

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	12229793				
Frame	: 326T	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	: 246 kg				
Protection degree	: IP23	Moment of inertia (J)	: 0.2965 kgm ²				
Design	: B						
Output [HP]	50	40	40	40	50	50	50
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]	120/59.9	57.3	56.4	56.4	71.1	69.2	67.5
L. R. Amperes [A]	755/377	378	412	434	377	408	432
LRC [A]	6.3x(Code G)	6.6x(Code G)	7.3x(Code J)	7.7x(Code J)	5.3x(Code E)	5.9x(Code G)	6.4x(Code G)
No load current [A]	48.0/24.0	20.1	22.1	24.2	20.1	22.1	24.2
Rated speed [RPM]	1775	1475	1475	1480	1470	1470	1475
Slip [%]	1.39	1.67	1.67	1.33	2.00	2.00	1.67
Rated torque [kgfm]	20.4	19.7	19.7	19.6	24.7	24.7	24.6
Locked rotor torque [%]	240	250	290	330	200	229	260
Breakdown torque [%]	250	360	430	480	290	340	380
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	21s (cold) 12s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level ²	65.0 dB(A)						
Efficiency (%)	25%						
	50%	94.1	91.6	91.4	91.3	93.0	93.0
	75%	94.5	93.1	93.1	93.2	93.0	93.0
	100%	94.5	93.6	93.6	93.6	93.0	93.0
Power Factor	25%						
	50%	0.70	0.72	0.67	0.62	0.78	0.73
