

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : Three-Phase		Product code : 13997115		
Frame	: 56HC	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 18.1 kg	
Design	: A	Moment of inertia (J)	: 0.0054 kgm ²	
Output [HP]	3	3	3	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	7.18/3.59	8.78/4.39	7.56/4.01	
L. R. Amperes [A]	57.4/28.7	53.6/26.8	56.0/29.7	
LRC [A]	8.0x(Code J)	6.1x(Code G)	7.4x(Code J)	
No load current [A]	2.60/1.30	2.60/1.30	2.91/1.54	
Rated speed [RPM]	3480	2825	2860	
Slip [%]	3.33	5.83	4.67	
Rated torque [kgfm]	0.626	0.771	0.761	
Locked rotor torque [%]	229	190	240	
Breakdown torque [%]	300	229	270	
Service factor		1.00	1.00	
Temperature rise	80 K	105 K	105 K	
Locked rotor time	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	
Efficiency (%)	25%			
	50%	84.0	86.6	86.2
	75%	85.5	85.0	85.9
	100%	85.5	81.8	83.9
Power Factor	25%			
	50%	0.76	0.83	0.76
	75%	0.86	0.90	0.86
	100%	0.90	0.93	0.91
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 57 kgf	
		Max. compression	: 75 kgf	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 7.94A SF 1.00 SFA 7.94A				
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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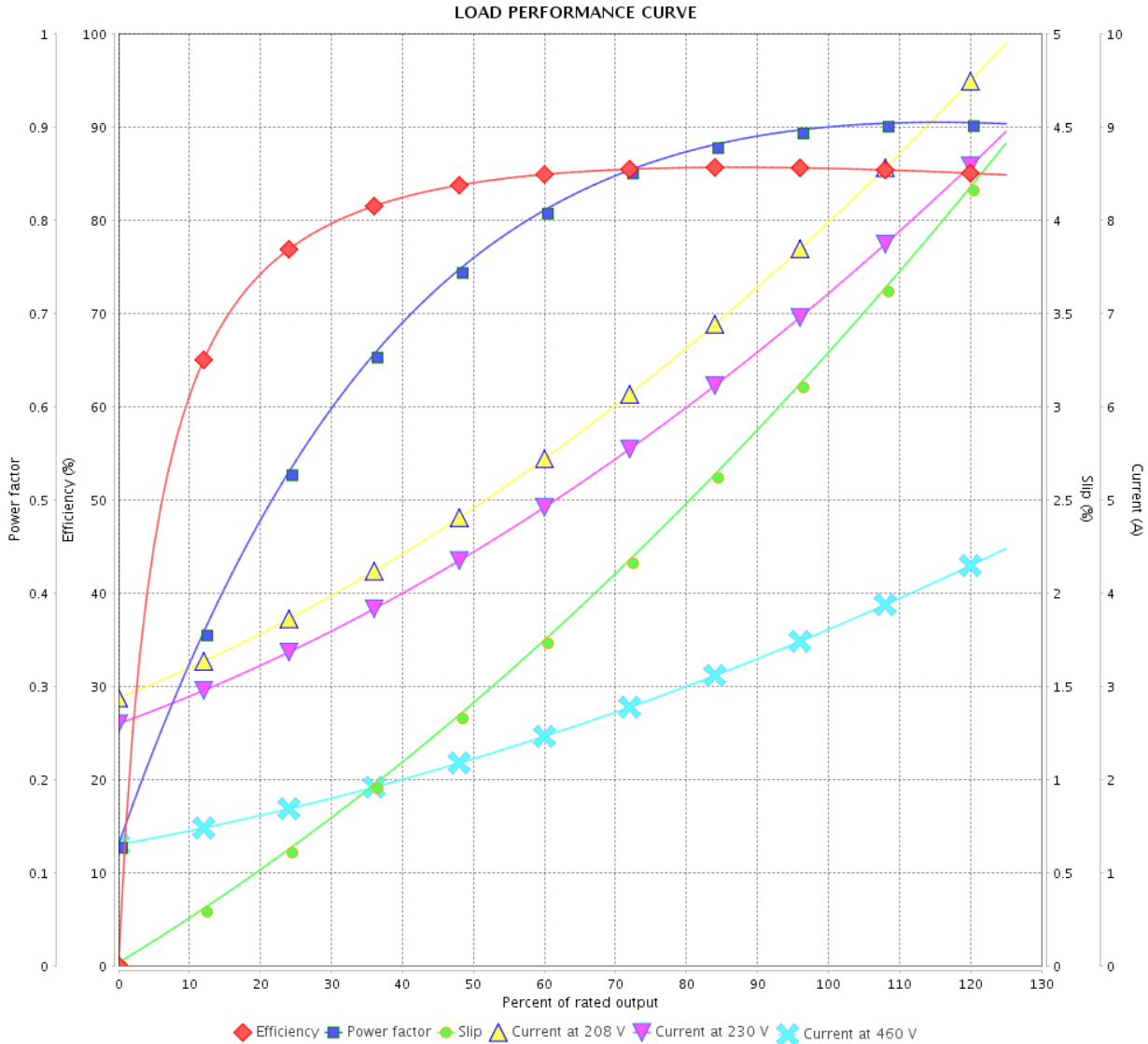
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13997115



