

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10015863				
Frame	: 213/5T	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	: 56.4 kg				
Protection degree	: IP21	Moment of inertia (J)	: 0.0243 kgm ²				
Design	: B						
Output [HP]	15	10	10	10	15	15	15
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	34.8/17.4	14.3	13.7	13.4	21.5	20.6	19.9
L. R. Amperes [A]	251/125	93.0	95.9	93.8	112	122	127
LRC [A]	7.2x(Code H)	6.5x(Code G)	7.0x(Code H)	7.0x(Code H)	5.2x(Code E)	5.9x(Code G)	6.4x(Code G)
No load current [A]	11.6/5.80	5.50	5.60	5.70	5.12	5.90	6.68
Rated speed [RPM]	3515	2930	2935	2935	2885	2900	2910
Slip [%]	2.36	2.33	2.17	2.17	3.83	3.33	3.00
Rated torque [kgfm]	3.10	2.48	2.47	2.47	3.77	3.75	3.74
Locked rotor torque [%]	210	210	229	250	170	190	210
Breakdown torque [%]	270	280	310	330	229	260	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	16s (cold) 9s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level ²	69.0 dB(A)						
Efficiency (%)	25%						
	50%	90.2	88.0	88.0	89.0	86.5	86.5
	75%	91.0	90.0	90.0	90.0	86.5	86.5
	100%	91.0	90.5	90.5	90.7	86.5	86.5
Power Factor	25%						
	50%	0.73	0.75	0.74	0.70	0.84	0.80
	75%	0.82	0.85	0.83	0.81	0.89	0.86
	100%	0.87	0.88	0.87	0.86	0.90	0.89
Bearing type	: Drive end : 6208 ZZ Non drive end : 6206 ZZ	Foundation loads					
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 172 kgf				
Lubrication interval	: -	Max. compression	: 229 kgf				
Lubricant amount	: -						
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 38.5A SF 1.15 SFA 44.3A							
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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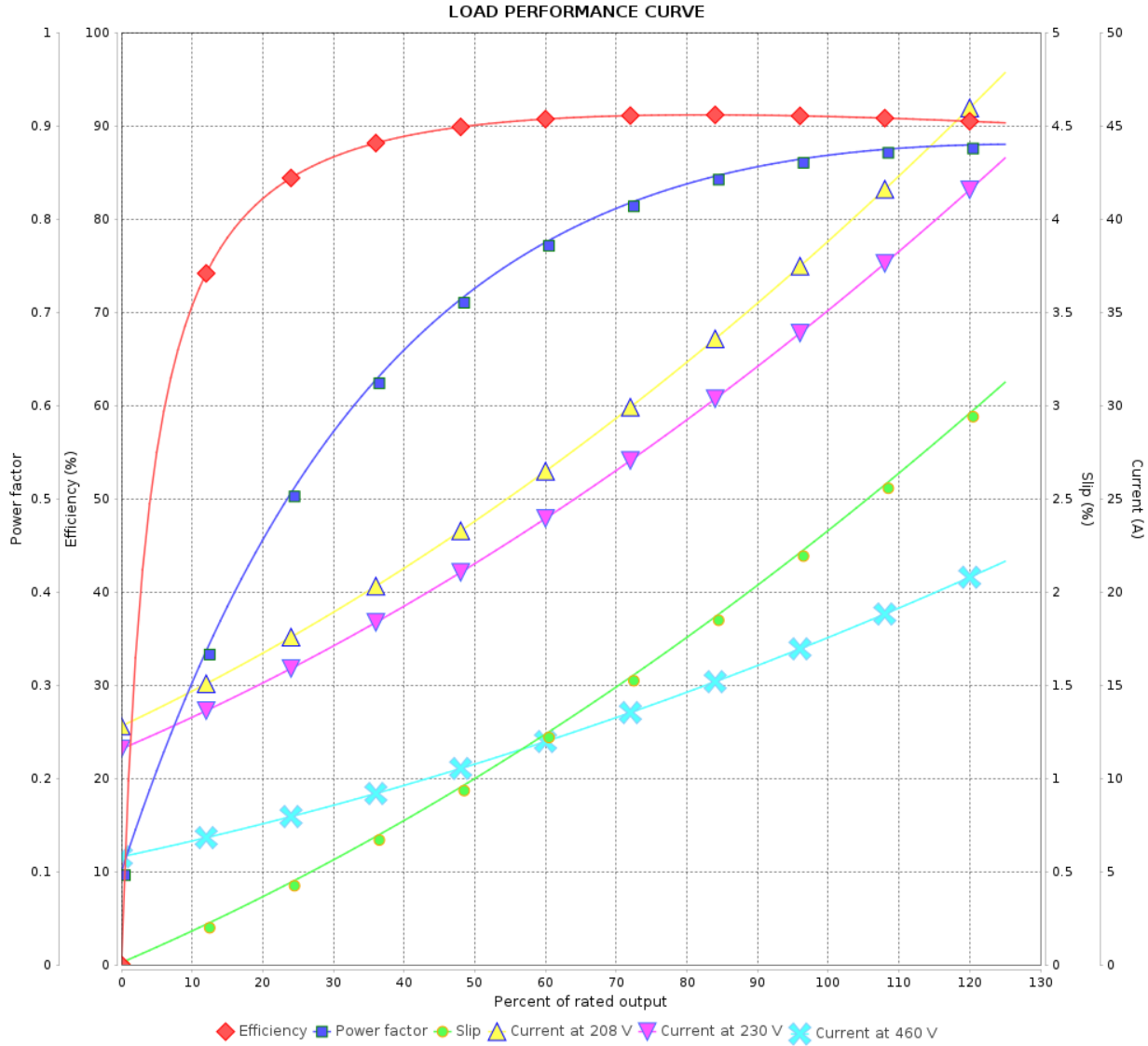
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015863



