

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	10684312					
Frame	: 254T	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	: 110 kg					
Protection degree	: IP23	Moment of inertia (J)	: 0.0878 kgm ²					
Design	: B							
Output [HP]	15	10	10	10	15	15	15	
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]	37.2/18.6	16.2	16.2	16.2	22.1	21.8	21.8	
L. R. Amperes [A]	249/125	110	110	113	119	124	131	
LRC [A]	6.7x(Code H)	6.8x(Code J)	6.8x(Code J)	7.0x(Code K)	5.4x(Code F)	5.7x(Code G)	6.0x(Code G)	
No load current [A]	18.0/9.00	9.20	10.1	10.9	9.20	10.4	11.6	
Rated speed [RPM]	1775	1480	1480	1485	1470	1470	1475	
Slip [%]	1.39	1.33	1.33	1.00	2.00	2.00	1.67	
Rated torque [kgfm]	6.13	4.90	4.90	4.89	7.41	7.41	7.38	
Locked rotor torque [%]	290	270	280	300	180	190	210	
Breakdown torque [%]	300	370	390	400	280	310	340	
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)	37s (cold) 21s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	37s (cold) 21s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	
Noise level ²	59.0 dB(A)							
Efficiency (%)	25%	91.0	85.1	84.9	84.5	87.0	87.0	87.0
	50%	91.7	86.4	86.2	85.9	88.5	88.5	88.5
	75%	92.4	89.2	89.3	89.3	89.5	89.5	89.5
	100%	93.0	90.4	90.5	90.6	91.0	91.0	91.0
Power Factor	25%	0.36	0.33	0.29	0.27	0.42	0.37	0.33
	50%	0.60	0.56	0.52	0.50	0.66	0.61	0.56
	75%	0.72	0.70	0.66	0.62	0.77	0.73	0.69
	100%	0.80	0.78	0.74	0.71	0.83	0.80	0.77
Bearing type	: Drive end : 6309 Z C3	Non drive end : 6209 Z C3	Foundation loads					
Sealing	: Without	Without	Max. traction : 340 kgf					
	Bearing Seal Bearing Seal		Max. compression : 450 kgf					
