

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10015860				
Frame	: 182T	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	: 26.2 kg				
Protection degree	: IP21	Moment of inertia (J)	: 0.0054 kgm ²				
Design	: B						
Output [HP]	5	4	4	4	5	5	5
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]	12.3/6.17	6.16	5.99	5.98	7.47	7.26	7.08
L. R. Amperes [A]	86.4/43.2	40.0	42.5	45.4	40.3	42.8	45.3
LRC [A]	7.0x(Code H)	6.5x(Code H)	7.1x(Code J)	7.6x(Code K)	5.4x(Code F)	5.9x(Code G)	6.4x(Code H)
No load current [A]	4.80/2.40	2.10	2.80	3.50	2.10	2.80	3.50
Rated speed [RPM]	3490	2890	2905	2915	2855	2875	2890
Slip [%]	3.06	3.67	3.17	2.83	4.83	4.17	3.67
Rated torque [kgfm]	1.04	1.00	0.999	0.996	1.27	1.26	1.26
Locked rotor torque [%]	200	190	210	229	150	170	180
Breakdown torque [%]	280	290	330	370	229	260	290
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.15
Temperature rise	105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time	28s (cold) 16s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level ²	64.0 dB(A)						
Efficiency (%)	25%						
	50%	87.5	83.0	82.6	81.7	84.0	84.0
	75%	88.5	84.8	84.8	84.8	85.5	85.5
	100%	88.5	87.1	87.1	87.2	85.5	86.5
Power Factor	25%						
	50%	0.68	0.69	0.64	0.58	0.75	0.71
	75%	0.80	0.79	0.76	0.72	0.84	0.81
	100%	0.85	0.85	0.83	0.80	0.88	0.86
Bearing type	: Drive end : 6206 ZZ Non drive end : 6205 ZZ	Foundation loads		Max. traction	: 63 kgf		
Sealing	: Without Bearing Seal	Without Bearing Seal	Max. compression	: 89 kgf			
Lubrication interval	: -	-					
Lubricant amount	: -	-					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 13.6A SF 1.15 SFA 15.7A							
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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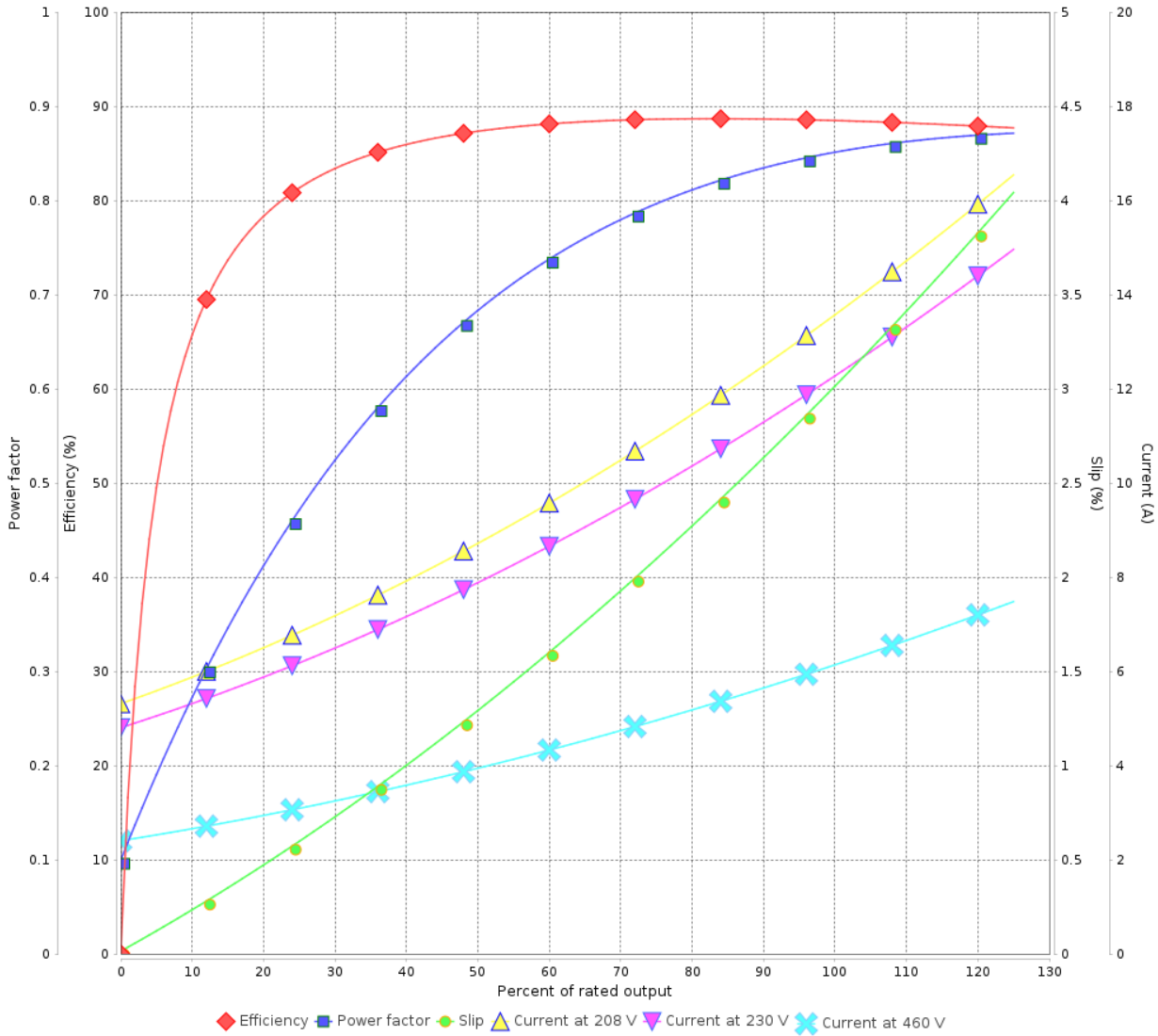
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015860