	75%	0.79	0.81	0.77	0.74	0.84	0.81
	100%	0.82	0.85	0.82	0.79	0.85	0.83
Bearing type	: 6312 Z C3	6212 Z C3	Foundation loads				
Sealing	: Without	Without	Max. traction	: 1054 kgf			
	Bearing Seal	Bearing Seal	Max. compression	: 1300 kgf			
Lubrication interval	: 20000 h	20000 h					
Lubricant amount	: 21 g	13 g					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 132A SF 1.15 SFA 152A							
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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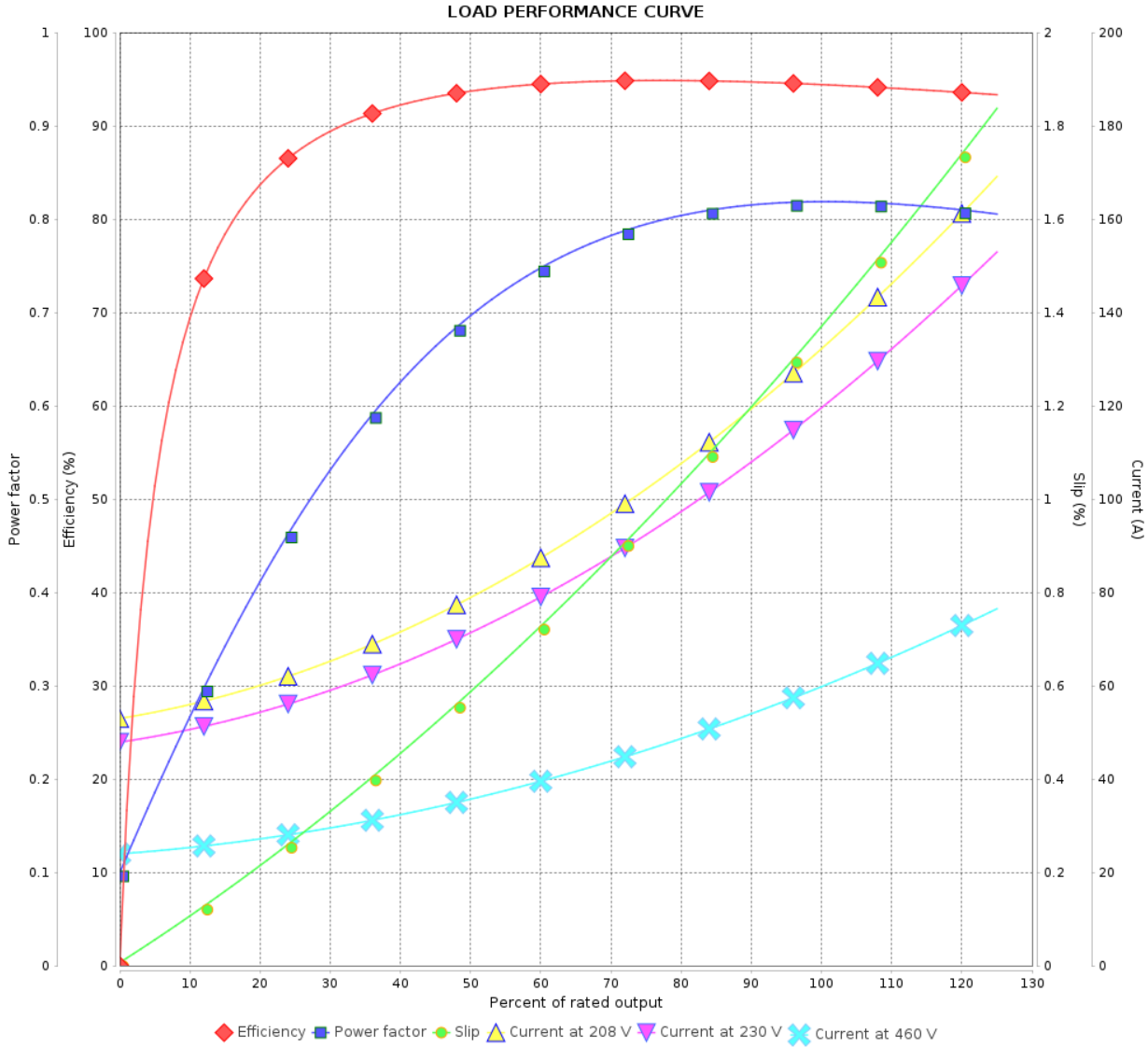
