

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	13503728				
Frame	: 444/5TSD	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	: 652 kg				
Protection degree	: IP23	Moment of inertia (J)	: 1.08 kgm ²				
Design	: B						
Output [HP]	200	175	175	175	200	200	200
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	228	247	238	232	283	272	262
L. R. Amperes [A]	1482	1457	1571	1670	1472	1578	1677
LRC [A]	6.5x(Code G)	5.9x(Code F)	6.6x(Code G)	7.2x(Code H)	5.2x(Code E)	5.8x(Code F)	6.4x(Code G)
No load current [A]	64.0	64.8	71.1	77.4	64.8	71.1	77.4
Rated speed [RPM]	3575	2970	2970	2975	2965	2965	2970
Slip [%]	0.69	1.00	1.00	0.83	1.17	1.17	1.00
Rated torque [kgfm]	40.6	42.8	42.8	42.7	49.0	49.0	48.9
Locked rotor torque [%]	190	150	160	170	130	140	150
Breakdown torque [%]	250	290	310	330	250	270	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	36s (cold) 20s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)	30s (cold) 17s (hot)
Noise level ²	88.0 dB(A)						
Efficiency (%)	25%						
	50%	93.6	92.8	92.7	93.0	93.6	94.1
	75%	94.5	94.1	94.1	94.6	94.1	94.5
	100%	95.0	95.4	95.4	95.5	94.7	95.0
Power Factor	25%						
	50%	0.79	0.75	0.72	0.70	0.78	0.74
