

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10015861				
Frame	: 184T	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	: 30.3 kg				
Protection degree	: IP21	Moment of inertia (J)	: 0.0069 kgm ²				
Design	: B						
Output [HP]	7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]	17.9/8.97	7.93	7.80	7.70	11.1	10.6	10.3
L. R. Amperes [A]	126/62.8	56.3	60.1	65.5	57.7	61.5	63.9
LRC [A]	7.0x(Code H)	7.1x(Code H)	7.7x(Code J)	8.5x(Code K)	5.2x(Code F)	5.8x(Code G)	6.2x(Code G)
No load current [A]	5.40/2.70	2.40	2.80	3.20	2.40	2.80	3.20
Rated speed [RPM]	3480	2890	2900	2910	2835	2855	2870
Slip [%]	3.33	3.67	3.33	3.00	5.50	4.83	4.33
Rated torque [kgfm]	1.56	1.38	1.38	1.37	1.92	1.91	1.90
Locked rotor torque [%]	210	210	250	260	150	180	190
Breakdown torque [%]	280	310	330	360	220	240	260
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise	105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time	21s (cold) 12s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)	18s (cold) 10s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)	18s (cold) 10s (hot)
Noise level ²	65.0 dB(A)						
Efficiency (%)	25%						
	50%	87.5	84.7	85.1	84.8	83.5	86.5
	75%	88.5	85.7	86.6	86.6	84.0	86.5
	100%	88.5	88.1	88.1	88.1	84.7	85.5
Power Factor	25%						
	50%	0.73	0.71	0.65	0.61	0.79	0.75
	75%	0.83	0.81	0.77	0.74	0.87	0.84
	100%	0.87	0.87	0.84	0.82	0.89	0.88
Bearing type	: Drive end : 6206 ZZ	Non drive end : 6205 ZZ	Foundation loads				
Sealing	: Without Bearing Seal	Without Bearing Seal	Max. traction : 88 kgf				
Lubrication interval	: -	-	Max. compression : 118 kgf				
Lubricant amount	: -	-					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 19.8A SF 1.15 SFA 22.8A							
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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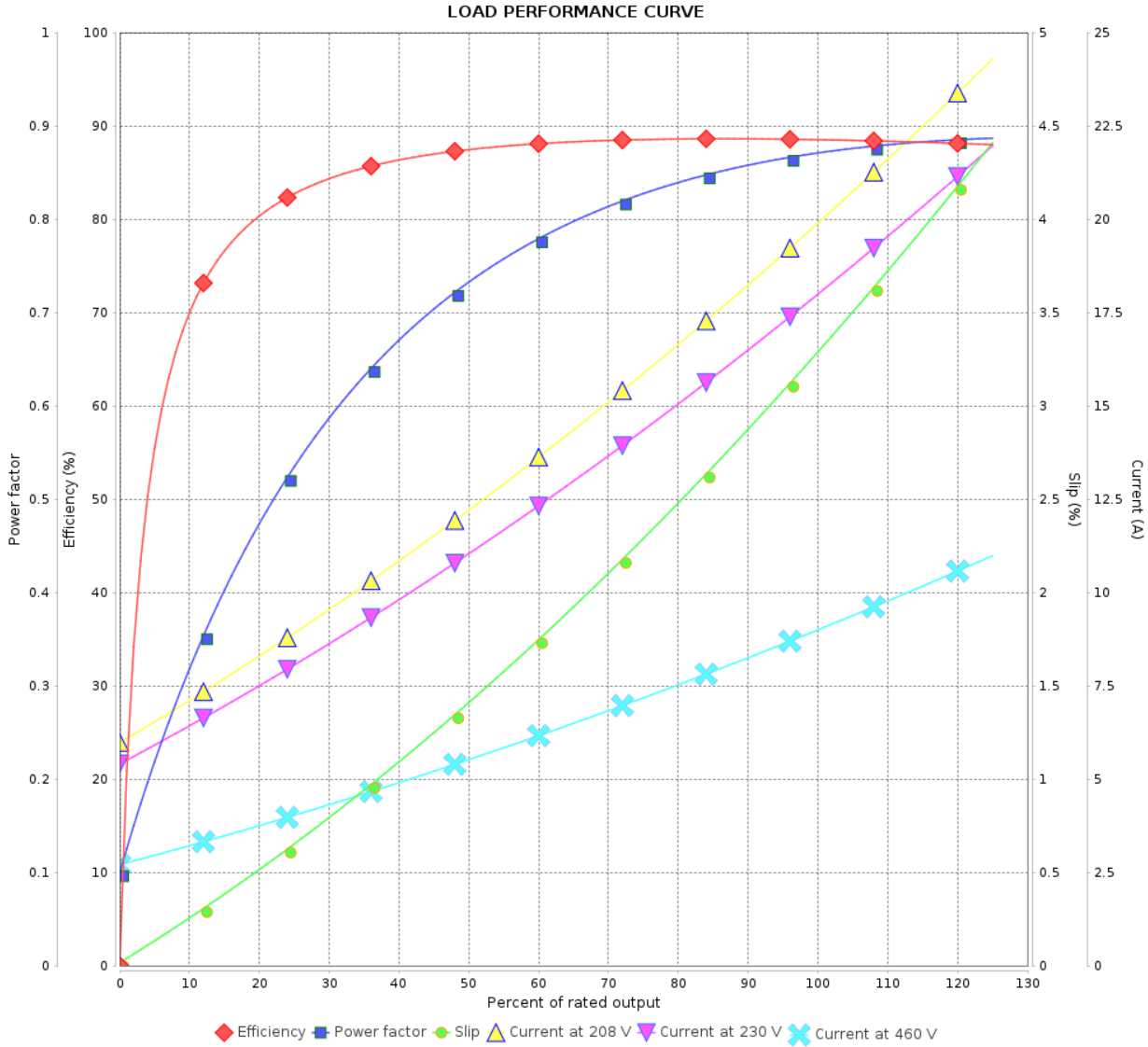
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015861



