

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	11995875				
Frame	: 213/5TC	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	: 49.4 kg				
Protection degree	: IP21	Moment of inertia (J)	: 0.0388 kgm ²				
Design	: B						
Output [HP]	7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]	18.1/9.03	8.57	8.57	8.60	11.2	10.9	10.7
L. R. Amperes [A]	135/67.7	71.1	74.6	79.1	72.8	76.3	80.2
LRC [A]	7.5x(Code J)	8.3x(Code K)	8.7x(Code L)	9.2x(Code M)	6.5x(Code H)	7.0x(Code H)	7.5x(Code J)
No load current [A]	7.60/3.80	3.70	4.10	4.50	3.70	4.10	4.50
Rated speed [RPM]	1765	1470	1475	1475	1450	1455	1460
Slip [%]	1.94	2.00	1.67	1.67	3.33	3.00	2.67
Rated torque [kgfm]	3.08	2.72	2.71	2.71	3.75	3.74	3.73
Locked rotor torque [%]	200	280	300	330	200	220	240
Breakdown torque [%]	270	360	400	440	260	290	320
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	21s (cold) 12s (hot)	12s (cold) 7s (hot)	10s (cold) 6s (hot)	10s (cold) 6s (hot)	12s (cold) 7s (hot)	10s (cold) 6s (hot)	10s (cold) 6s (hot)
Noise level ²	58.0 dB(A)						
Efficiency (%)	25%						
	50%	89.0	84.7	83.7	82.8	86.5	86.5
	75%	90.2	87.0	86.8	86.6	87.5	87.5
	100%	91.0	88.6	88.6	88.6	86.5	87.7
Power Factor	25%						
	50%	0.68	0.57	0.53	0.50	0.68	0.64
	75%	0.79	0.71	0.67	0.63	0.80	0.76
	100%	0.84	0.80	0.76	0.73	0.86	0.83
Bearing type	: Drive end : 6208 ZZ Non drive end : 6206 ZZ	Foundation loads		Max. traction : 196 kgf			
Sealing	: Without Bearing Seal	Without Bearing Seal		Max. compression : 245 kgf			
Lubrication interval	: -	-					
Lubricant amount	: -	-					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 20.0A SF 1.15 SFA 23.0A							
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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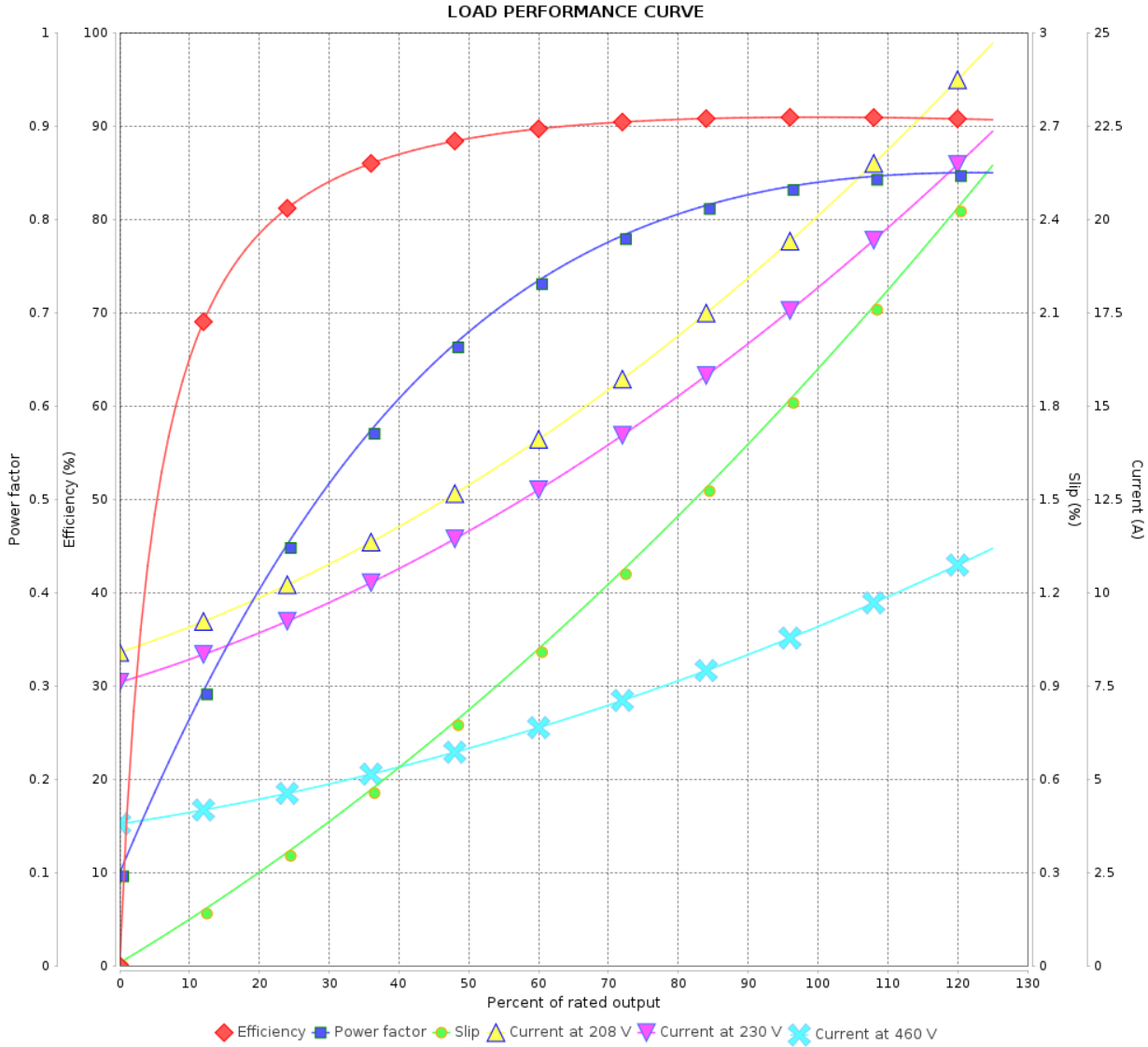
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875



