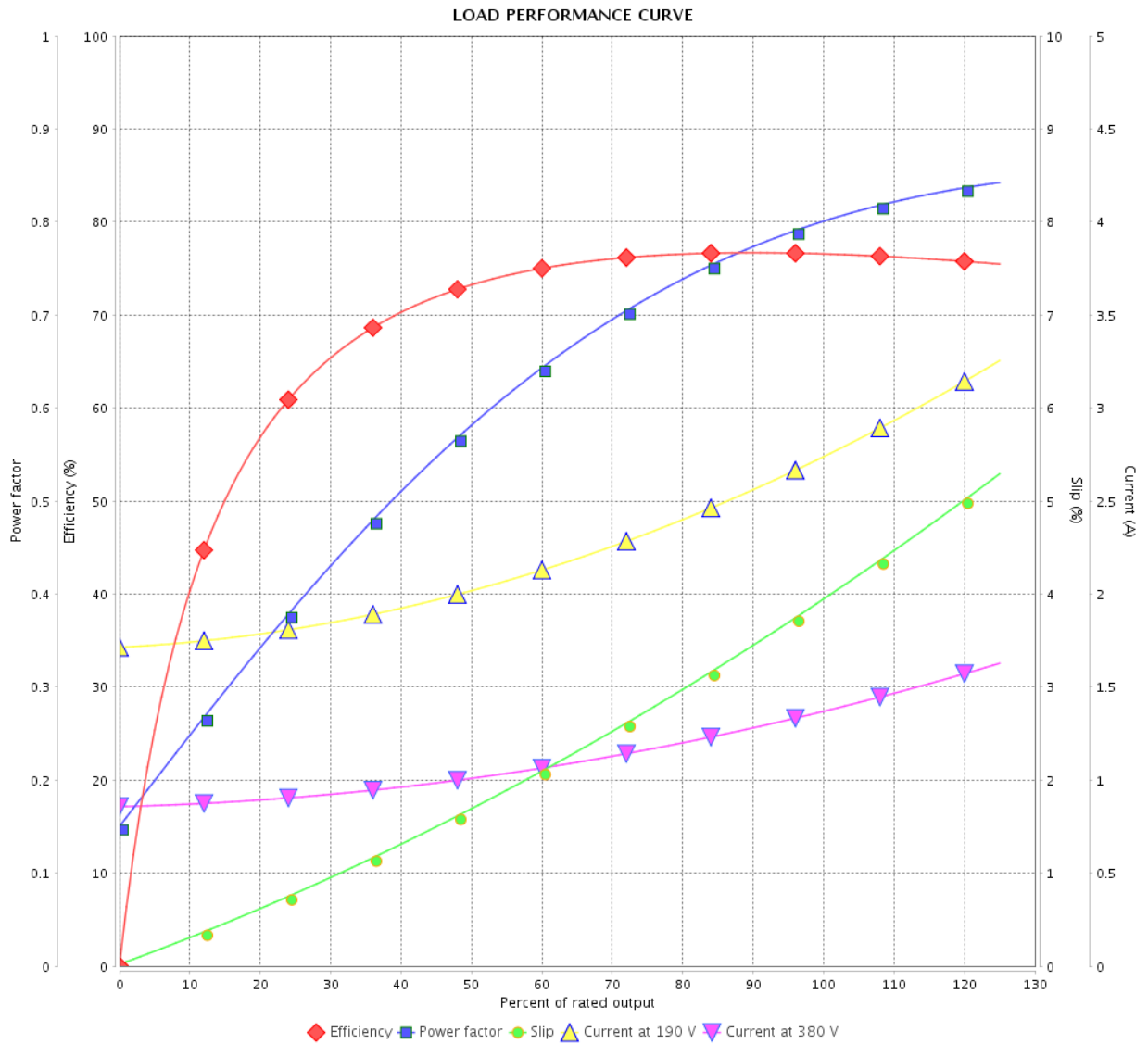
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 13406280



