

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase Product code : 10015869

Frame	: 364/5TS	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	: 335 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.2870 kgm ²
Design	: B		

Output [HP]	75	50	50	50	75	75	75
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]	167/83.4	69.8	67.1	65.4	103	96.8	93.3
L. R. Amperes [A]	1068/534	517	537	556	515	532	560
LRC [A]	6.4x(Code G)	7.4x(Code H)	8.0x(Code J)	8.5x(Code J)	5.0x(Code E)	5.5x(Code E)	6.0x(Code F)
No load current [A]	47.0/23.5	23.0	25.5	27.0	23.0	25.5	27.0
Rated speed [RPM]	3560	2970	2975	2975	2945	2955	2960
Slip [%]	1.11	1.00	0.83	0.83	1.83	1.50	1.33
Rated torque [kgfm]	15.3	12.2	12.2	12.2	18.5	18.4	18.4
Locked rotor torque [%]	180	200	210	240	130	140	160
Breakdown torque [%]	280	300	320	330	200	210	220
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	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)
Noise level ²	80.0 dB(A)						
Efficiency (%)	25%	93.5	85.2	86.3	87.5	89.1	90.8
	50%	93.6	88.4	88.9	89.5	90.2	91.7
	75%	94.1	90.0	90.8	91.5	91.0	92.4
	100%	94.1	93.7	93.7	93.7	92.1	93.2
Power Factor	25%	0.54	0.51	0.47	0.43	0.62	0.57
