

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase	Product code : 13702964			
Frame : 56 Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B	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> : 14.8 kg Moment of inertia (J) : 0.0043 kgm <sup>2</sup>			
Output [HP]	1.5	1.5	1.5	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	3.74/1.87	4.44/2.22	3.90/2.07	
L. R. Amperes [A]	34.0/17.0	32.0/16.0	33.2/17.6	
LRC [A]	9.1x(Code L)	7.2x(Code H)	8.5x(Code K)	
No load current [A]	1.72/0.859	1.69/0.845	1.83/0.971	
Rated speed [RPM]	3520	2895	2915	
Slip [%]	2.22	3.50	2.83	
Rated torque [kgfm]	0.309	0.376	0.373	
Locked rotor torque [%]	229	190	240	
Breakdown torque [%]	300	280	330	
Service factor		1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)	
Efficiency (%)	25%			
	50%	80.0	81.7	
	75%	82.5	84.0	
	100%	84.0	83.9	
Power Factor	25%			
	50%	0.71	0.70	
	75%	0.82	0.82	
	100%	0.88	0.88	
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring V'Ring	Max. traction	: 32 kgf	
Lubrication interval	: - -	Max. compression	: 47 kgf	
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 4.13A SF 1.00 SFA 4.13A				
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

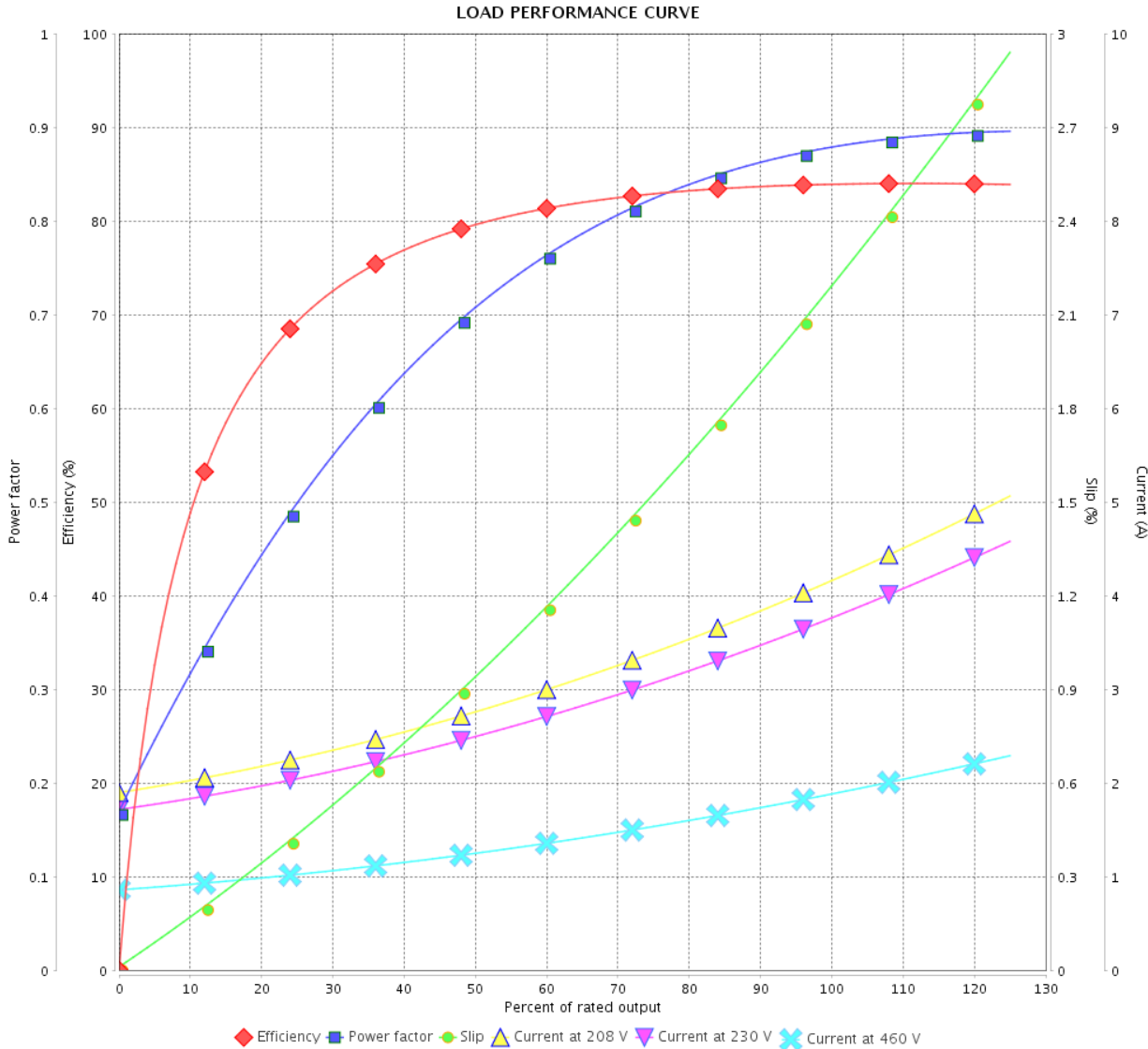
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13702964