Performance : 230/460 V 60 Hz 2P

Rated current : 17.9/8.97 A
 LRC : 7.0
 Rated torque : 1.56 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0069 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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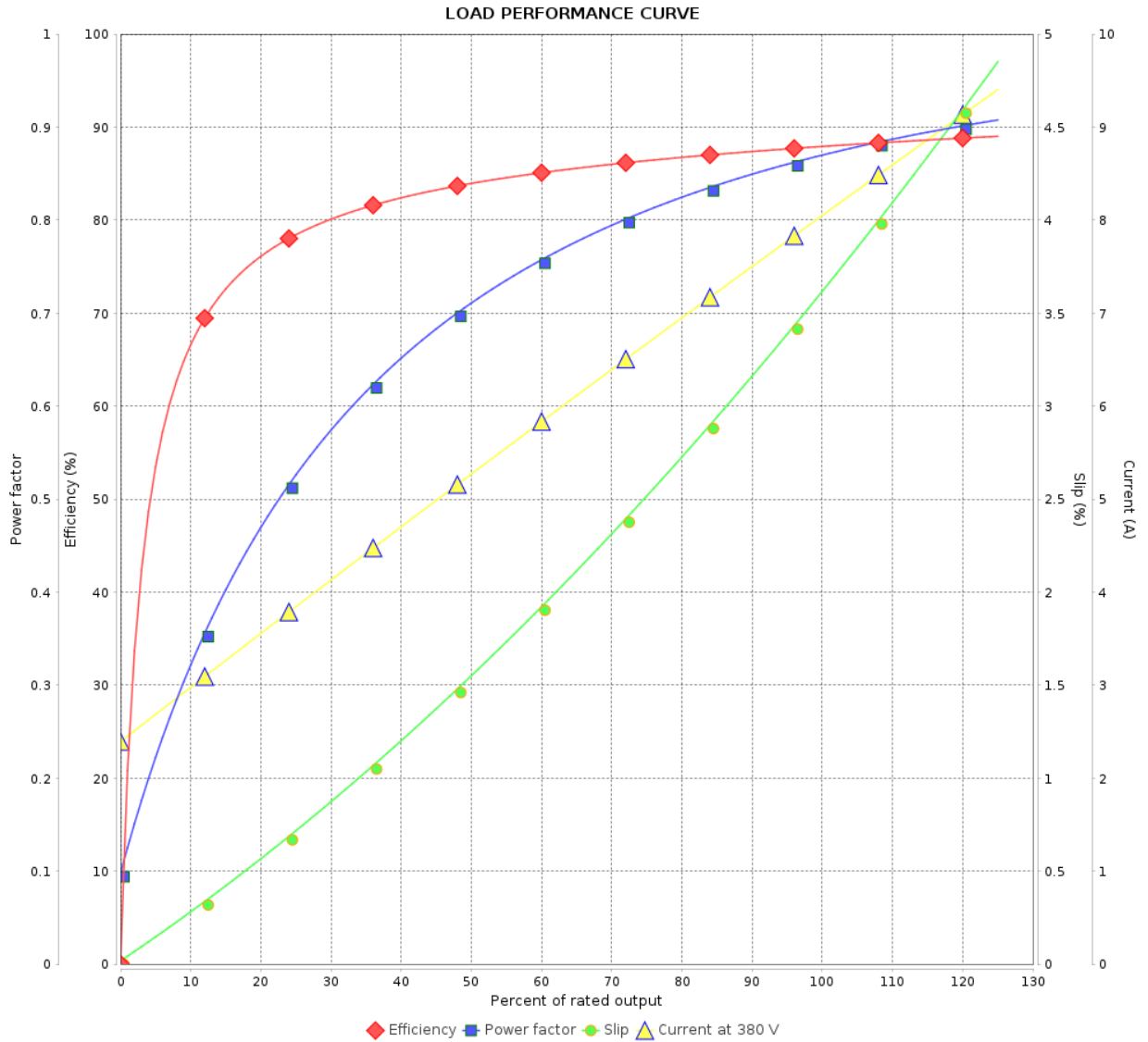
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015861