	75%	0.85	0.83	0.81	0.80	0.84	0.81
	100%	0.87	0.85	0.84	0.83	0.85	0.84
Bearing type	: Drive end : 6314 C3	Non drive end : 6314 C3	Foundation loads				
Sealing	: Without	Without	Max. traction : 914 kgf				
	Bearing Seal Bearing Seal		Max. compression : 1565 kgf				
Lubrication interval	: 14418 h	14418 h					
Lubricant amount	: 27 g	27 g					
Lubricant type	: Mobil Polyrex EM						
Notes							
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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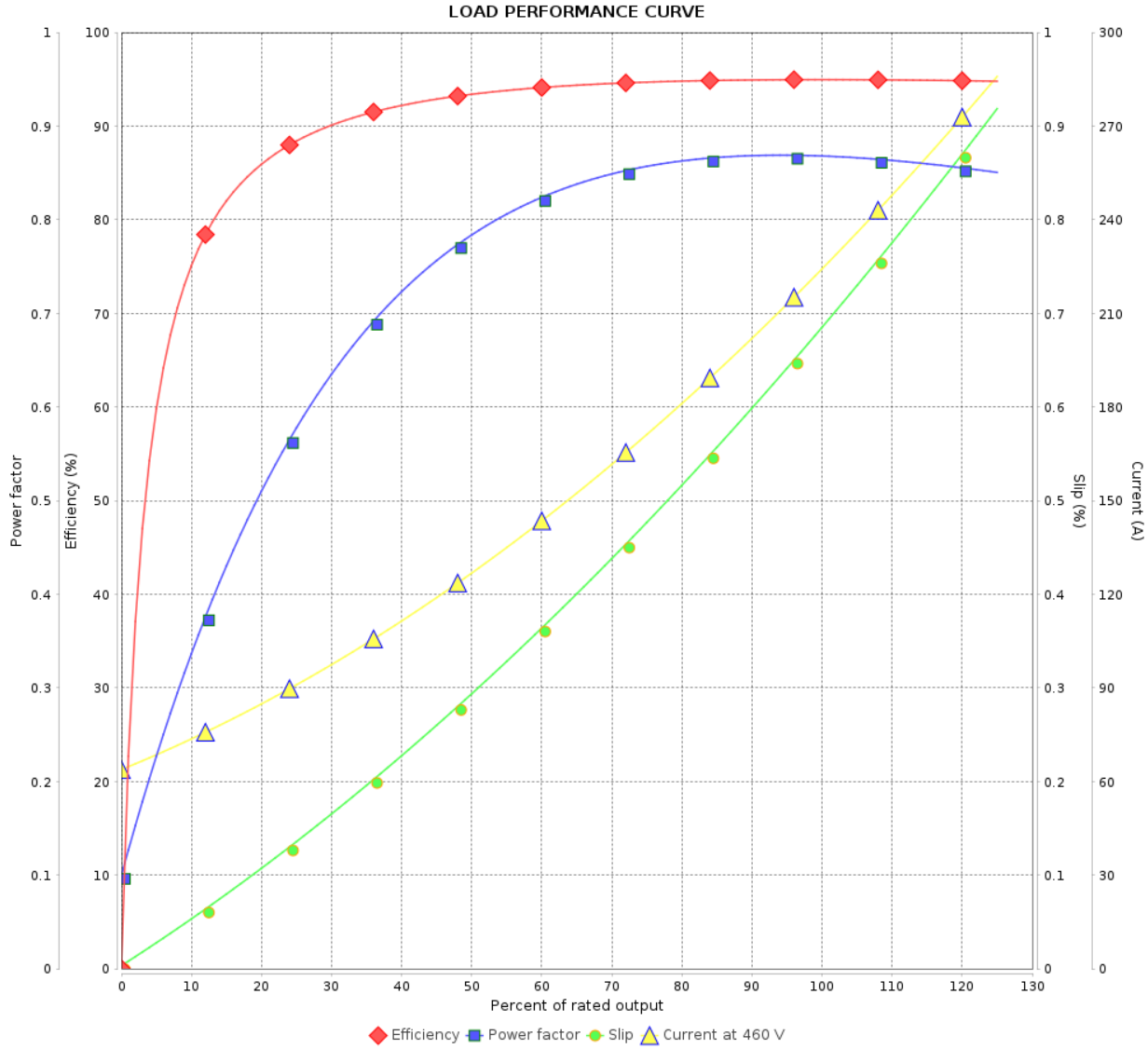
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 460 V 60 Hz 2P