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Performance : 230/460 V 60 Hz 2P

Rated current : 12.3/6.17 A
 LRC : 7.0
 Rated torque : 1.04 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 3490 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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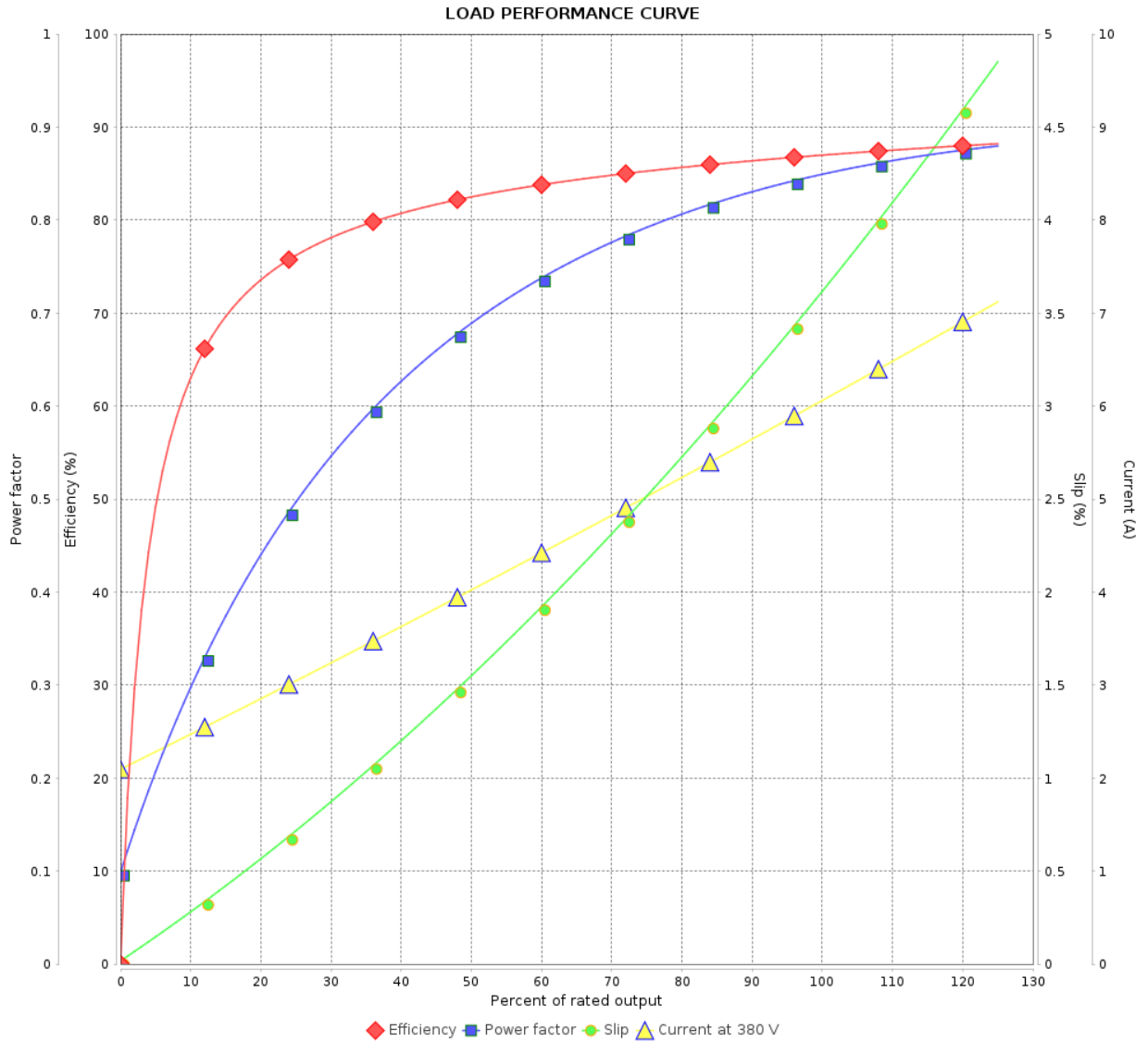
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015860



Performance : 380 V 50 Hz 2P IE3

Rated current : 6.16 A
 LRC : 6.5
 Rated torque : 1.00 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 290 %
 Rated speed : 2890 rpm

