

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	12969308				
Frame	: 286TC	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	: 187 kg				
Protection degree	: IP23	Moment of inertia (J)	: 0.2063 kgm ²				
Design	: B						
Output [HP]	30	25	25	25	30	30	30
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]	69.8/34.9	35.7	34.7	34.3	42.9	41.4	40.1
L. R. Amperes [A]	461/230	246	250	244	215	232	245
LRC [A]	6.6x(Code G)	6.9x(Code H)	7.2x(Code H)	7.1x(Code H)	5.0x(Code E)	5.6x(Code F)	6.1x(Code G)
No load current [A]	24.2/12.1	12.0	14.0	13.5	11.7	12.6	13.2
Rated speed [RPM]	1770	1470	1470	1475	1460	1465	1468
Slip [%]	1.67	2.00	2.00	1.67	2.67	2.33	2.13
Rated torque [kgfm]	12.3	12.3	12.3	12.3	14.9	14.9	14.8
Locked rotor torque [%]	240	220	250	270	170	190	210
Breakdown torque [%]	270	240	270	300	200	220	240
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)	30s (cold) 17s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	30s (cold) 17s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)
Noise level ²	63.0 dB(A)						
Efficiency (%)	25%						
	50%	93.6	92.2	92.2	92.2	91.7	91.7
	75%	94.1	92.6	92.6	92.6	92.4	92.4
	100%	94.1	92.6	92.6	92.6	91.7	92.4
Power Factor	25%						
	50%	0.70	0.70	0.66	0.63	0.74	0.70
	75%	0.80	0.80	0.78	0.75	0.83	0.80
	100%	0.84	0.85	0.83	0.81	0.85	0.83
Bearing type	: 6311 Z C3	Drive end	Non drive end	6211 Z C3	Foundation loads		
Sealing	: Without	Without	Without	Bearing Seal	Max. traction	: 415 kgf	
Lubrication interval	: 20000 h	20000 h	20000 h	Bearing Seal	Max. compression	: 603 kgf	
Lubricant amount	: 18 g	11 g	11 g				
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 78.3A SF 1.15 SFA 90.0A							
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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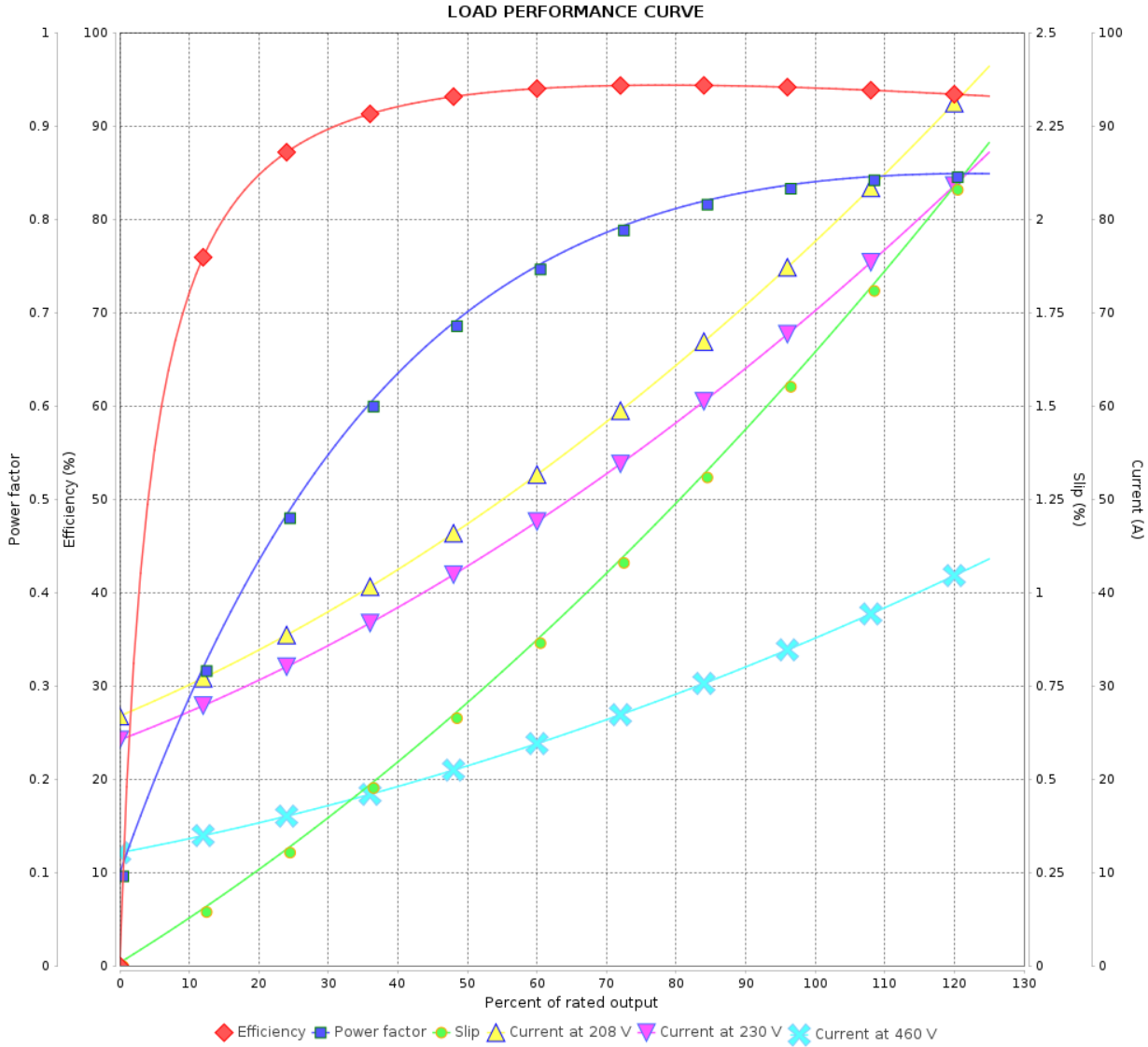
