

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13702817		
Frame : 56	Insulation class : F	Cooling method : IC411 - TEFC	Mounting : F-1	
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation <sup>1</sup> : Both (CW and CCW)	Starting method : Direct On Line	
Altitude : 1000 m.a.s.l.	Protection degree : IP55	Approx. weight <sup>3</sup> : 12.1 kg	Moment of inertia (J) : 0.0045 kgm <sup>2</sup>	
Output [HP]	0.5	0.5	0.5	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	2.16-1.95/0.976	2.12/1.06	2.02/1.07	
L. R. Amperes [A]	12.1-10.9/5.47	9.54/4.77	10.1/5.35	
LRC [A]	5.6x(Code K)	4.5x(Code G)	5.0x(Code J)	
No load current [A]	1.33-1.55/0.774	1.52/0.761	1.64/0.871	
Rated speed [RPM]	1160	945	955	
Slip [%]	3.33	5.50	4.50	
Rated torque [kgfm]	0.313	0.384	0.380	
Locked rotor torque [%]	240	180	220	
Breakdown torque [%]	330	229	280	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	46s (cold) 26s (hot)	43s (cold) 24s (hot)	36s (cold) 20s (hot)	
Noise level <sup>2</sup>	50.0 dB(A)	48.0 dB(A)	48.0 dB(A)	
Efficiency (%)	25%			
	50%	68.0	69.9	66.3
	75%	74.0	73.8	71.9
	100%	75.5	73.9	73.8
Power Factor	25%			
	50%	0.41	0.49	0.43
	75%	0.53	0.62	0.55
	100%	0.63	0.72	0.65
Bearing type	: Drive end 6203 ZZ Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 28 kgf	
Lubrication interval	: - -	Max. compression	: 40 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

