

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase		Product code : 11166456			
Frame : 586/7T	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 ¹ : Both (CW and CCW)	
		Starting method : Direct On Line	Approx. weight ² : 1658 kg	Moment of inertia (J) : 11.7 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]	748/374	376	372	373	
L. R. Amperes [A]	4488/2244	2256	2418	2611	
LRC [A]	6.0x(Code G)	6.0x(Code G)	6.5x(Code H)	7.0x(Code J)	
No load current [A]	362/181	176	194	212	
Rated speed [RPM]	1193	993	994	994	
Slip [%]	0.58	0.70	0.60	0.60	
Rated torque [kgfm]	182	183	183	183	
Locked rotor torque [%]	210	200	229	240	
Breakdown torque [%]	250	229	270	290	
Service factor	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	54s (cold) 30s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	
Noise level ²	77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	
Efficiency (%)	25%				
	50%	94.3	94.0	94.0	
	75%	95.5	95.5	95.3	
	100%	95.8	95.8	95.8	
Power Factor	25%				
	50%	0.60	0.61	0.58	
	75%	0.71	0.72	0.69	
	100%	0.77	0.78	0.75	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.8	4.8	4.8	4.8
	P2 (0,5;1,0)	3.7	3.7	3.7	3.7
	P3 (0,25;1,0)	3.1	3.1	3.1	3.1
	P4 (0,9;0,5)	2.7	2.7	2.7	2.7
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8
Bearing type	Drive end : NU-322 C3	Non drive end : 6319 C3	Foundation loads		
Sealing	Labyrinth	Labyrinth	Max. traction	: 2795 kgf	
Lubrication interval	: 7000 h	13000 h	Max. compression	: 4453 kgf	
Lubricant amount	: 60 g	45 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).			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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Customer : _____

Notes
USABLE @208V 792A SF 1.00 SFA 792A

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Customer : _____

Space heater information

Voltage: 200 - 240 V

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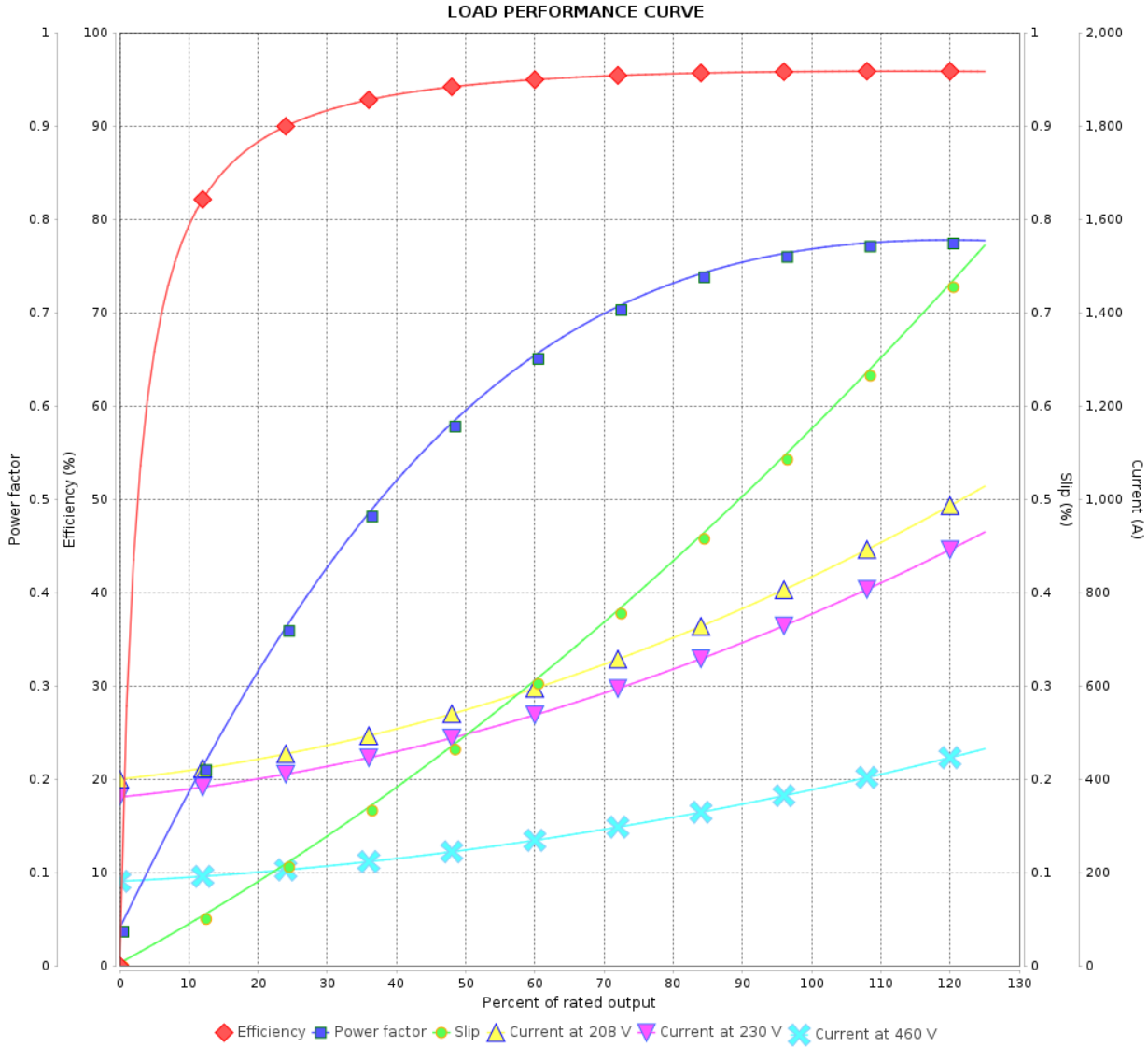
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166456



