

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code :			11600529		
Frame : 445/7TS Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B				Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ³ : 938 kg Moment of inertia (J) : 1.88 kgm ²				
Output [HP]	200	150	150	150	200	200	200	200
Poles	2	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415	415
Rated current [A]	438/219	193	183	178	268	253	244	244
L. R. Amperes [A]	2847/1424	1312	1391	1477	1447	1543	1635	1635
LRC [A]	6.5x(Code G)	6.8x(Code G)	7.6x(Code H)	8.3x(Code H)	5.4x(Code E)	6.1x(Code F)	6.7x(Code G)	6.7x(Code G)
No load current [A]	90.0/45.0	44.0	47.0	49.3	42.0	45.0	47.0	47.0
Rated speed [RPM]	3570	2975	2980	2980	2960	2965	2970	2970
Slip [%]	0.83	0.83	0.67	0.67	1.33	1.17	1.00	1.00
Rated torque [kgfm]	40.7	36.6	36.5	36.5	49.0	49.0	48.9	48.9
Locked rotor torque [%]	210	210	220	229	160	180	200	200
Breakdown torque [%]	229	260	290	320	190	220	229	229
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K	105 K
Locked rotor time	25s (cold) 14s (hot)	50s (cold) 28s (hot)	46s (cold) 26s (hot)	43s (cold) 24s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²	81.0 dB(A)							
Efficiency (%)	25%	94.9	94.9	94.9	94.9	95.3	94.9	95.2
	50%	95.0	95.0	95.0	95.0	95.0	95.0	95.0
	75%	95.4	95.2	95.3	95.3	95.0	95.0	95.4
	100%	95.4	95.2	95.3	95.3	94.5	95.0	95.0
Power Factor	25%	0.64	0.63	0.59	0.57	0.70	0.67	0.65
	50%	0.86	0.85	0.83	0.82	0.88	0.87	0.86
	75%	0.89	0.90	0.89	0.88	0.90	0.89	0.89
	100%	0.90	0.91	0.91	0.90	0.90	0.90	0.90
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P2 (0,5;1,0)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	P3 (0,25;1,0)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	P4 (0,9;0,5)	2.7	2.7	2.7	2.7	2.7	2.7	2.7
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Bearing type	: Drive end : 6314 C3	Non drive end : 6314 C3		Foundation loads				
Sealing	: WSeal	WSeal		Max. traction : 514 kgf				
Lubrication interval	: 4000 h	4000 h		Max. compression : 1452 kgf				
Lubricant amount	: 27 g	27 g						
Lubricant type	: Mobil Polyrex EM							
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end.				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 : _____