Performance : 230/460 V 60 Hz 4P

Rated current : 18.1/9.03 A
 LRC : 7.5
 Rated torque : 3.08 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 270 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0388 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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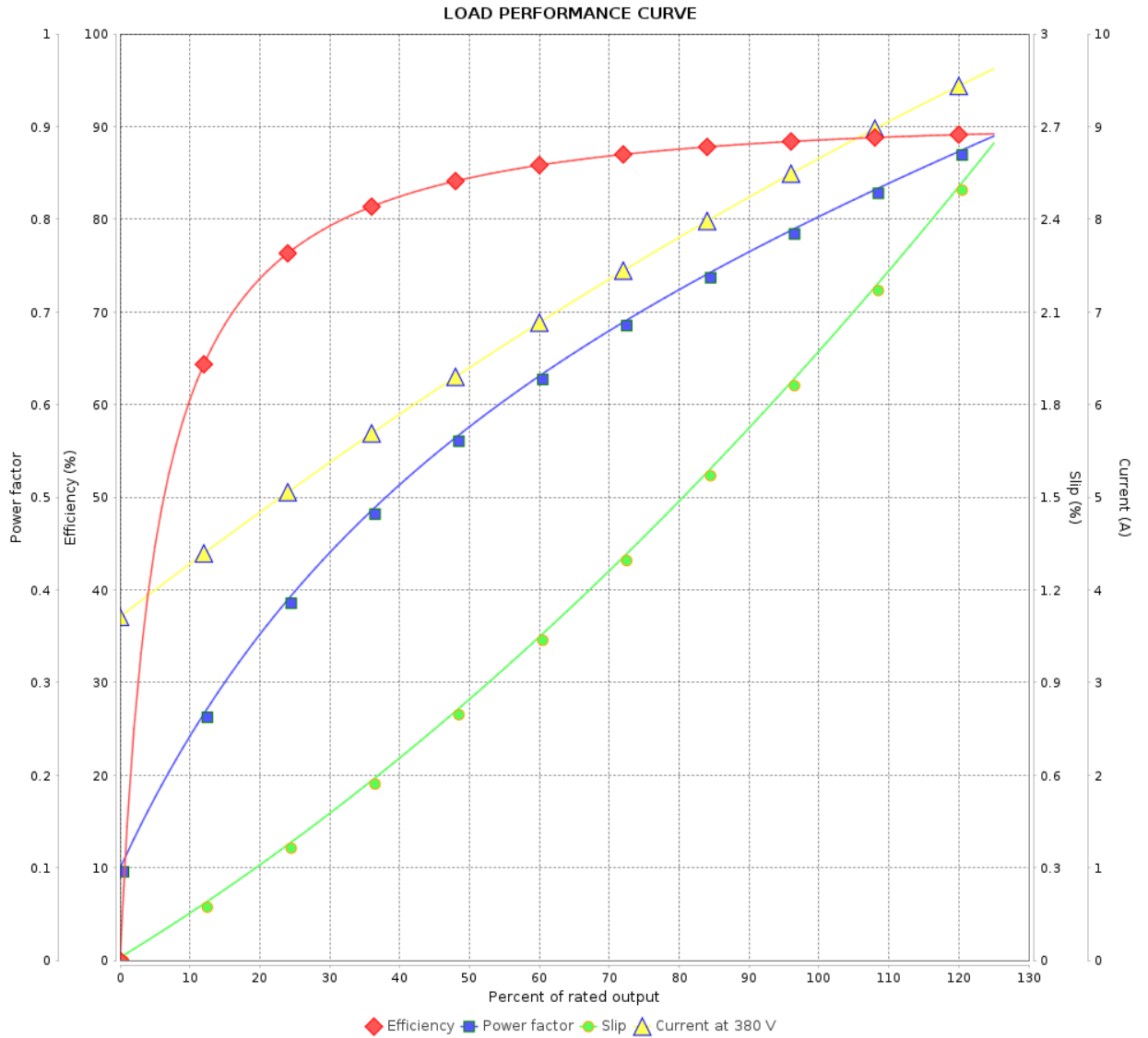
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875



