

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase		Product code : 13130334			
Frame : 447/9T	Insulation class : F	Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Altitude : 1000 m.a.s.l.	
Protection degree : IP55	Design : A	Cooling method : IC411 - TEFC	Mounting : F-1	Rotation ¹ : Both (CW and CCW)	
		Starting method : Direct On Line	Approx. weight ² : 1402 kg	Moment of inertia (J) : 6.09 kgm ²	
Output [HP]	300	250	250	250	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	712/356	362	357	349	
L. R. Amperes [A]	5482/2741	2679	2785	2862	
LRC [A]	7.7x(Code J)	7.4x(Code H)	7.8x(Code J)	8.2x(Code K)	
No load current [A]	340/170	170	185	200	
Rated speed [RPM]	1189	988	990	990	
Slip [%]	0.92	1.20	1.00	1.00	
Rated torque [kgfm]	183	184	183	183	
Locked rotor torque [%]	270	229	260	290	
Breakdown torque [%]	300	250	270	290	
Service factor	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	18s (cold) 10s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	
Noise level ²	70.0 dB(A)				
Efficiency (%)	25%				
	50%	95.4	95.0	94.5	
	75%	95.8	95.4	95.0	
	100%	95.8	95.8	95.8	
Power Factor	25%				
	50%	0.63	0.61	0.59	
	75%	0.75	0.75	0.71	
	100%	0.81	0.81	0.78	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	5.2	5.2	5.2	5.2
	P2 (0,5;1,0)	4.3	4.3	4.3	4.3
	P3 (0,25;1,0)	3.7	3.7	3.7	3.7
	P4 (0,9;0,5)	3.0	3.0	3.0	3.0
	P5 (0,5;0,5)	2.3	2.3	2.3	2.3
	P6 (0,5;0,25)	1.8	1.8	1.8	1.8
	P7 (0,25;0,25)	1.1	1.1	1.1	1.1
Bearing type : NU-322 C3	Drive end	Non drive end	Foundation loads		
Sealing : WSeal			Max. traction : 3948 kgf		
Lubrication interval : 7000 h			Max. compression : 5350 kgf		
Lubricant amount : 60 g					
Lubricant type : Mobil Polyrex EM					
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.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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Notes
USABLE @208V 767A SF 1.00 SFA 767A

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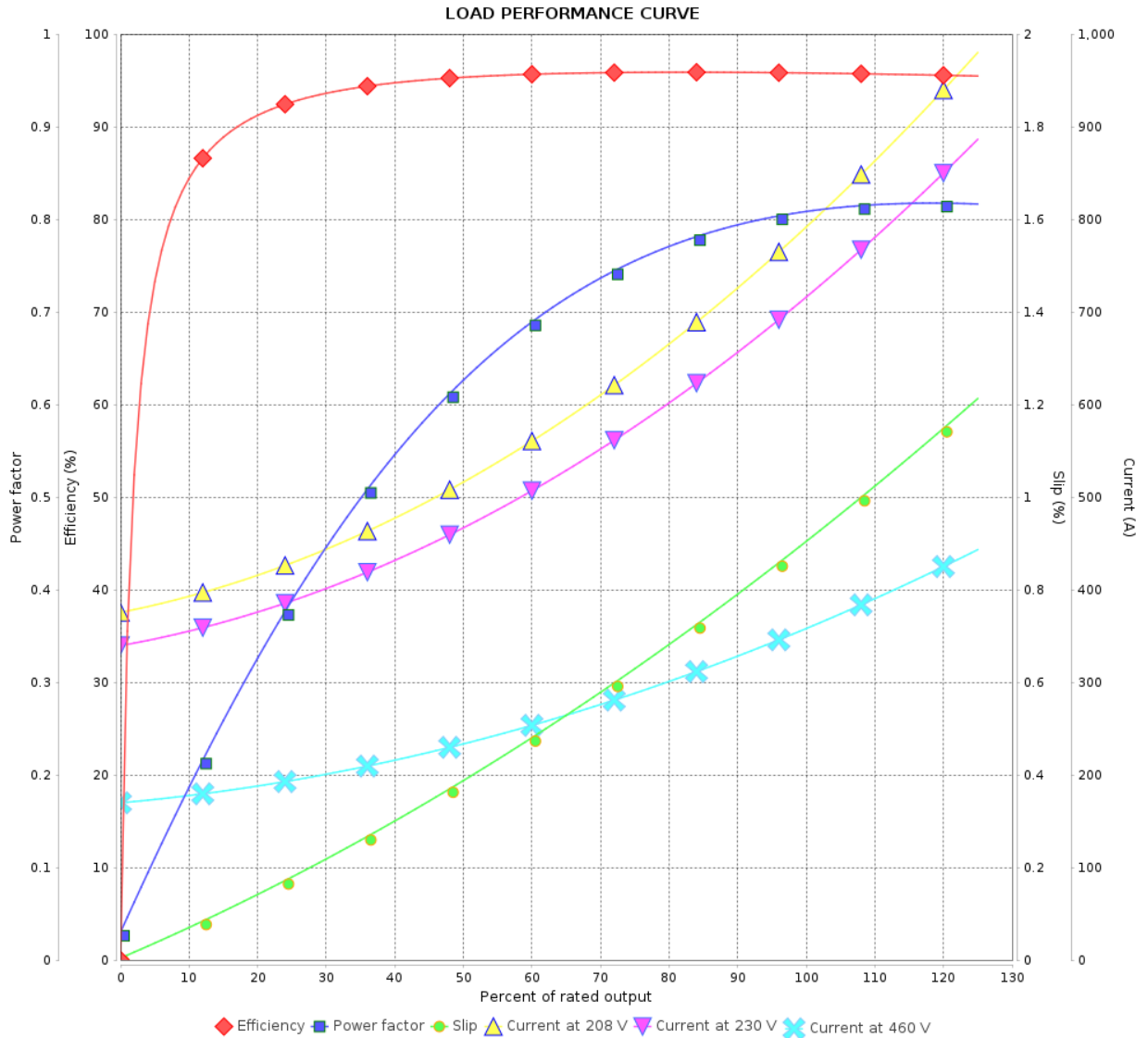
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13130334



