

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12628413	
Frame	: 143/5T	Cooling method	: IC01 - ODP	
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>	: 15.7 kg	
Design	: B	Moment of inertia (J)	: 0.0046 kgm <sup>2</sup>	
Output [HP]	1	1	1	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.02/1.51	3.44/1.72	3.15/1.67	
L. R. Amperes [A]	24.2/12.1	22.4/11.2	22.4/11.9	
LRC [A]	8.0x(Code L)	6.5x(Code J)	7.1x(Code K)	
No load current [A]	1.92/0.958	1.88/0.942	1.93/1.02	
Rated speed [RPM]	1760	1445	1450	
Slip [%]	2.22	3.67	3.33	
Rated torque [kgfm]	0.412	0.502	0.501	
Locked rotor torque [%]	290	200	229	
Breakdown torque [%]	360	270	300	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	39s (cold) 22s (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%	79.9	82.2	80.7
	50%	81.5	81.9	81.0
	75%	84.0	83.4	83.2
	100%	85.5	82.6	83.1
Power Factor	25%	0.29	0.34	0.31
	50%	0.51	0.59	0.55
	75%	0.65	0.73	0.69
	100%	0.73	0.80	0.78
Bearing type	: Drive end 6205 ZZ Non drive end 6203 ZZ	Foundation loads		
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 35 kgf	
Lubrication interval	: - -	Max. compression	: 50 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
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	Checked	Date
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# LOAD PERFORMANCE CURVE

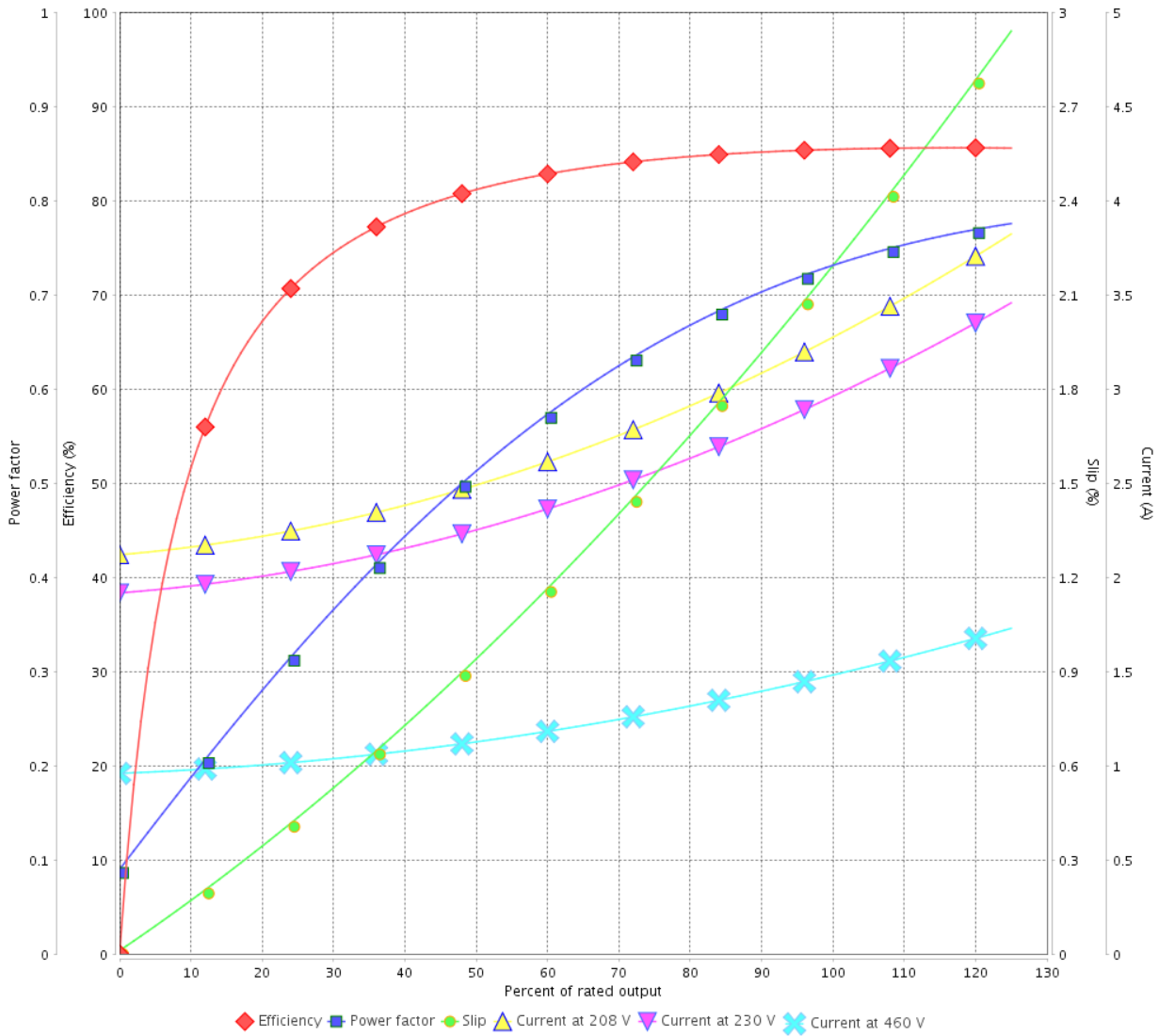
Three Phase Induction Motor - Squirrel Cage