Lubrication interval	: 20000 h	20000 h						
Lubricant amount	: 13 g	9 g						
Lubricant type	: Mobil Polyrex EM							
Notes								
USABLE @208V 41.1A SF 1.15 SFA 47.3A								
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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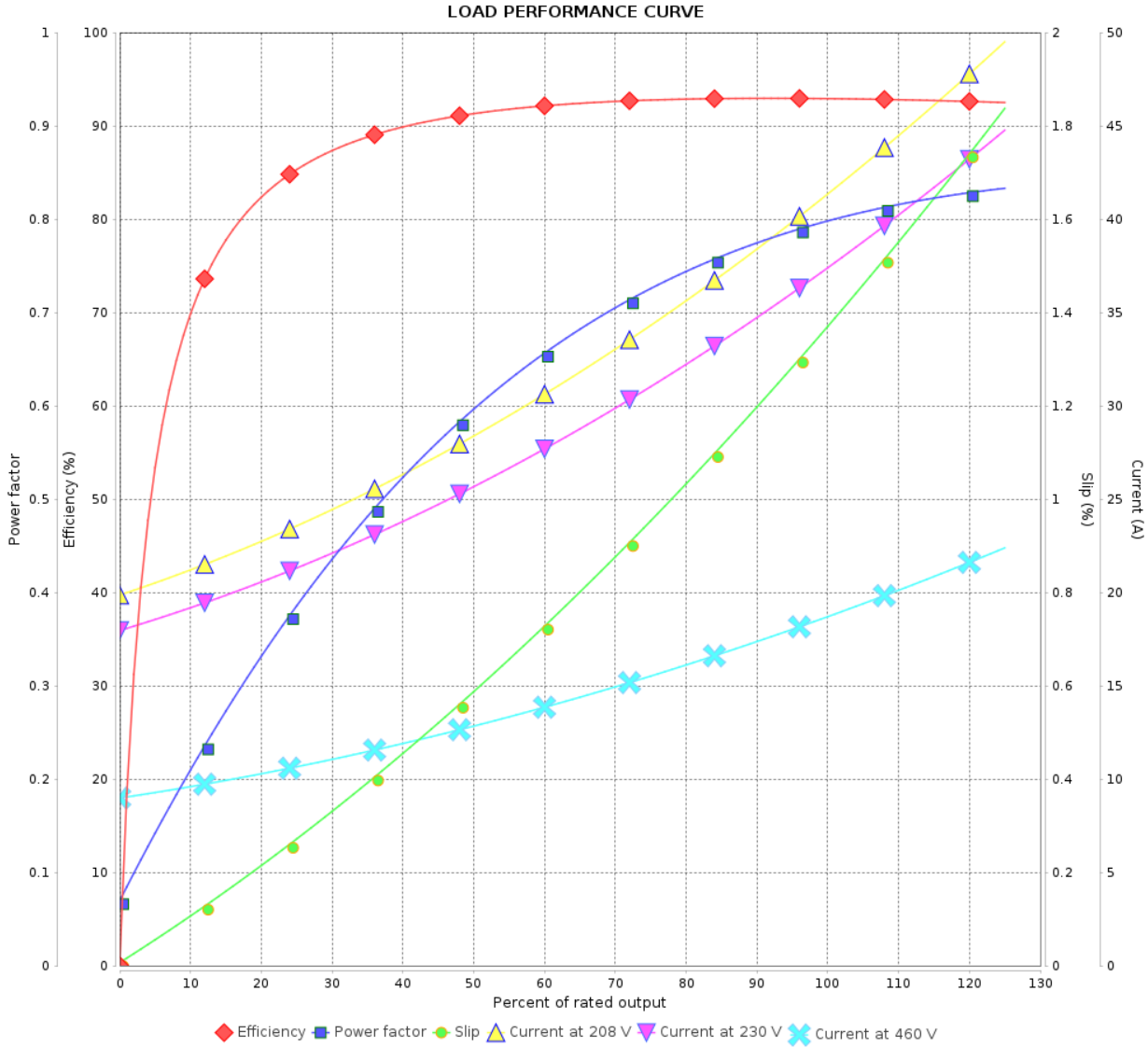
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 230/460 V 60 Hz 4P

Rated current : 37.2/18.6 A
 LRC : 6.7
 Rated torque : 6.13 kgfm
 Locked rotor torque : 290 %