Moment of inertia (J) : 0.0054 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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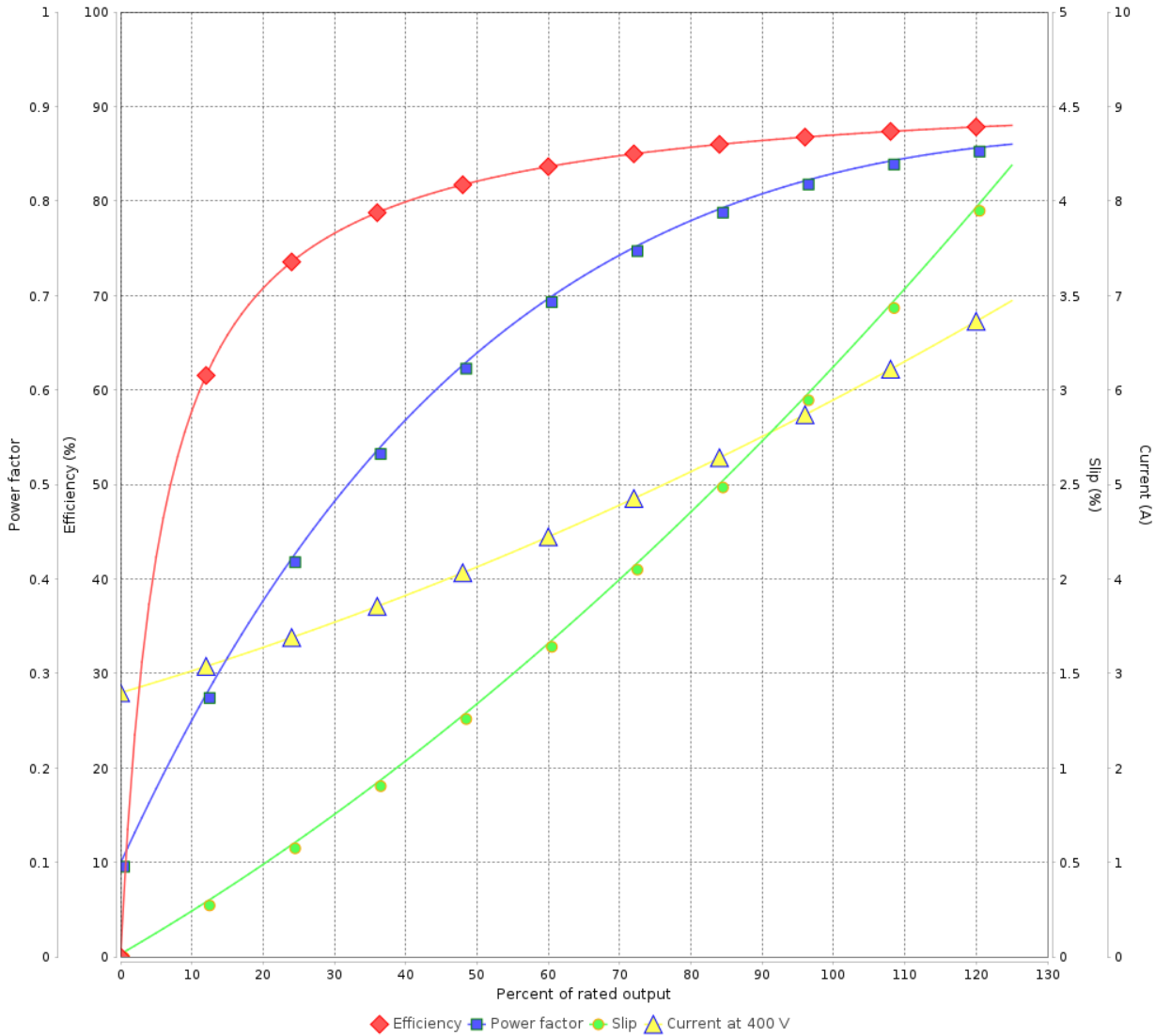
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015860

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Performance : 400 V 50 Hz 2P IE3

Rated current	: 5.99 A	Moment of inertia (J)	: 0.0054 kgm ²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 0.999 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 105 K
Rated speed	: 2905 rpm	Design	: B