Performance : 230/460 V 60 Hz 2P

Rated current : 7.18/3.59 A
 LRC : 8.0
 Rated torque : 0.626 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

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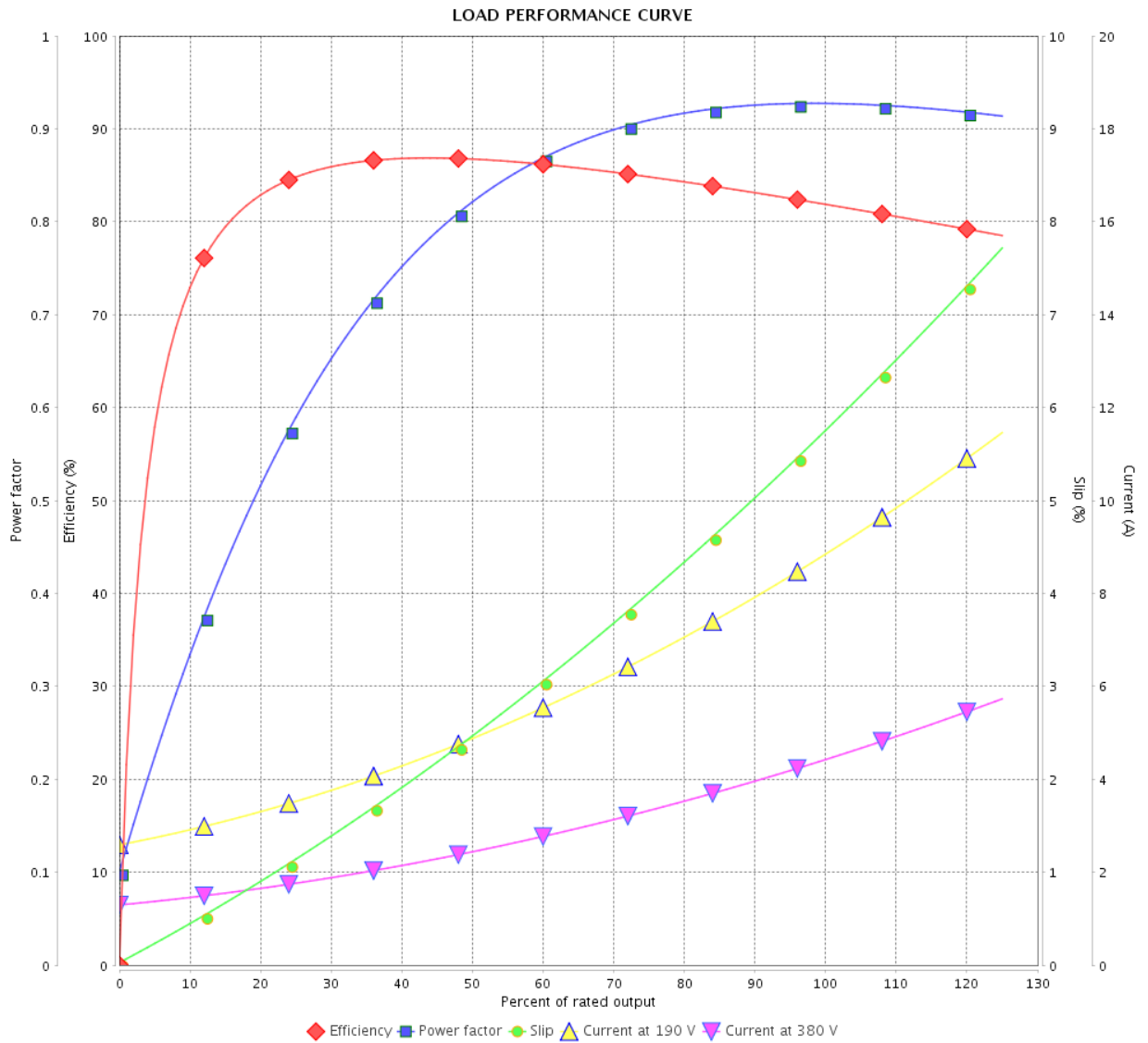
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13997115