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LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 3.02/1.51 A  
 LRC : 8.0  
 Rated torque : 0.412 kgfm  
 Locked rotor torque : 290 %  
 Breakdown torque : 360 %  
 Rated speed : 1760 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

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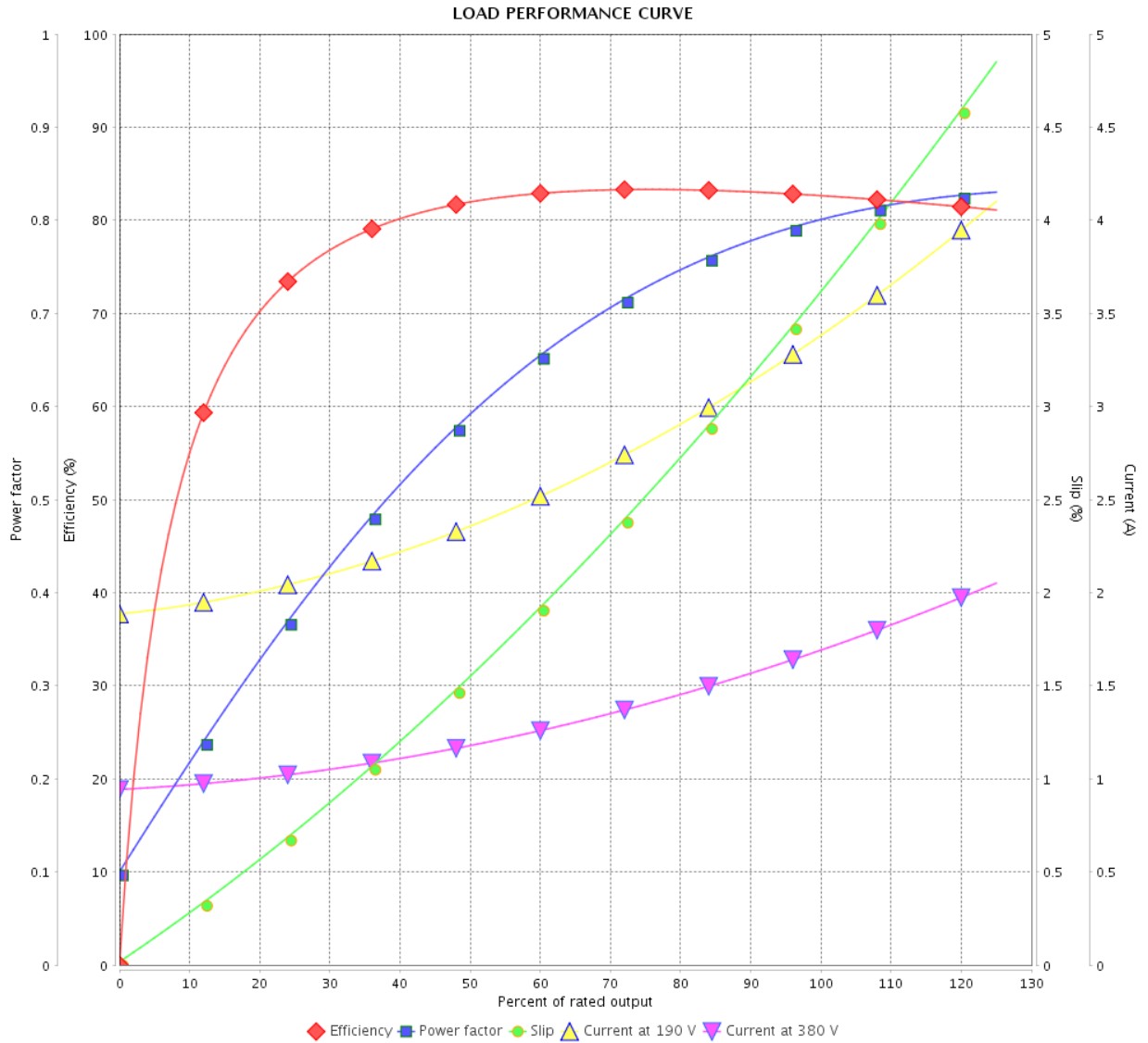
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