Notes
USABLE @208V 484A SF 1.00 SFA 484A

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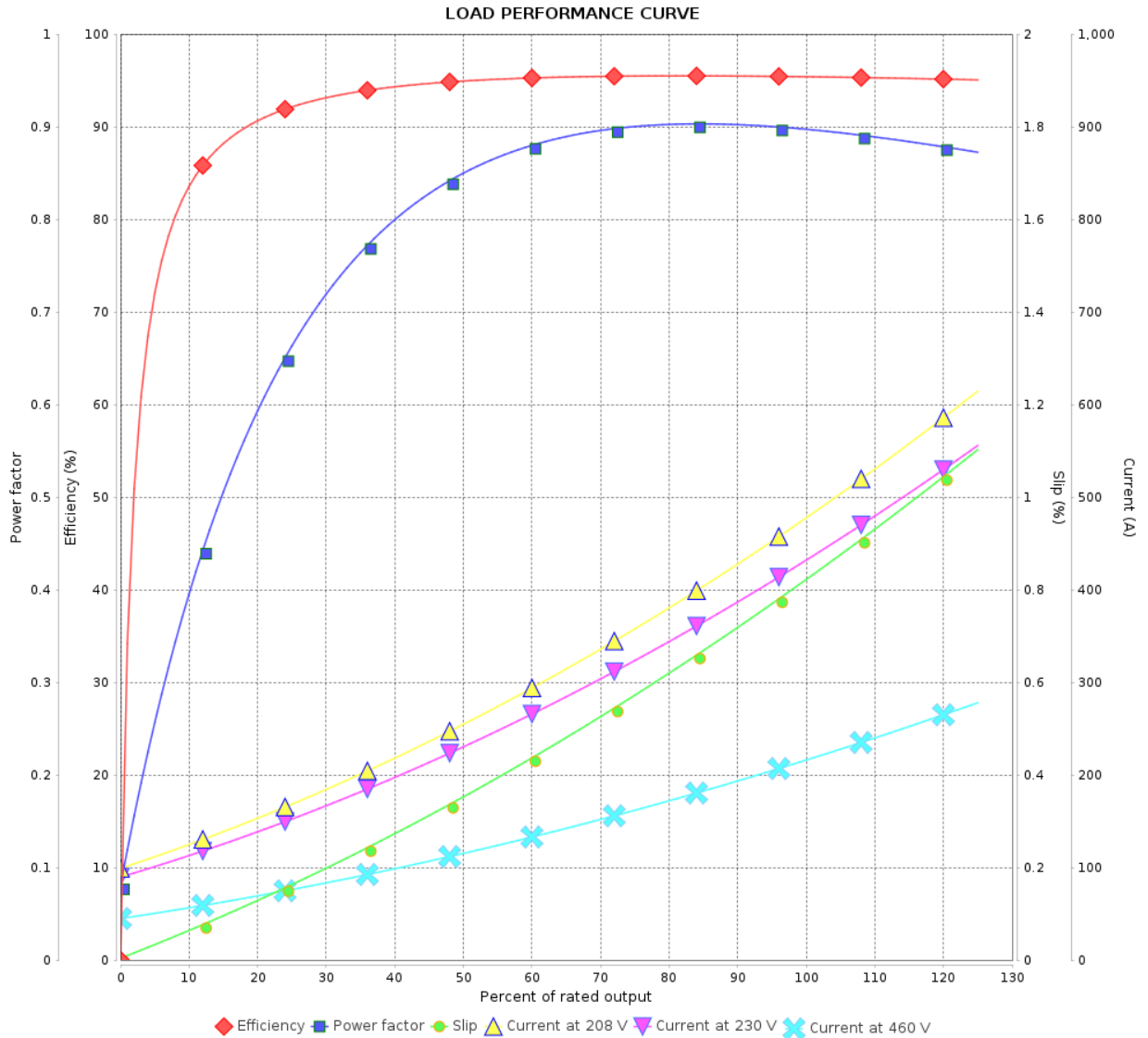
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 230/460 V 60 Hz 2P

Rated current : 438/219 A
 LRC : 6.5
 Rated torque : 40.7 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 229 %
 Rated speed : 3570 rpm