Performance : 230/460 V 60 Hz 6P

Rated current : 712/356 A
 LRC : 7.7
 Rated torque : 183 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1189 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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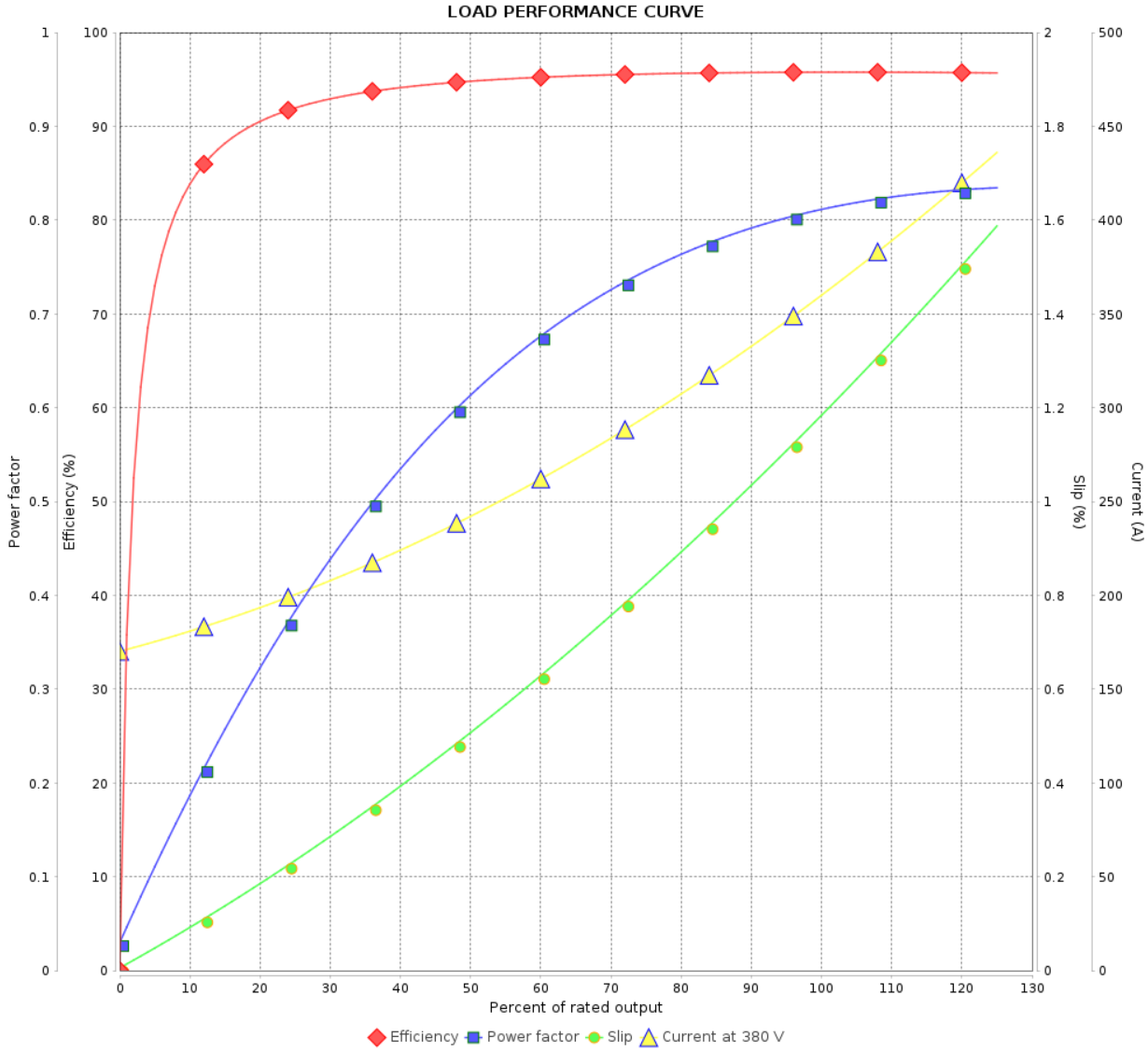
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13130334