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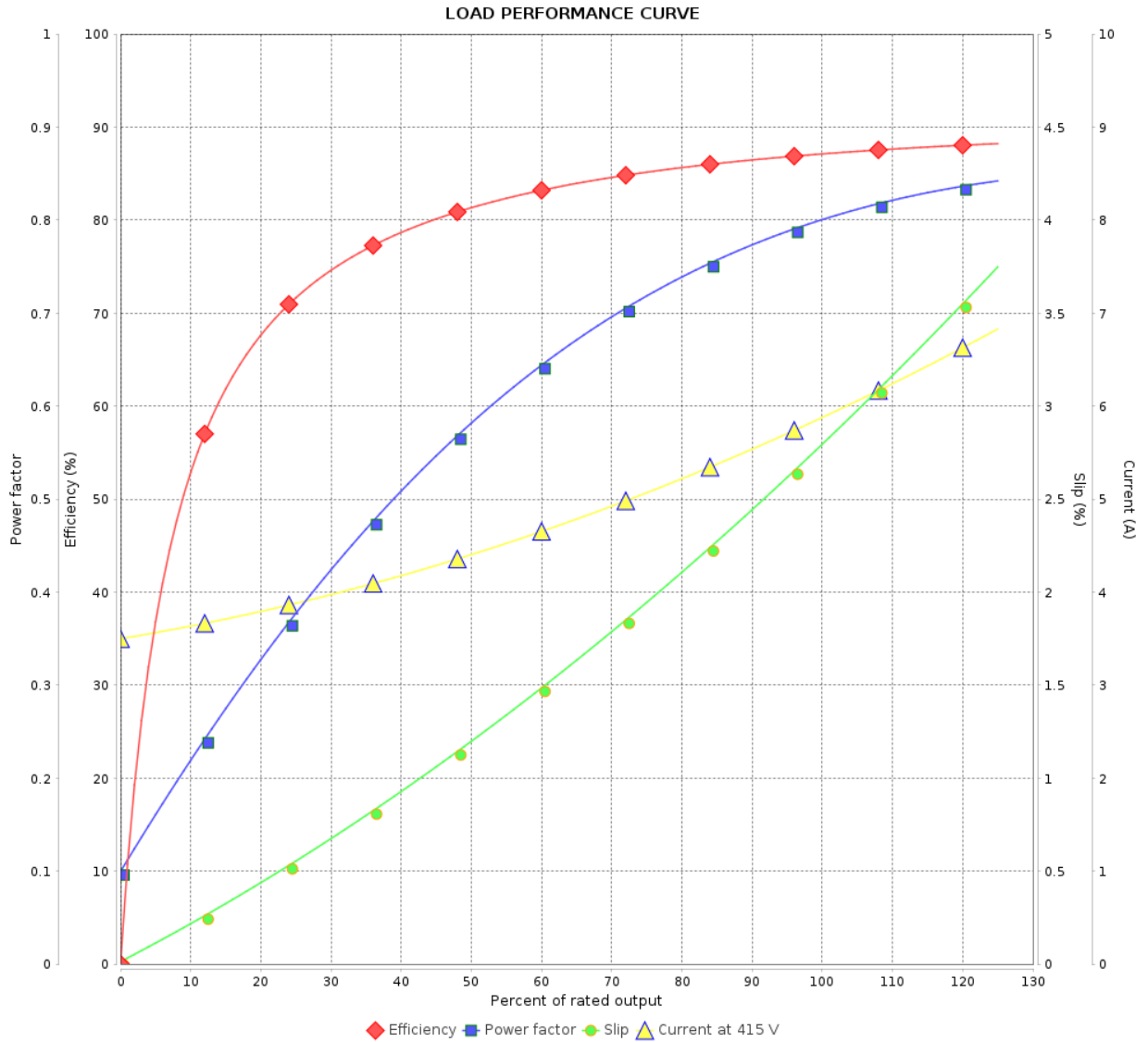
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015860



Performance : 415 V 50 Hz 2P IE3

Rated current	: 5.98 A	Moment of inertia (J)	: 0.0054 kgm ²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.996 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 105 K
Rated speed	: 2915 rpm	Design	: B