Performance : 380 V 50 Hz 2P IE3

Rated current	: 7.93 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.38 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 105 K
Rated speed	: 2890 rpm	Design	: B

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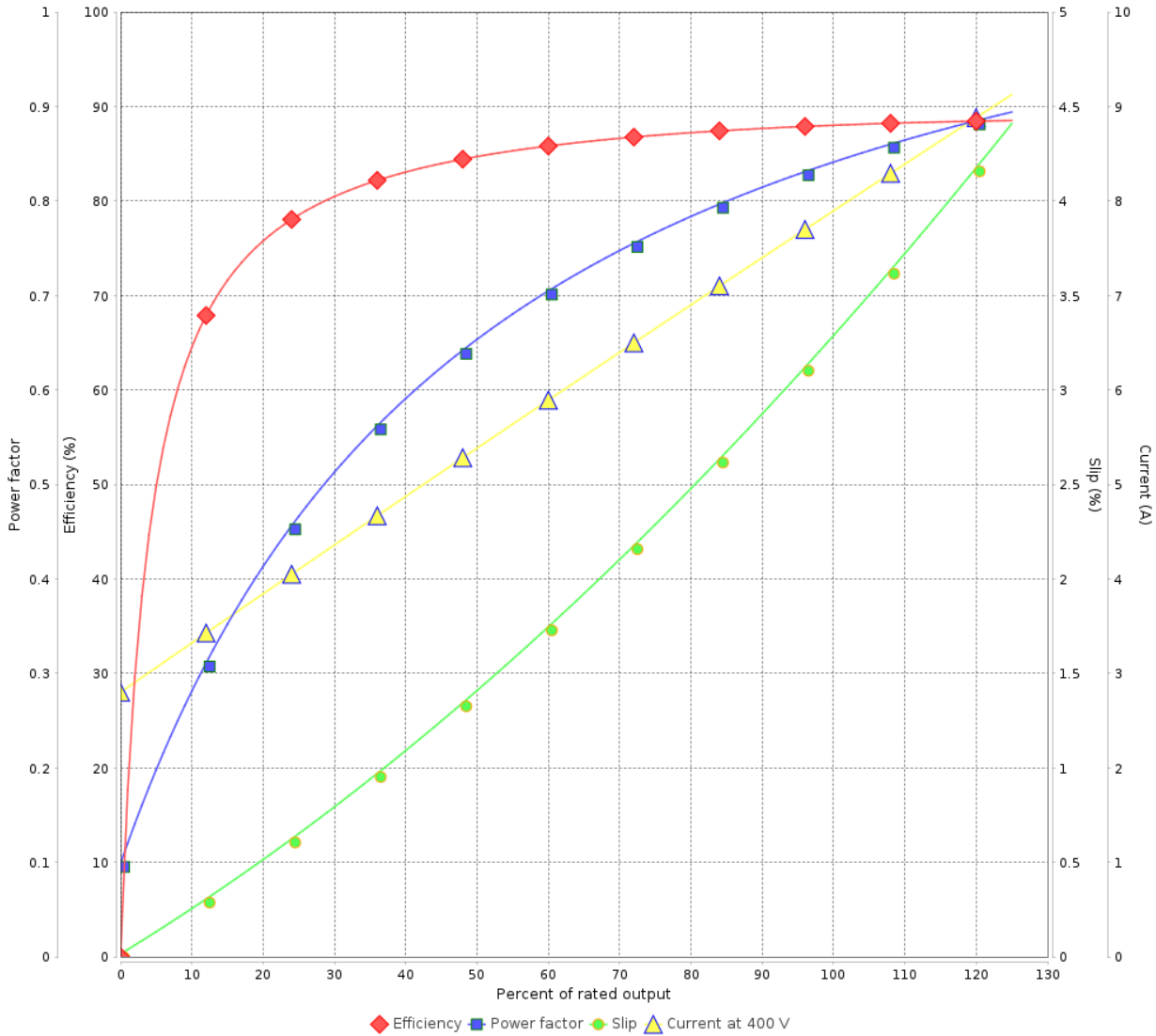
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 400 V 50 Hz 2P IE3

