

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11166581				
Frame	: 444/5T	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 ²	: 714 kg				
Protection degree	: IP23	Moment of inertia (J)	: 2.41 kgm ²				
Design	: B						
Output [HP]	250	220	220	220	250	250	250
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	564/282	299	290	283	352	340	330
L. R. Amperes [A]	3948/1974	2183	2320	2462	2253	2414	2541
LRC [A]	7.0x(Code G)	7.3x(Code H)	8.0x(Code J)	8.7x(Code K)	6.4x(Code G)	7.1x(Code H)	7.7x(Code J)
No load current [A]	186/93.0	91.6	103	114	91.6	103	114
Rated speed [RPM]	1780	1480	1480	1485	1480	1480	1485
Slip [%]	1.11	1.33	1.33	1.00	1.33	1.33	1.00
Rated torque [kgfm]	102	108	108	108	123	123	122
Locked rotor torque [%]	210	240	250	270	210	220	240
Breakdown torque [%]	250	270	300	330	240	260	290
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level ²	78.0 dB(A)						
Efficiency (%)	25%						
	50%	95.4	92.6	92.5	92.4	93.4	93.4
	75%	95.8	93.7	93.8	94.1	93.6	93.6
	100%	95.8	95.8	95.8	95.8	93.9	93.6
Power Factor	25%						
	50%	0.76	0.70	0.66	0.63	0.75	0.71
	75%	0.83	0.82	0.79	0.77	0.82	0.80