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 230/460 V 60 Hz 4P

Rated current : 120/59.9 A
 LRC : 6.3
 Rated torque : 20.4 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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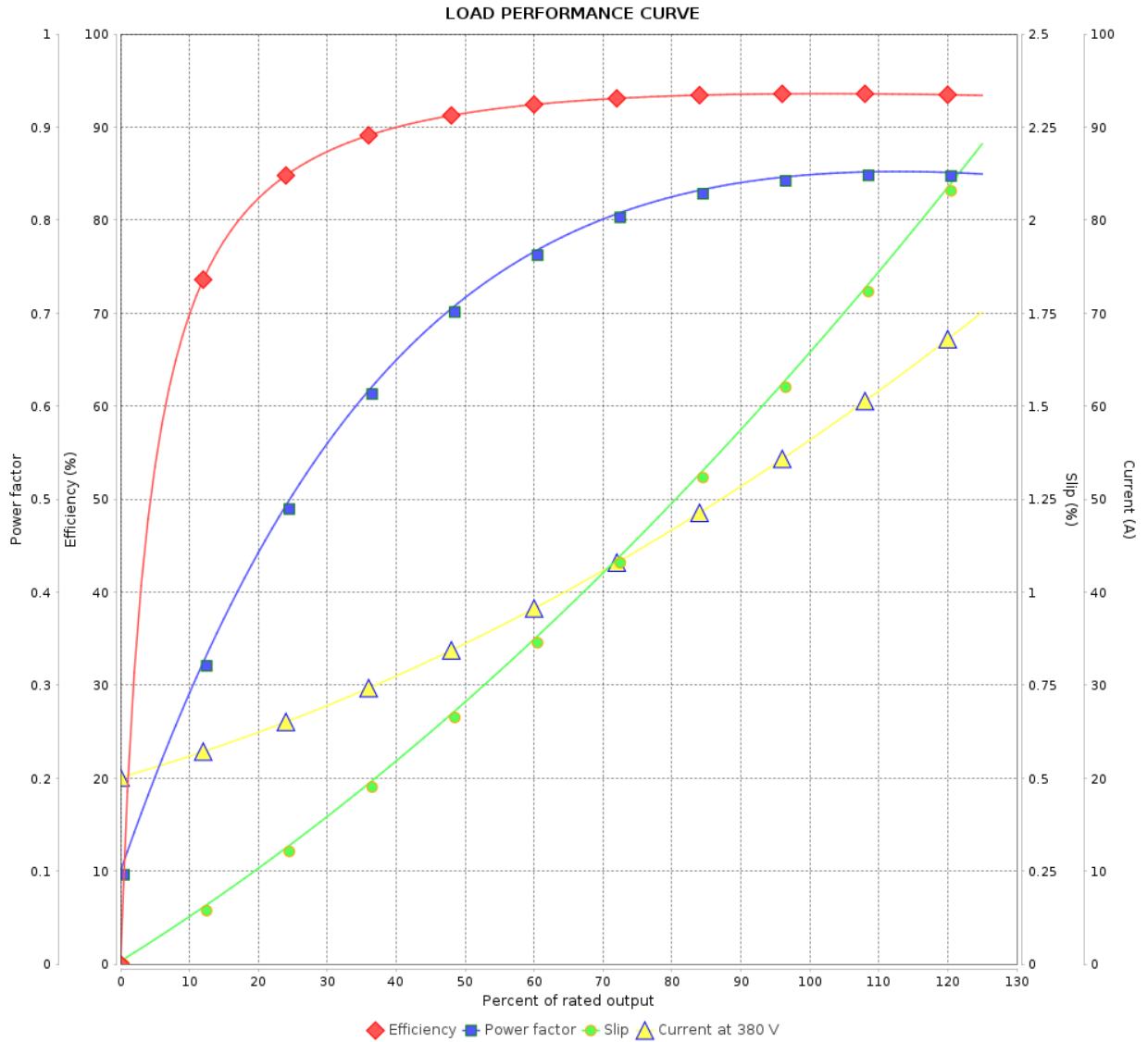
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 380 V 50 Hz 4P IE3

Rated current : 57.3 A
 LRC : 6.6
 Rated torque : 19.7 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 360 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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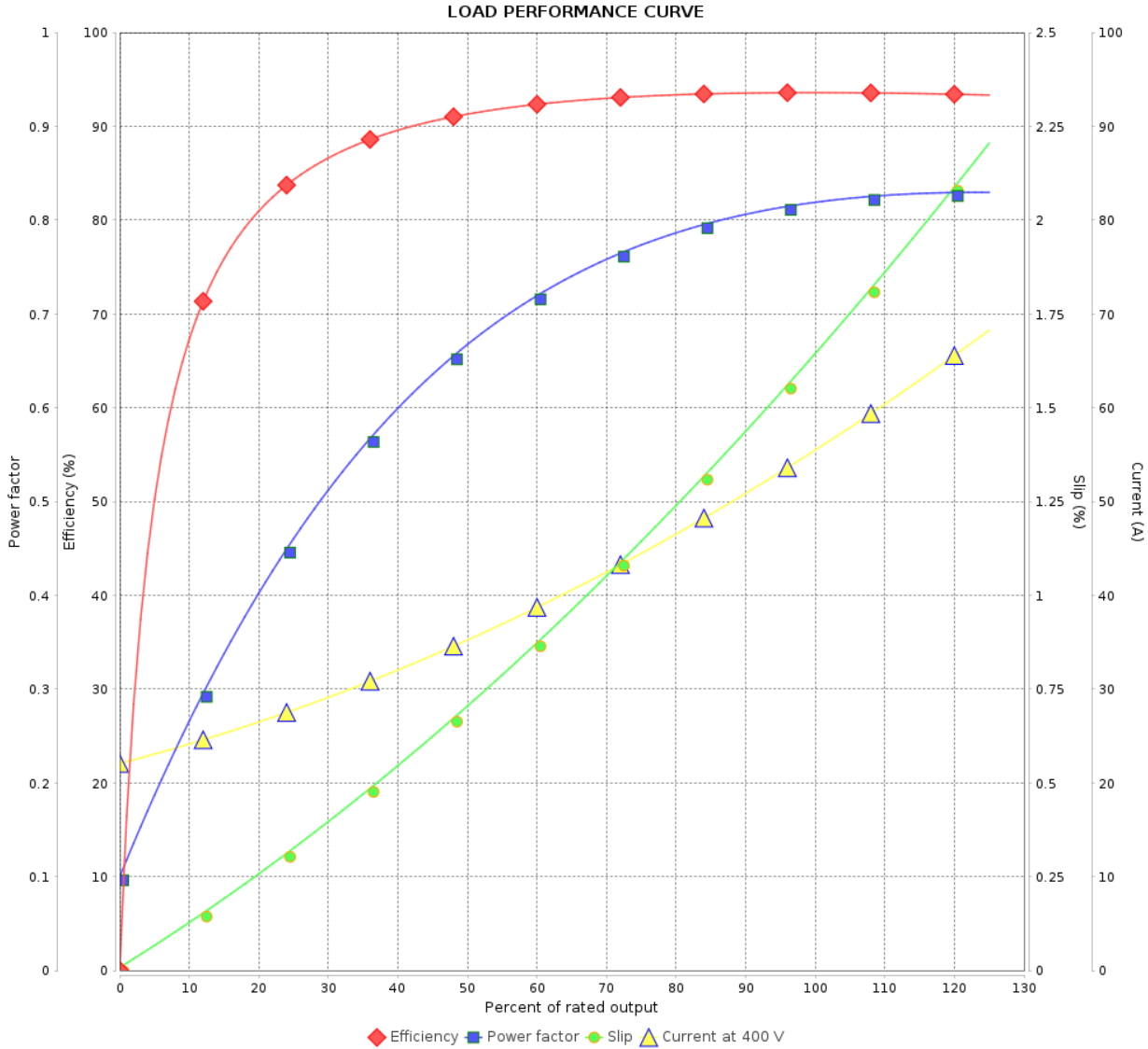