Performance : 380 V 50 Hz 4P IE3

Rated current	: 8.57 A	Moment of inertia (J)	: 0.0388 kgm ²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 2.72 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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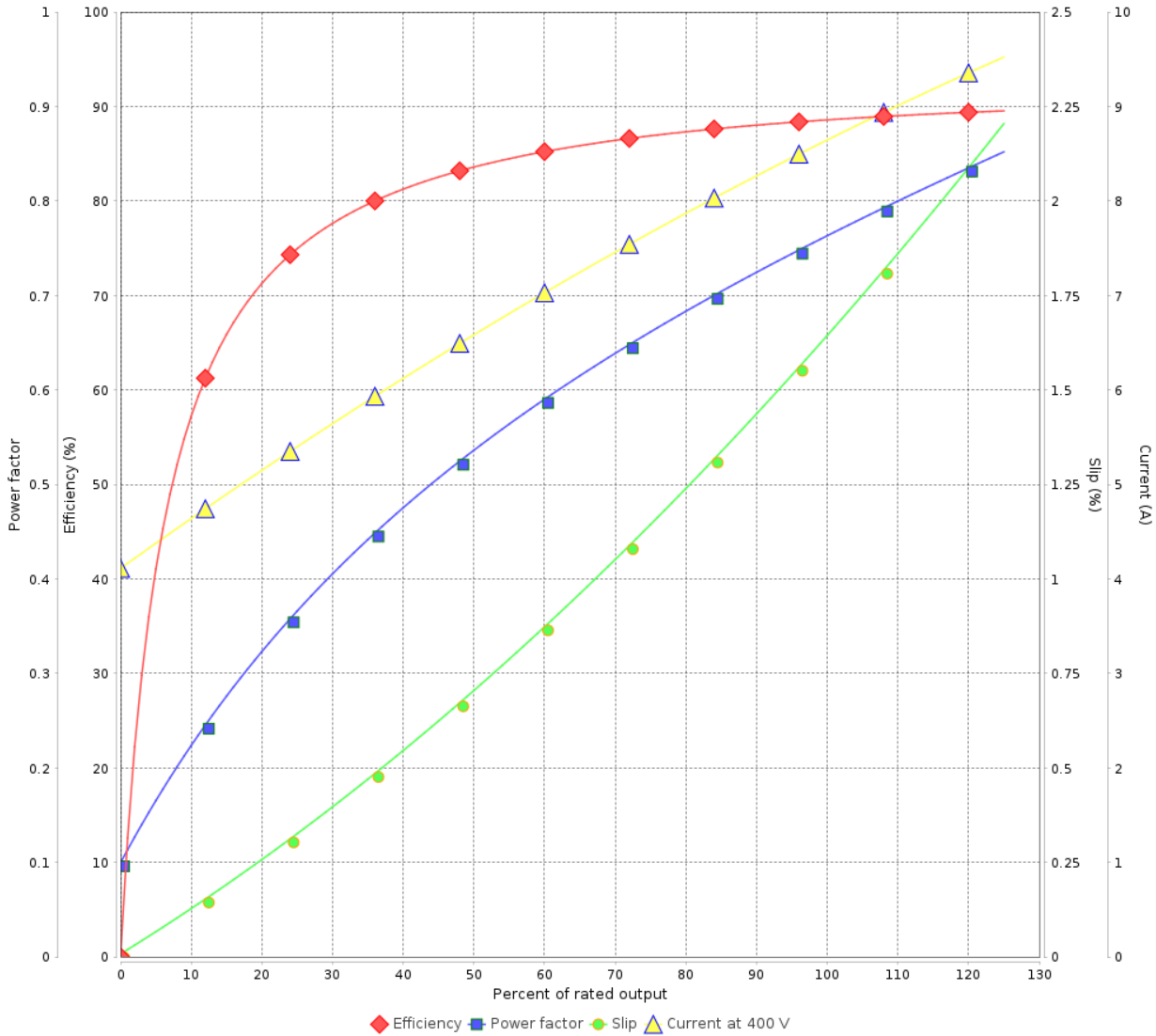
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875