Moment of inertia (J) : 1.88 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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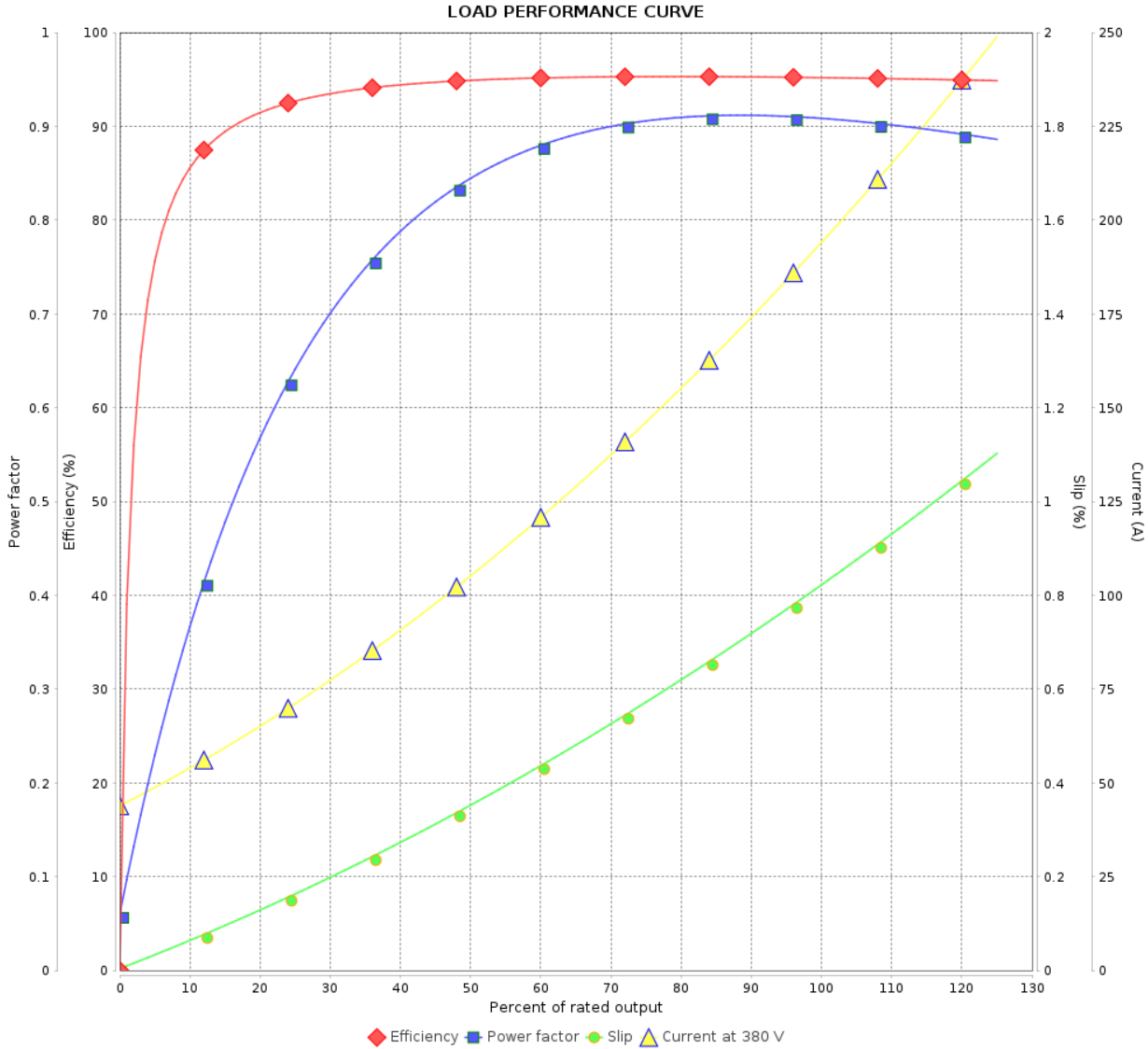
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 380 V 50 Hz 2P IE3

Rated current	: 193 A	Moment of inertia (J)	: 1.88 kgm ²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 36.6 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2975 rpm	Design	: B