Performance : 230/460 V 60 Hz 2P

Rated current : 3.74/1.87 A  
 LRC : 9.1  
 Rated torque : 0.309 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 300 %  
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0043 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

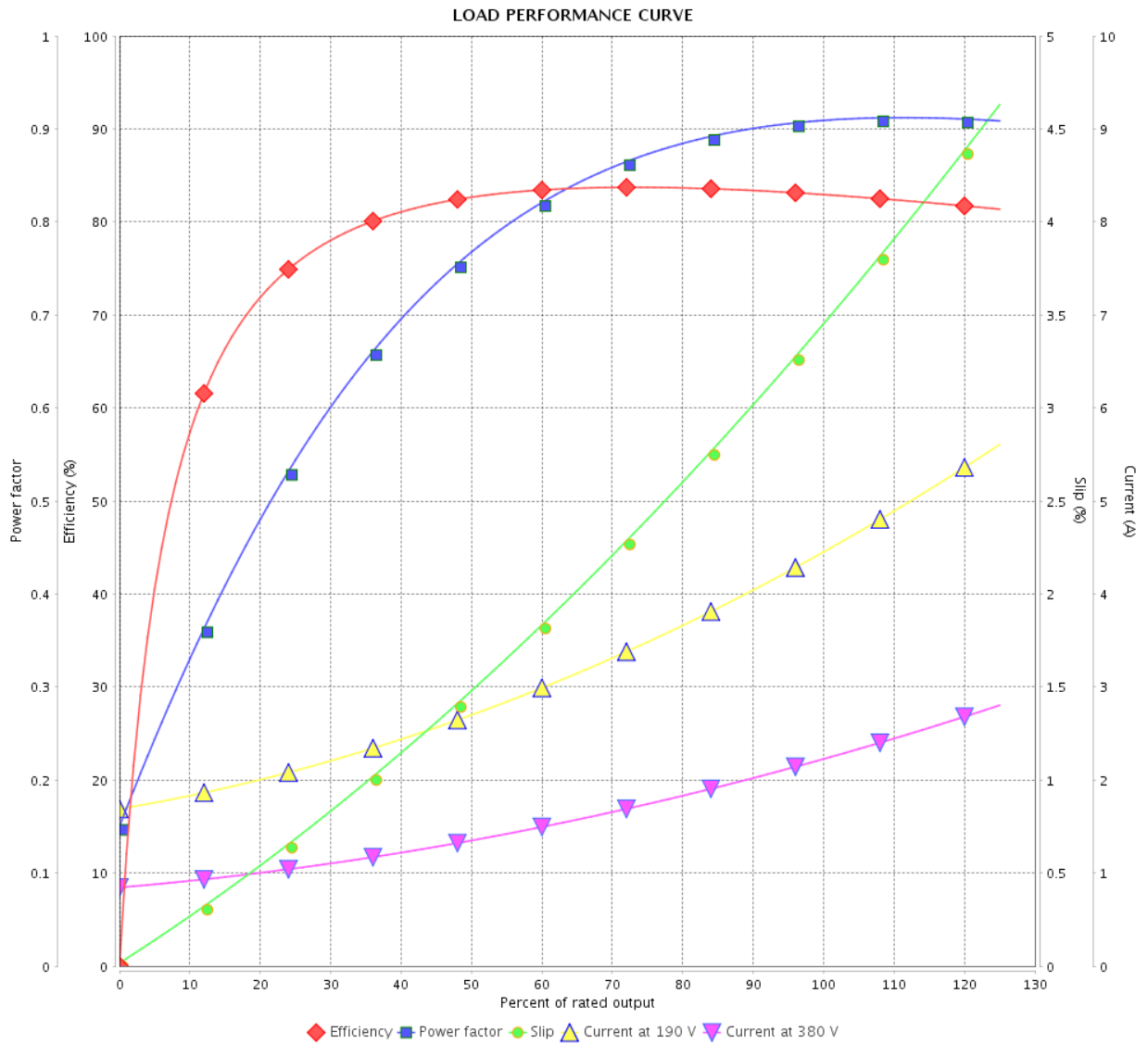
Three Phase Induction Motor - Squirrel Cage