	50%	0.78	0.74	0.71	0.67	0.83	0.81
	75%	0.85	0.83	0.81	0.79	0.87	0.87
	100%	0.88	0.86	0.85	0.84	0.88	0.88

Bearing type	Drive end	Non drive end	Foundation loads
	: 6314 C3	: 6314 C3	
Sealing	Without	Without	Max. compression : 622 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: 14418 h	: 14418 h	
Lubricant amount	: 27 g	: 27 g	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 185A SF 1.15 SFA 213A

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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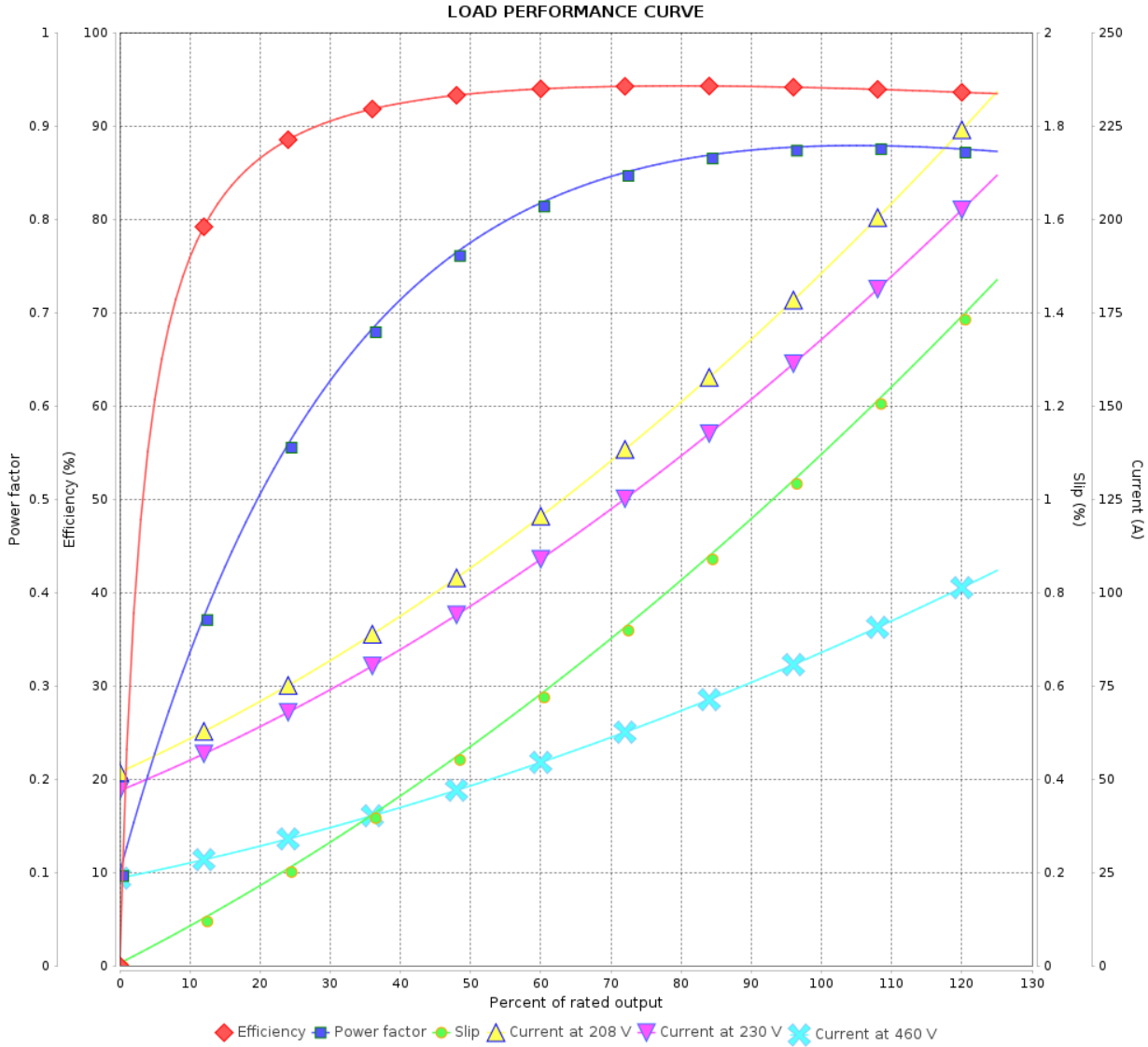
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 230/460 V 60 Hz 2P