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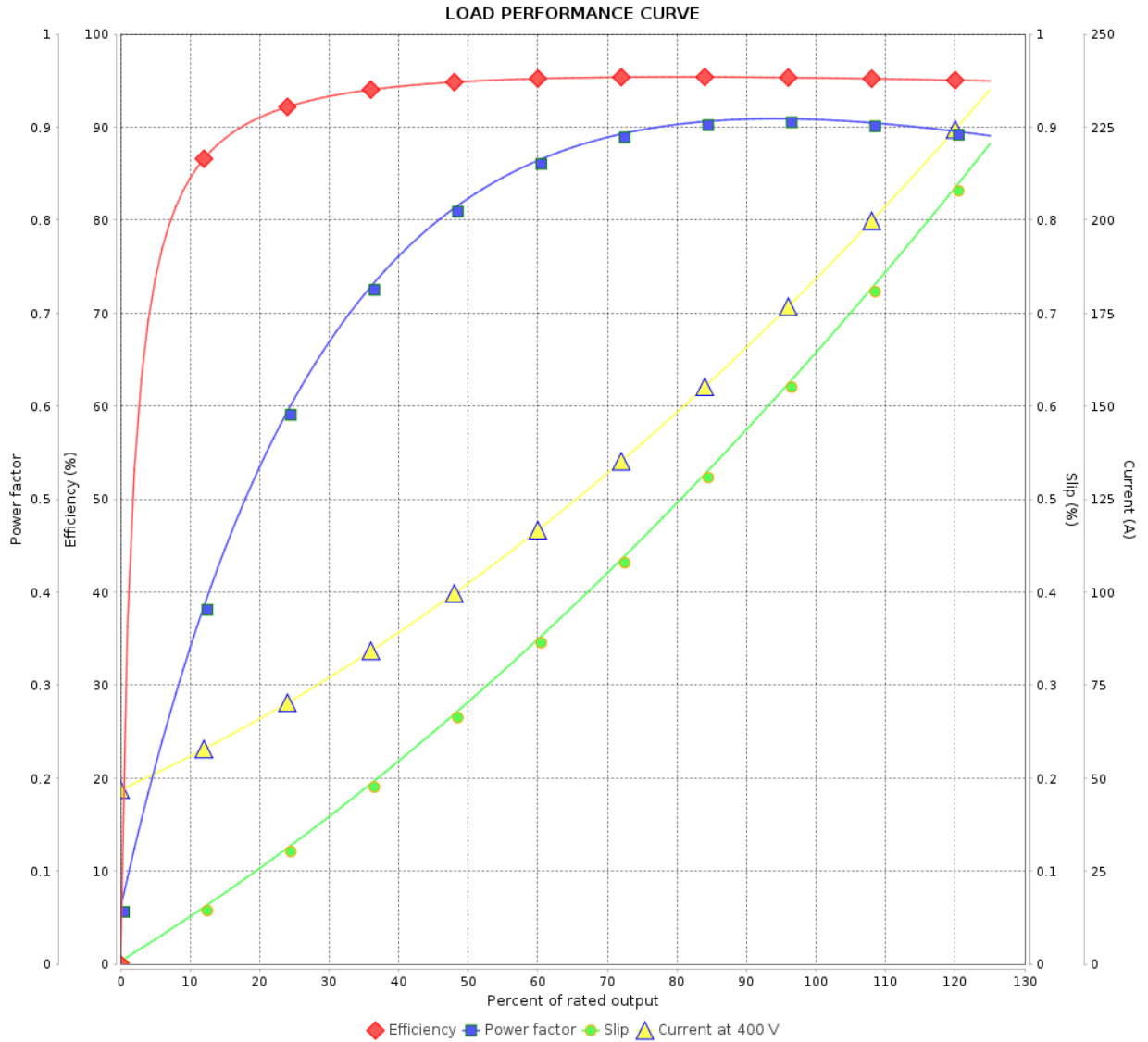
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 400 V 50 Hz 2P IE3

Rated current : 183 A
 LRC : 7.6
 Rated torque : 36.5 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
 Rated speed : 2980 rpm