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Performance : 190/380 V 50 Hz 4P

Rated current : 3.44/1.72 A  
 LRC : 6.5  
 Rated torque : 0.502 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 270 %  
 Rated speed : 1445 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

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# LOAD PERFORMANCE CURVE

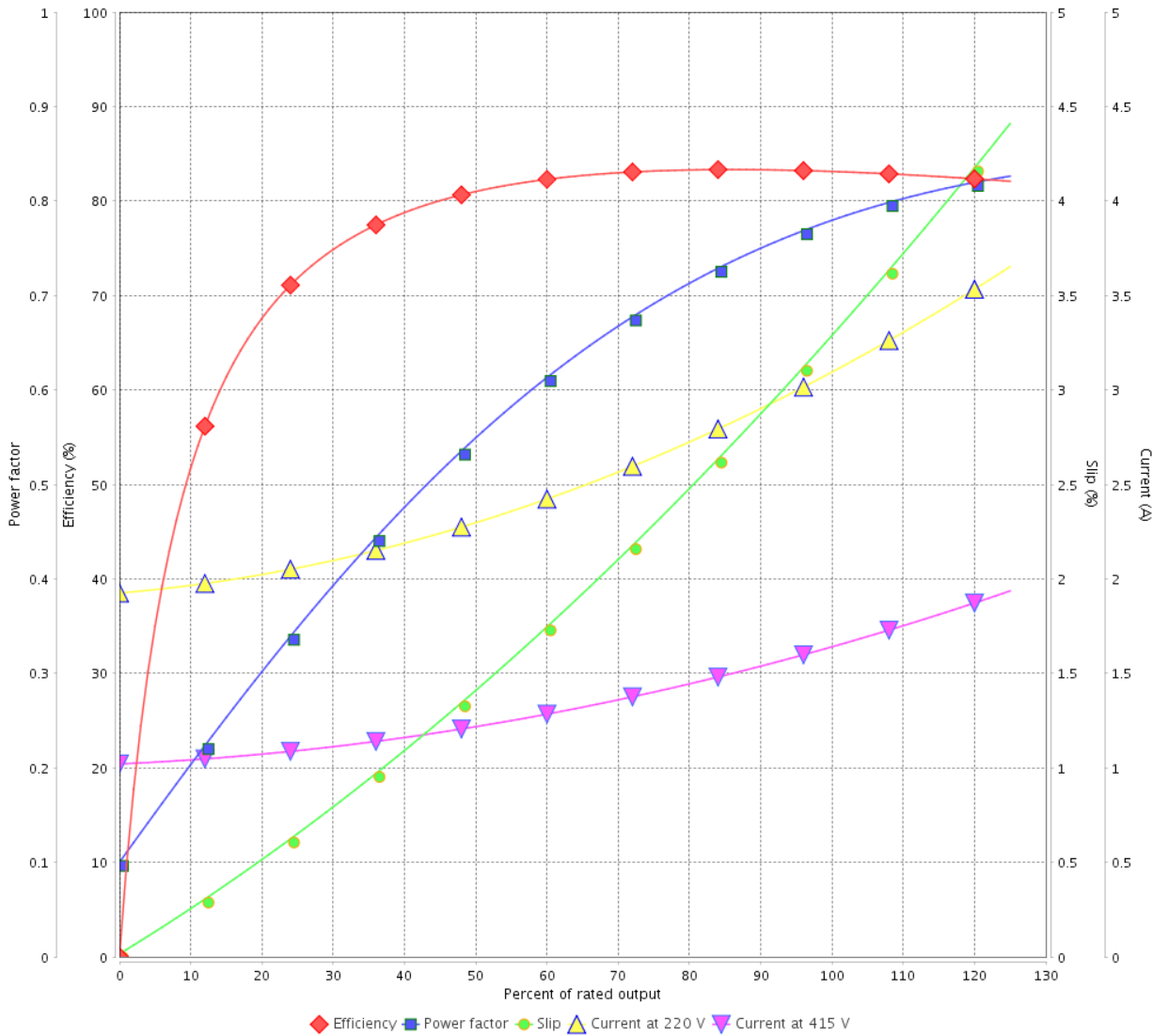
Three Phase Induction Motor - Squirrel Cage



Customer :

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LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

Rated current : 3.15/1.67 A  
 LRC : 7.1  
 Rated torque : 0.501 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 300 %  
 Rated speed : 1450 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

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