Performance : 230/460 V 60 Hz 2P

Rated current : 34.8/17.4 A
 LRC : 7.2
 Rated torque : 3.10 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 270 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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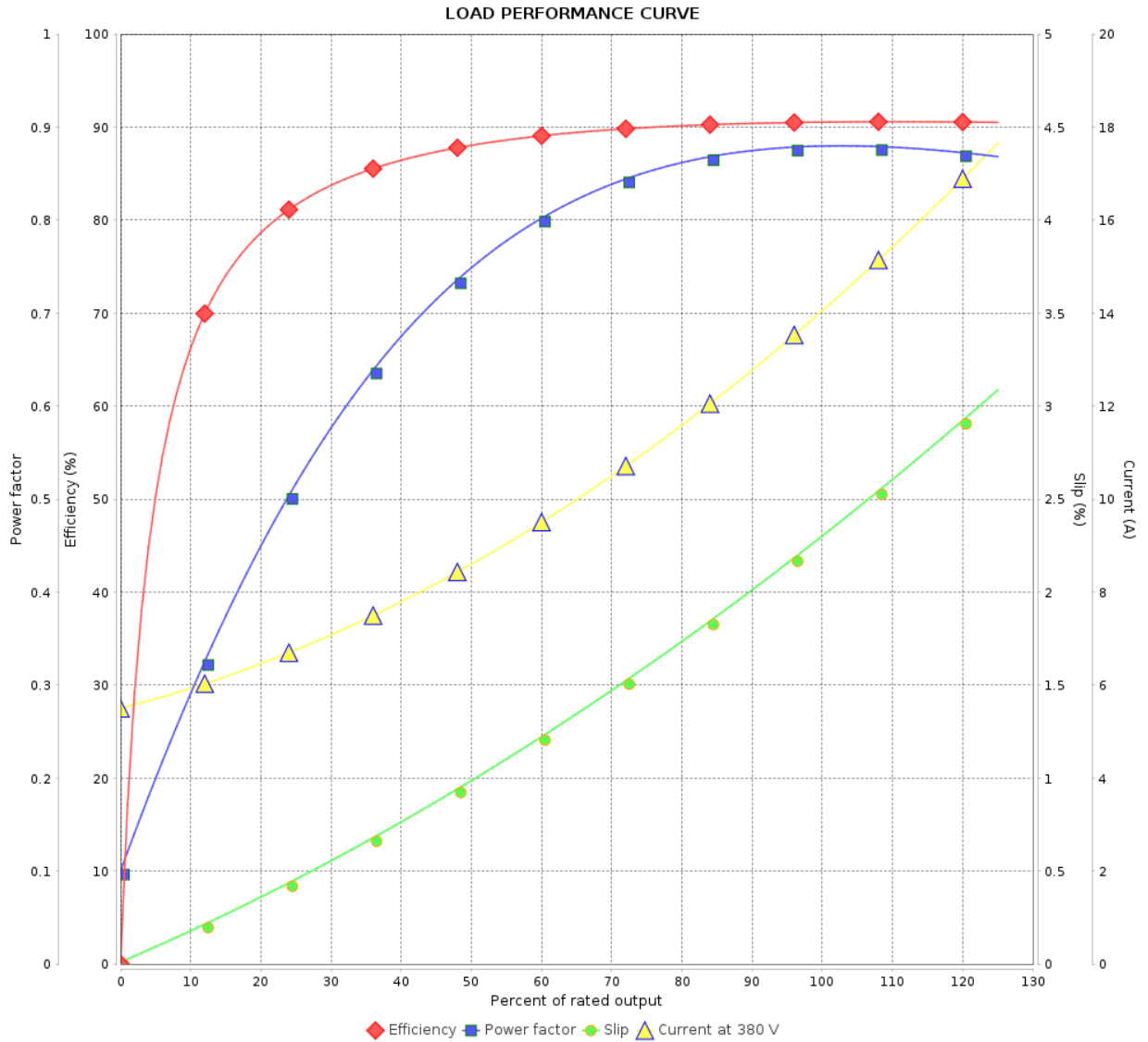
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015863