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Performance : 400 V 50 Hz 4P IE3

Rated current	: 8.57 A	Moment of inertia (J)	: 0.0388 kgm ²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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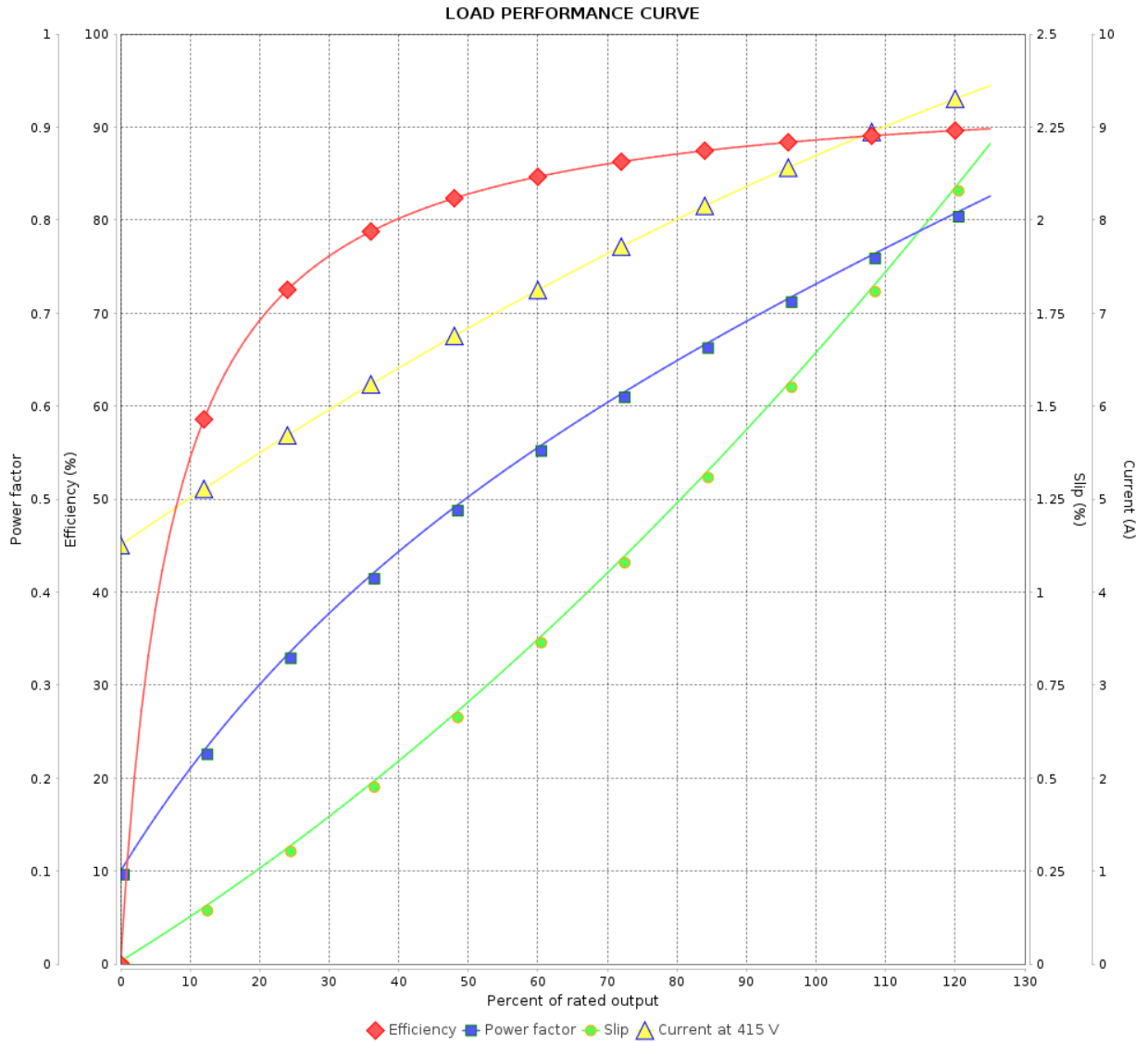
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875