Performance : 230/460 V 60 Hz 6P

Rated current : 748/374 A
 LRC : 6.0
 Rated torque : 182 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1193 rpm

Moment of inertia (J) : 11.7 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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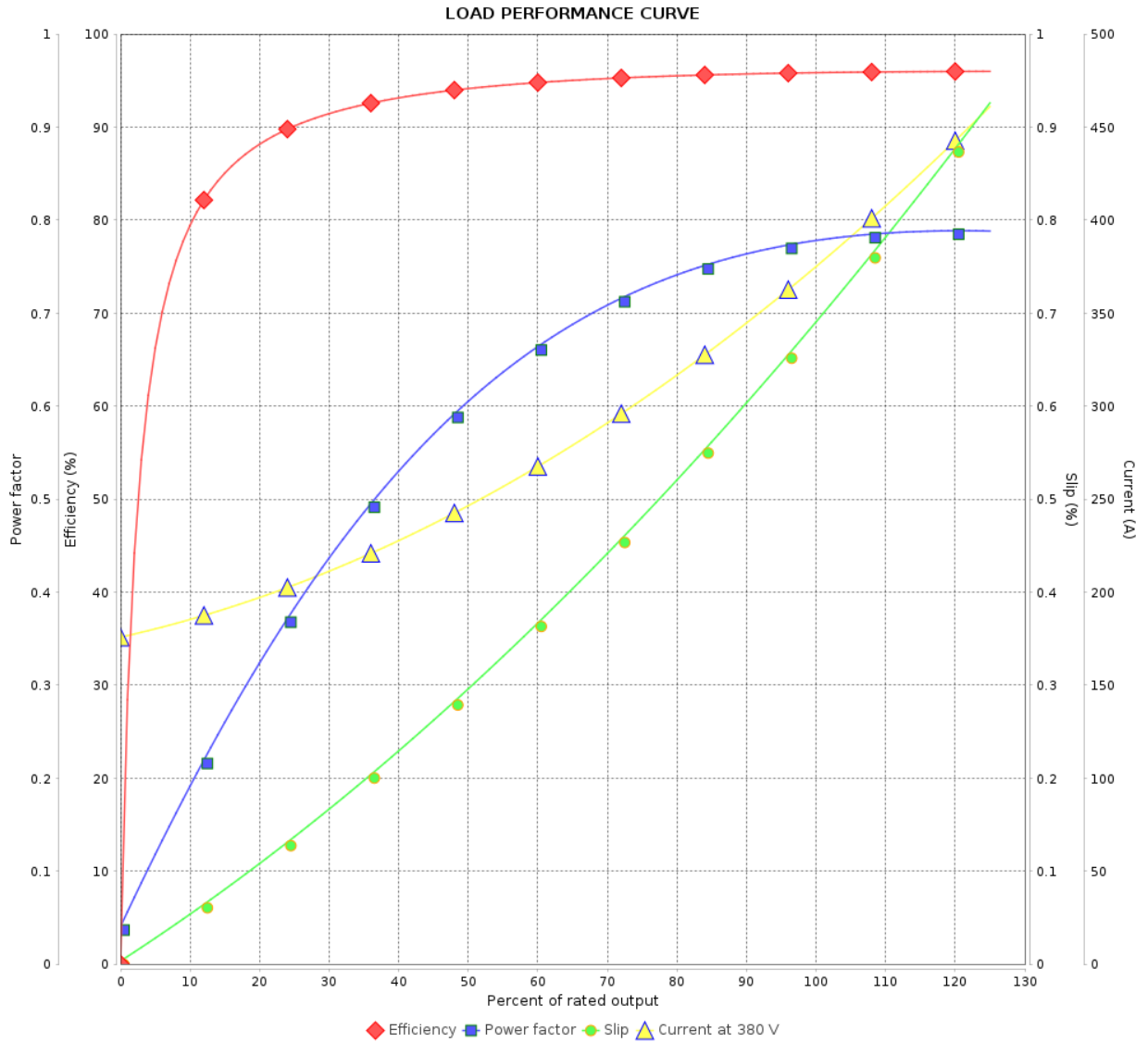
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166456