Performance : 380 V 50 Hz 2P IE3

Rated current	: 14.3 A	Moment of inertia (J)	: 0.0243 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.48 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

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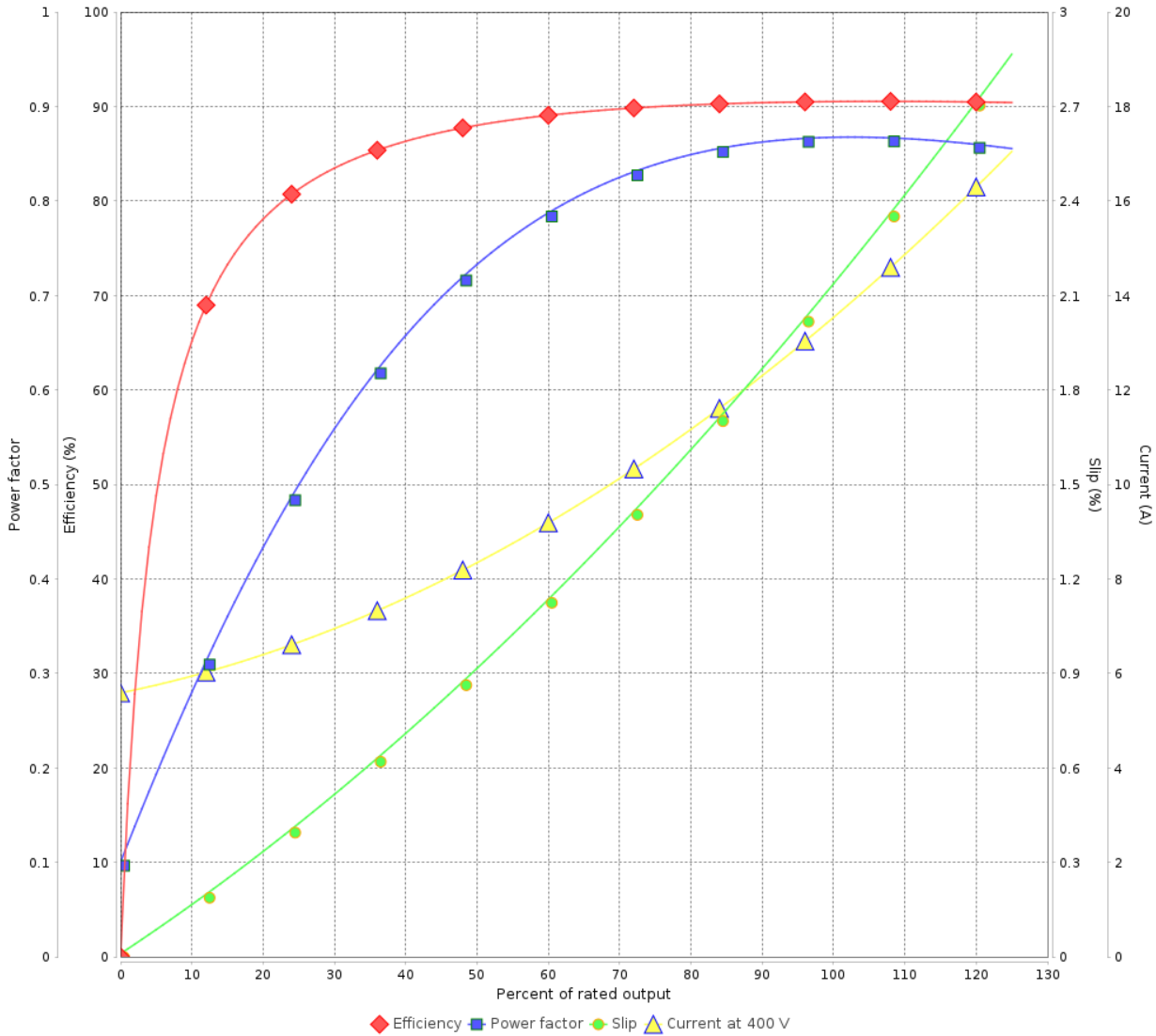
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015863

