

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	12124814				
Frame	: 364/5T	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 ³	: 387 kg				
Protection degree	: IP23	Moment of inertia (J)	: 0.8224 kgm ²				
Design	: B						
Output [HP]	75	50	50	50	75	75	75
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]	167/83.5	65.7	64.5	64.4	97.6	93.7	91.4
L. R. Amperes [A]	1119/559	519	542	573	517	543	576
LRC [A]	6.7x(Code G)	7.9x(Code H)	8.4x(Code J)	8.9x(Code K)	5.3x(Code E)	5.8x(Code F)	6.3x(Code F)
No load current [A]	54.0/27.0	23.8	25.9	28.0	23.8	25.9	28.0
Rated speed [RPM]	1780	1485	1485	1485	1475	1475	1480
Slip [%]	1.11	1.00	1.00	1.00	1.67	1.67	1.33
Rated torque [kgfm]	30.6	24.4	24.4	24.4	36.9	36.9	36.8
Locked rotor torque [%]	210	240	260	290	160	175	190
Breakdown torque [%]	260	320	340	380	210	225	250
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)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)
Noise level ²	68.0 dB(A)						
Efficiency (%)	25%						
	50%	94.5	91.9	91.6	91.4	93.9	93.9
	75%	95.0	93.7	93.6	93.6	94.1	94.1
	100%	95.0	94.2	94.3	94.3	94.1	94.1
Power Factor	25%						