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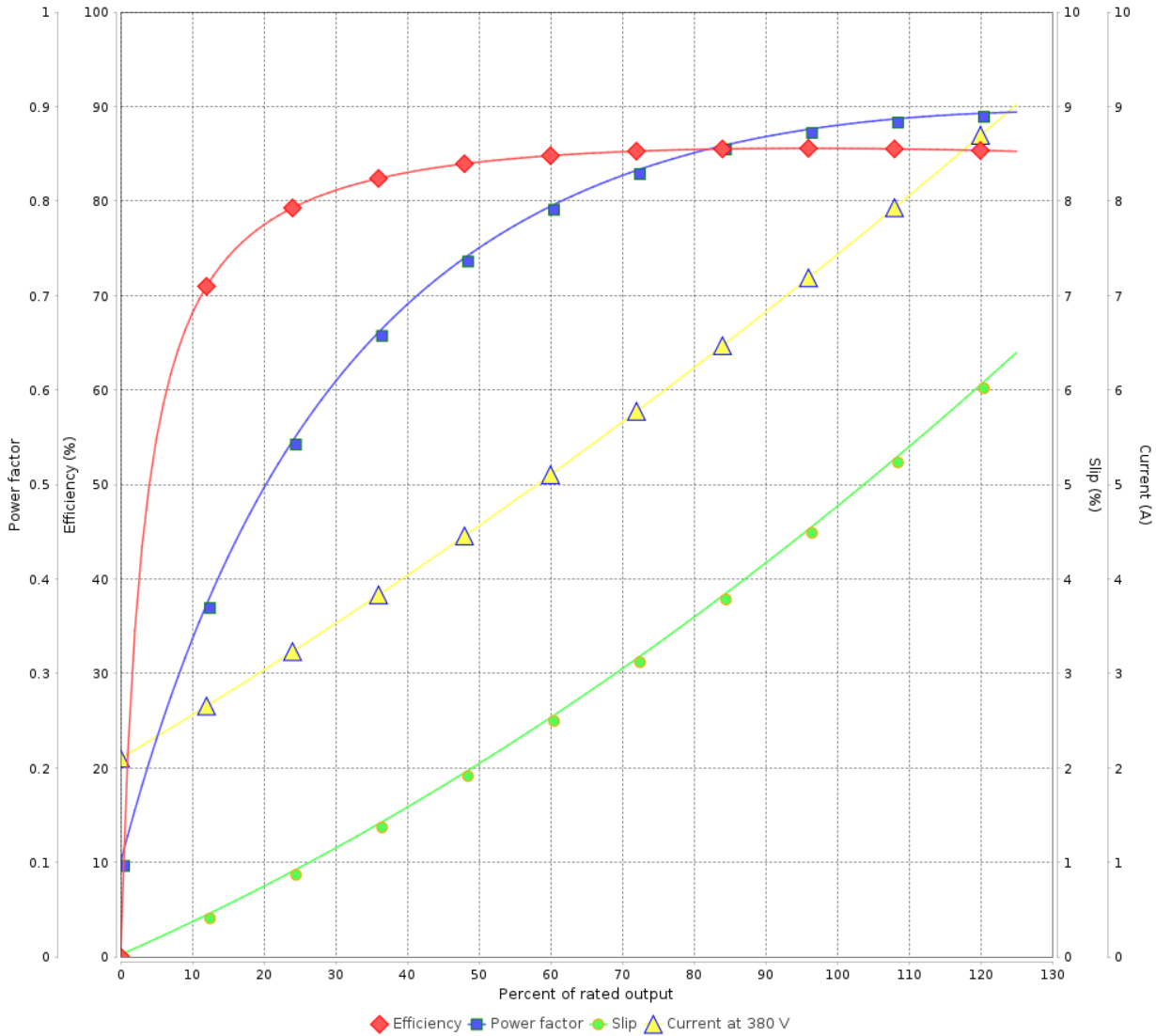
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 380 V 50 Hz 2P IE2

Rated current	: 7.47 A	Moment of inertia (J)	: 0.0054 kgm ²
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.27 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2855 rpm	Design	: B