Moment of inertia (J) : 1.88 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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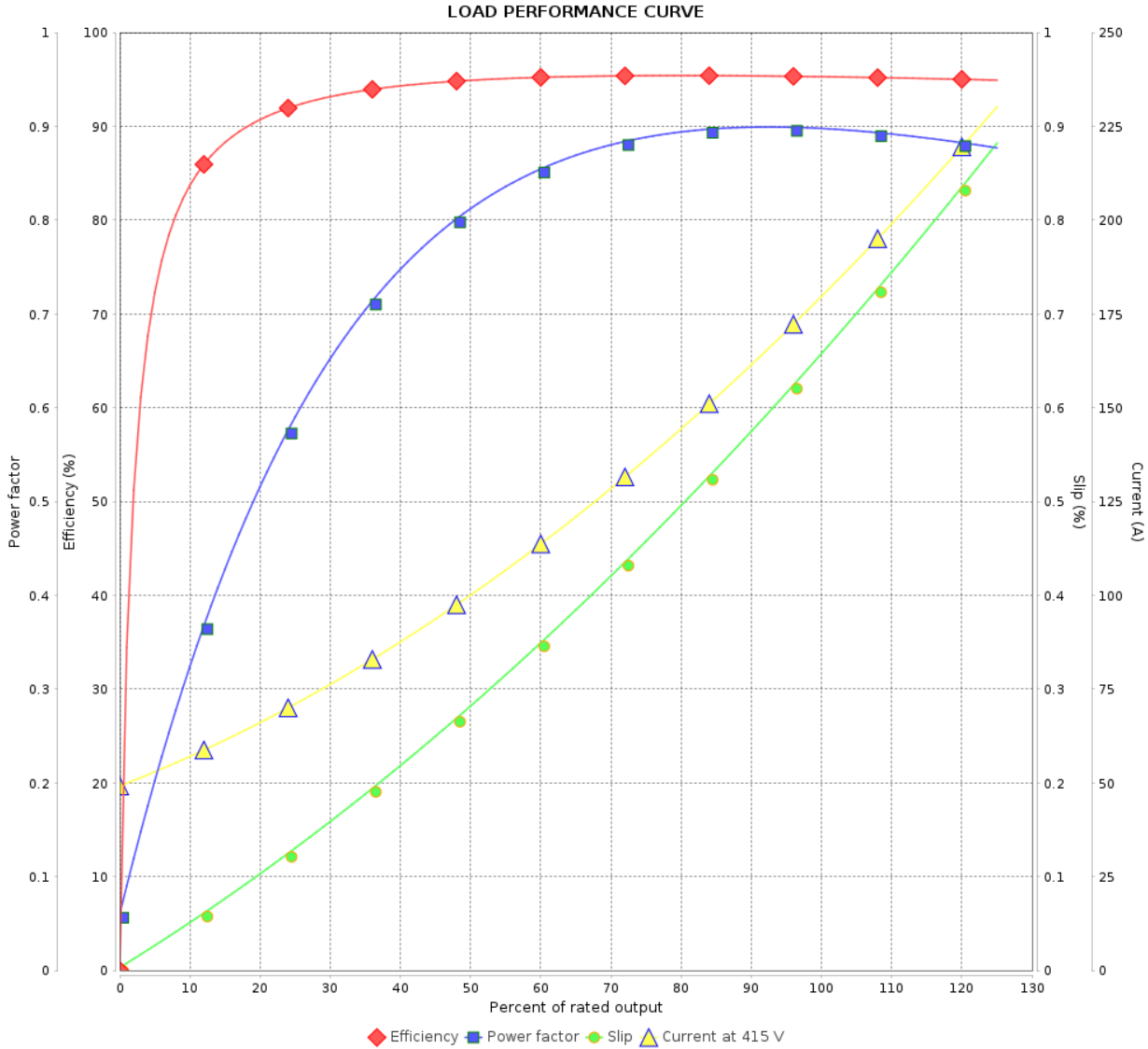
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 415 V 50 Hz 2P IE3

Rated current	: 178 A	Moment of inertia (J)	: 1.88 kgm ²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 36.5 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: B