	50%	0.76	0.74	0.69	0.65	0.86	0.81
	75%	0.84	0.85	0.81	0.78	0.90	0.88
	100%	0.87	0.90	0.87	0.84	0.91	0.90
Bearing type	: Drive end : 6314 C3	Non drive end : 6314 C3	Foundation loads				
Sealing	: Without	Without	Max. traction	: 840 kgf			
	Bearing Seal	Bearing Seal	Max. compression	: 1227 kgf			
Lubrication interval	: 20000 h	20000 h					
Lubricant amount	: 27 g	27 g					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 189A SF 1.15 SFA 217A							
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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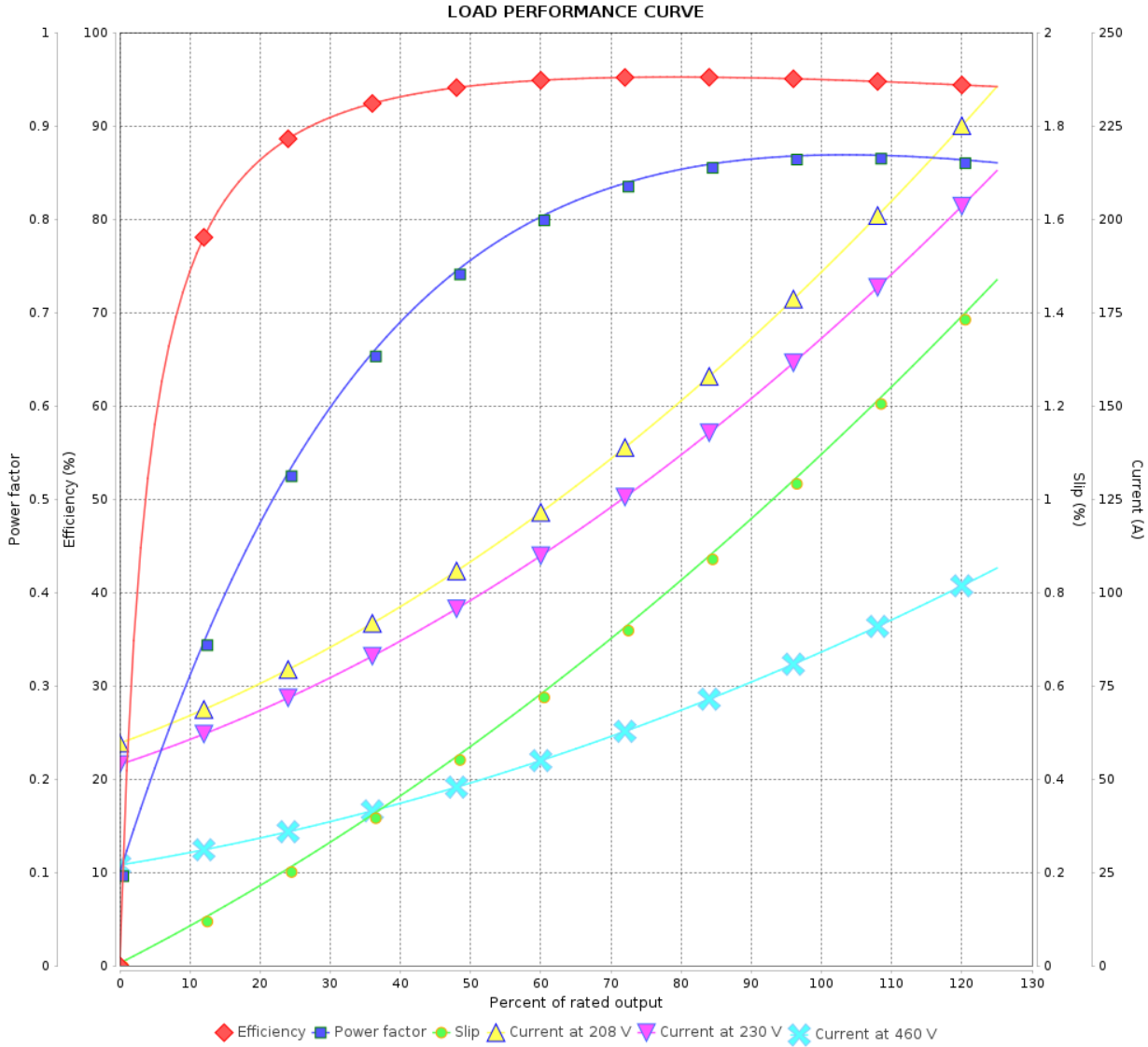