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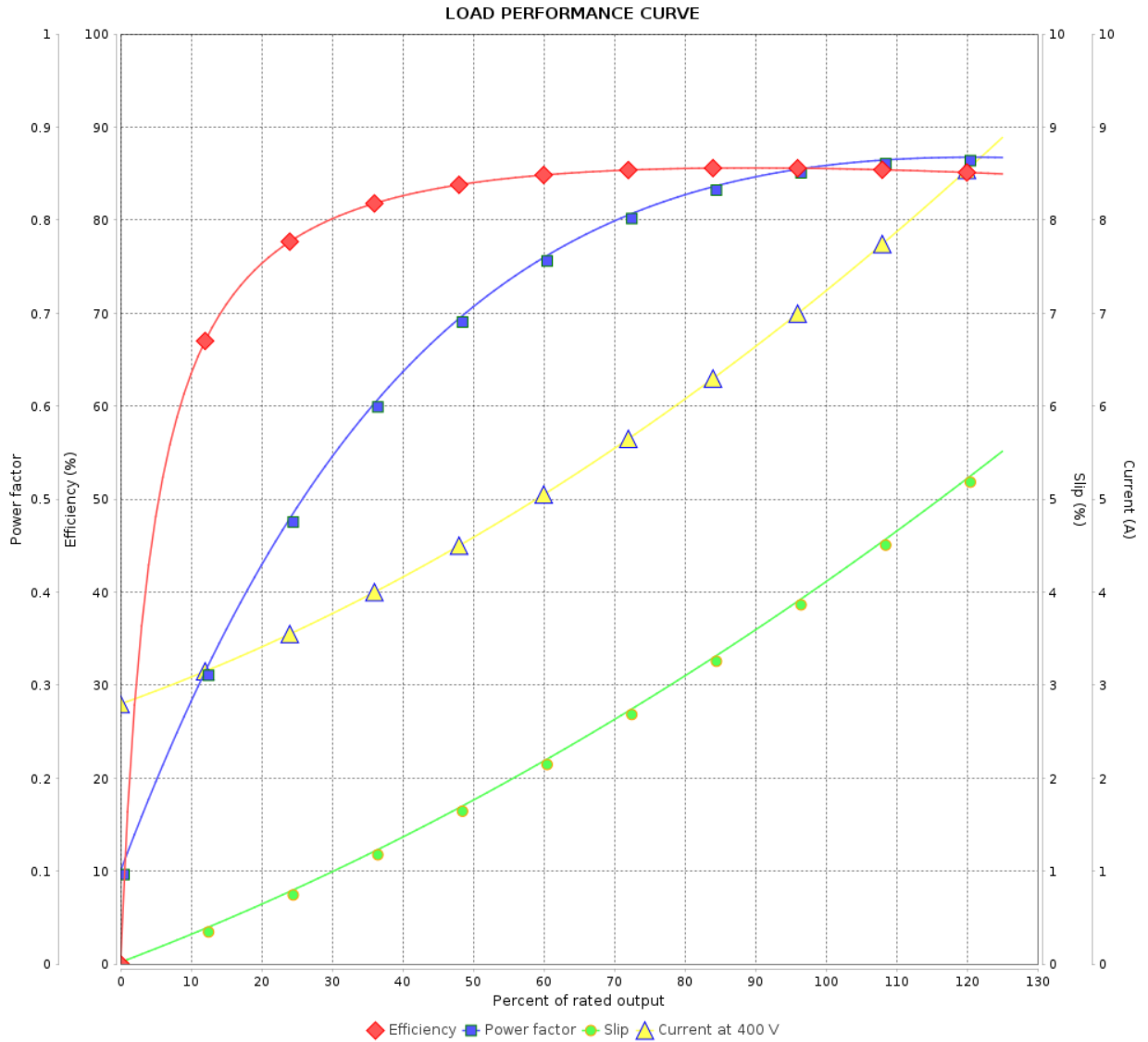
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015860



Performance : 400 V 50 Hz 2P IE2

Rated current	: 7.26 A	Moment of inertia (J)	: 0.0054 kgm ²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 2875 rpm	Design	: B