Performance : 380 V 50 Hz 6P IE3

Rated current : 376 A
 LRC : 6.0
 Rated torque : 183 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 993 rpm

Moment of inertia (J) : 11.7 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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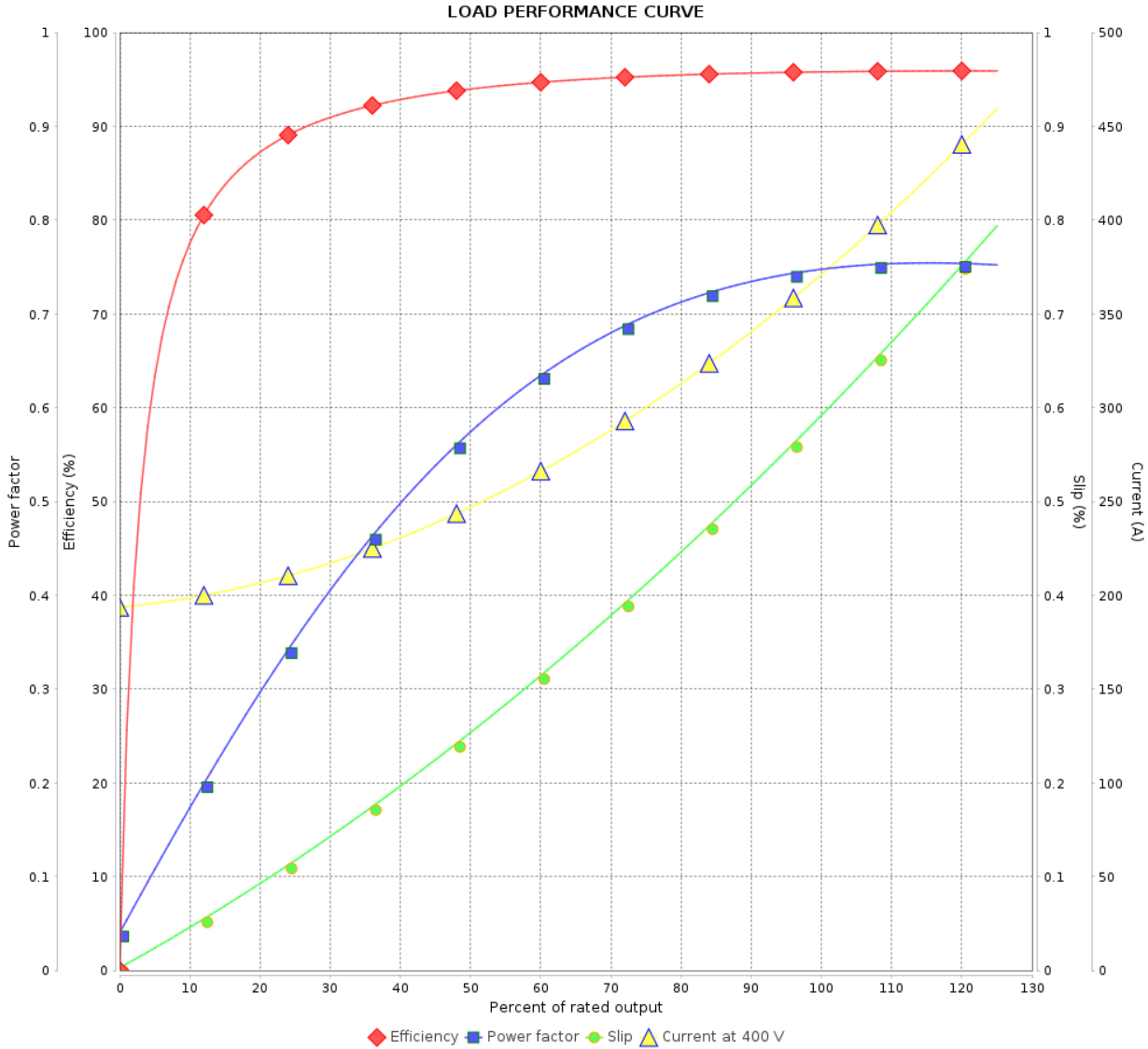
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166456