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 230/460 V 60 Hz 4P

Rated current : 167/83.5 A
 LRC : 6.7
 Rated torque : 30.6 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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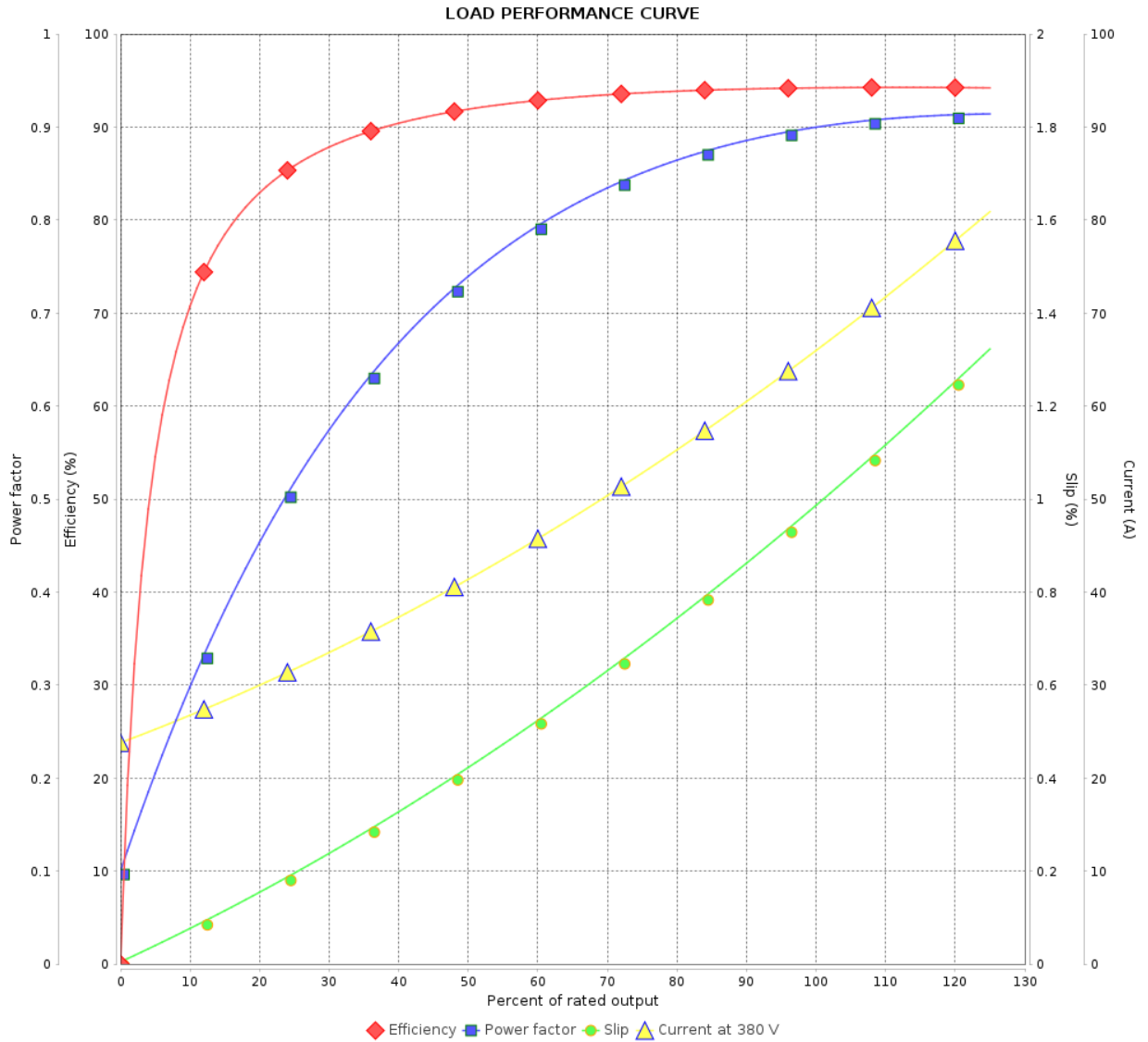
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 380 V 50 Hz 4P IE3

Rated current : 65.7 A
 LRC : 7.9
 Rated torque : 24.4 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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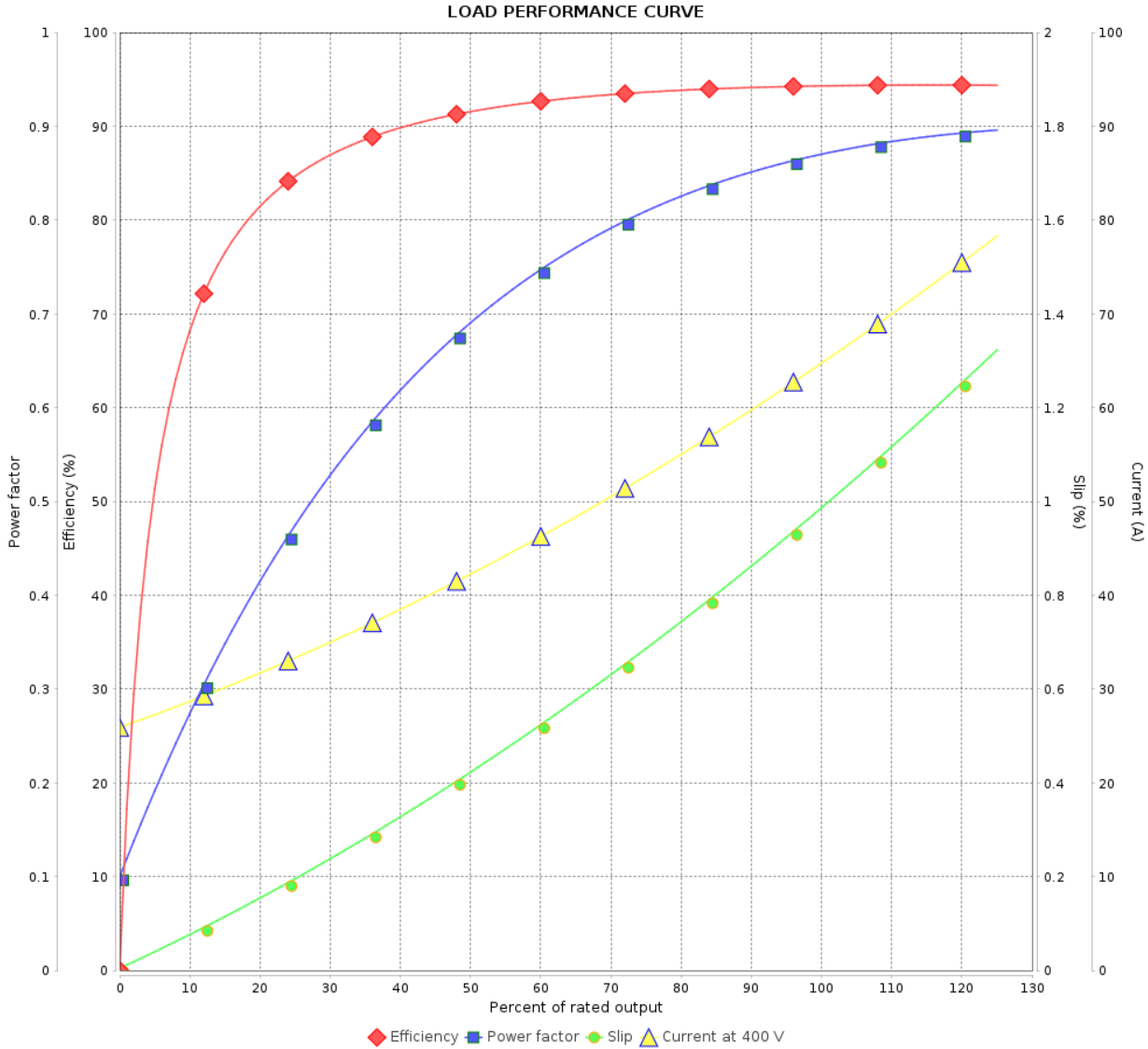