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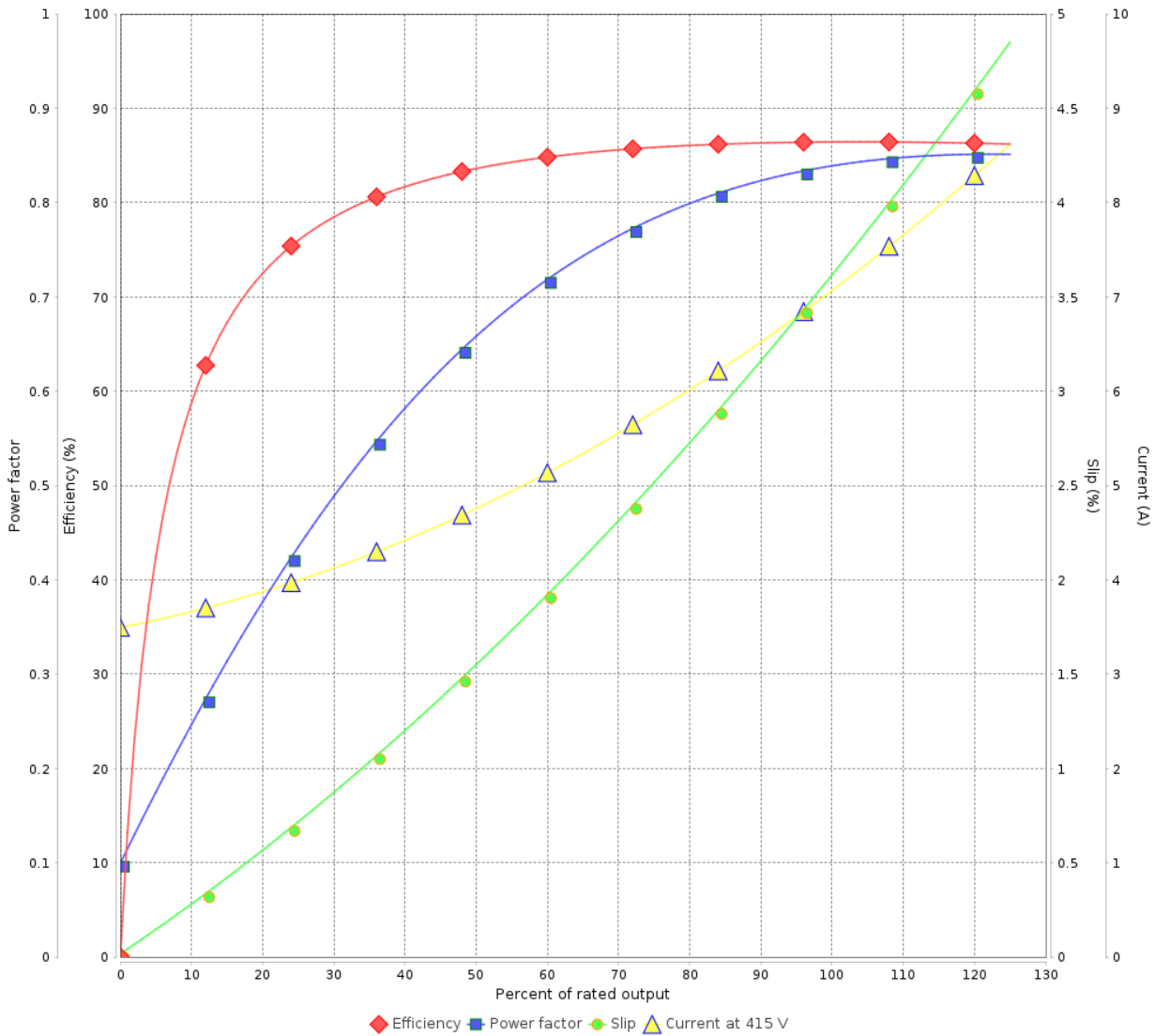
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015860

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Performance : 415 V 50 Hz 2P IE2

Rated current	: 7.08 A	Moment of inertia (J)	: 0.0054 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.26 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 2890 rpm	Design	: B

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