Performance : 400 V 50 Hz 6P IE3

Rated current : 372 A
 LRC : 6.5
 Rated torque : 183 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 994 rpm

Moment of inertia (J) : 11.7 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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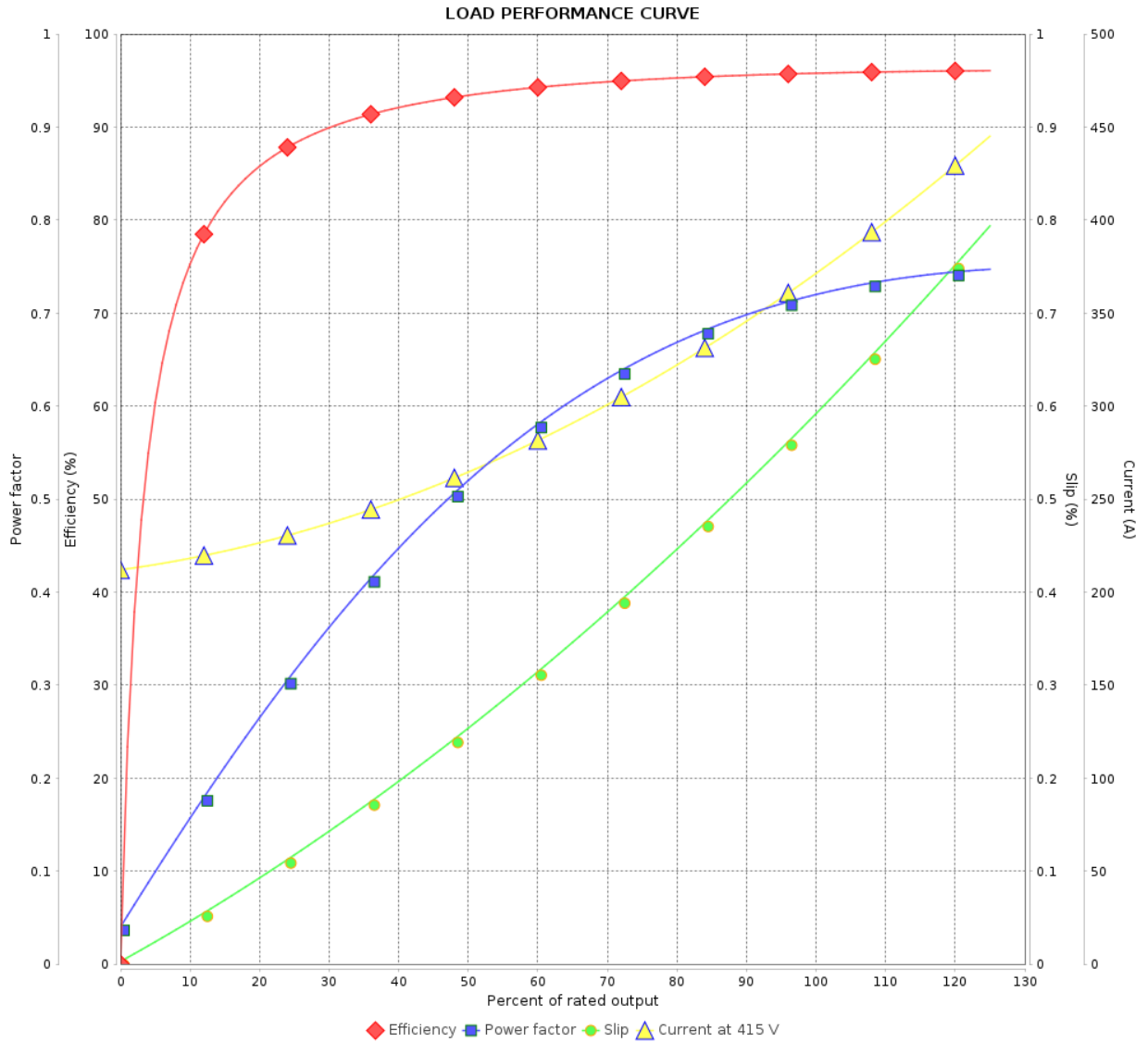
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11166456



Performance : 415 V 50 Hz 6P IE3

Rated current : 373 A
 LRC : 7.0
 Rated torque : 183 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 994 rpm

Moment of inertia (J) : 11.7 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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