Rated current	: 7.80 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1.38 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 105 K
Rated speed	: 2900 rpm	Design	: B

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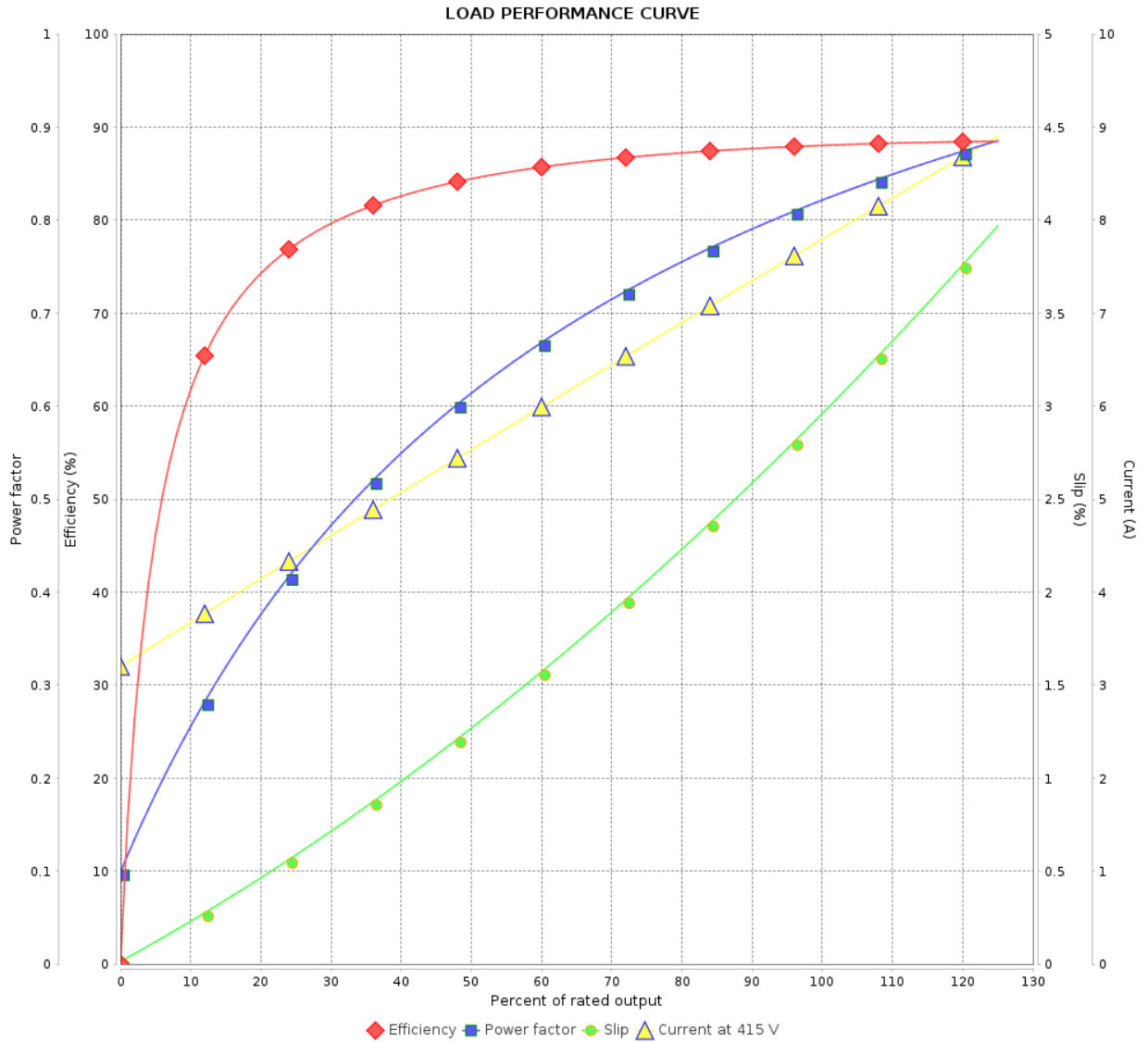
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015861