Performance : 415 V 50 Hz 4P IE3

Rated current	: 8.60 A	Moment of inertia (J)	: 0.0388 kgm ²
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.15
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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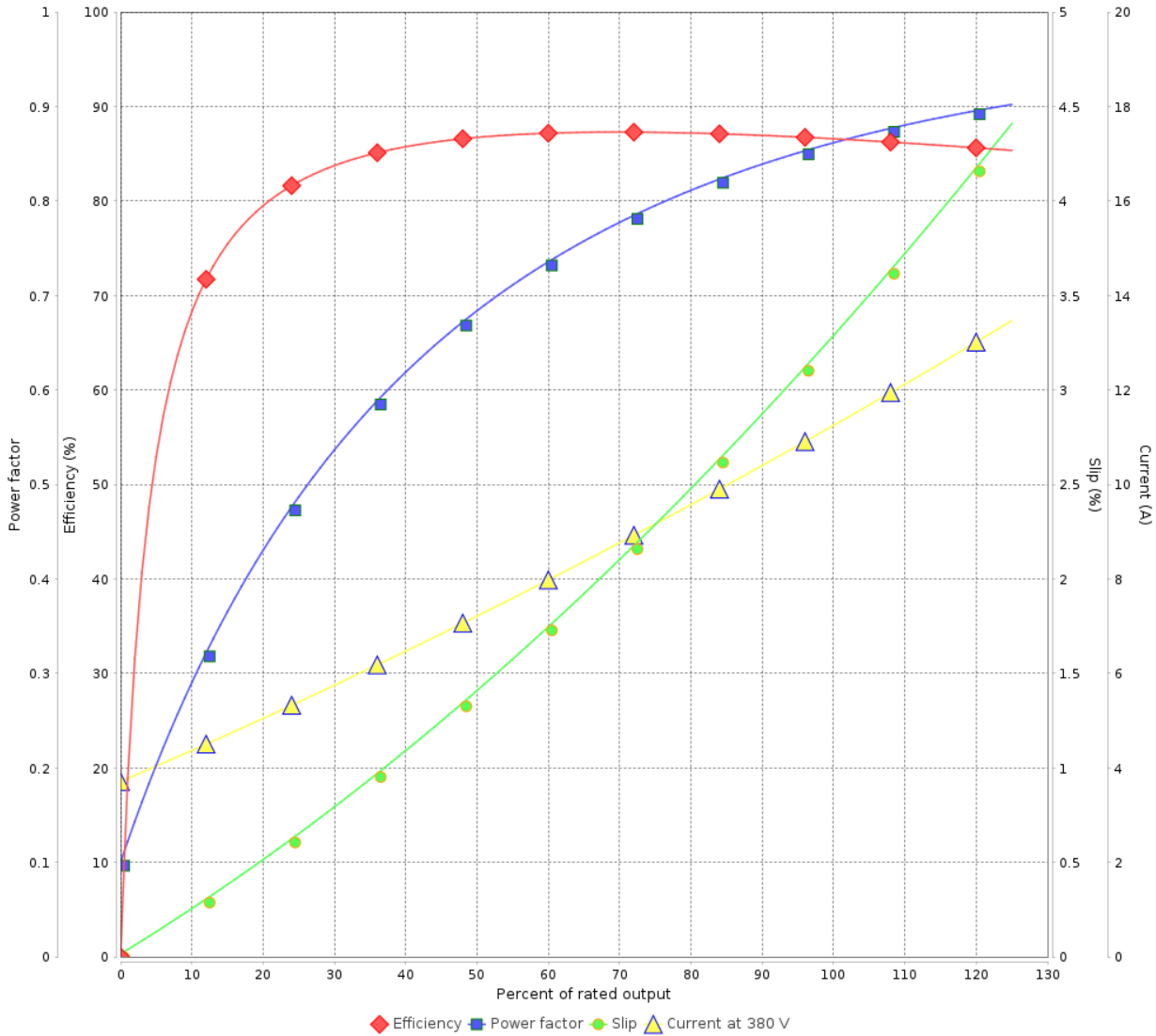
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875

