

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	10827017					
Frame	: 404/5T	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	: 450 kg					
Protection degree	: IP23	Moment of inertia (J)	: 0.9623 kgm ²					
Design	: B							
Output [HP]	100	75	75	75	100	100	100	
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]	226/113	99.3	96.5	95.2	136	131	127	
L. R. Amperes [A]	1514/757	804	859	904	830	878	927	
LRC [A]	6.7x(Code G)	8.1x(Code H)	8.9x(Code J)	9.5x(Code K)	6.1x(Code F)	6.7x(Code G)	7.3x(Code H)	
No load current [A]	84.0/42.0	38.6	42.2	45.8	38.6	42.2	45.8	
Rated speed [RPM]	1780	1480	1480	1485	1475	1475	1480	
Slip [%]	1.11	1.33	1.33	1.00	1.67	1.67	1.33	
Rated torque [kgfm]	40.8	36.8	36.8	36.7	49.2	49.2	49.0	
Locked rotor torque [%]	229	270	280	290	200	210	220	
Breakdown torque [%]	270	320	360	400	240	270	300	
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	18s (cold) 10s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	16s (cold) 9s (hot)	
Noise level ²	69.0 dB(A)							
Efficiency (%)	25%	94.9	91.4	91.0	90.8	93.7	93.7	93.7
	50%	95.0	92.2	91.9	91.7	93.9	93.9	93.9
	75%	95.4	93.9	93.9	93.9	94.0	94.0	94.0