	100%	0.86	0.85	0.83	0.82	0.85	0.84
Bearing type	: 6319 C3	6316 C3	Foundation loads				
Sealing	: Without	Without	Max. traction	: 2742 kgf			
	Bearing Seal	Bearing Seal	Max. compression	: 3457 kgf			
Lubrication interval	: 20000 h	20000 h					
Lubricant amount	: 45 g	34 g					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 608A SF 1.00 SFA 608A							
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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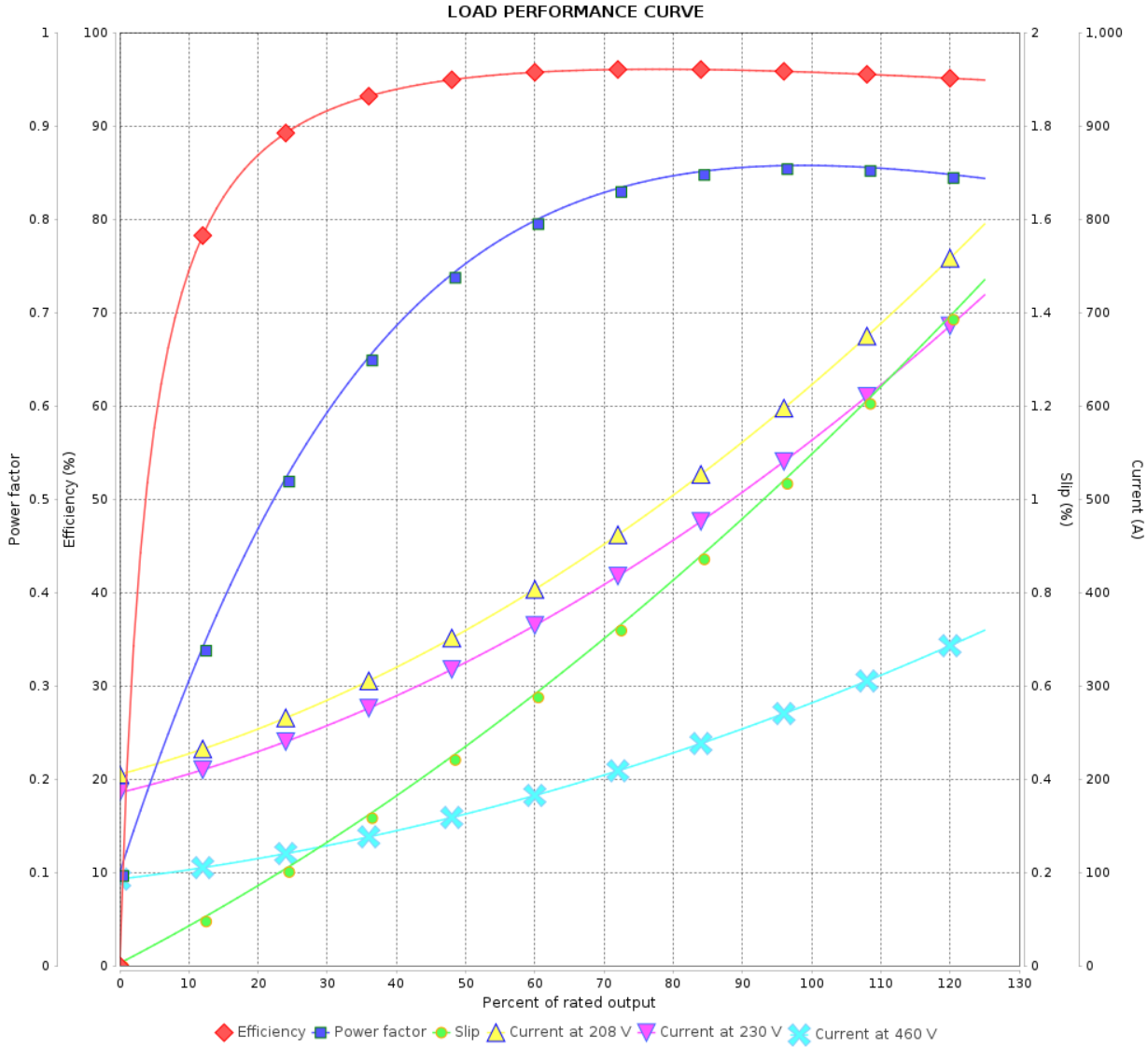
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 230/460 V 60 Hz 4P