 Breakdown torque : 300 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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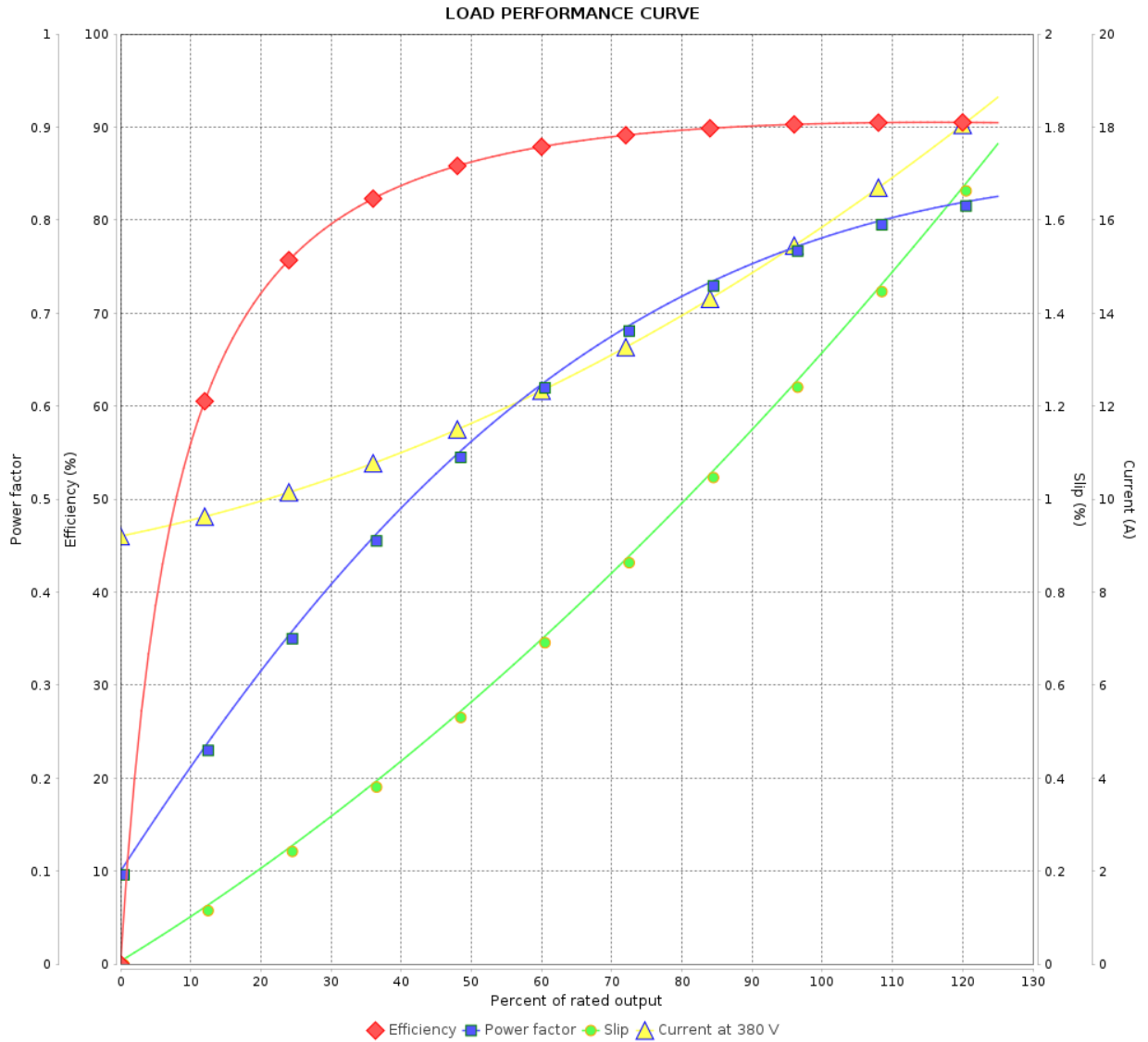
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 380 V 50 Hz 4P IE3

Rated current : 16.2 A
 LRC : 6.8
 Rated torque : 4.90 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 370 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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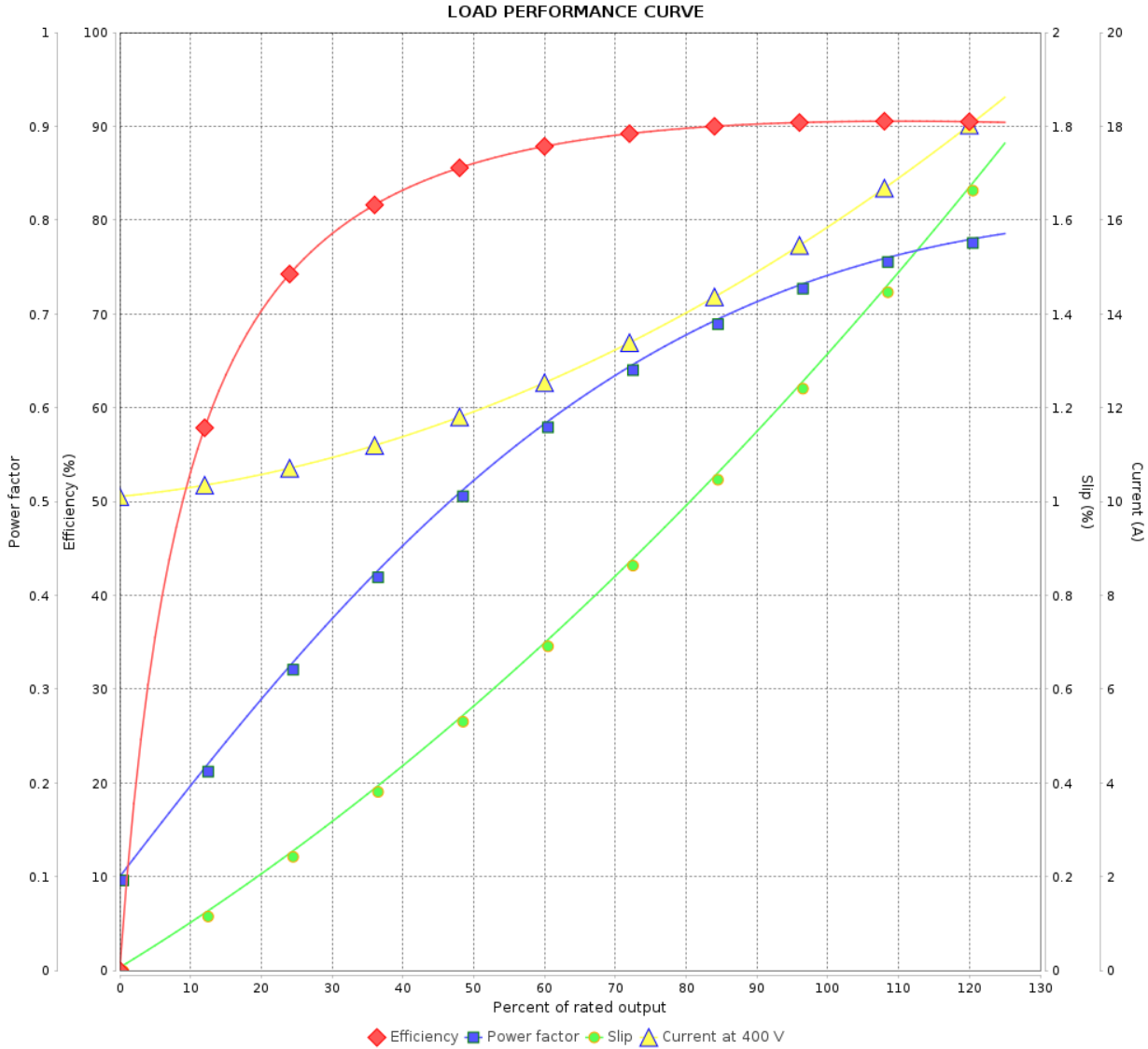
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 400 V 50 Hz 4P IE3

Rated current : 16.2 A