	100%	95.4	94.6	94.6	94.6	94.1	94.1	94.1
Power Factor	25%	0.49	0.48	0.44	0.40	0.58	0.53	0.49
	50%	0.77	0.75	0.71	0.66	0.84	0.80	0.76
	75%	0.84	0.85	0.83	0.79	0.88	0.87	0.85
	100%	0.87	0.89	0.87	0.85	0.89	0.88	0.87
Bearing type	: 6316 C3	Drive end	Non drive end	6314 C3	Foundation loads			
Sealing	: Without	Without		Max. traction : 1222 kgf				
		Bearing Seal		Max. compression : 1673 kgf				
Lubrication interval	: 20000 h	20000 h						
Lubricant amount	: 34 g	27 g						
Lubricant type	: Mobil Polyrex EM							
Notes								
USABLE @208V 254A SF 1.15 SFA 292A								
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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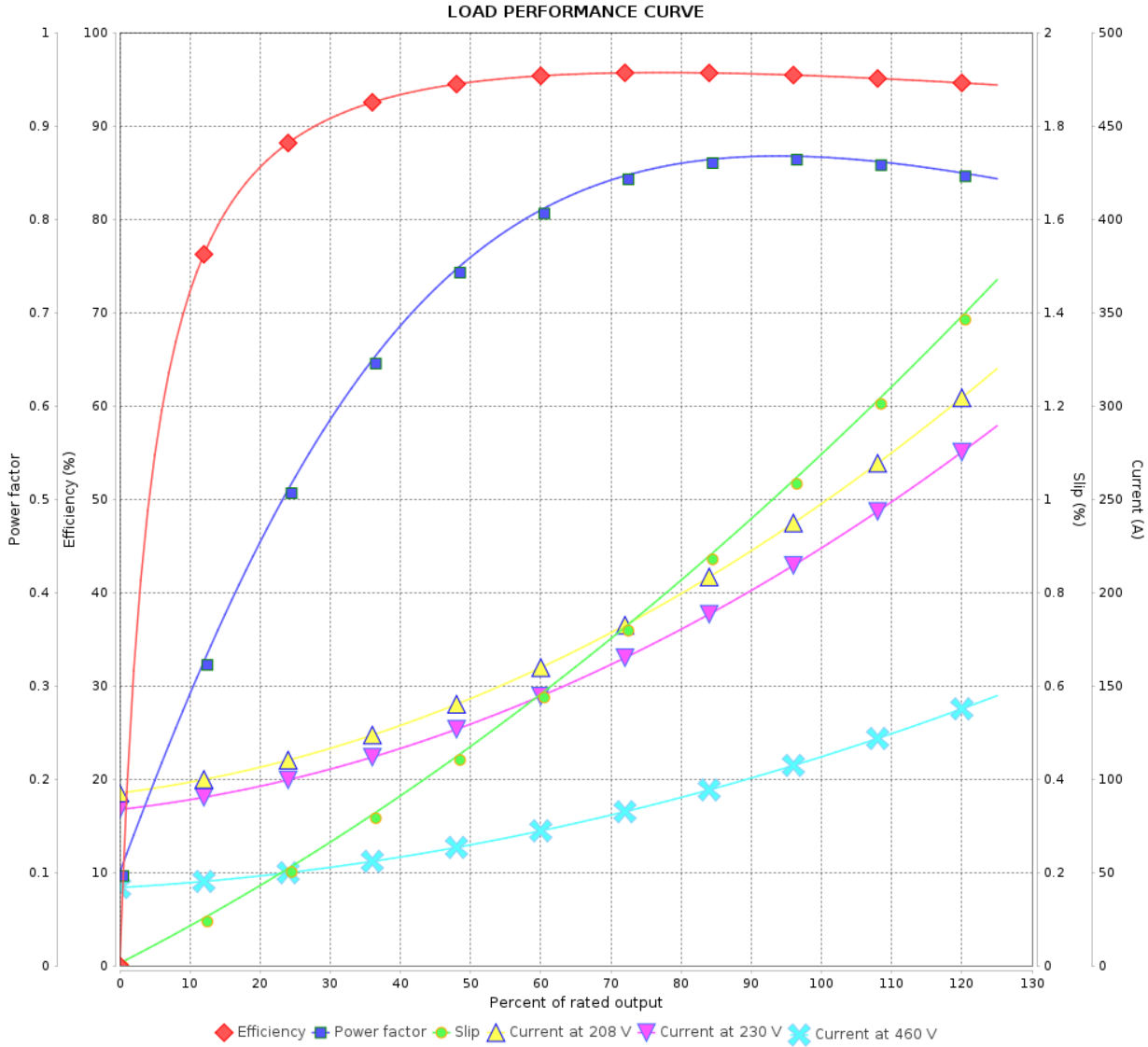
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 230/460 V 60 Hz 4P

Rated current : 226/113 A
 LRC : 6.7
 Rated torque : 40.8 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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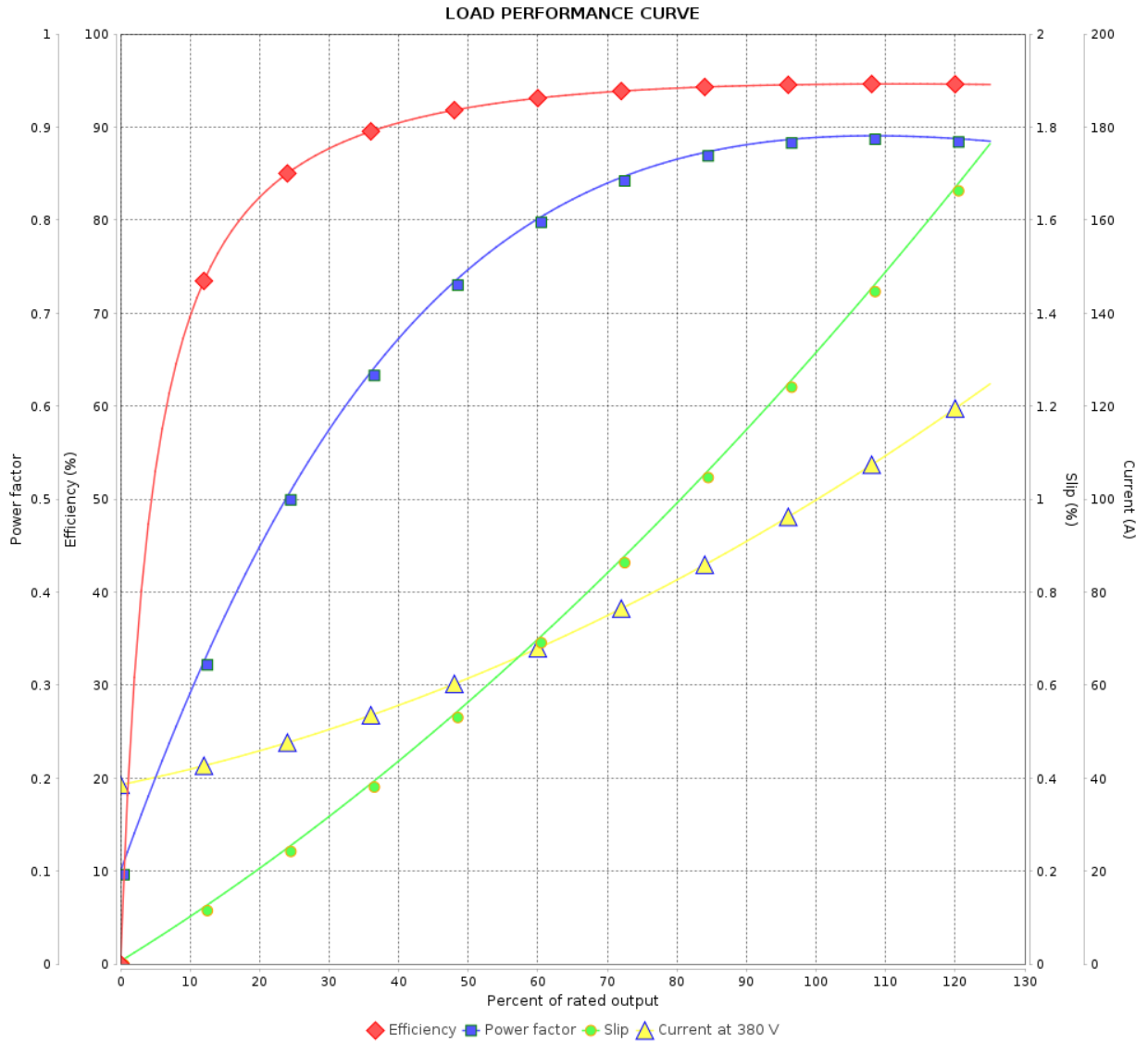
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 380 V 50 Hz 4P IE3

Rated current : 99.3 A
 LRC : 8.1