Performance : 415 V 50 Hz 2P IE3

Rated current : 7.70 A
 LRC : 8.5
 Rated torque : 1.37 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 360 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0069 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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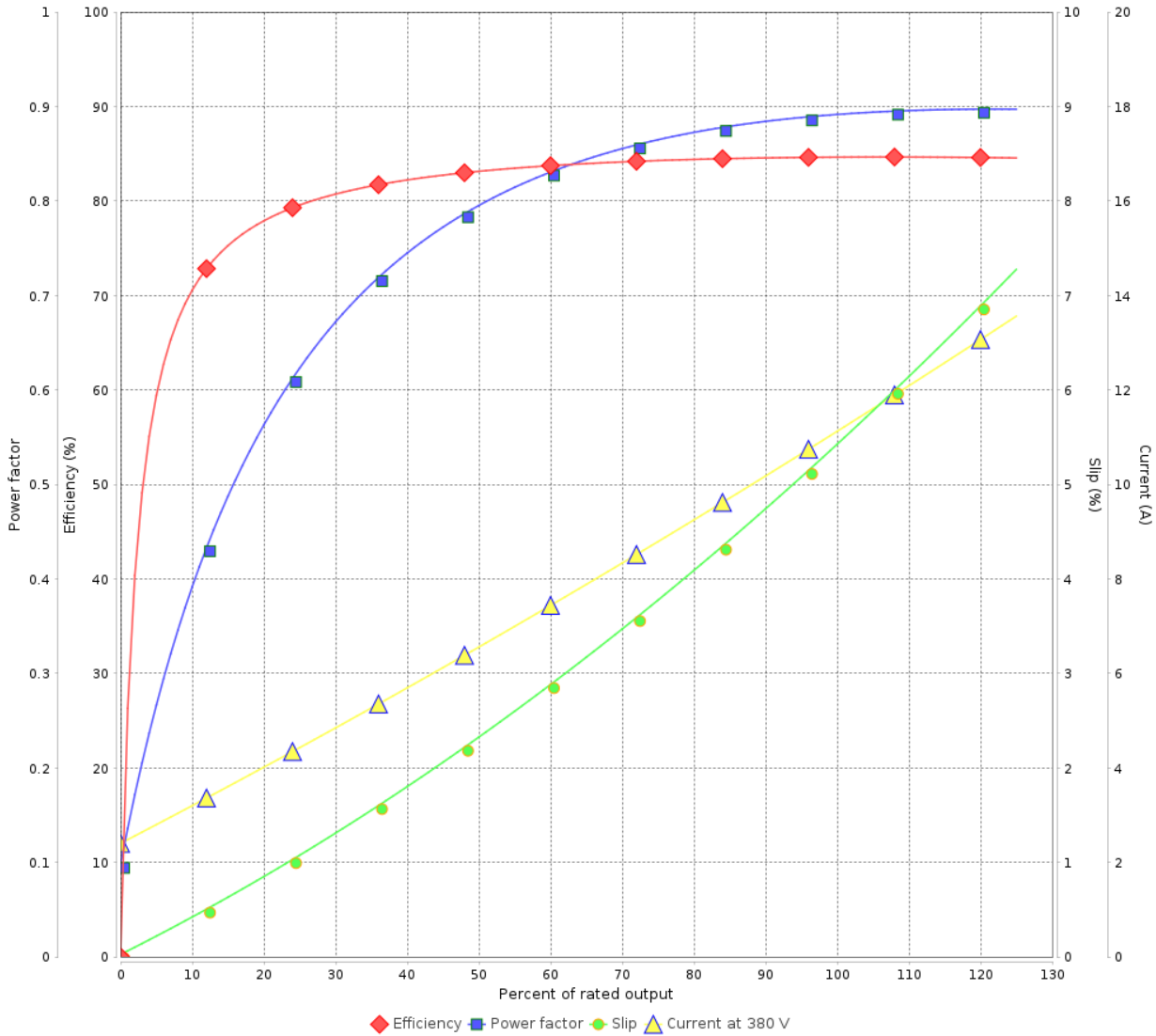
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10015861