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Performance : 400 V 50 Hz 2P IE3

Rated current	: 13.7 A	Moment of inertia (J)	: 0.0243 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.47 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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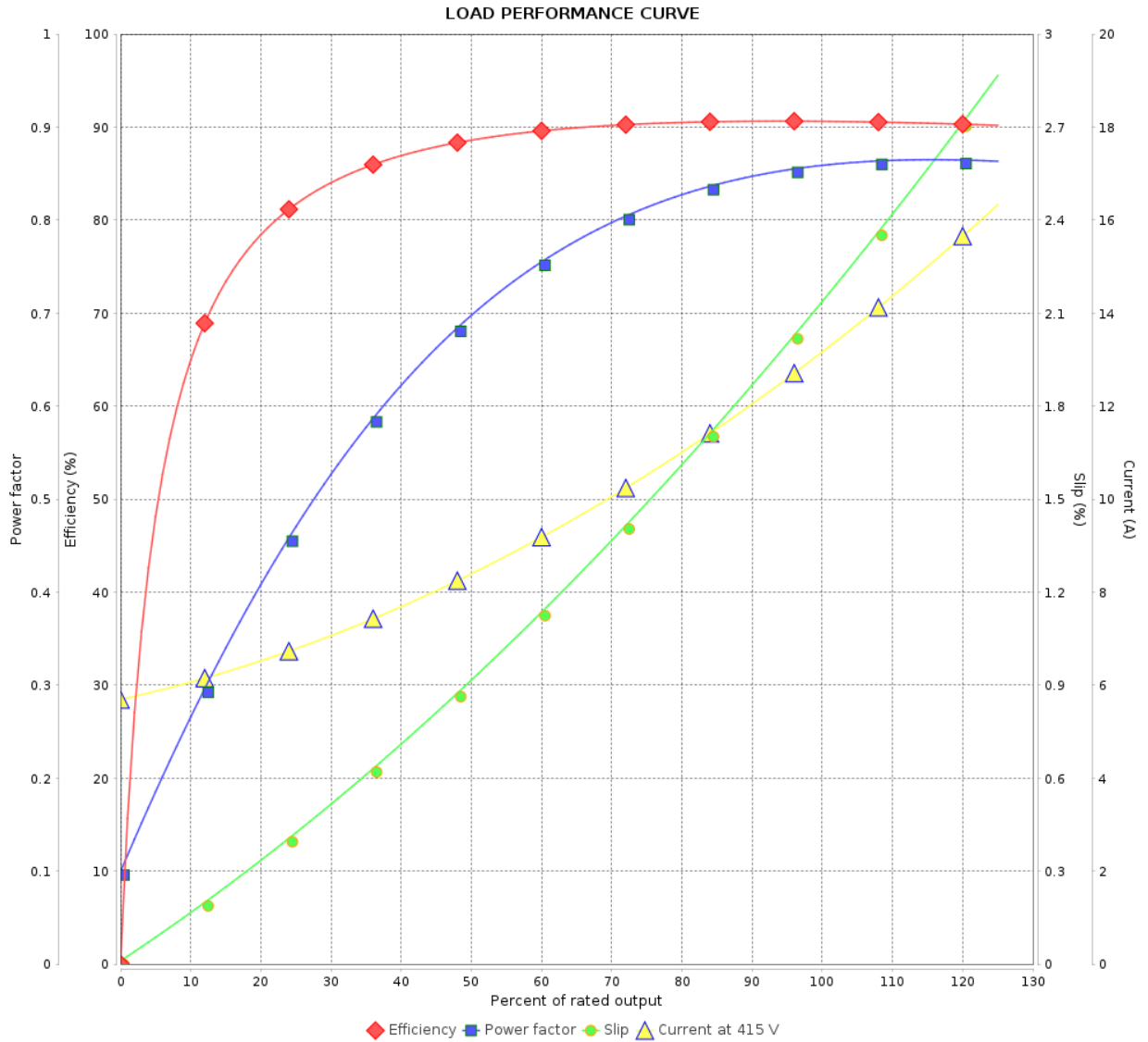
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015863