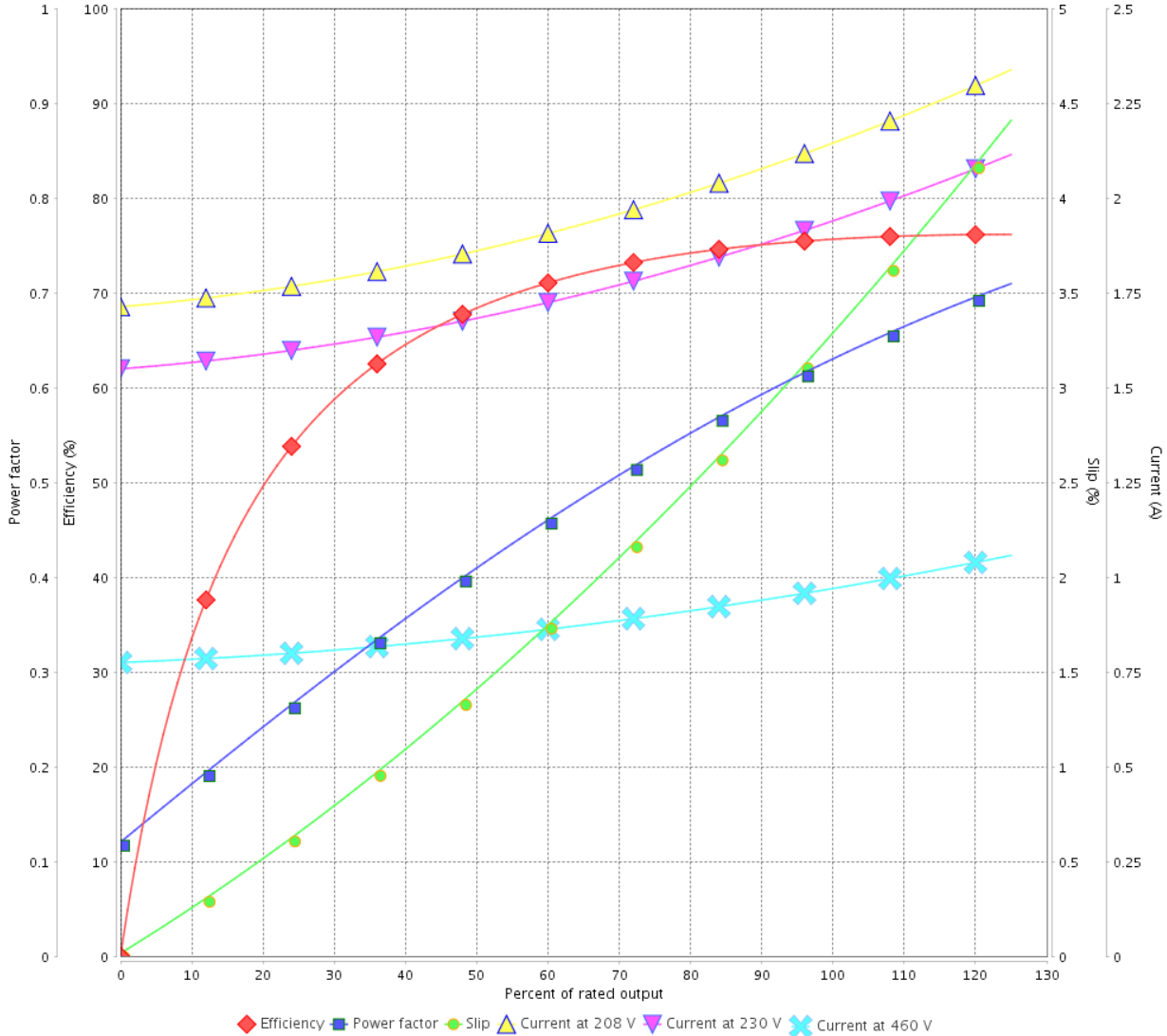


Customer : \_\_\_\_\_

Product line : Three-Phase

Product code : 13702817

LOAD PERFORMANCE CURVE



Performance : 208-230/460 V 60 Hz 6P

Rated current : 2.16-1.95/0.976 A  
 LRC : 5.6  
 Rated torque : 0.313 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 330 %  
 Rated speed : 1160 rpm

Moment of inertia (J) : 0.0045 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

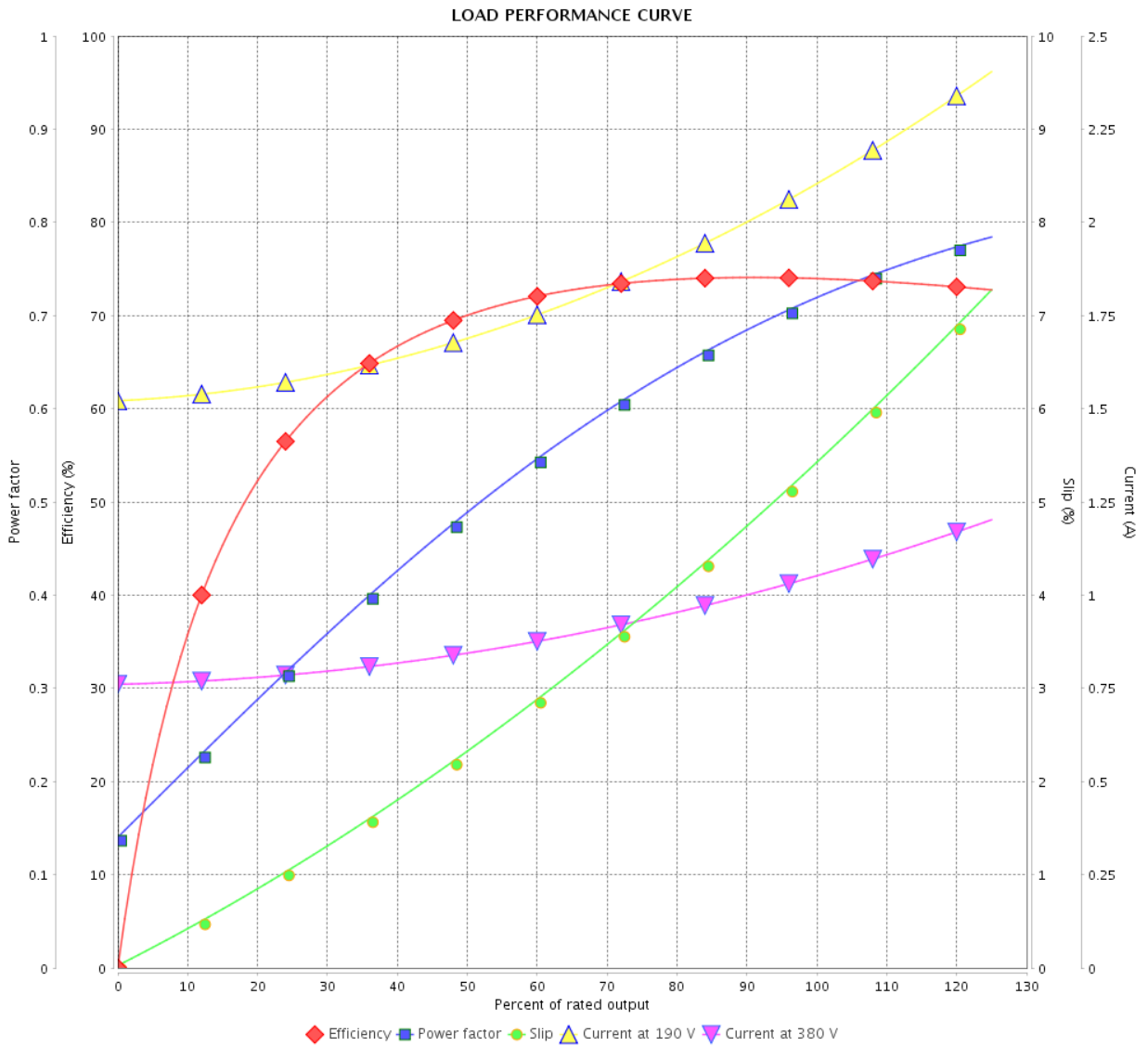
Three Phase Induction Motor - Squirrel Cage