Rated current	: 228 A	Moment of inertia (J)	: 1.08 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 40.6 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3575 rpm	Design	: B

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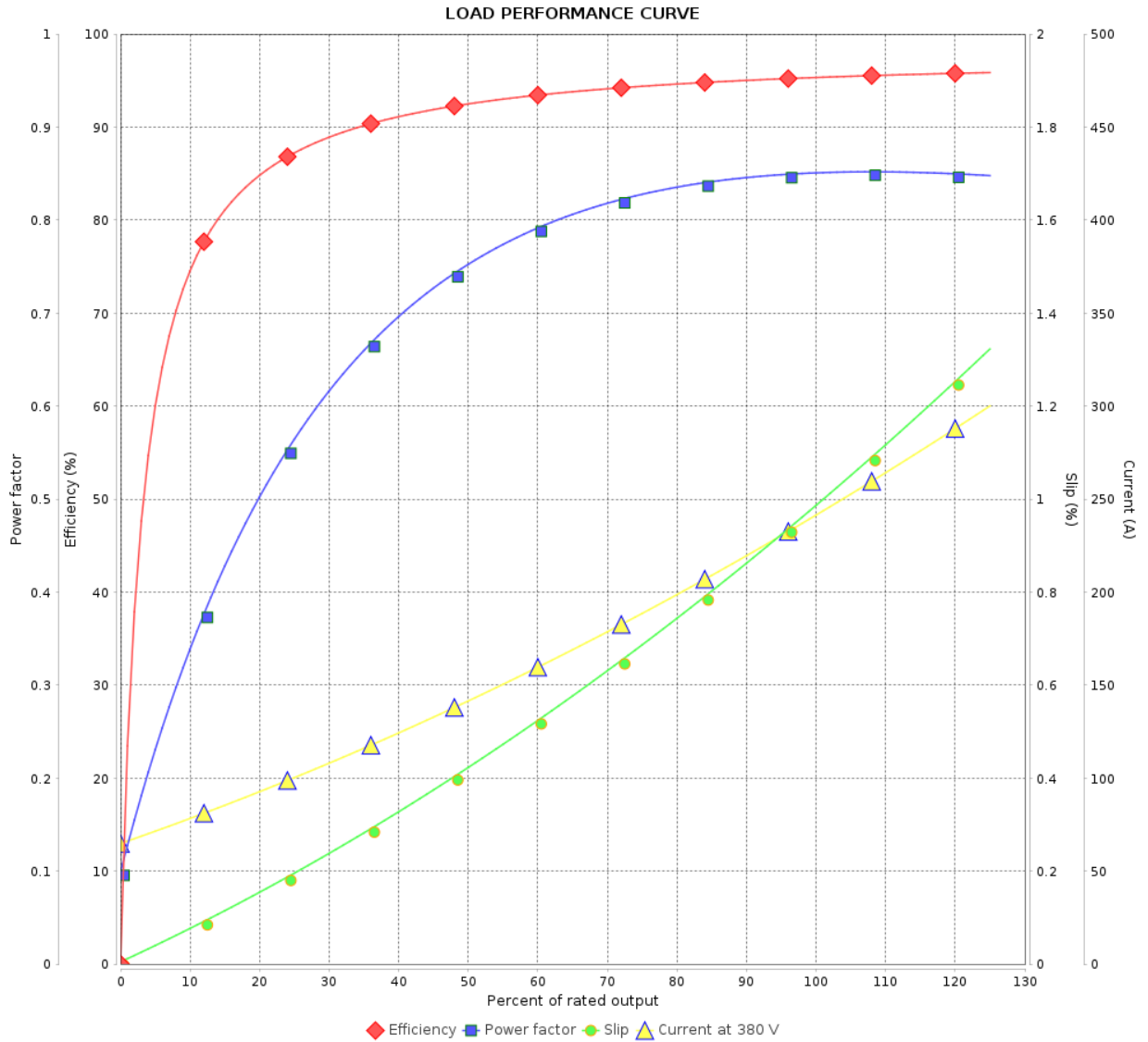
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 380 V 50 Hz 2P IE3

Rated current : 247 A
 LRC : 5.9
 Rated torque : 42.8 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 290 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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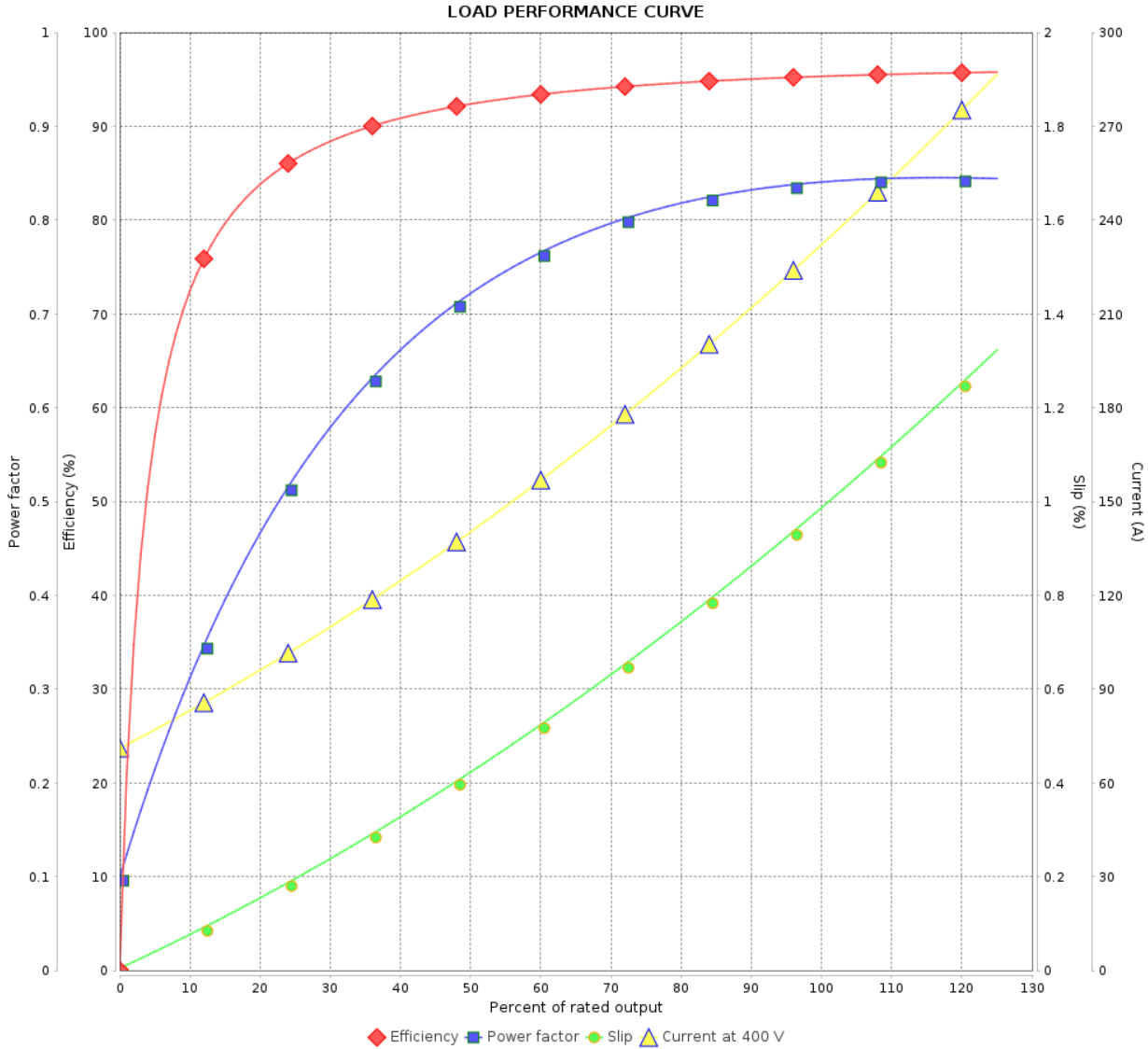