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 400 V 50 Hz 4P IE3

Rated current : 64.5 A
 LRC : 8.4
 Rated torque : 24.4 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 340 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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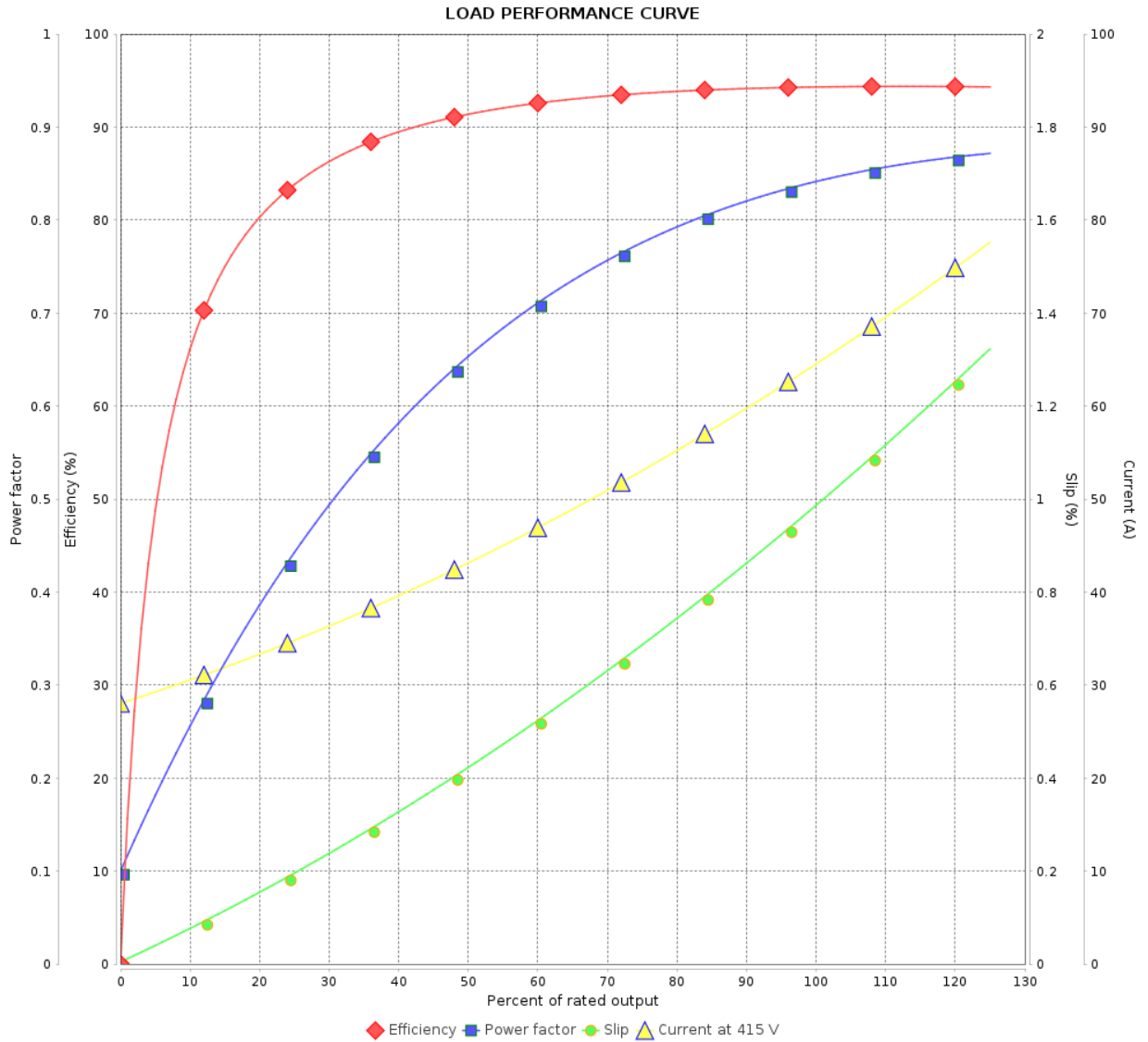
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 415 V 50 Hz 4P IE3

Rated current : 64.4 A
 LRC : 8.9
 Rated torque : 24.4 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 380 