Performance : 415 V 50 Hz 2P IE3

Rated current : 13.4 A
 LRC : 7.0
 Rated torque : 2.47 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 330 %
 Rated speed : 2935 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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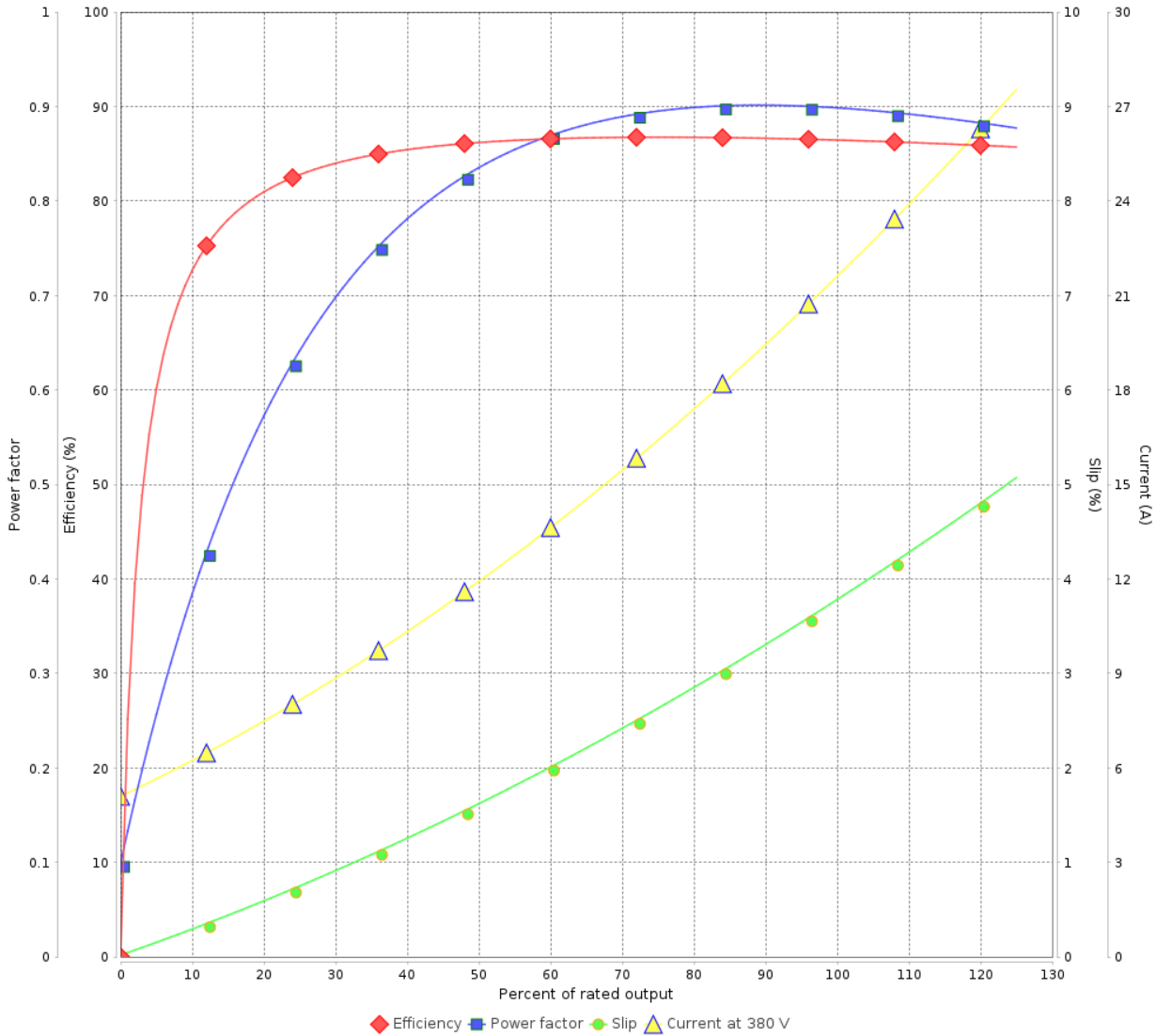
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Performance : 380 V 50 Hz 2P