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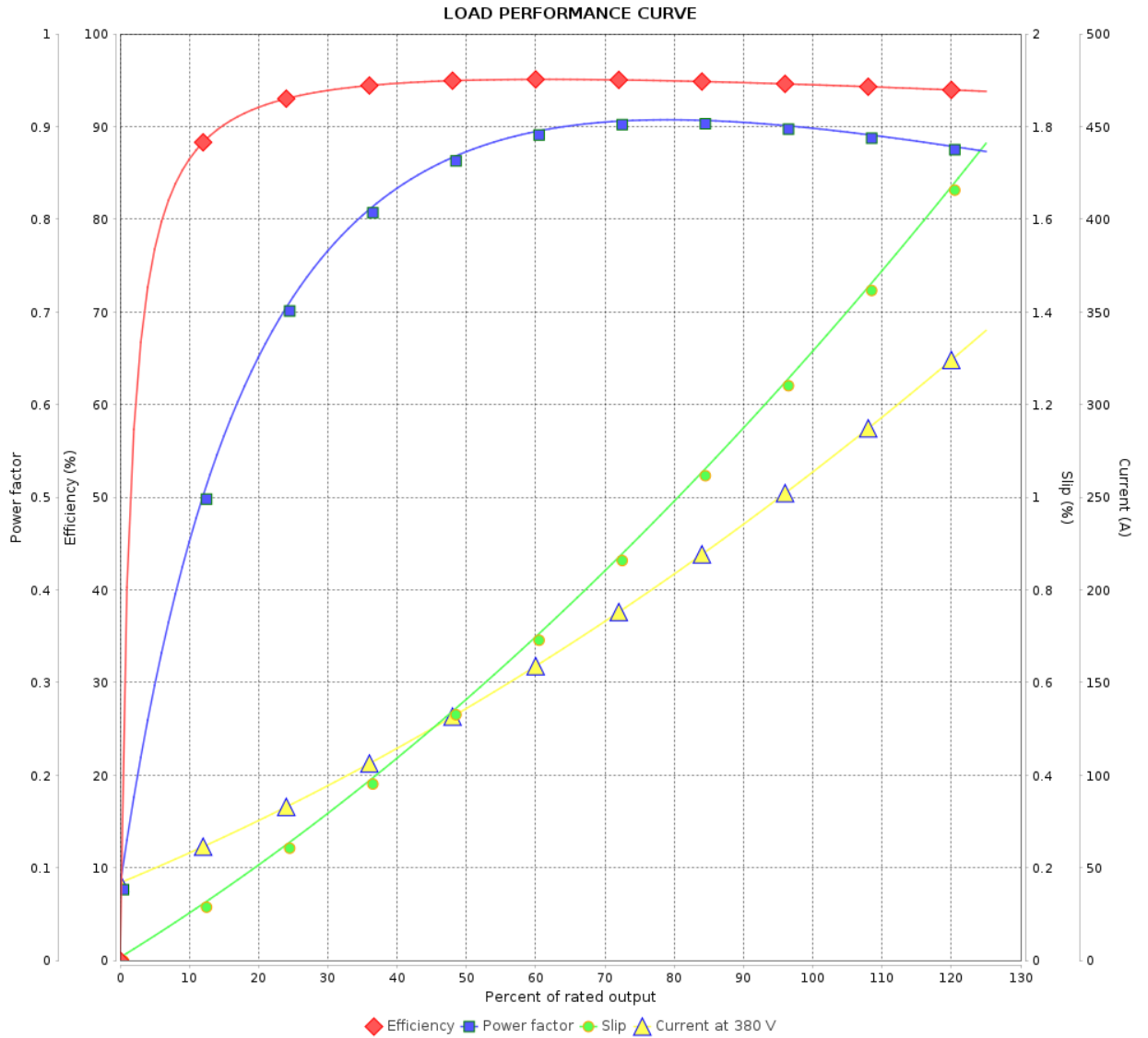
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 380 V 50 Hz 2P IE1