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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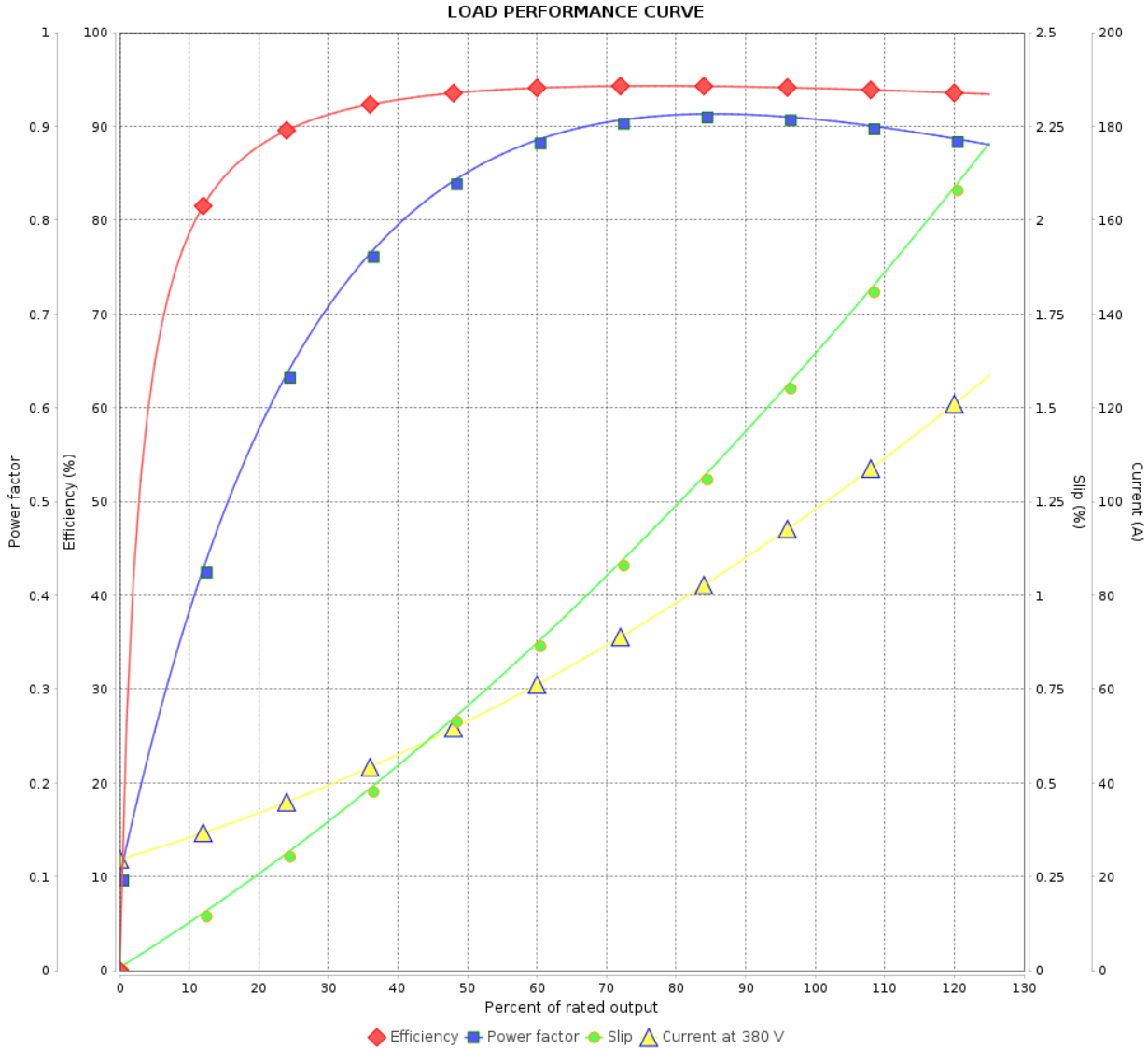
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 380 V 50 Hz 4P IE2

Rated current : 97.6 A
 LRC : 5.3
 Rated torque : 36.9 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 210 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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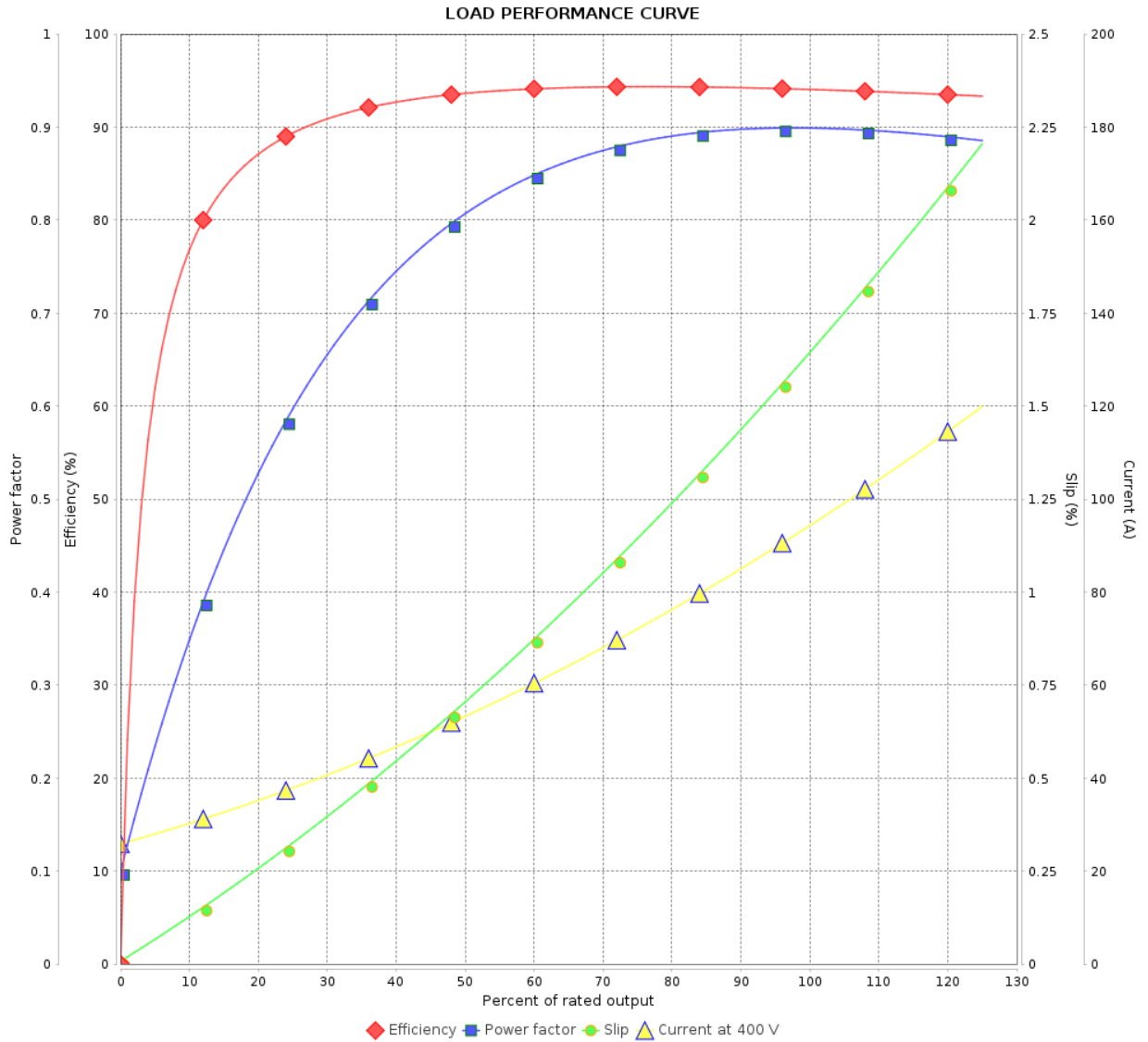
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 400 V 50 Hz 4P IE2

Rated current : 93.7 A