Performance : 190/380 V 50 Hz 4P

Rated current : 2.74/1.37 A  
 LRC : 5.6  
 Rated torque : 0.378 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 229 %  
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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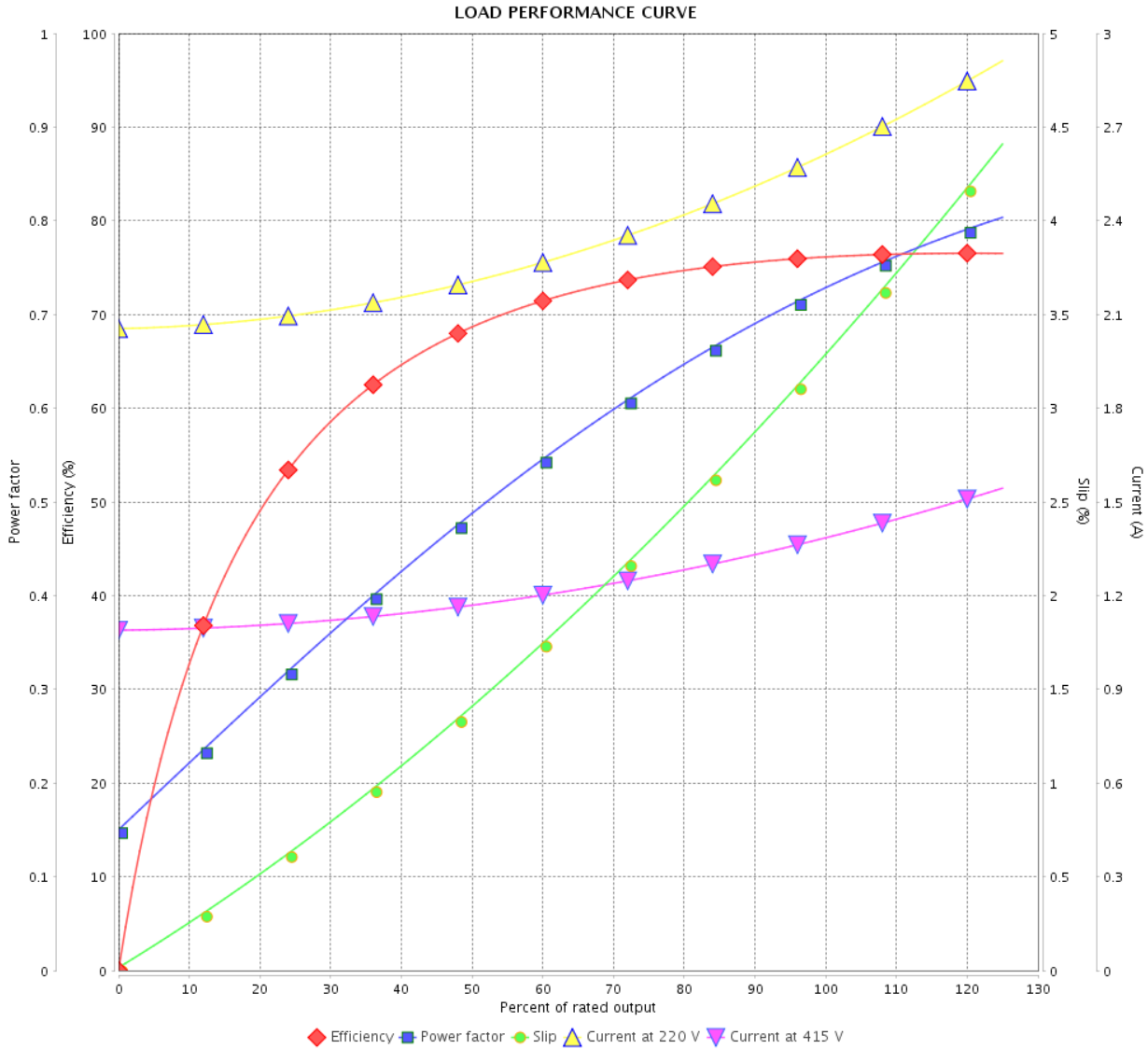
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13406280



Performance : 220/415 V 50 Hz 4P

Rated current : 2.60/1.38 A  
 LRC : 6.2  
 Rated torque : 0.375 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 290 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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