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Performance : 380 V 50 Hz 4P IE1

Rated current	: 11.2 A	Moment of inertia (J)	: 0.0388 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.75 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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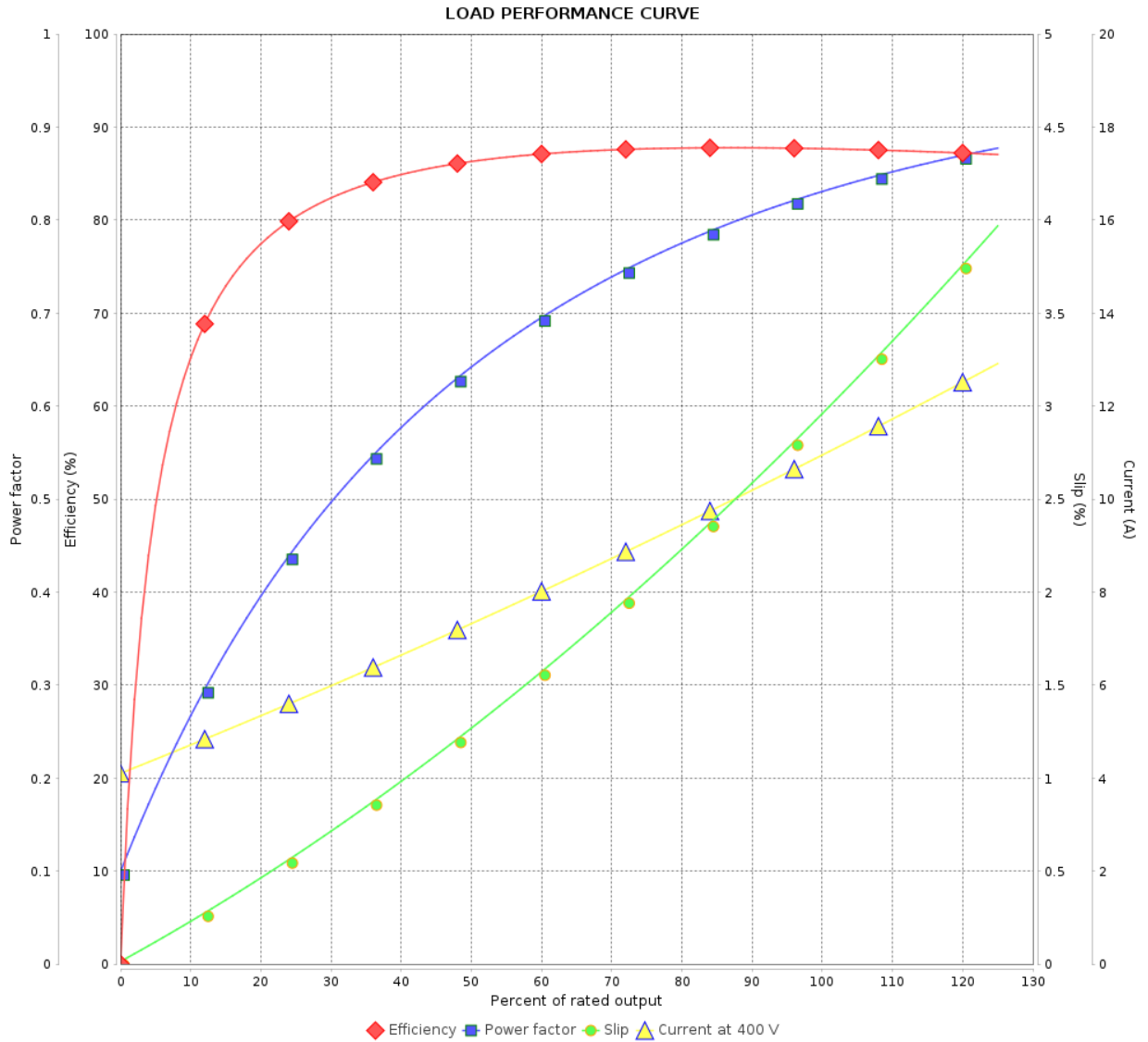
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875