 LRC : 5.8
 Rated torque : 36.9 kgfm
 Locked rotor torque : 175 %
 Breakdown torque : 225 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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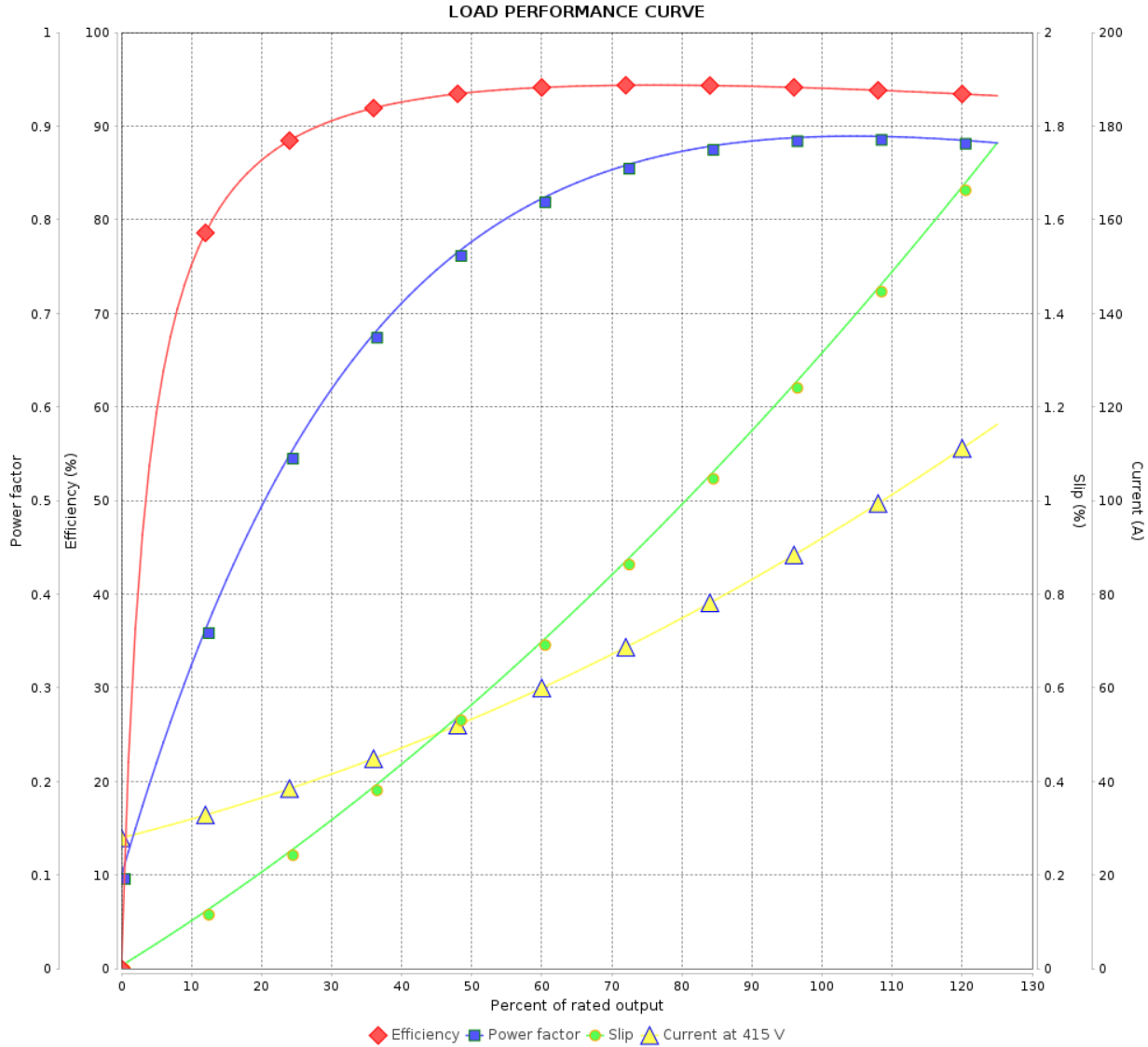
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12124814



Performance : 415 V 50 Hz 4P IE2

Rated current : 91.4 A
 LRC : 6.3
 Rated torque : 36.8 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.8224 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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