Rated current : 564/282 A
 LRC : 7.0
 Rated torque : 102 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 2.41 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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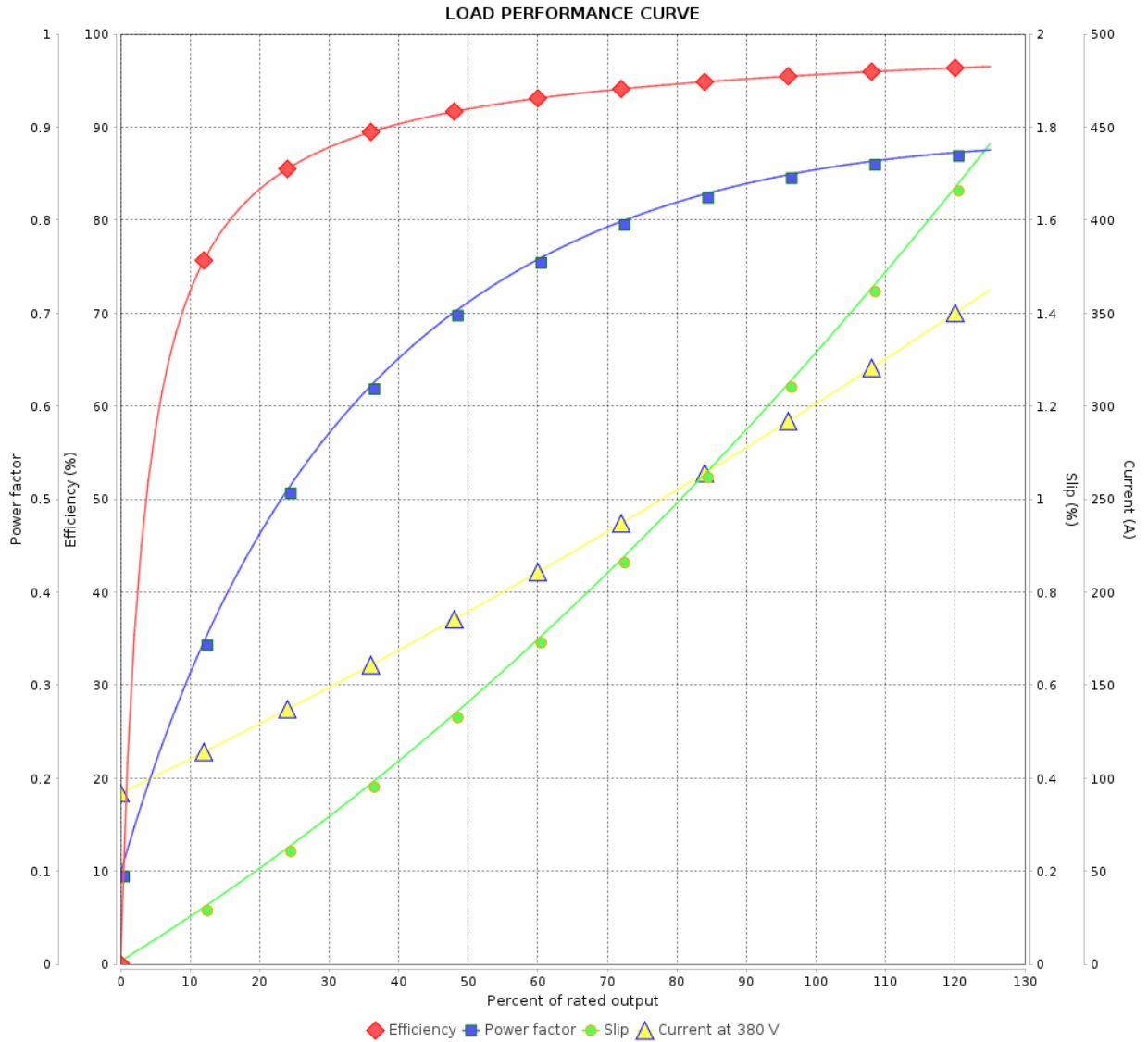
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 380 V 50 Hz 4P IE3

Rated current : 299 A
 LRC : 7.3
 Rated torque : 108 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.41 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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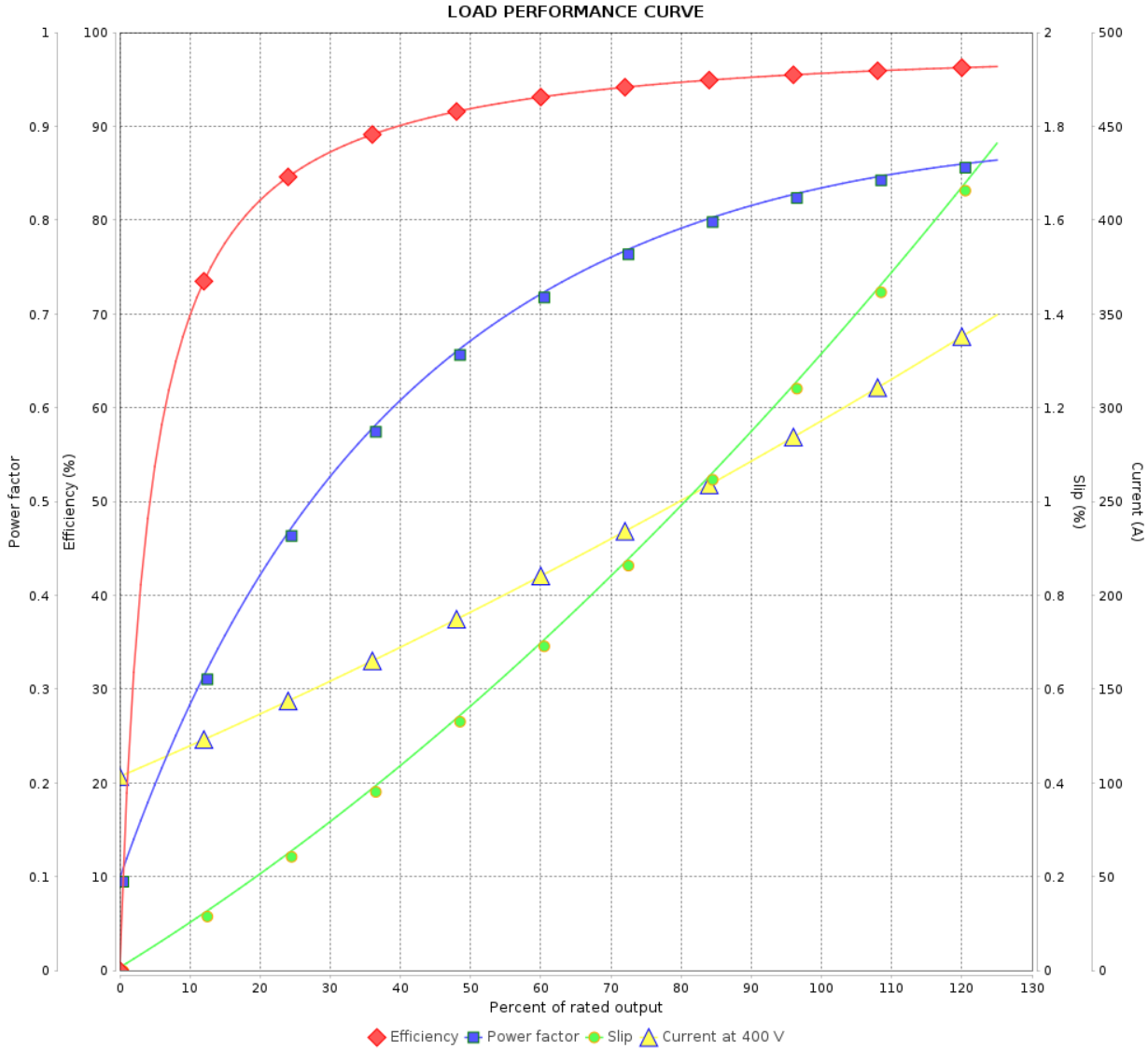