 Rated torque : 36.8 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 320 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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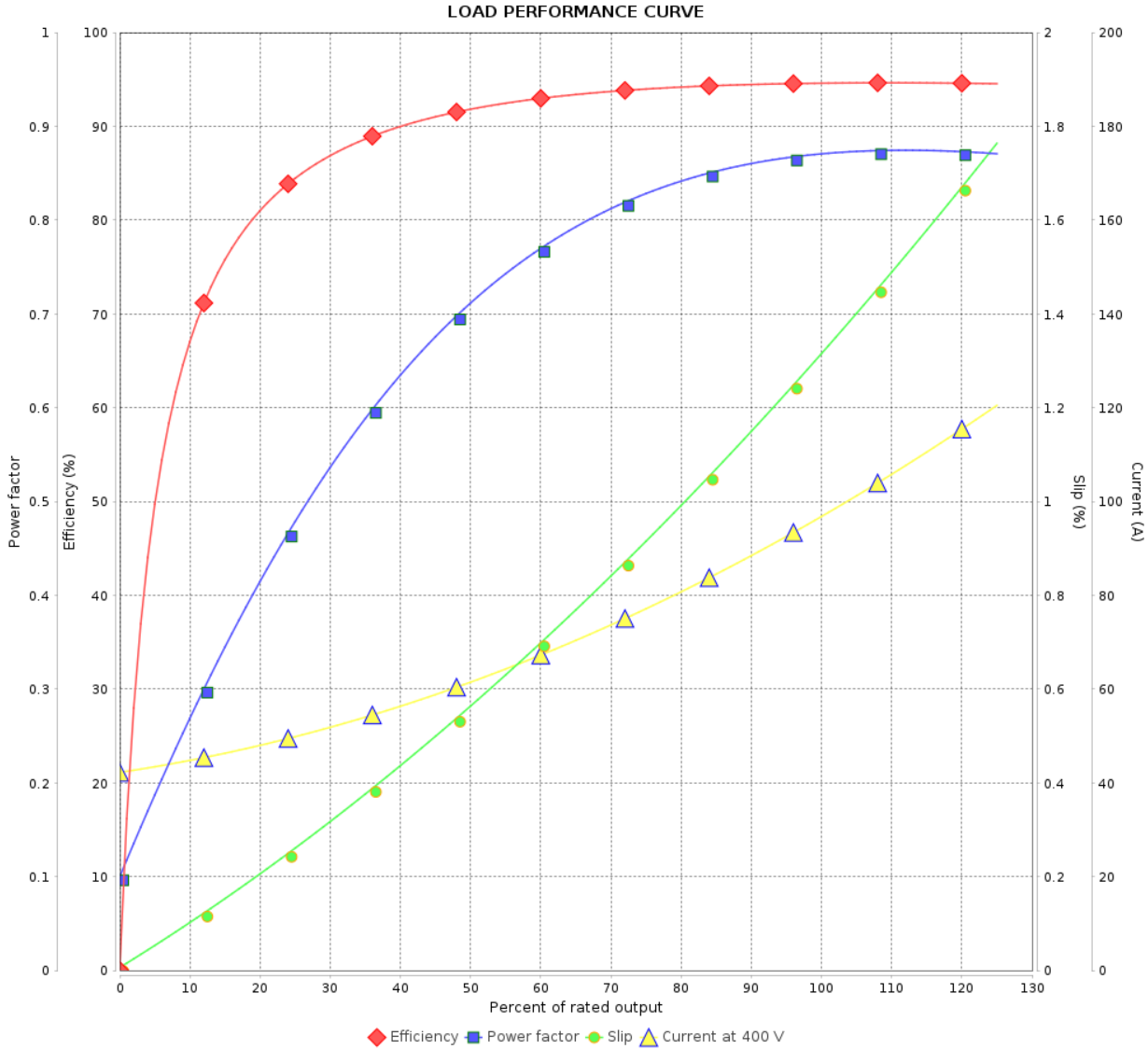
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 400 V 50 Hz 4P IE3

Rated current : 96.5 A
 LRC : 8.9
 Rated torque : 36.8 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 360 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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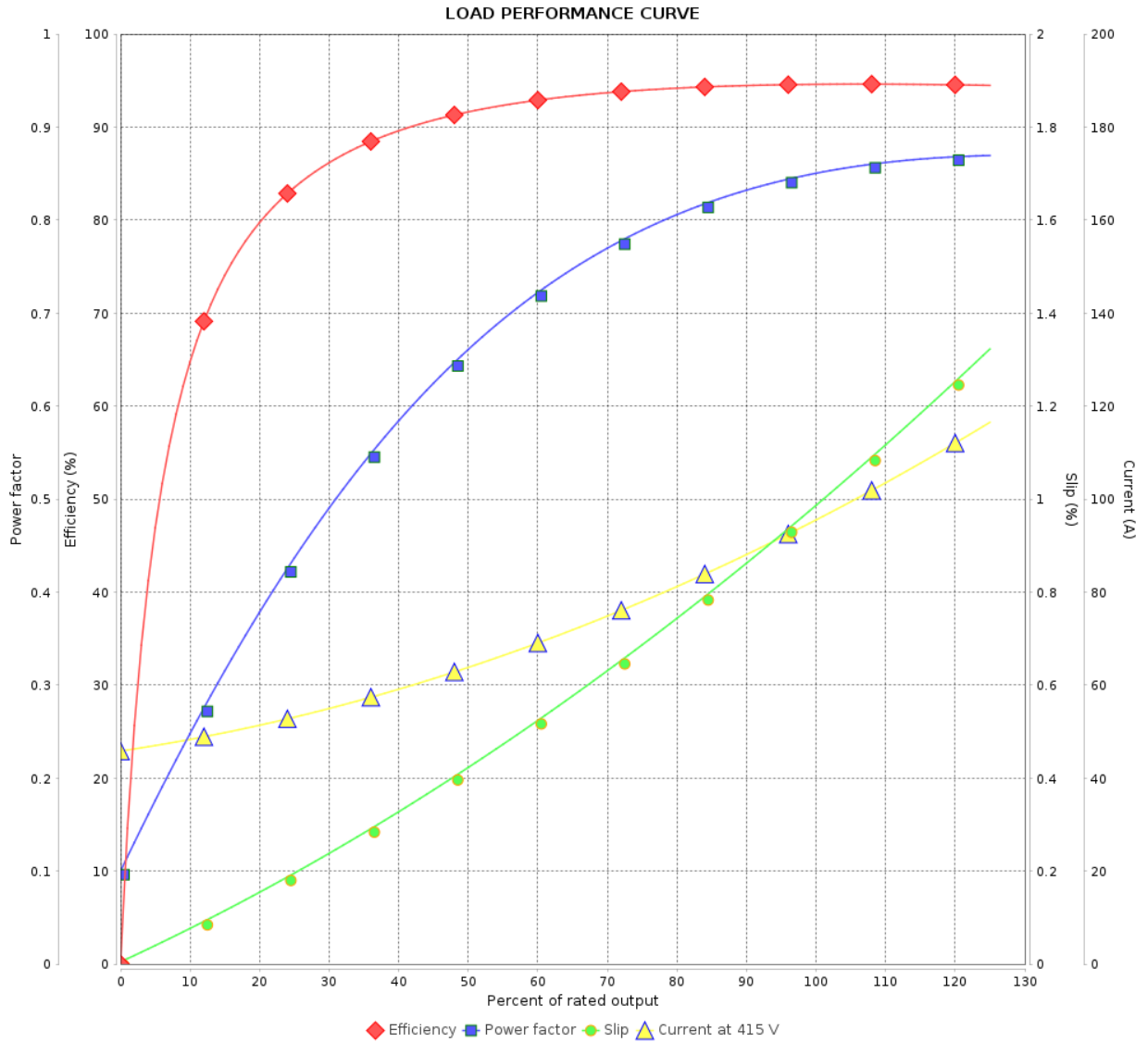
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 415 V 50 Hz 4P IE3

Rated current : 95.2 A