Rated current : 167/83.4 A
 LRC : 6.4
 Rated torque : 15.3 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 280 %
 Rated speed : 3560 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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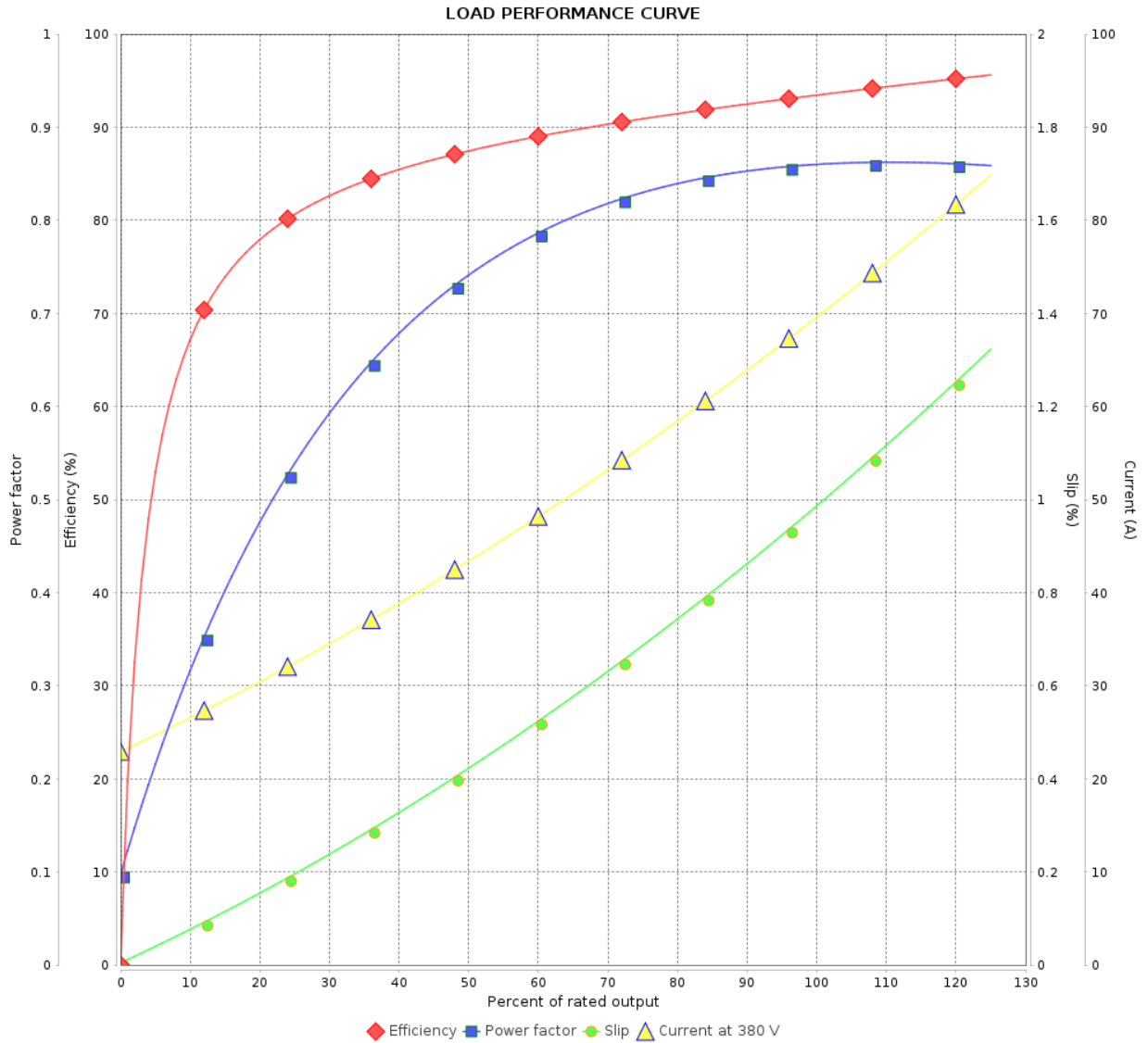
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A
 LRC : 7.4
 Rated torque : 12.2 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 300 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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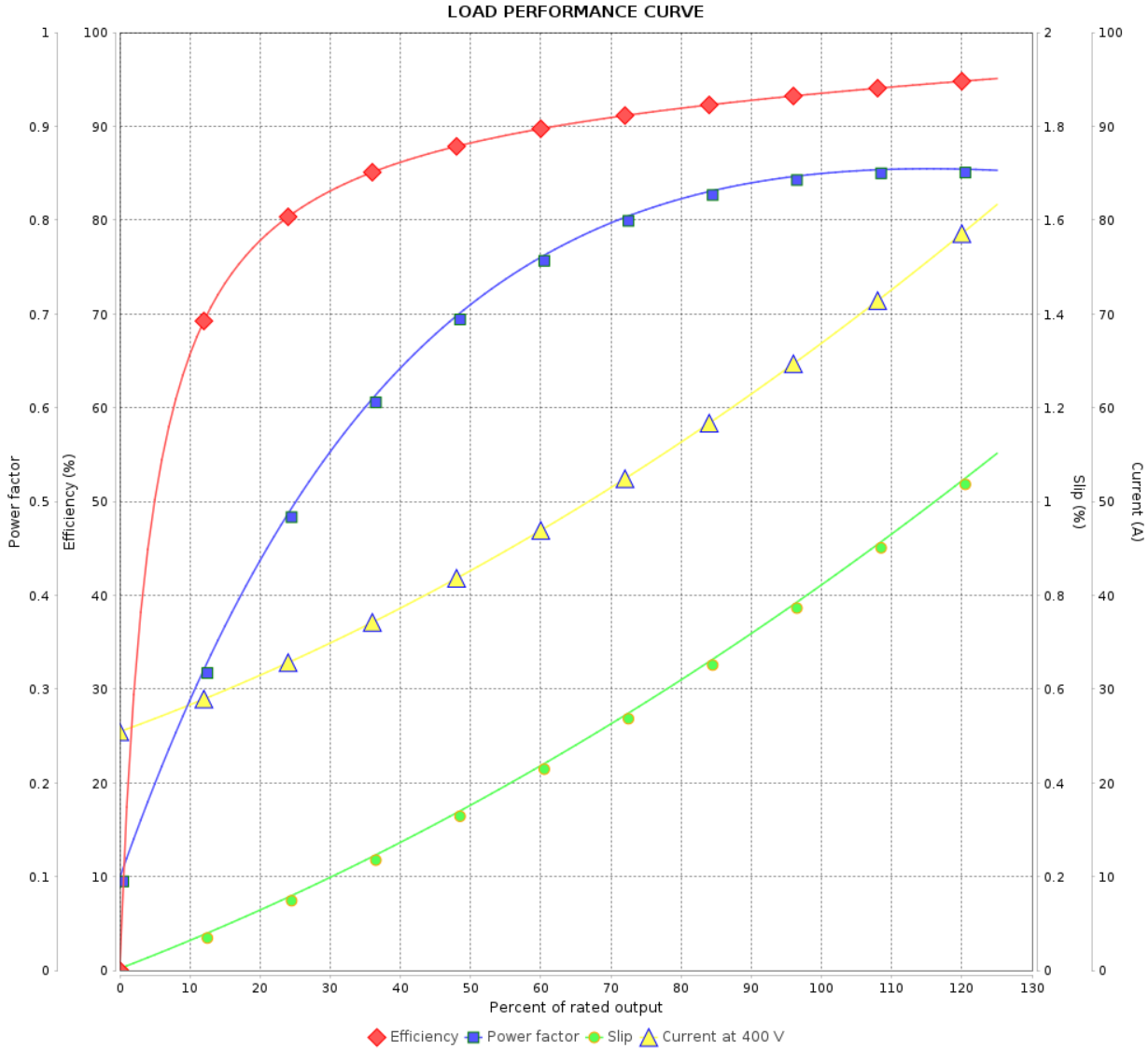