Performance : 380 V 50 Hz 6P IE3

Rated current : 362 A
 LRC : 7.4
 Rated torque : 184 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 988 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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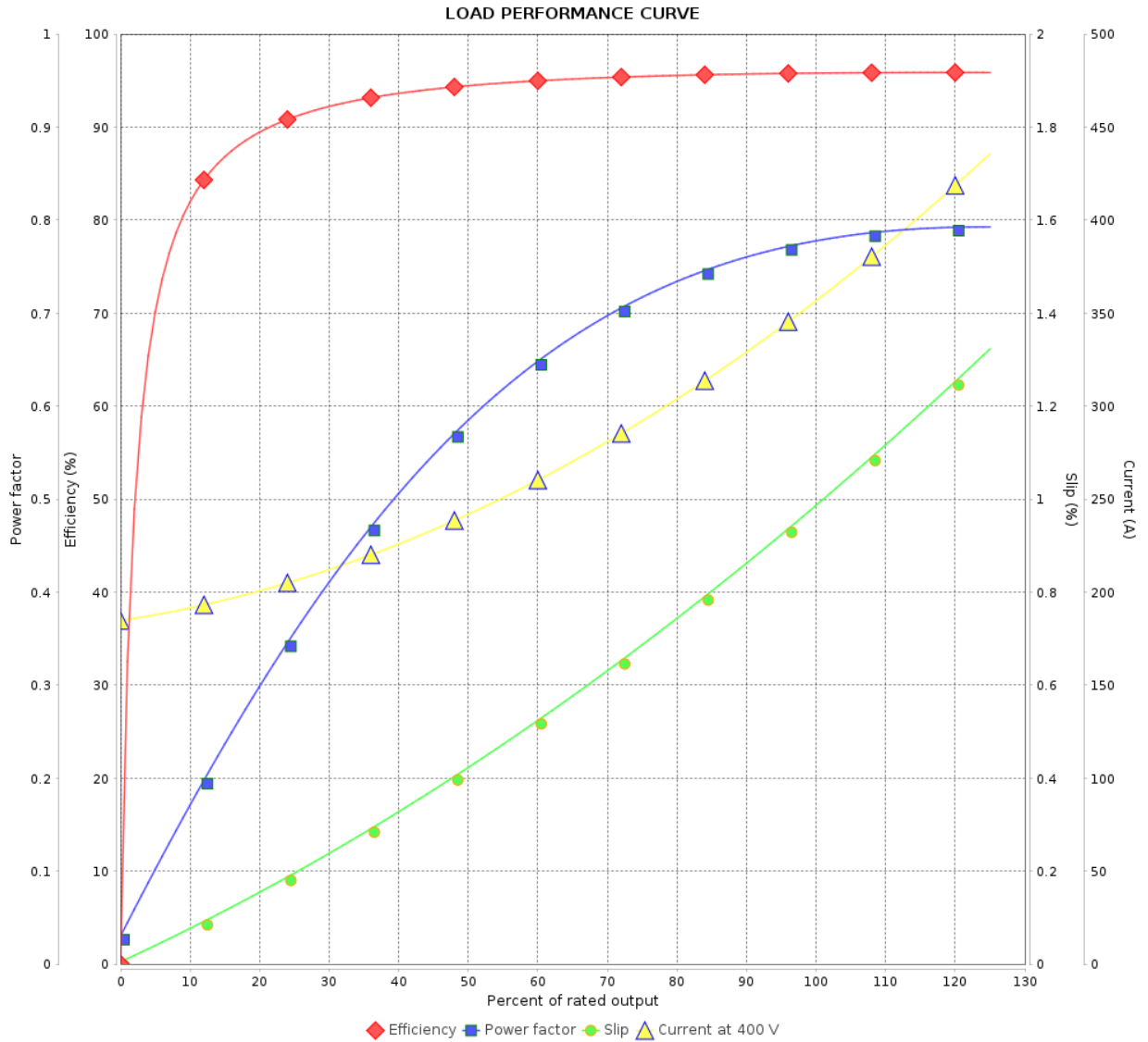
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13130334