 LRC : 9.5
 Rated torque : 36.7 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 400 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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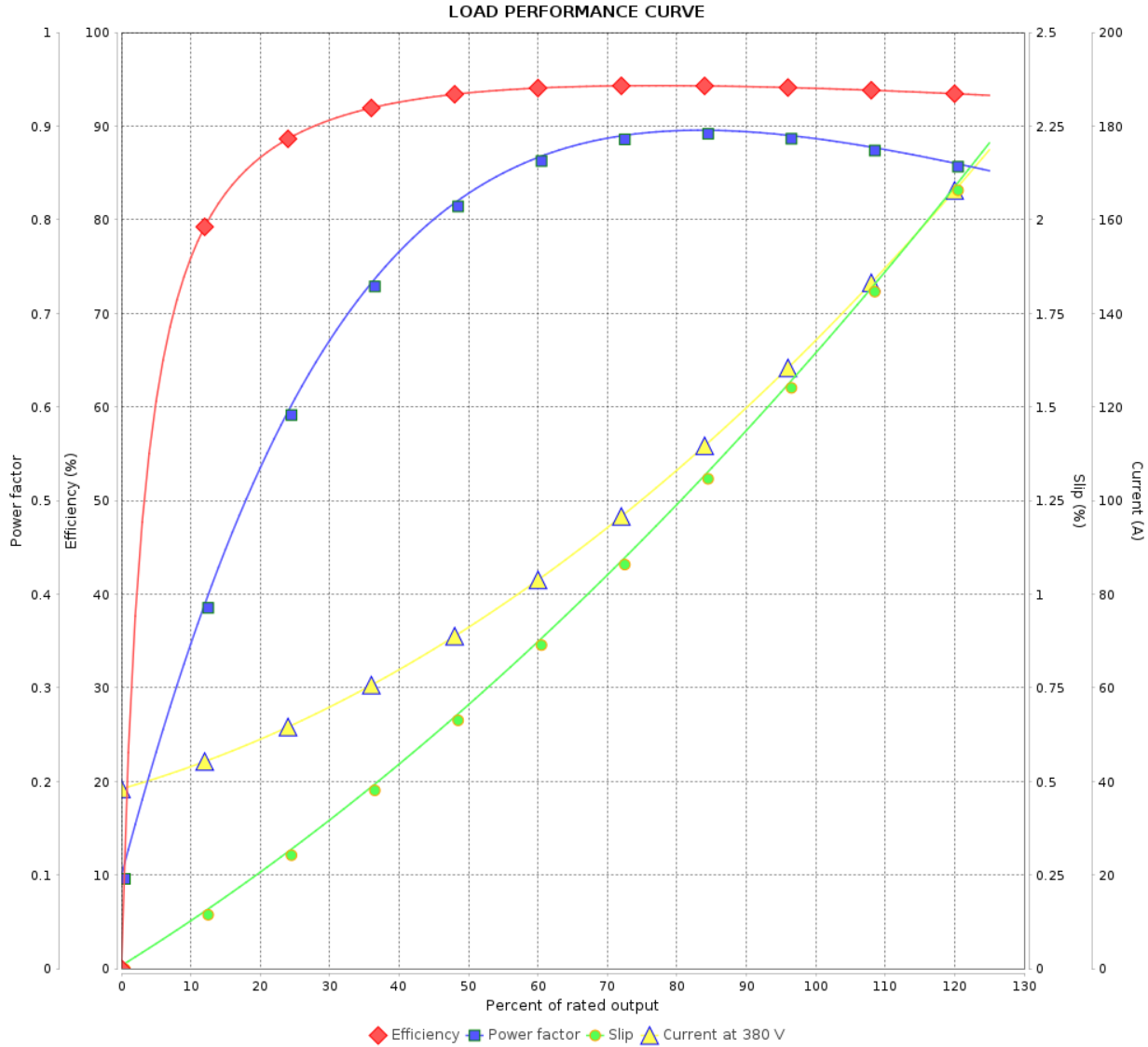
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 380 V 50 Hz 4P IE2

Rated current : 136 A
 LRC : 6.1
 Rated torque : 49.2 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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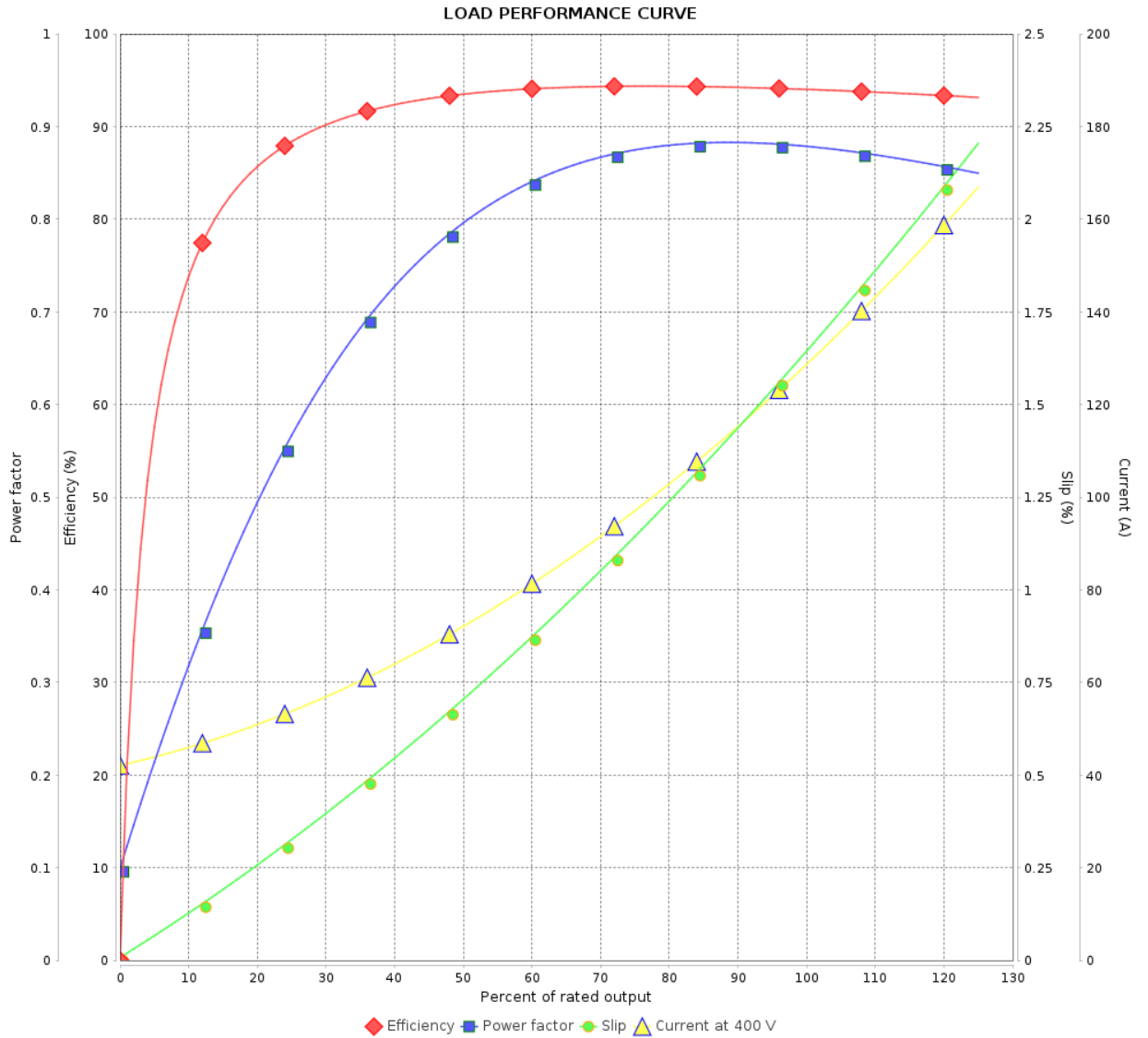
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 400 V 50 Hz 4P IE2