Rated current	: 21.5 A	Moment of inertia (J)	: 0.0243 kgm ²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.77 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

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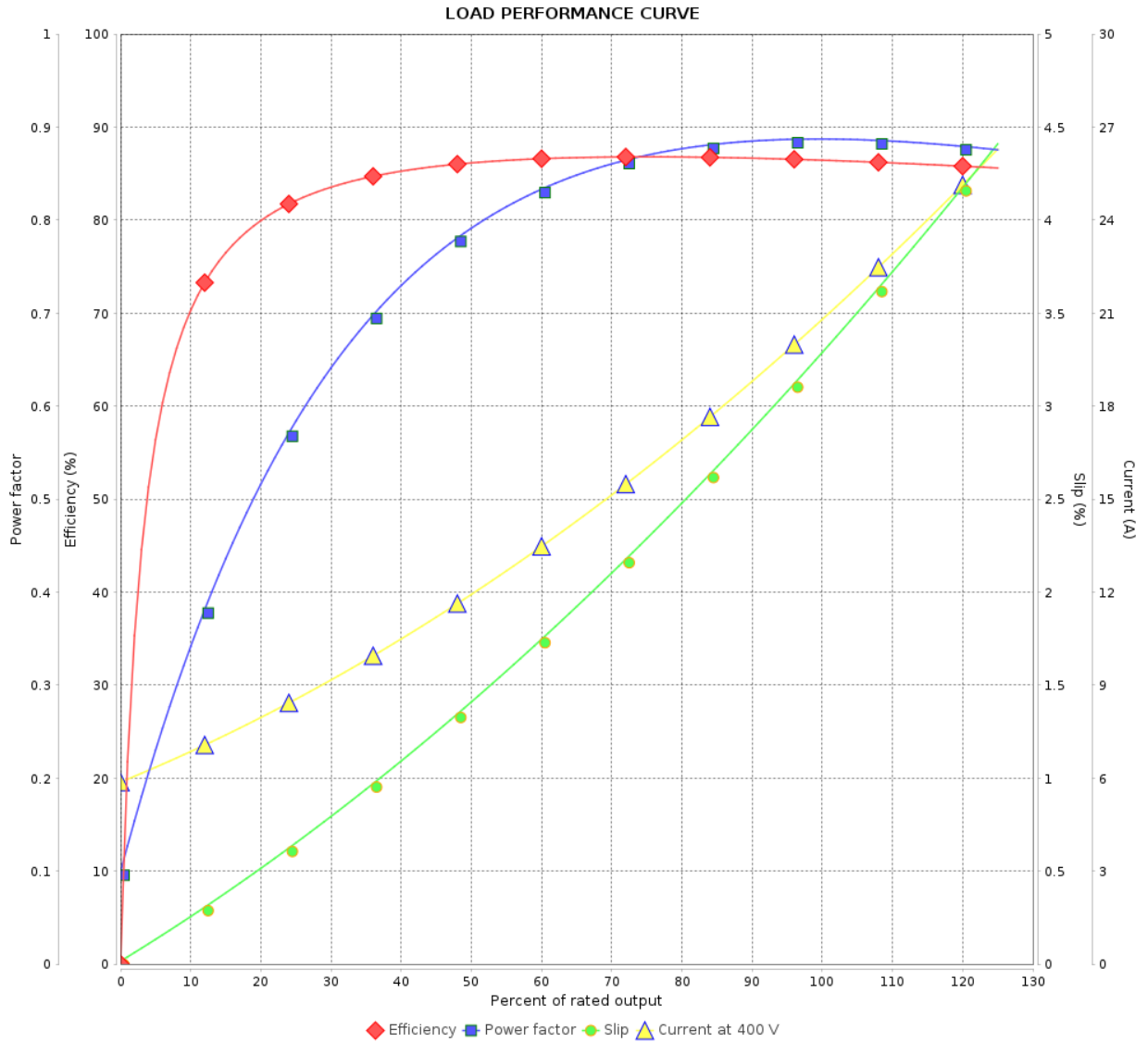
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 400 V 50 Hz 2P