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 400 V 50 Hz 4P IE3

Rated current : 56.4 A
 LRC : 7.3
 Rated torque : 19.7 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 430 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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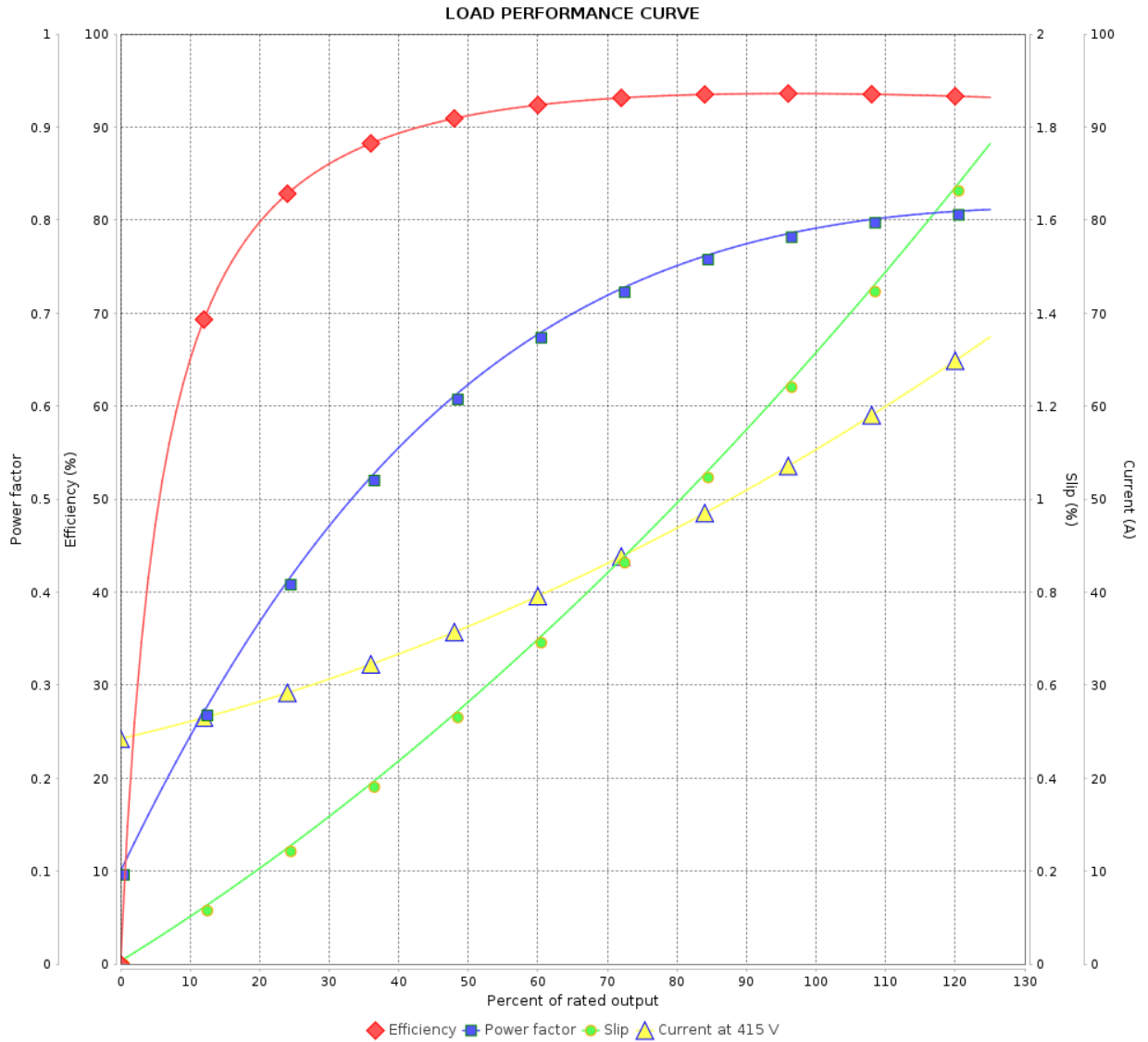
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 415 V 50 Hz 4P IE3

Rated current : 56.4 A
 LRC : 7.7
 Rated torque : 19.6 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 480 