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 400 V 50 Hz 2P IE3

Rated current : 238 A
 LRC : 6.6
 Rated torque : 42.8 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 310 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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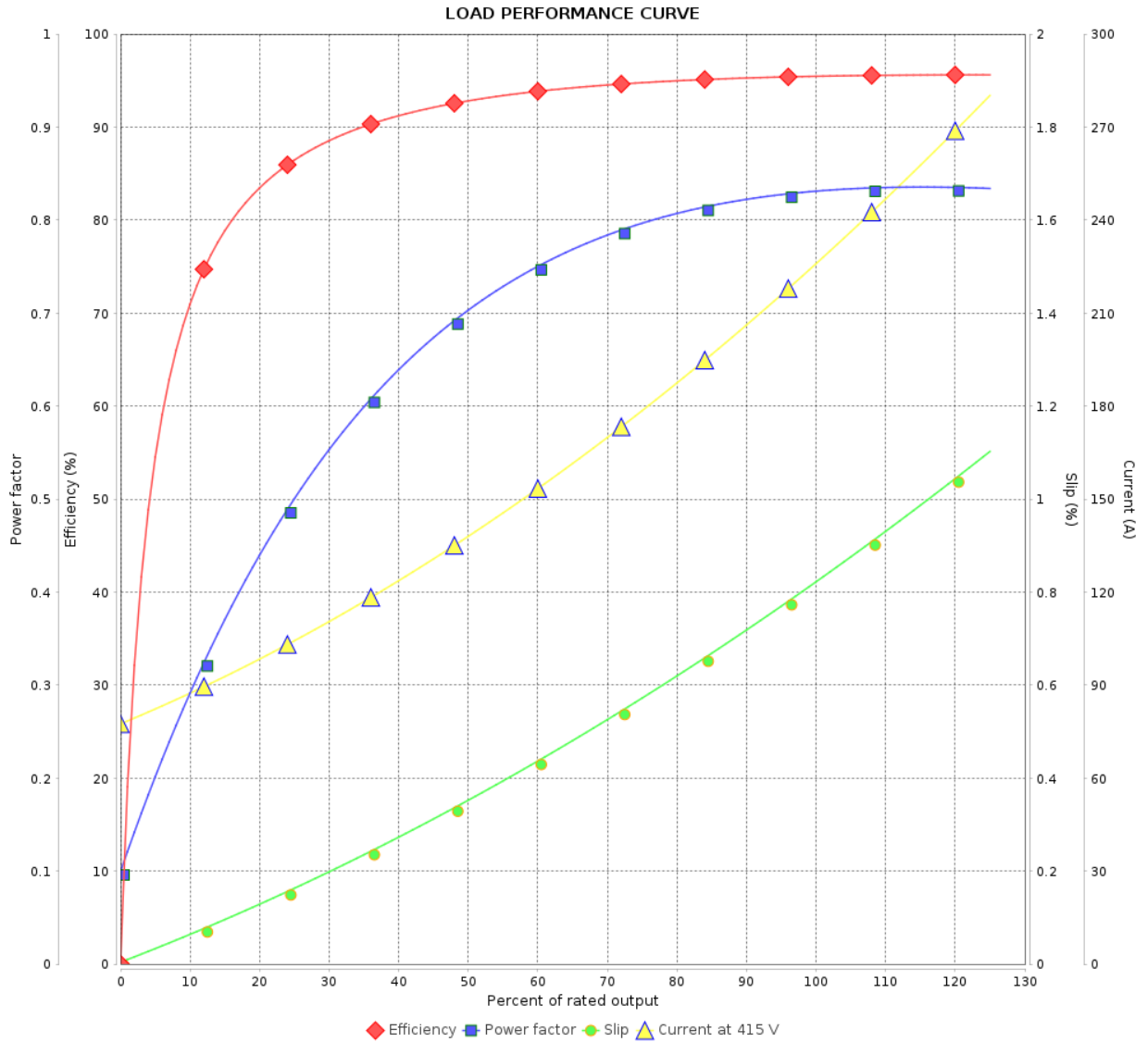
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 415 V 50 Hz 2P IE3

Rated current : 232 A
 LRC : 7.2
 Rated torque : 42.7 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 330 %