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

Product line : Three-Phase

Product code : 13702964



Performance : 190/380 V 50 Hz 2P

Rated current : 4.44/2.22 A  
 LRC : 7.2  
 Rated torque : 0.376 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 280 %  
 Rated speed : 2895 rpm

Moment of inertia (J) : 0.0043 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

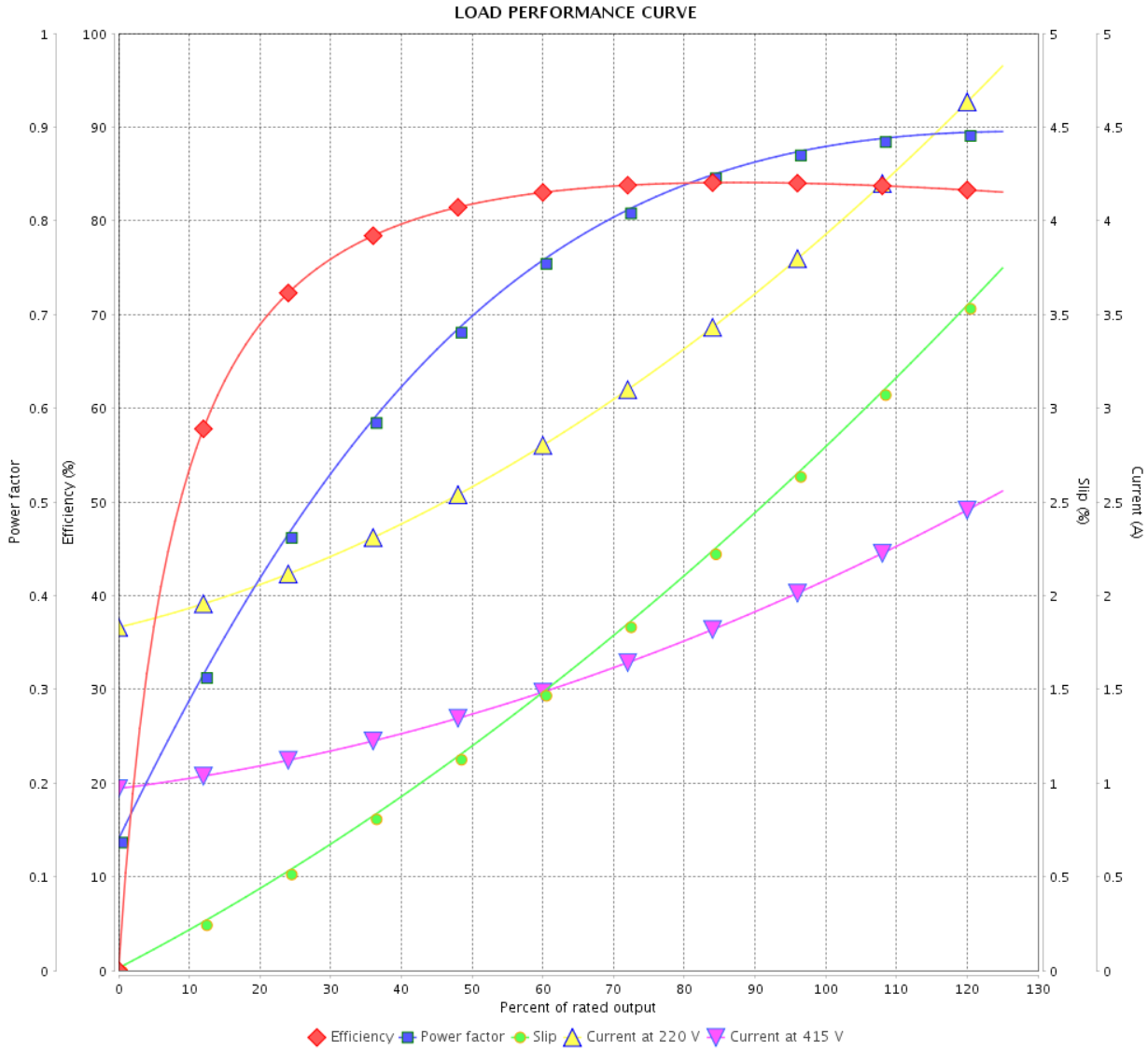
Three Phase Induction Motor - Squirrel Cage



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

Product line : Three-Phase

Product code : 13702964



Performance : 220/415 V 50 Hz 2P

Rated current : 3.90/2.07 A  
 LRC : 8.5  
 Rated torque : 0.373 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 330 %  
 Rated speed : 2915 rpm

Moment of inertia (J) : 0.0043 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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