Performance : 400 V 50 Hz 4P IE2

Rated current : 10.9 A
 LRC : 7.0
 Rated torque : 3.74 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 290 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0388 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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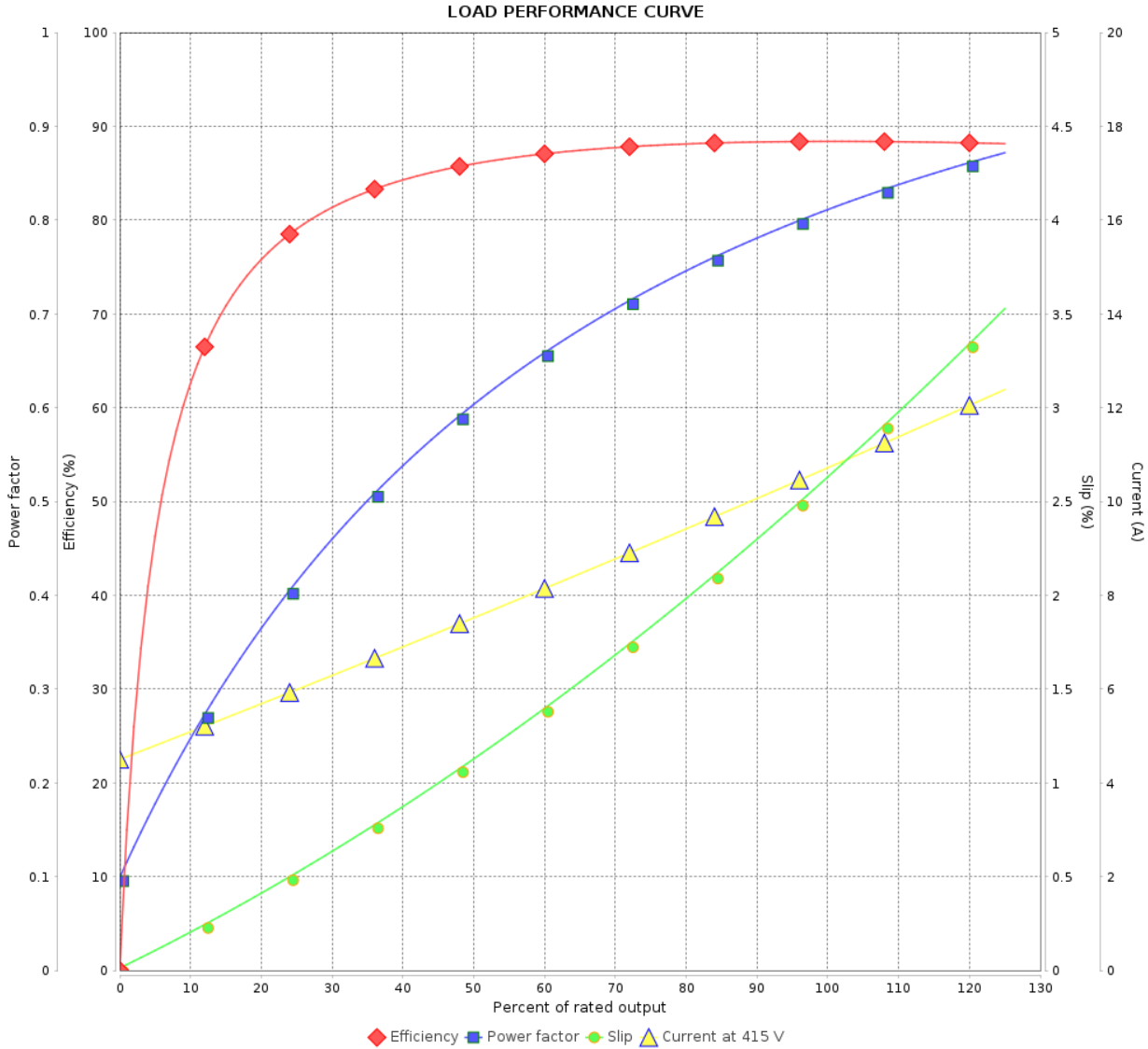
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 11995875



Performance : 415 V 50 Hz 4P IE2

Rated current	: 10.7 A	Moment of inertia (J)	: 0.0388 kgm ²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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