 Rated speed : 2975 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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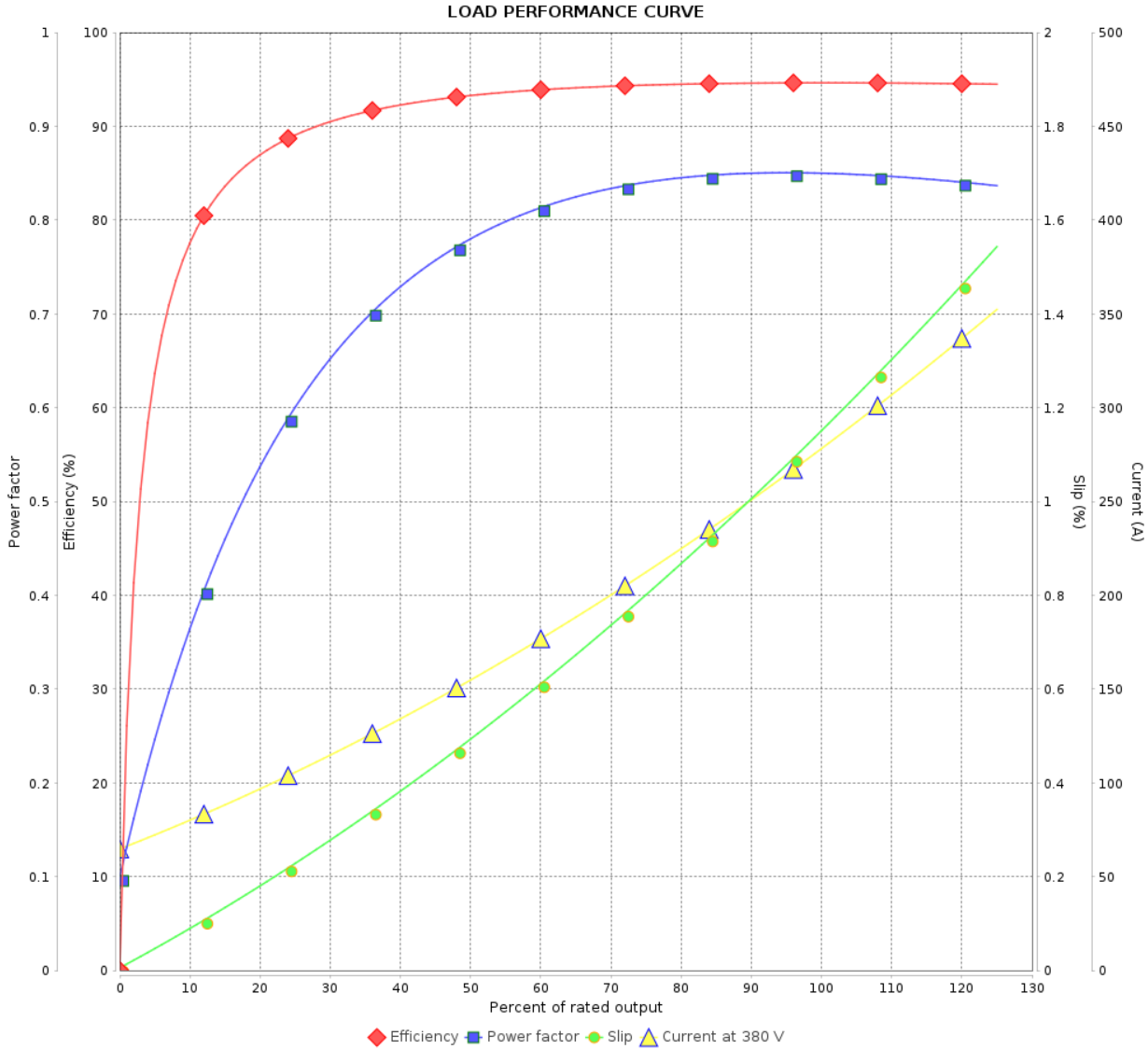
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 380 V 50 Hz 2P IE1

Rated current : 283 A
 LRC : 5.2
 Rated torque : 49.0 kgfm
 Locked rotor torque : 130 %
 Breakdown torque : 250 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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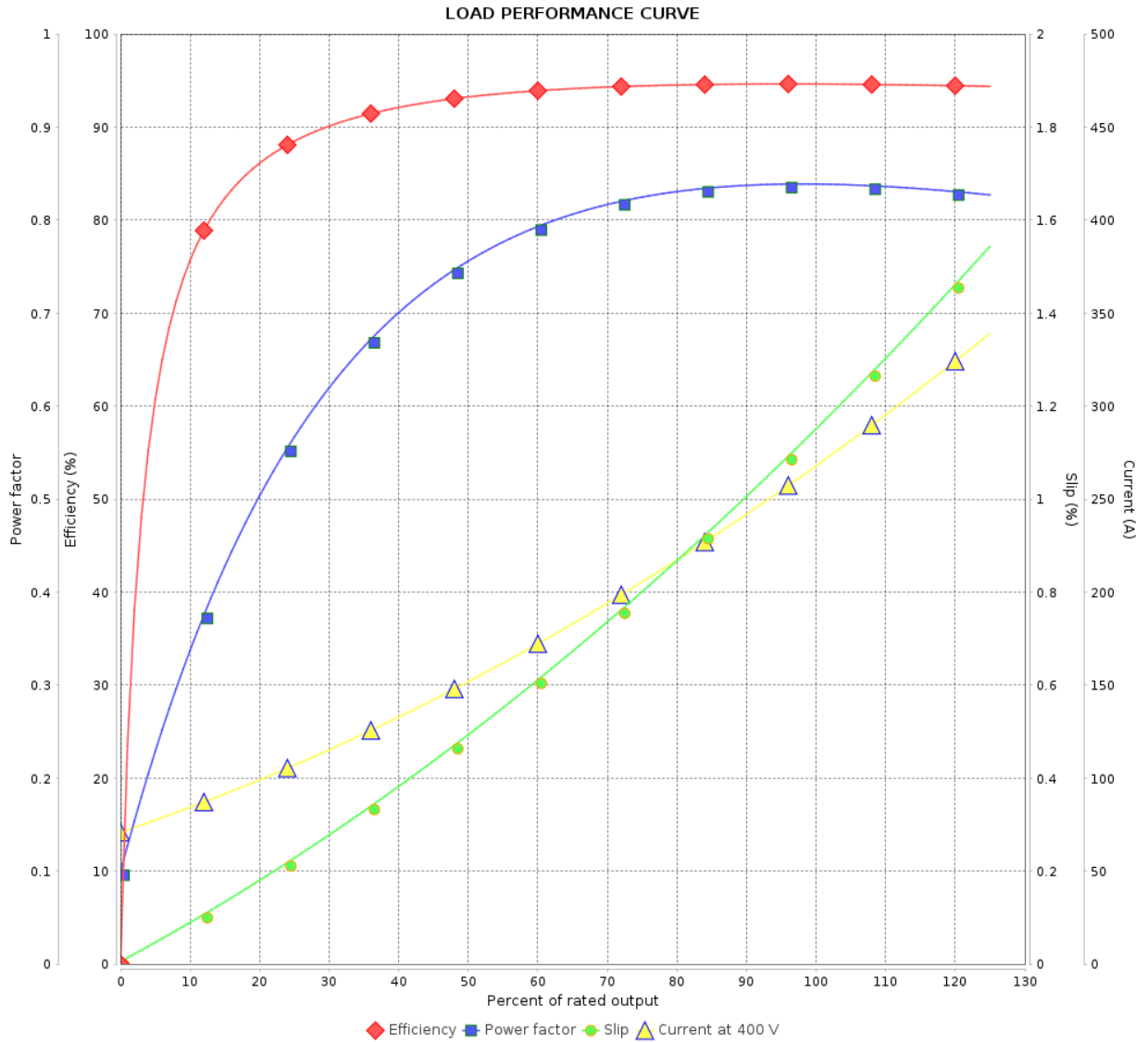
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 400 V 50 Hz 2P IE1

Rated current : 272 A
 LRC : 5.8
 Rated torque : 49.0 kgfm