Rated current : 20.6 A
 LRC : 5.9
 Rated torque : 3.75 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 260 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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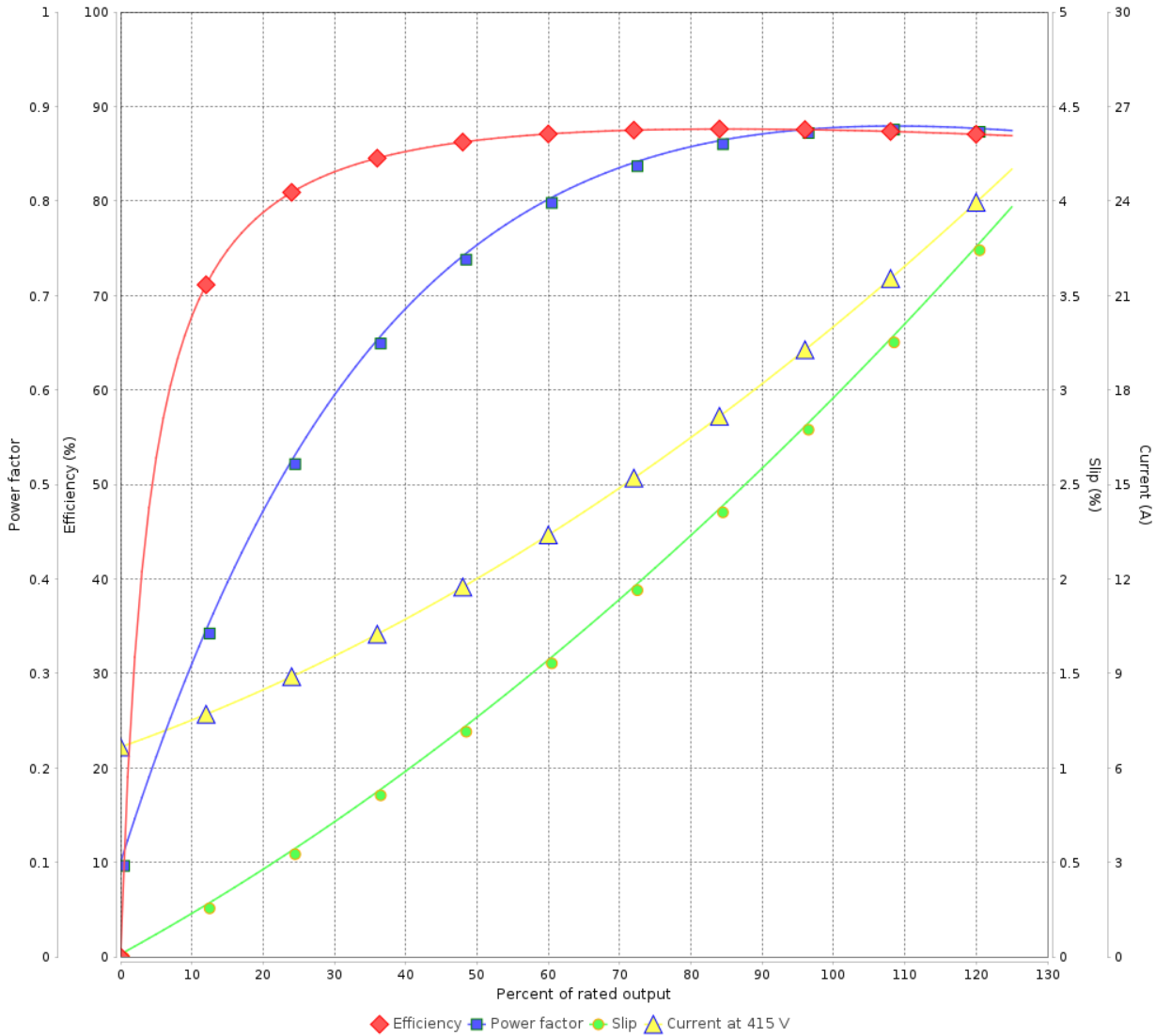
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015863

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P

Rated current	: 19.9 A	Moment of inertia (J)	: 0.0243 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 3.74 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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