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 400 V 50 Hz 2P IE3

Rated current : 67.1 A
 LRC : 8.0
 Rated torque : 12.2 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 320 %
 Rated speed : 2975 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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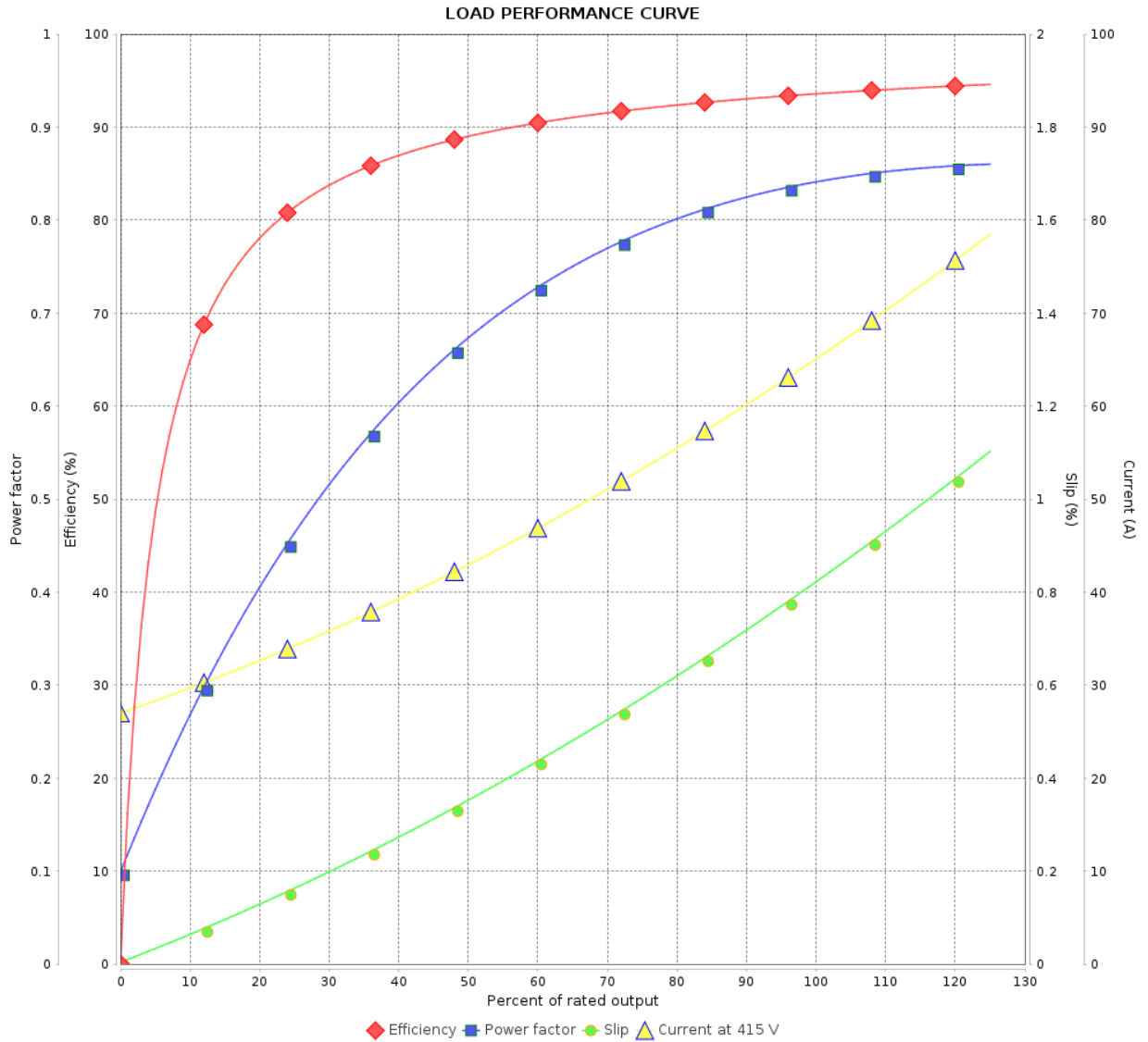
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 415 V 50 Hz 2P IE3

Rated current : 65.4 A
 LRC : 8.5
 Rated torque : 12.2 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 330 %