 LRC : 6.8
 Rated torque : 4.90 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 390 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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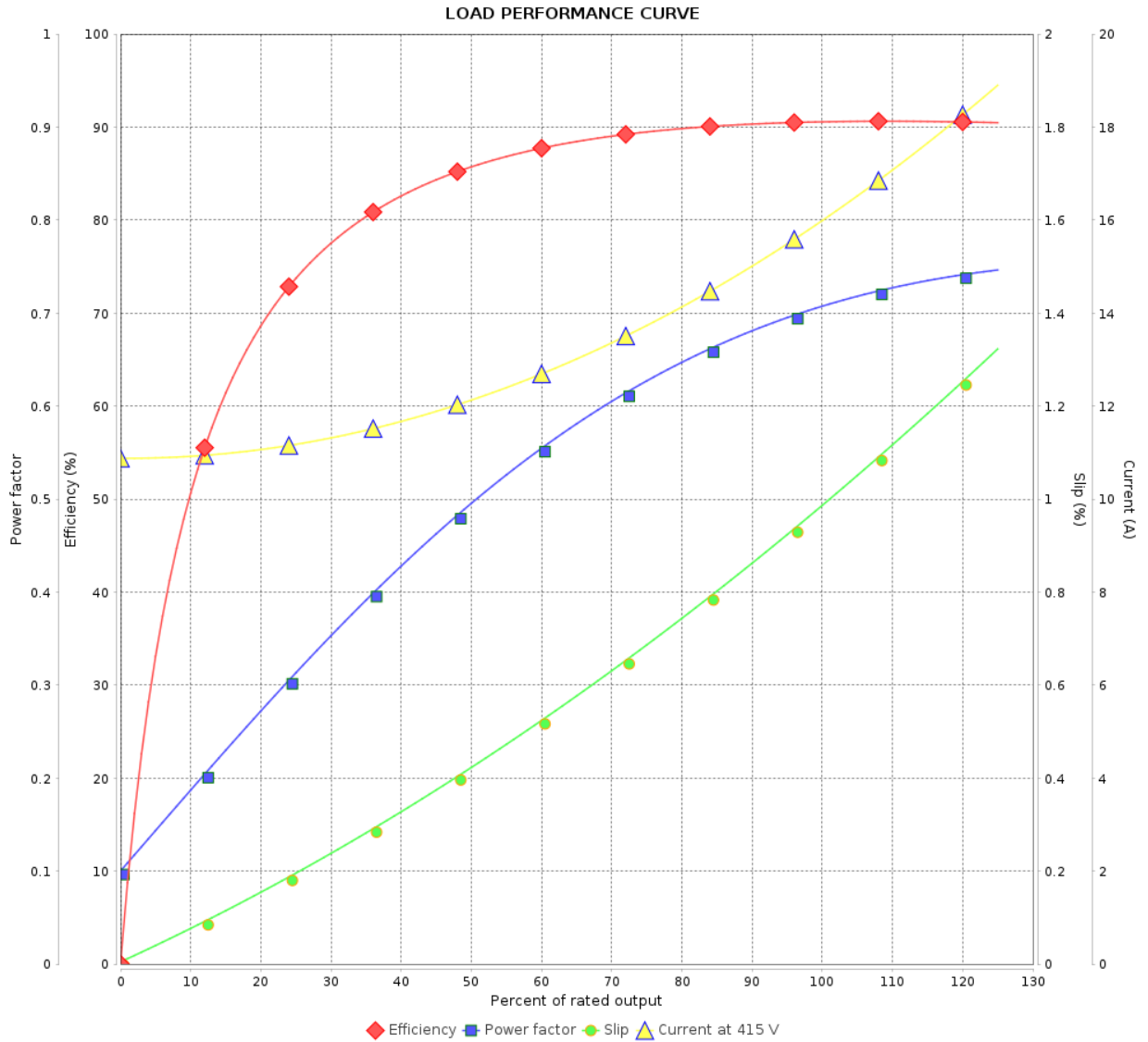
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 415 V 50 Hz 4P IE3

Rated current : 16.2 A
 LRC : 7.0
 Rated torque : 4.89 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 400 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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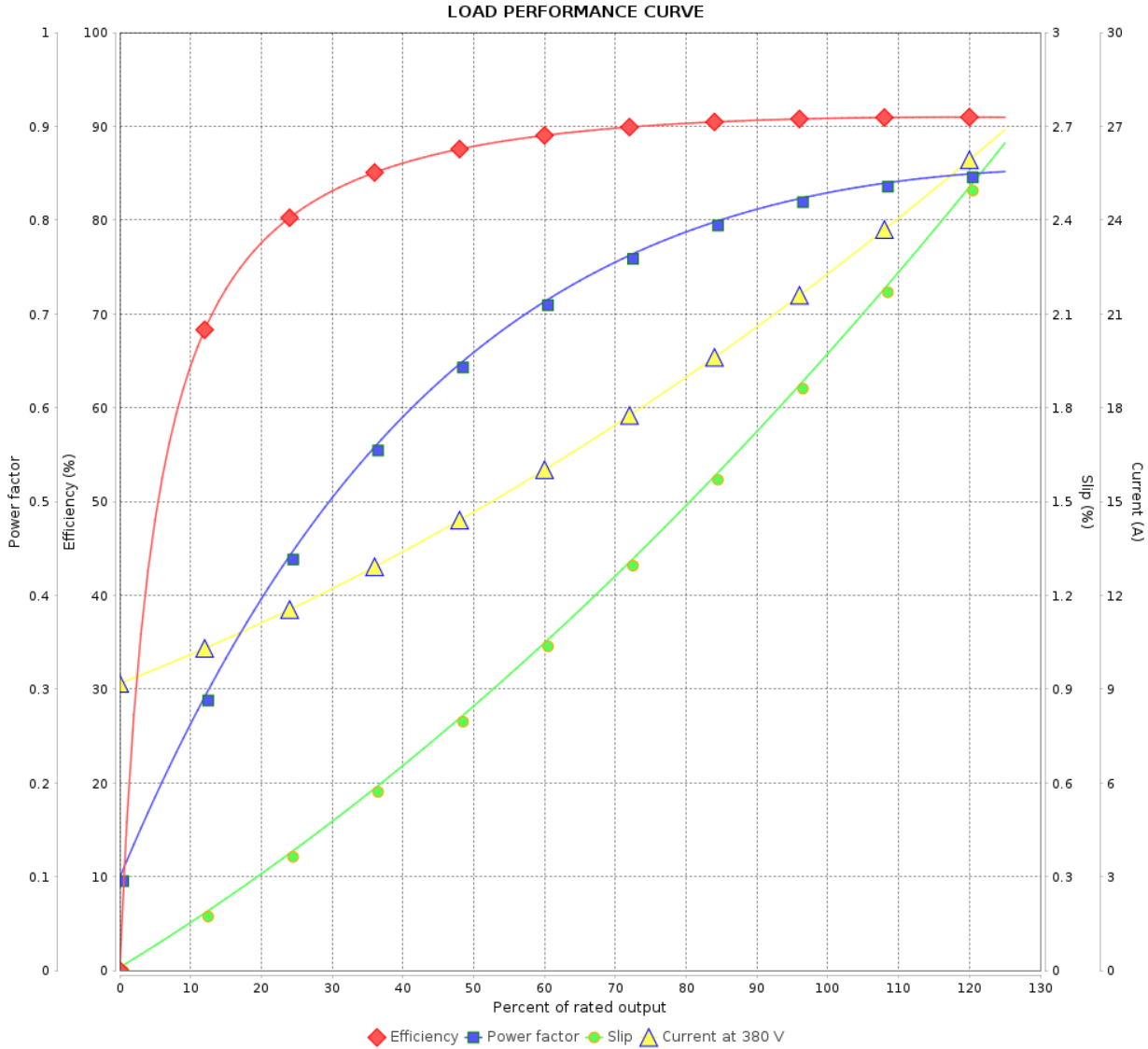