Performance : 190/380 V 50 Hz 2P

Rated current : 8.78/4.39 A
 LRC : 6.1
 Rated torque : 0.771 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 2825 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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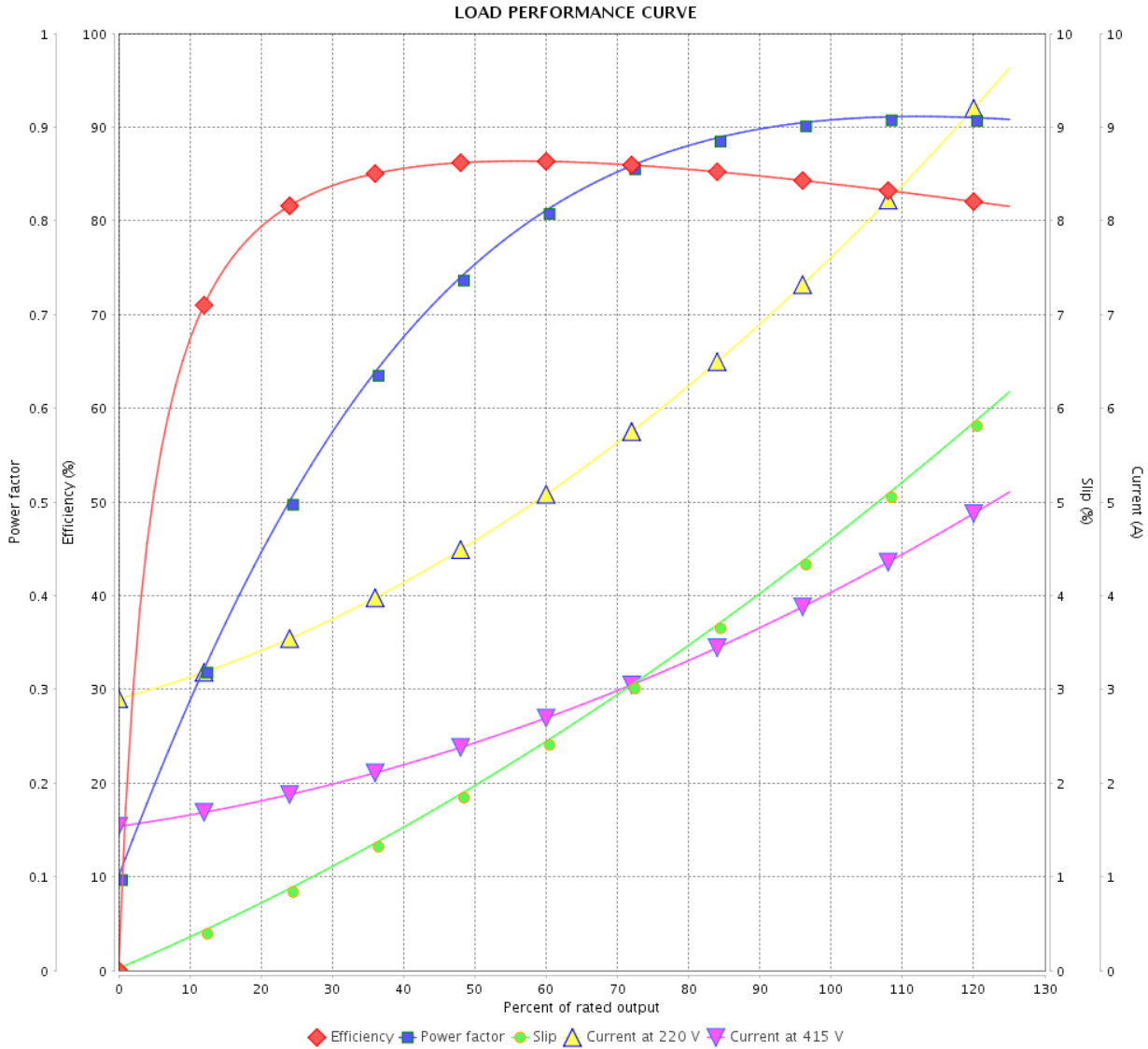
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Three-Phase

Product code : 13997115



Performance : 220/415 V 50 Hz 2P

Rated current : 7.56/4.01 A
 LRC : 7.4
 Rated torque : 0.761 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 2860 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : A

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