 Rated speed : 2975 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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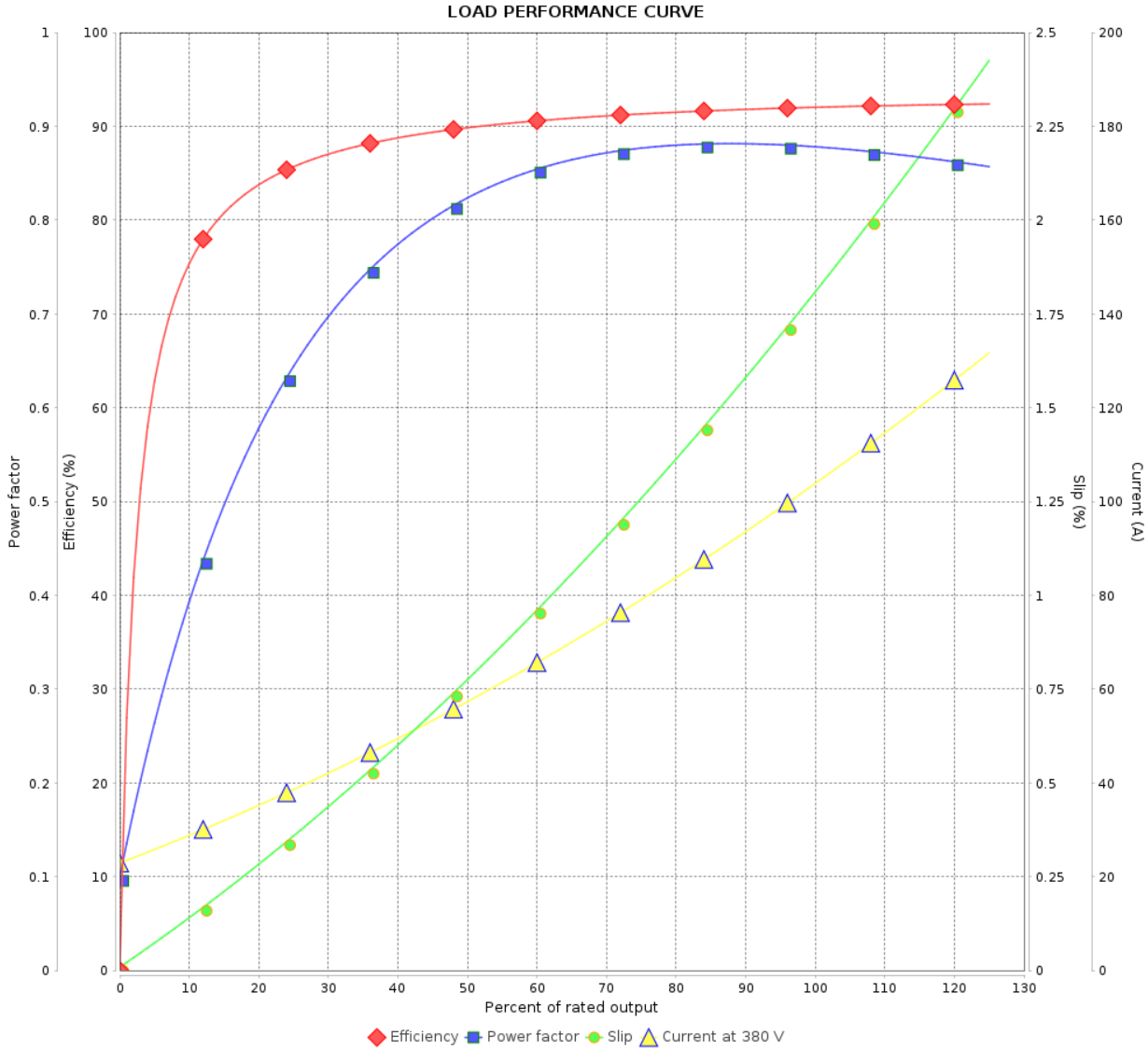
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 380 V 50 Hz 2P IE1

Rated current : 103 A
 LRC : 5.0
 Rated torque : 18.5 kgfm
 Locked rotor torque : 130 %
 Breakdown torque : 200 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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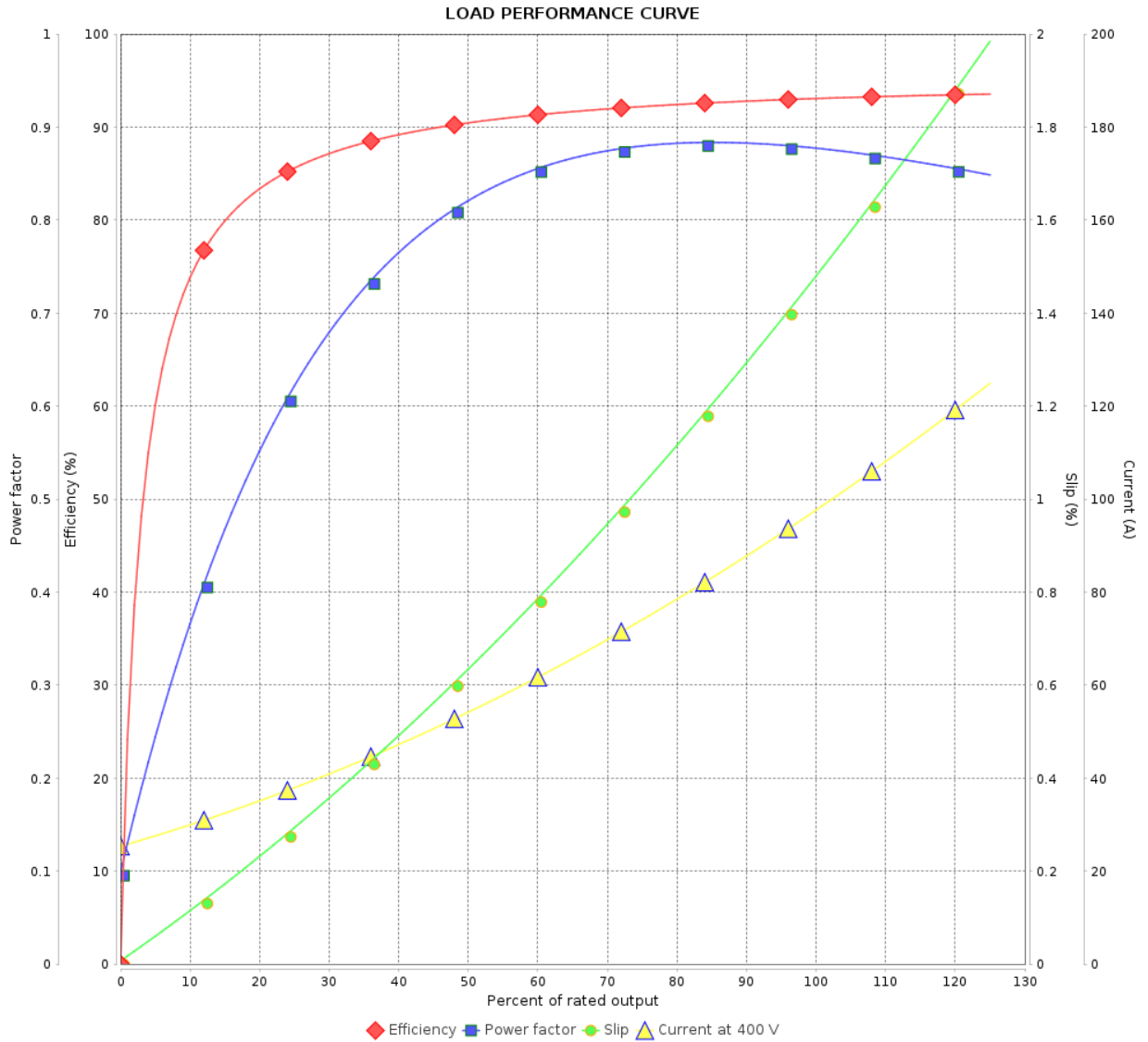
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 400 V 50 Hz 2P IE2

Rated current : 96.8 A
 LRC : 5.5
 Rated torque : 18.4 kgfm