 Locked rotor torque : 140 %
 Breakdown torque : 270 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 1.08 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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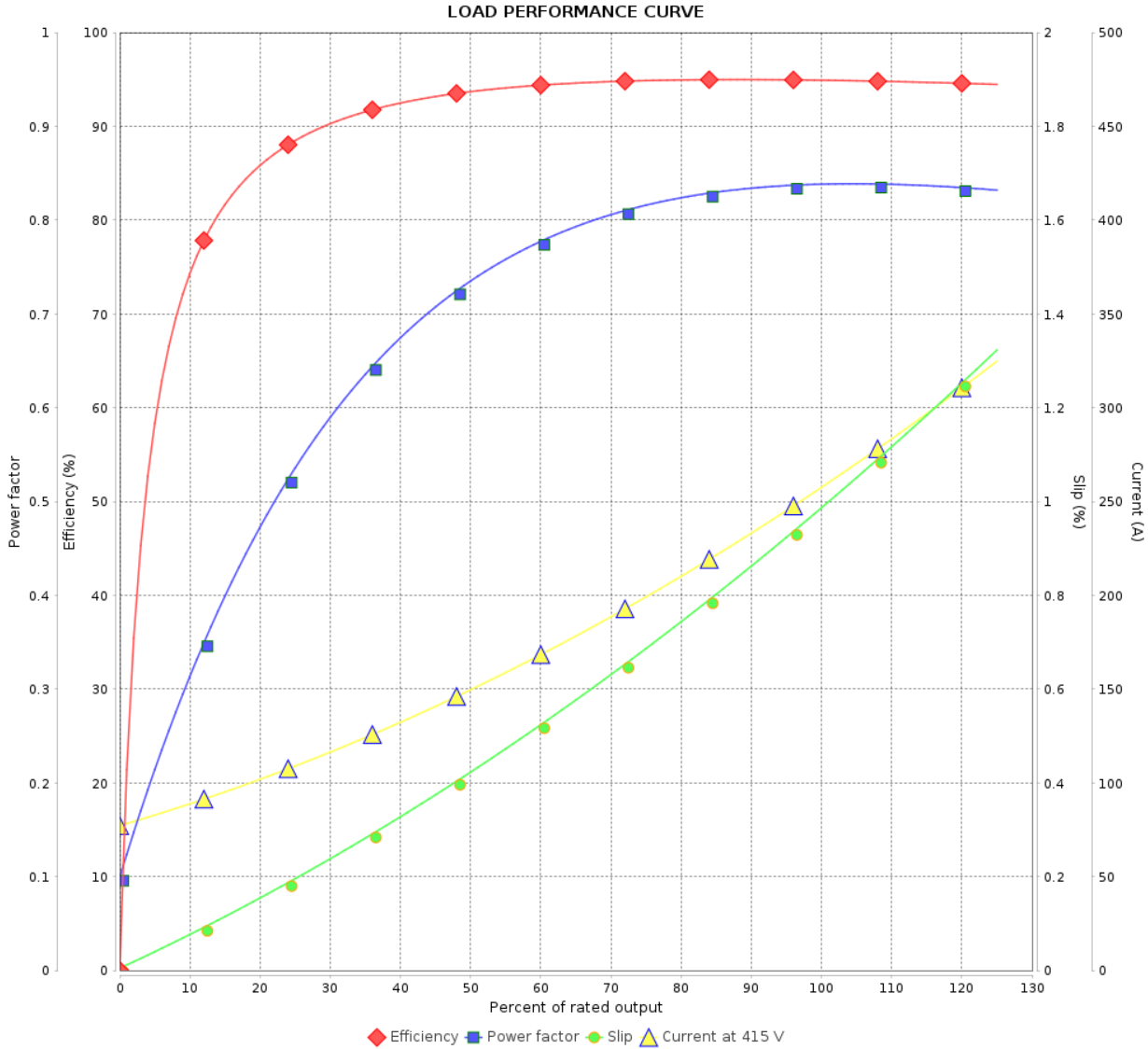
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13503728



Performance : 415 V 50 Hz 2P IE2

Rated current	: 262 A	Moment of inertia (J)	: 1.08 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 48.9 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2970 rpm	Design	: B

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