Rated current : 268 A
 LRC : 5.4
 Rated torque : 49.0 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 1.88 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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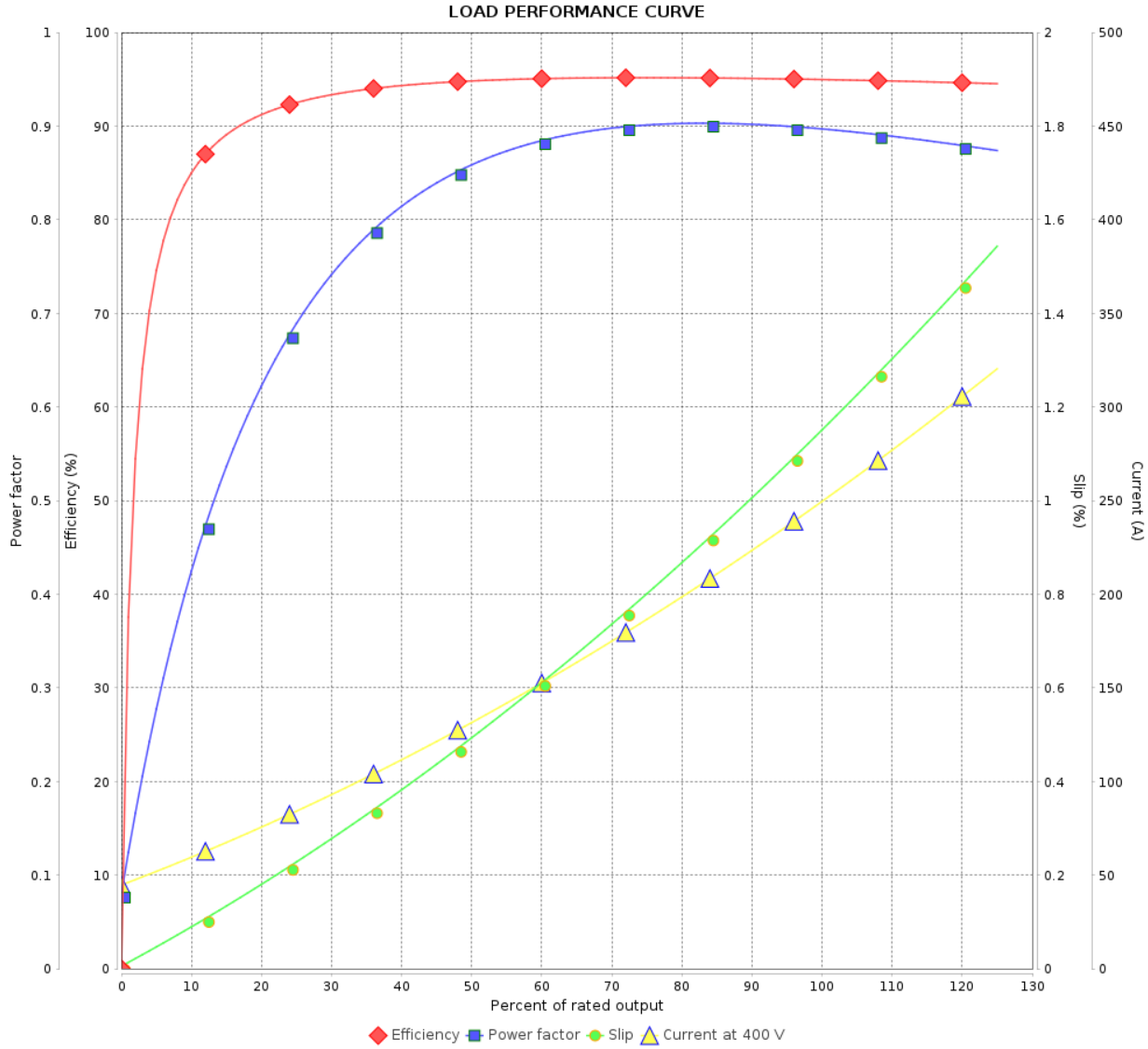
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 400 V 50 Hz 2P IE2