Performance : 400 V 50 Hz 6P IE3

Rated current : 357 A
 LRC : 7.8
 Rated torque : 183 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 270 %
 Rated speed : 990 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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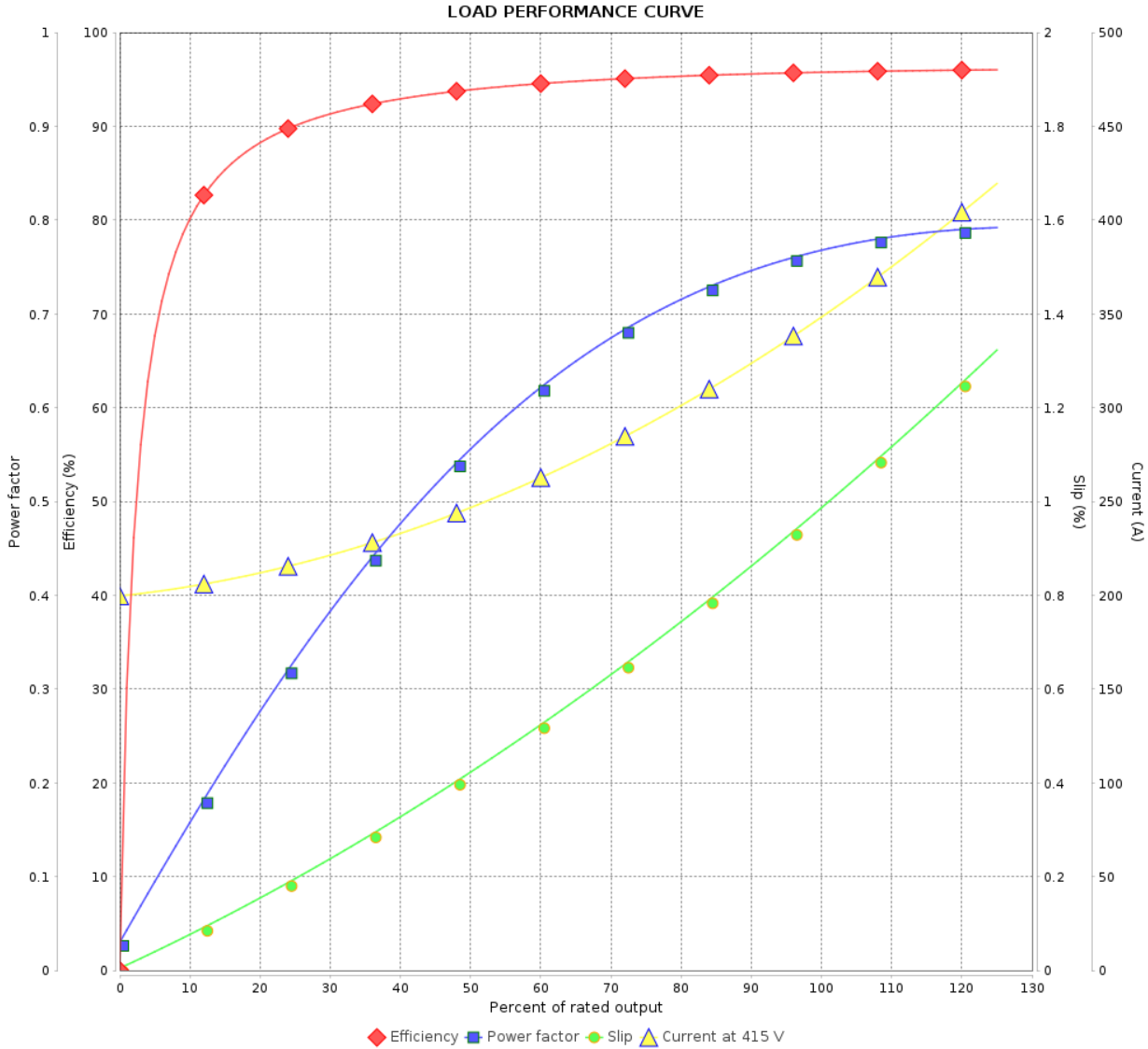
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 415 V 50 Hz 6P IE3

Rated current : 349 A
 LRC : 8.2
 Rated torque : 183 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 290 %
 Rated speed : 990 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

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