 Locked rotor torque : 140 %
 Breakdown torque : 210 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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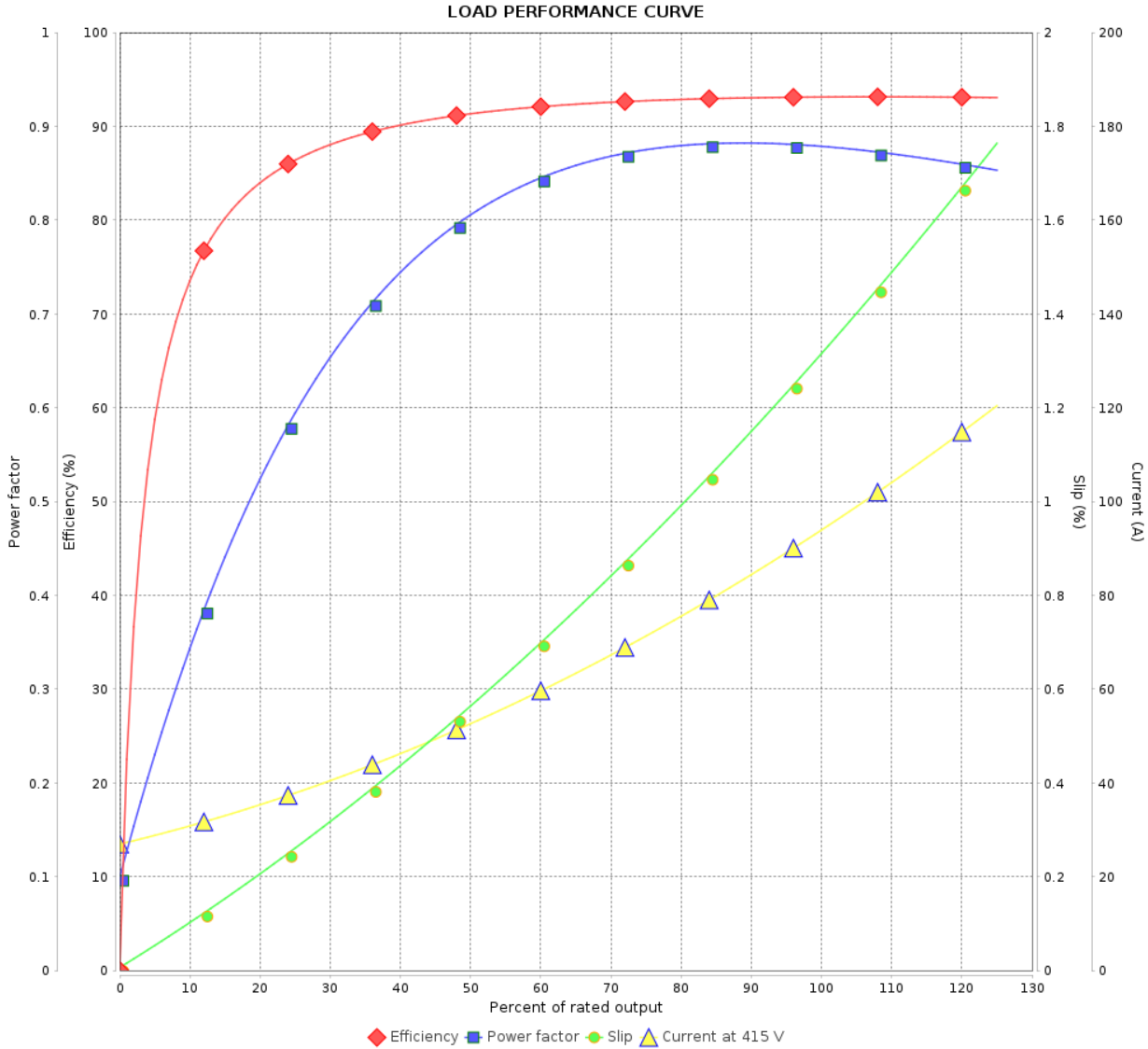
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10015869



Performance : 415 V 50 Hz 2P IE2

Rated current : 93.3 A
 LRC : 6.0
 Rated torque : 18.4 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 220 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 0.2870 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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