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

Product line : Three-Phase

Product code : 13702817



Performance : 190/380 V 50 Hz 6P

Rated current : 2.12/1.06 A  
 LRC : 4.5  
 Rated torque : 0.384 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 229 %  
 Rated speed : 945 rpm

Moment of inertia (J) : 0.0045 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

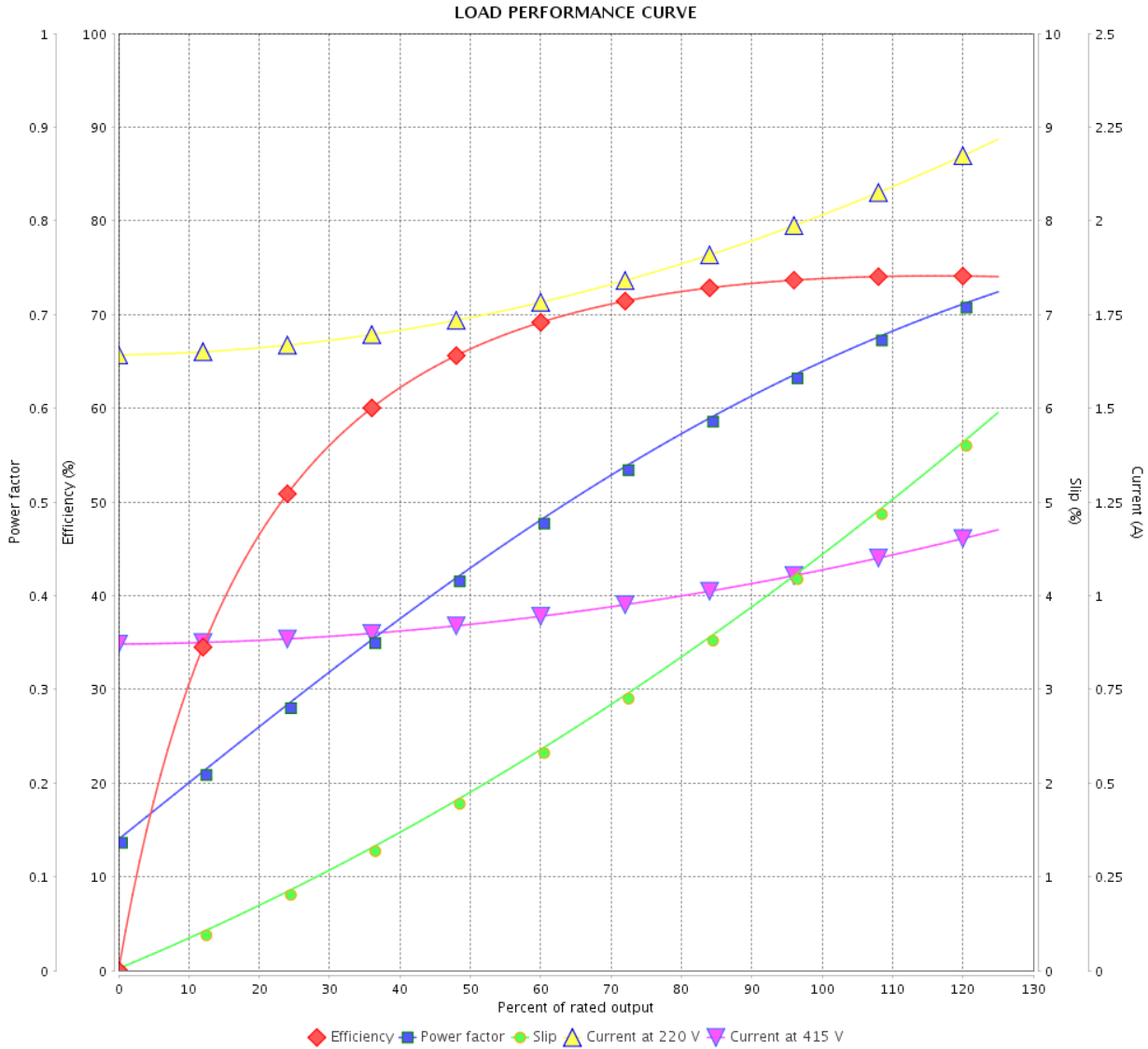
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702817



Performance : 220/415 V 50 Hz 6P

Rated current : 2.02/1.07 A  
 LRC : 5.0  
 Rated torque : 0.380 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 280 %  
 Rated speed : 955 rpm

Moment of inertia (J) : 0.0045 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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