Rated current : 253 A
 LRC : 6.1
 Rated torque : 49.0 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 220 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 1.88 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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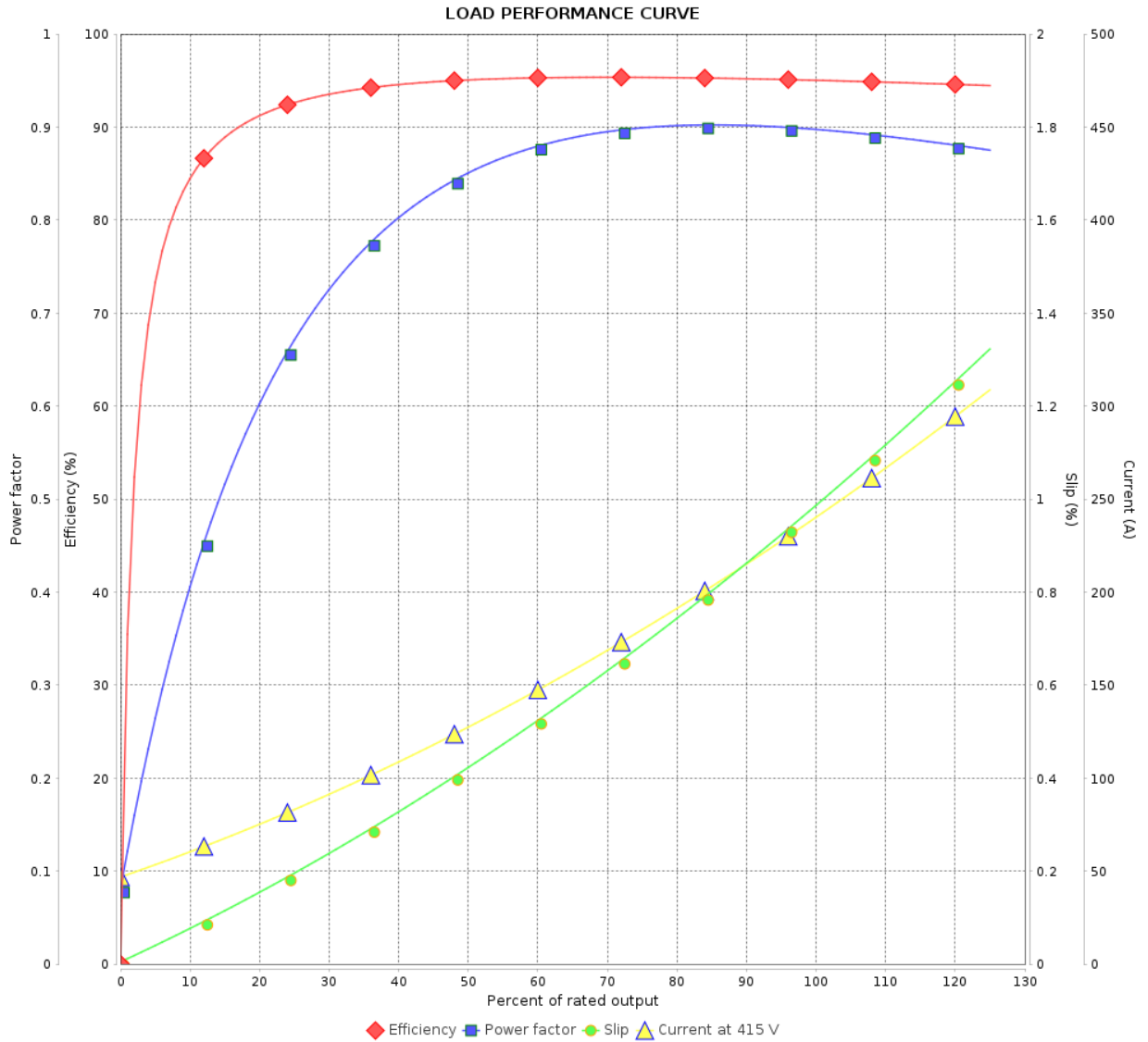
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11600529



Performance : 415 V 50 Hz 2P IE2

Rated current : 244 A
 LRC : 6.7
 Rated torque : 48.9 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 1.88 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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