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 400 V 50 Hz 4P IE3

Rated current	: 290 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 108 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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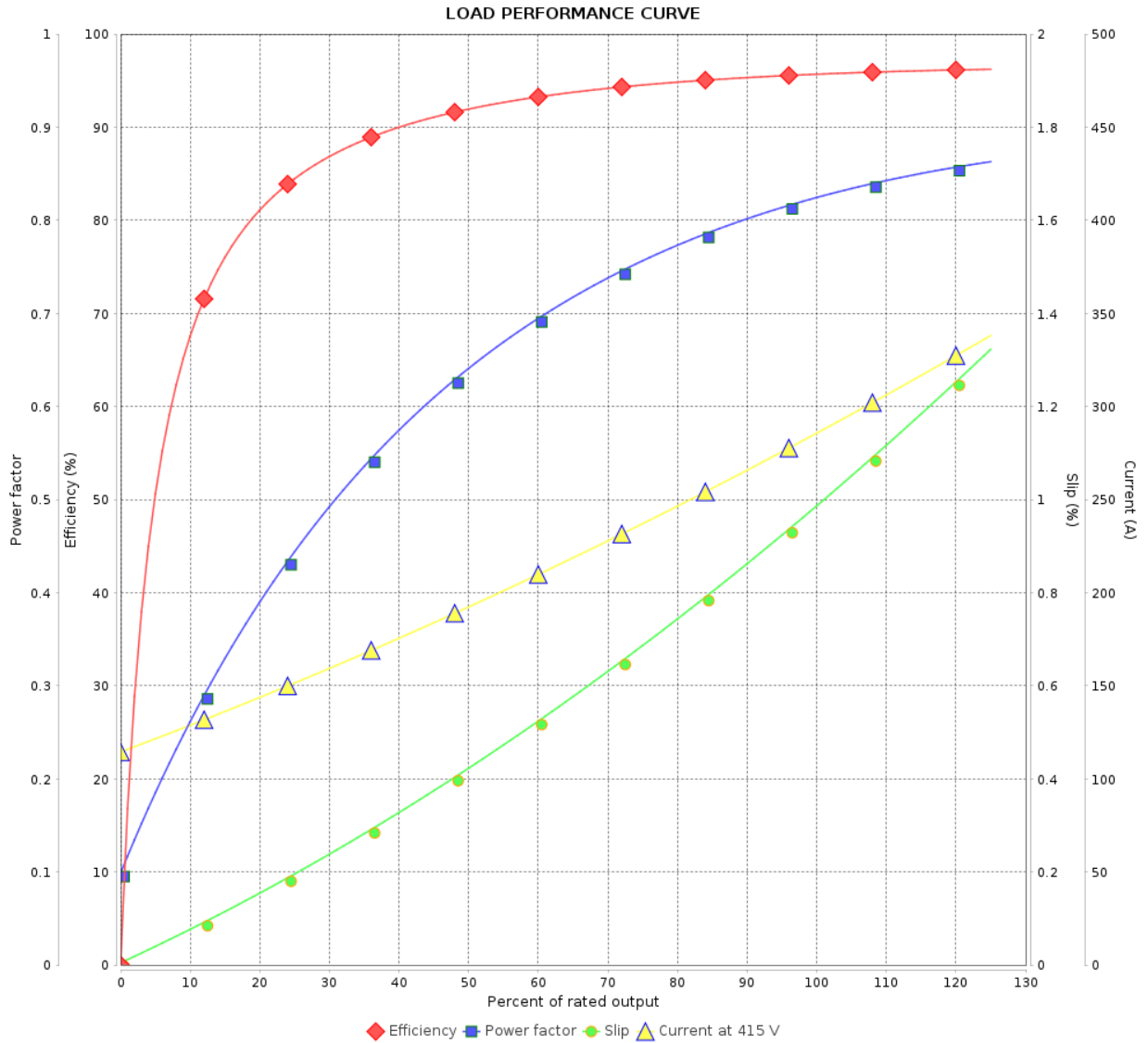
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 415 V 50 Hz 4P IE3

Rated current : 283 A
 LRC : 8.7