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Performance : 380 V 50 Hz 2P IE1

Rated current	: 11.1 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.92 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2835 rpm	Design	: B

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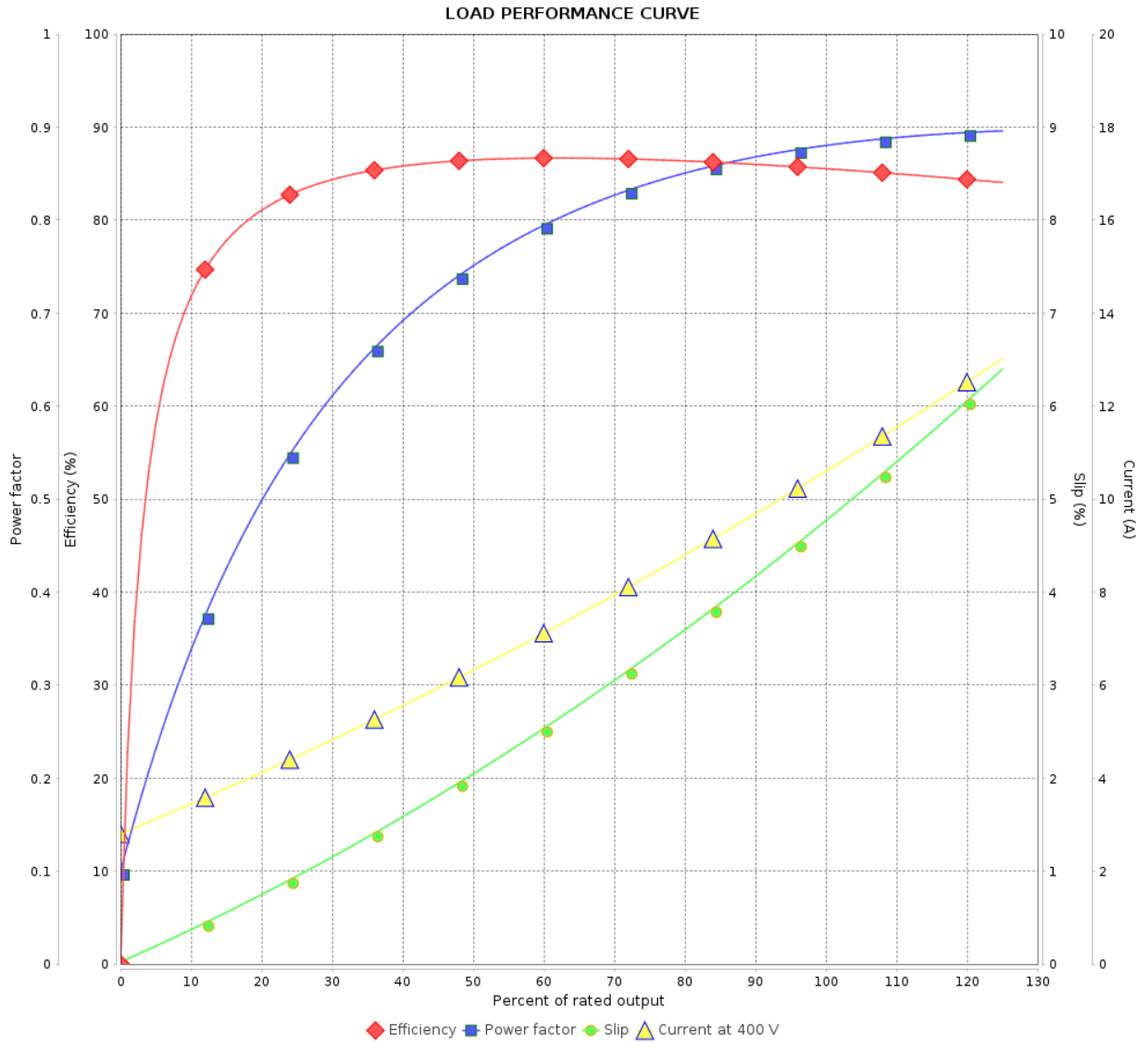
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Three Phase Induction Motor - Squirrel Cage