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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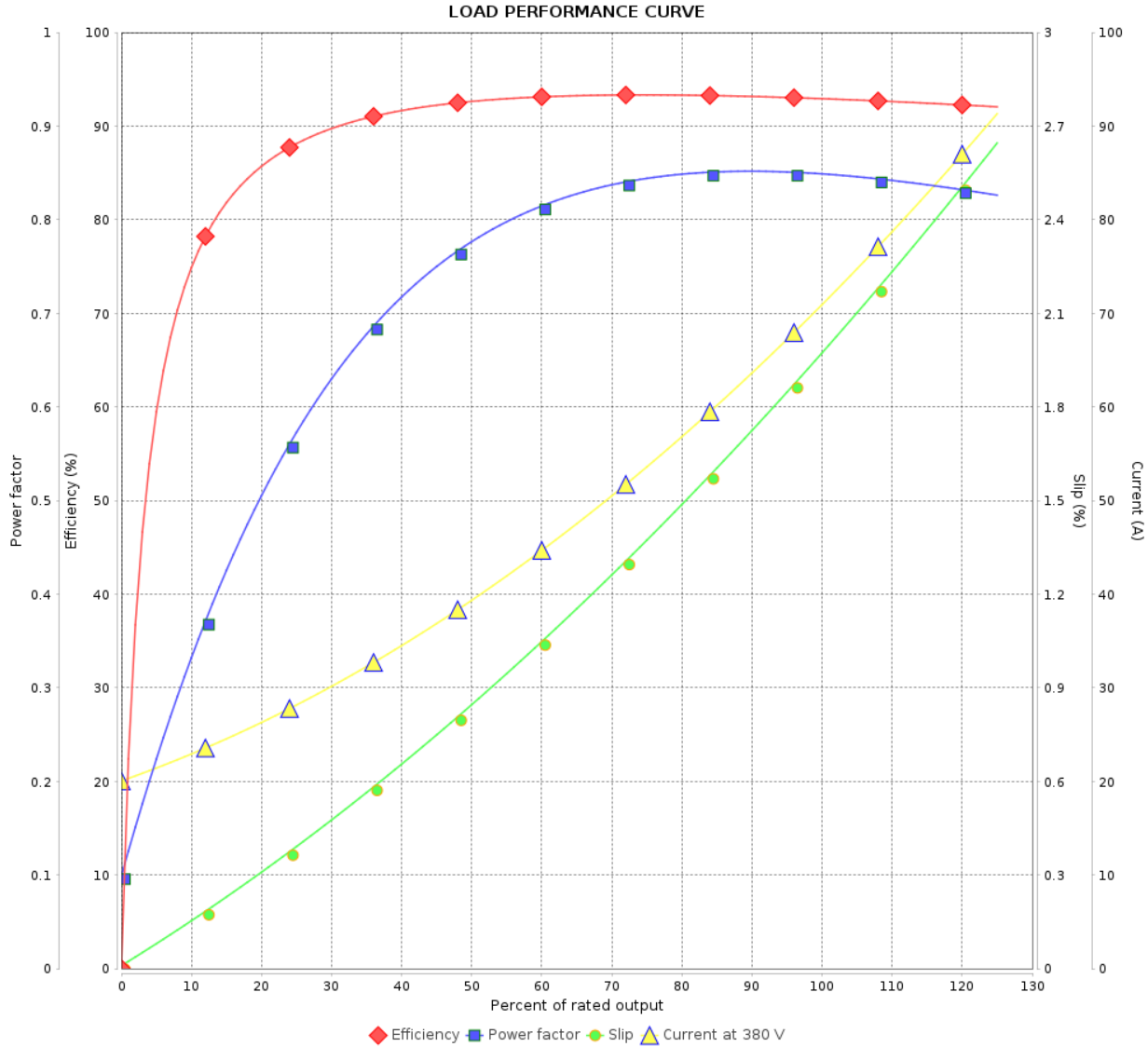
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 380 V 50 Hz 4P IE2

Rated current : 71.1 A
 LRC : 5.3
 Rated torque : 24.7 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 290 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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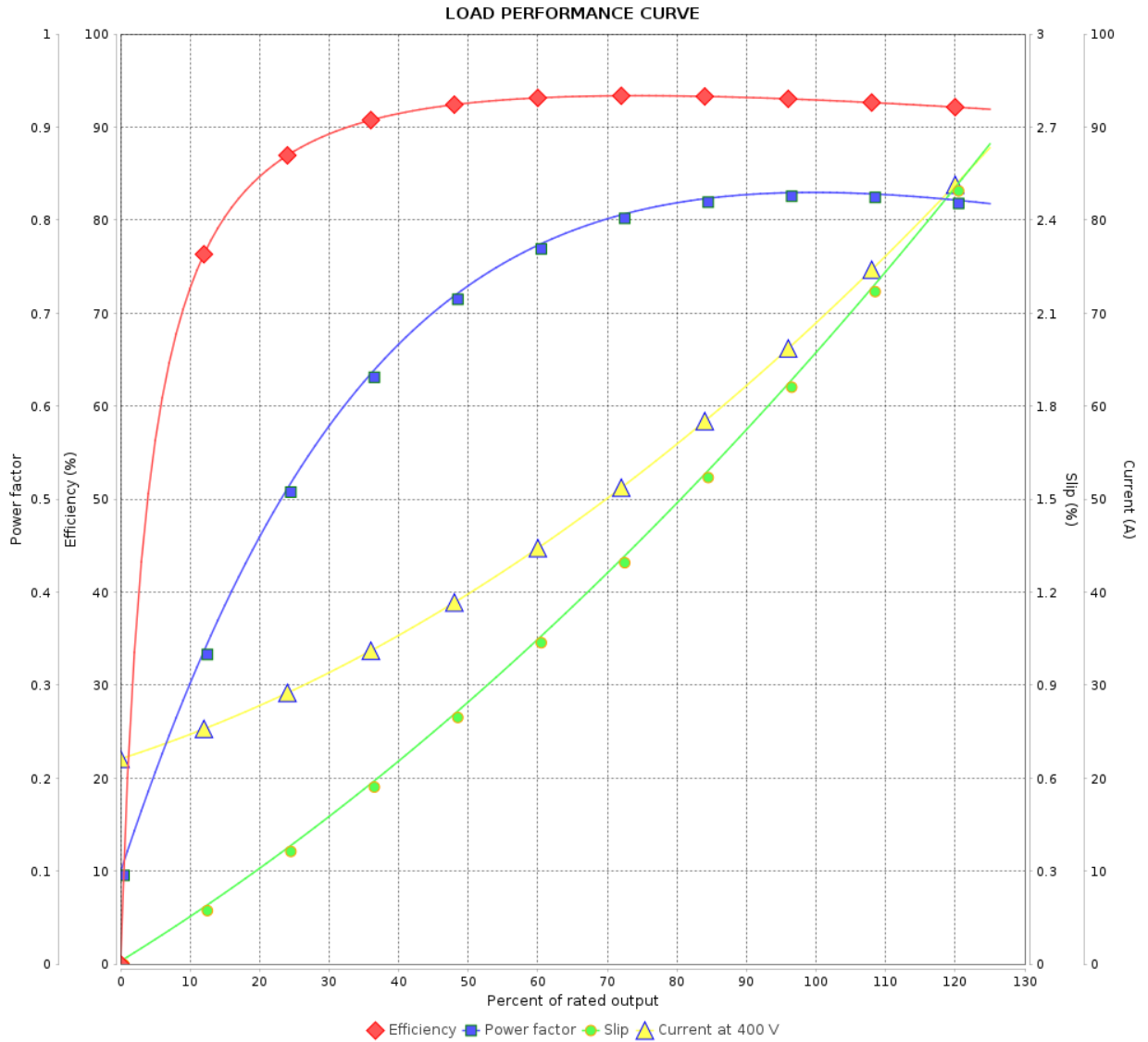
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 400 V 50 Hz 4P IE2

Rated current : 69.2 A
 LRC : 5.9