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 380 V 50 Hz 4P IE2

Rated current : 22.1 A
 LRC : 5.4
 Rated torque : 7.41 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 280 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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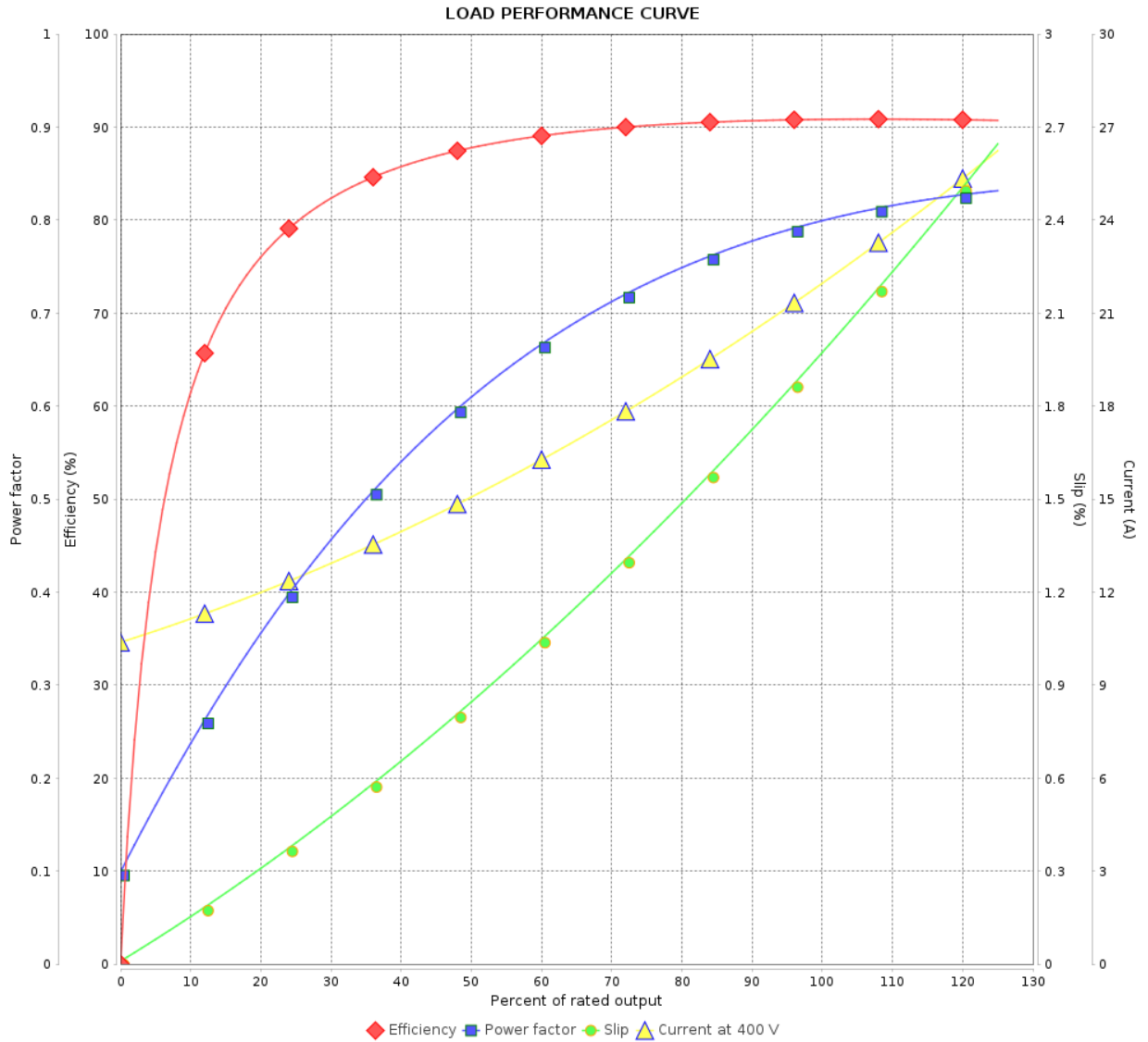
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 400 V 50 Hz 4P IE2

Rated current : 21.8 A
 LRC : 5.7