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Performance : 400 V 50 Hz 2P IE1

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.91 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2855 rpm	Design	: B

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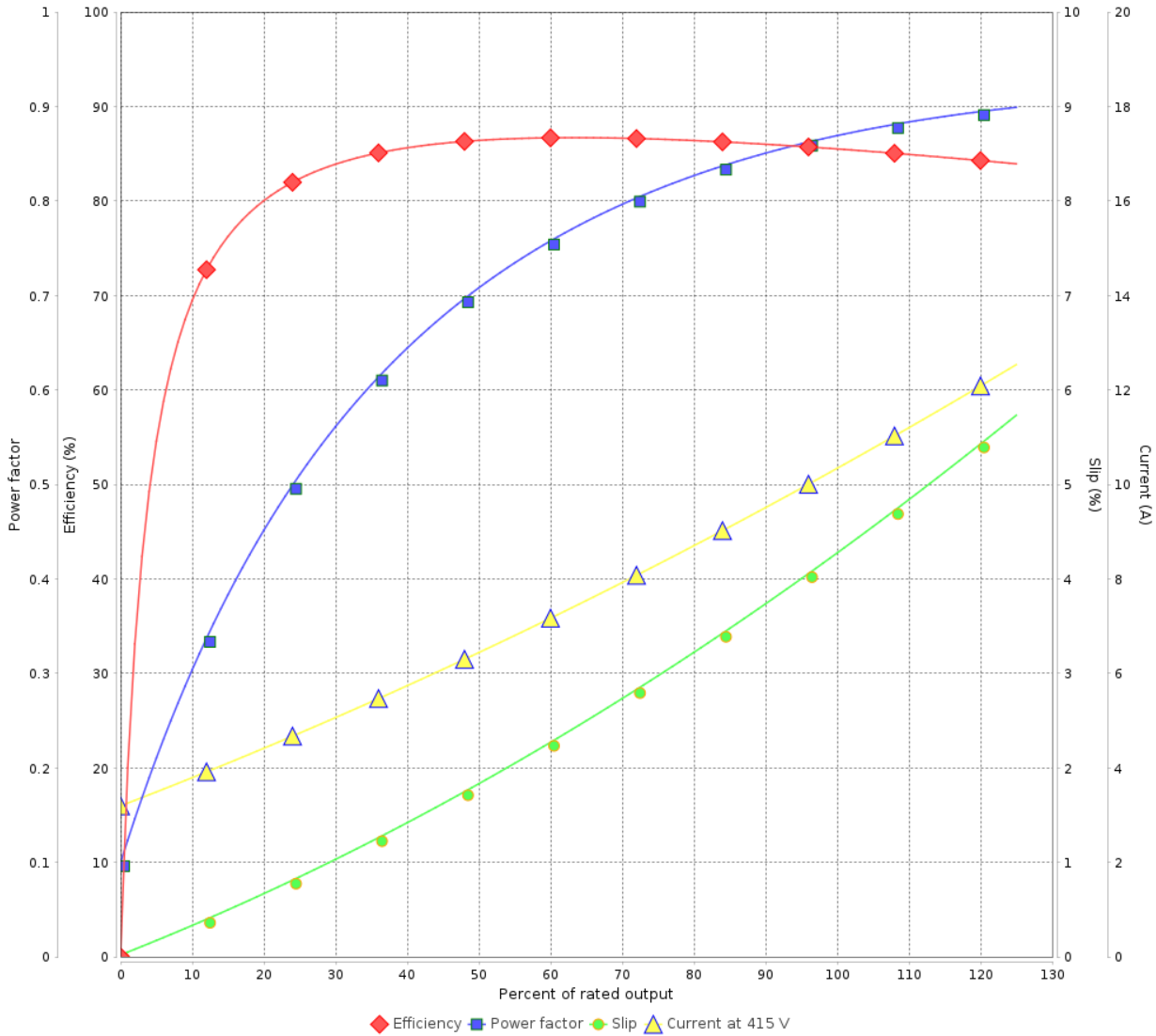
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Customer :

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Performance : 415 V 50 Hz 2P IE1

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0069 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 1.90 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 2870 rpm	Design	: B

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