 Rated torque : 24.7 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 340 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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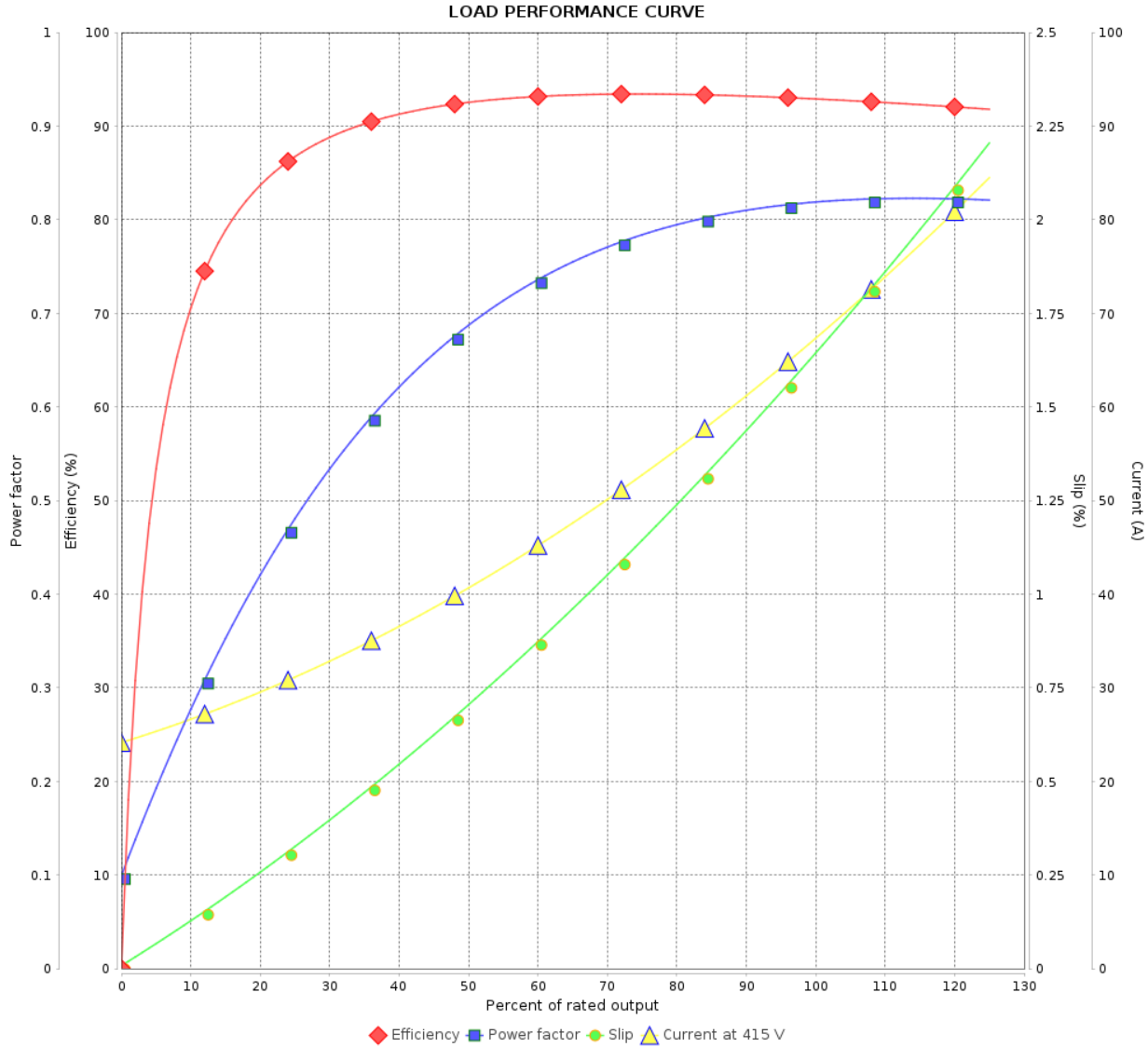
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12229793



Performance : 415 V 50 Hz 4P IE2

Rated current : 67.5 A
 LRC : 6.4
 Rated torque : 24.6 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 380 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.2965 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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