 Rated torque : 108 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 330 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.41 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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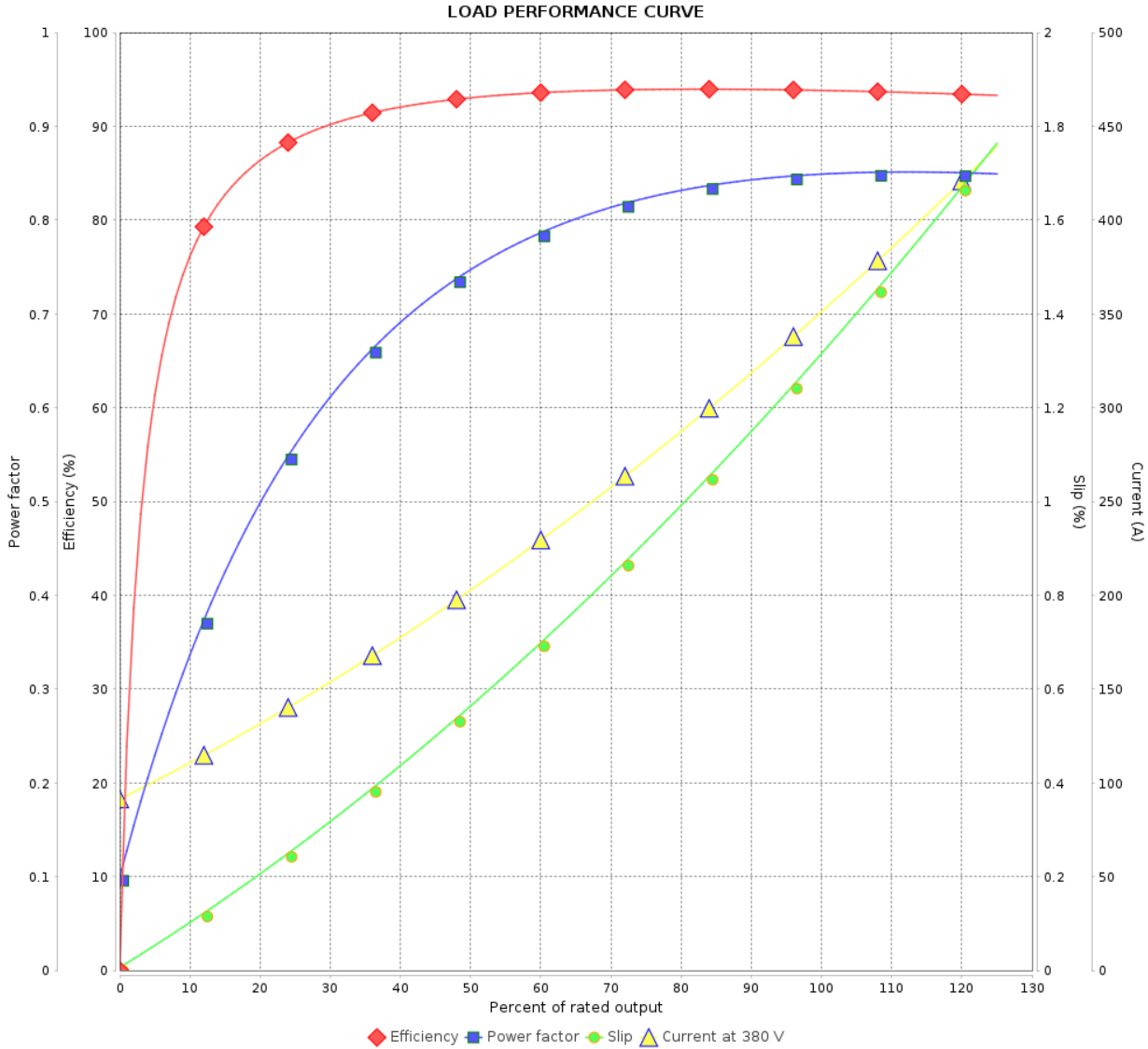
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 380 V 50 Hz 4P

Rated current	: 352 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 123 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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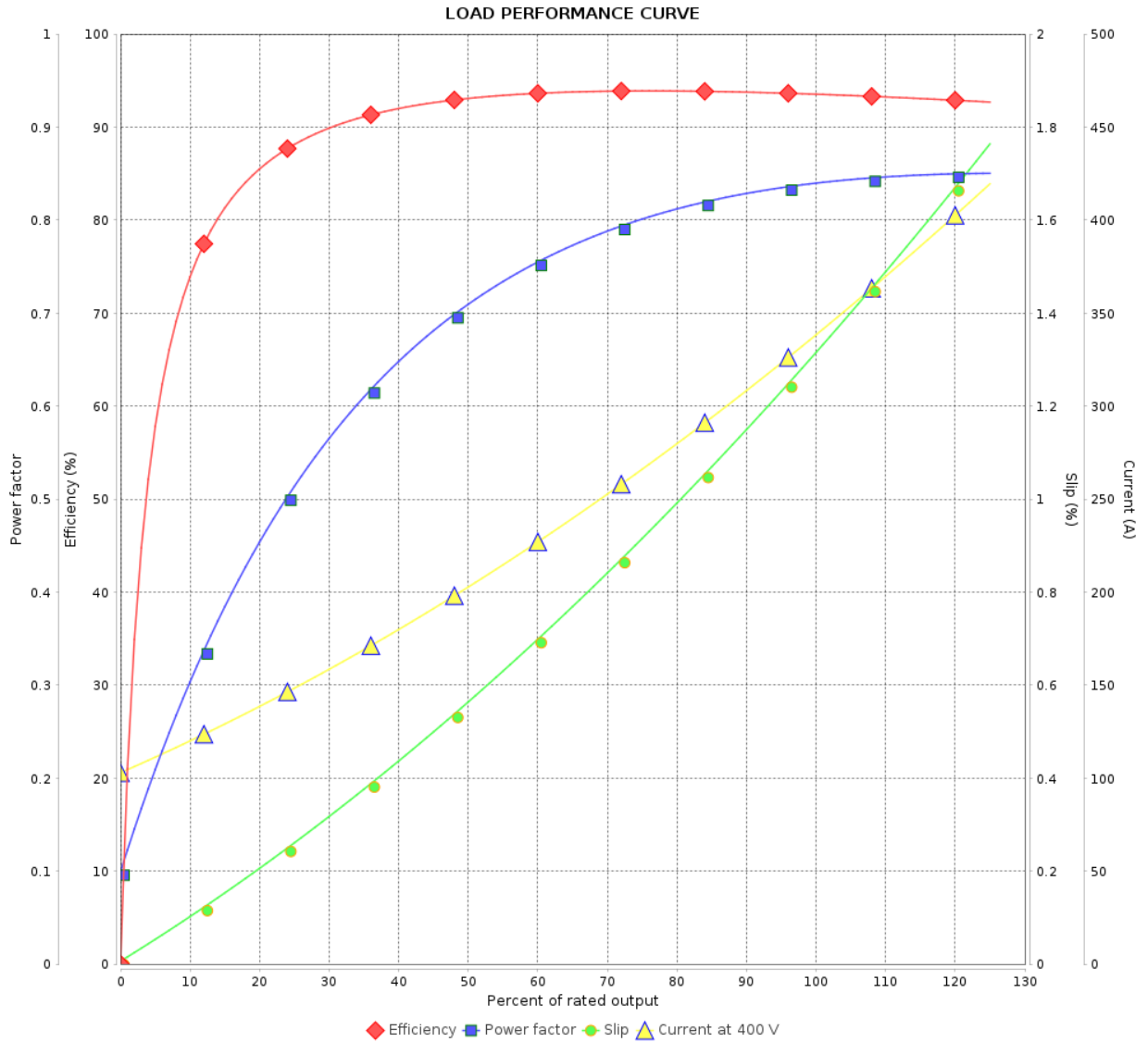
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 400 V 50 Hz 4P