Rated current : 131 A
 LRC : 6.7
 Rated torque : 49.2 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 270 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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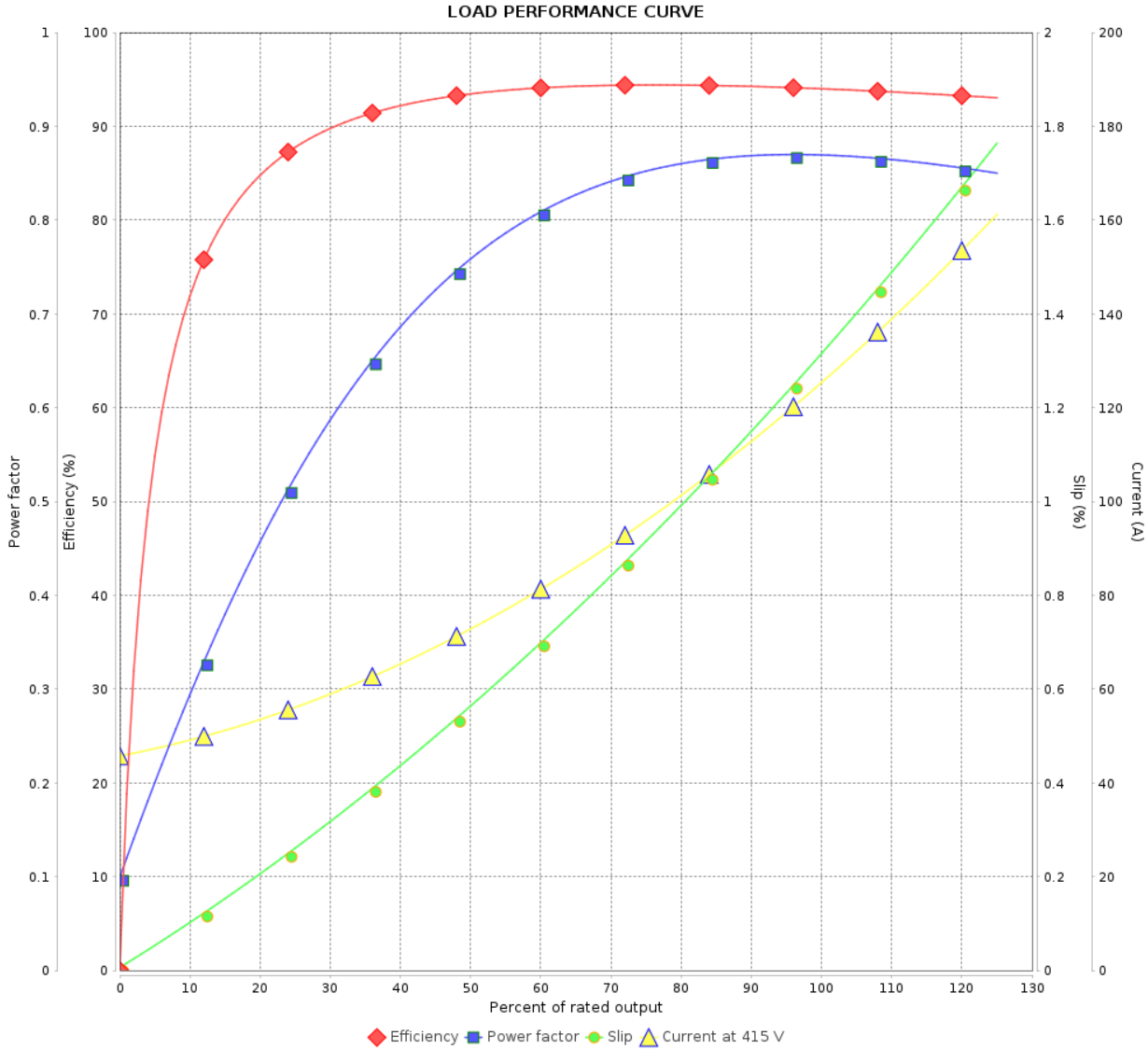
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10827017



Performance : 415 V 50 Hz 4P IE2

Rated current : 127 A
 LRC : 7.3
 Rated torque : 49.0 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.9623 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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