 Rated torque : 7.41 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 310 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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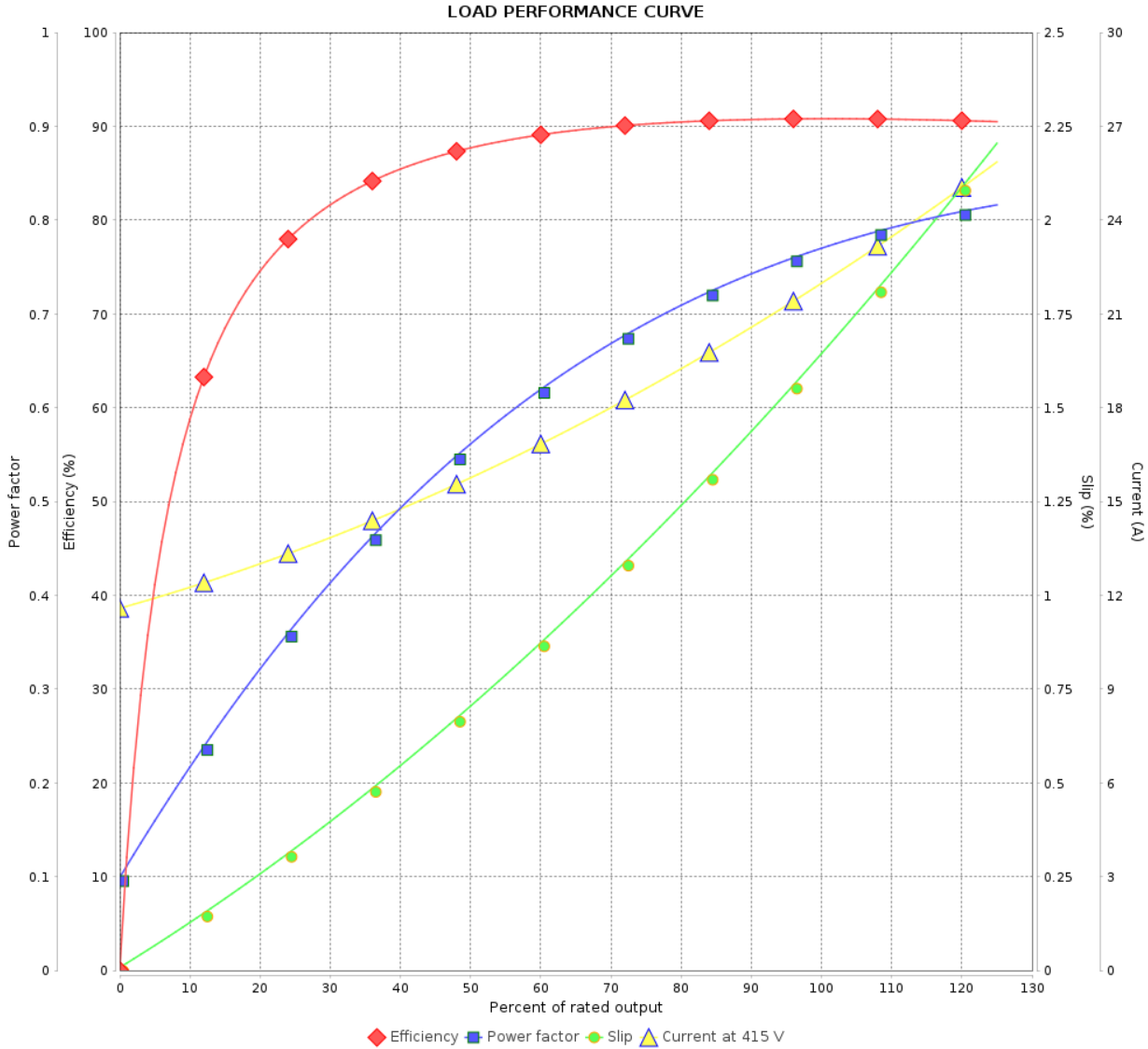
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10684312



Performance : 415 V 50 Hz 4P IE2

Rated current : 21.8 A
 LRC : 6.0
 Rated torque : 7.38 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 340 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.0878 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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