Rated current : 340 A
 LRC : 7.1
 Rated torque : 123 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.41 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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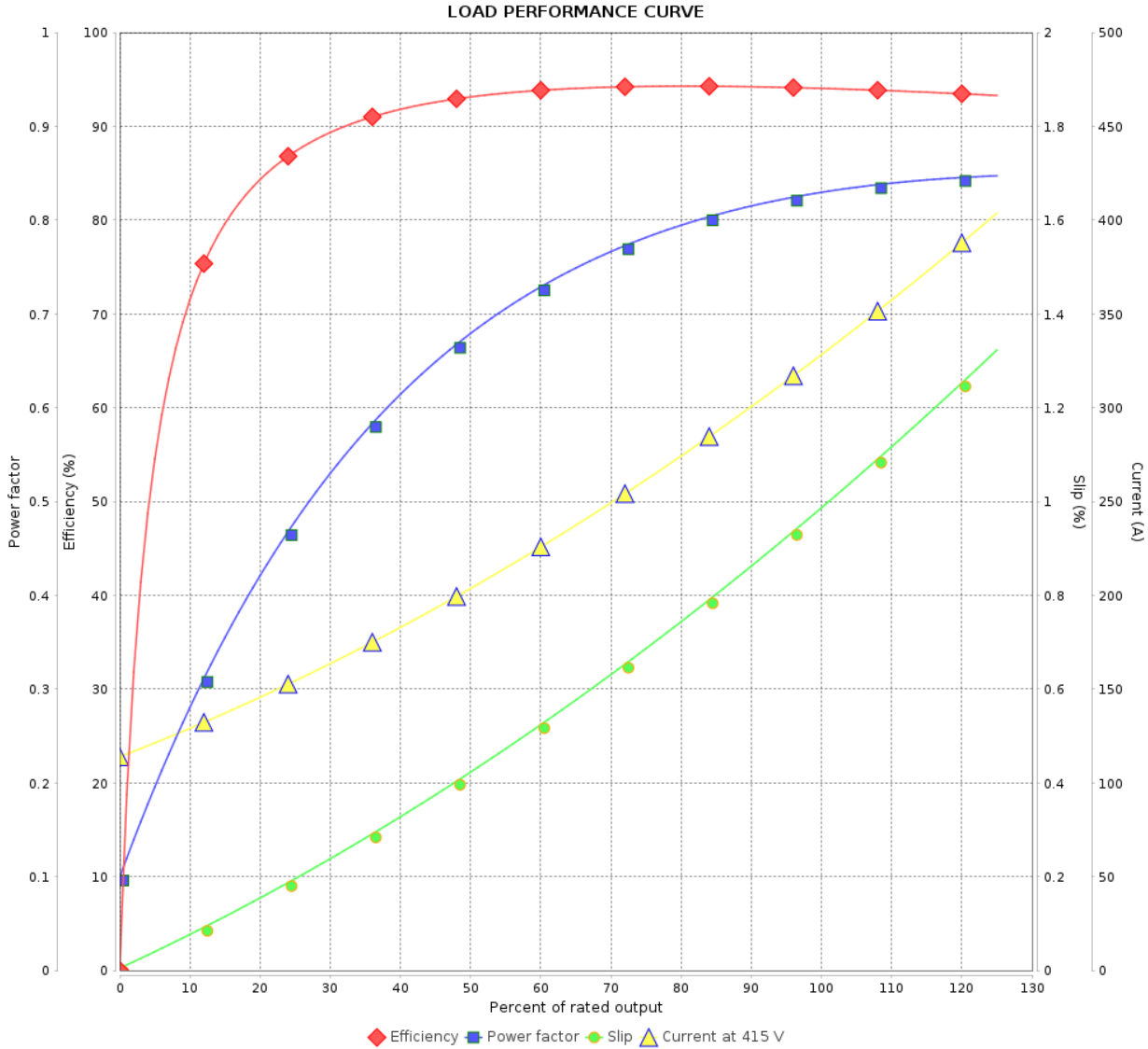
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11166581



Performance : 415 V 50 Hz 4P IE1

Rated current	: 330 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 122 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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