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 230/460 V 60 Hz 4P

Rated current : 69.8/34.9 A
 LRC : 6.6
 Rated torque : 12.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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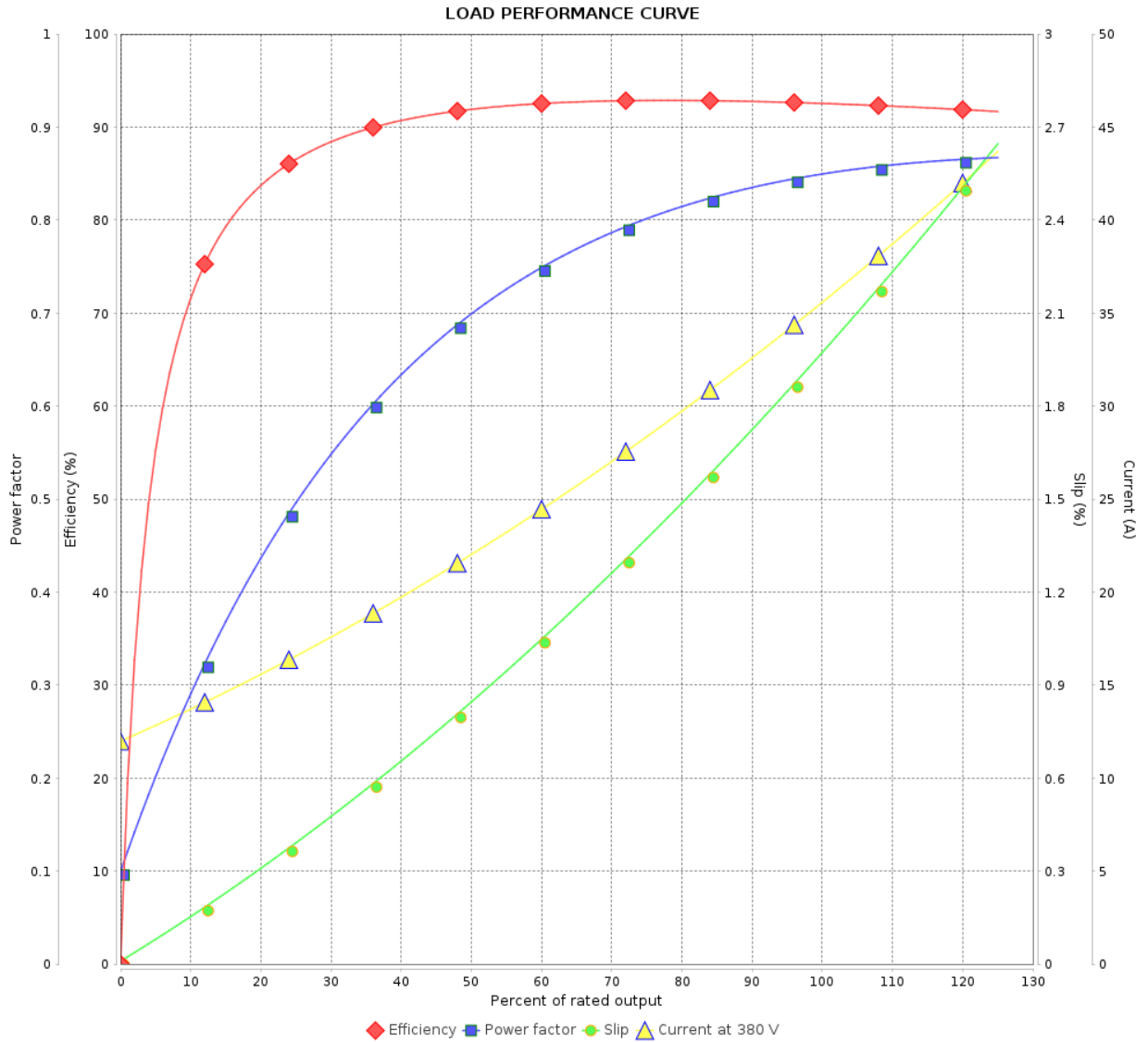
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 380 V 50 Hz 4P IE3

Rated current : 35.7 A
 LRC : 6.9
 Rated torque : 12.3 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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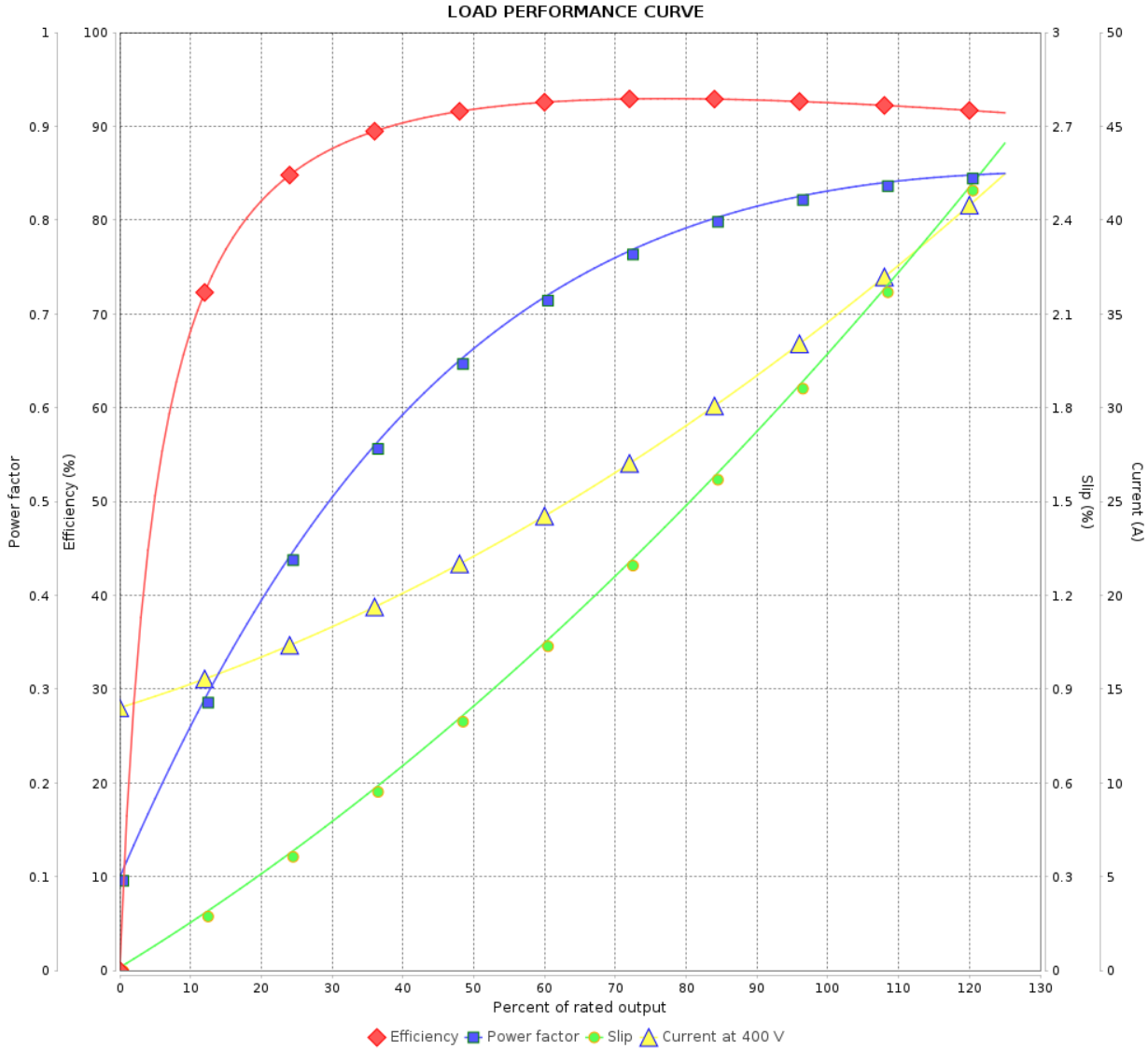
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 400 V 50 Hz 4P IE3

Rated current : 34.7 A
 LRC : 7.2
 Rated torque : 12.3 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 270 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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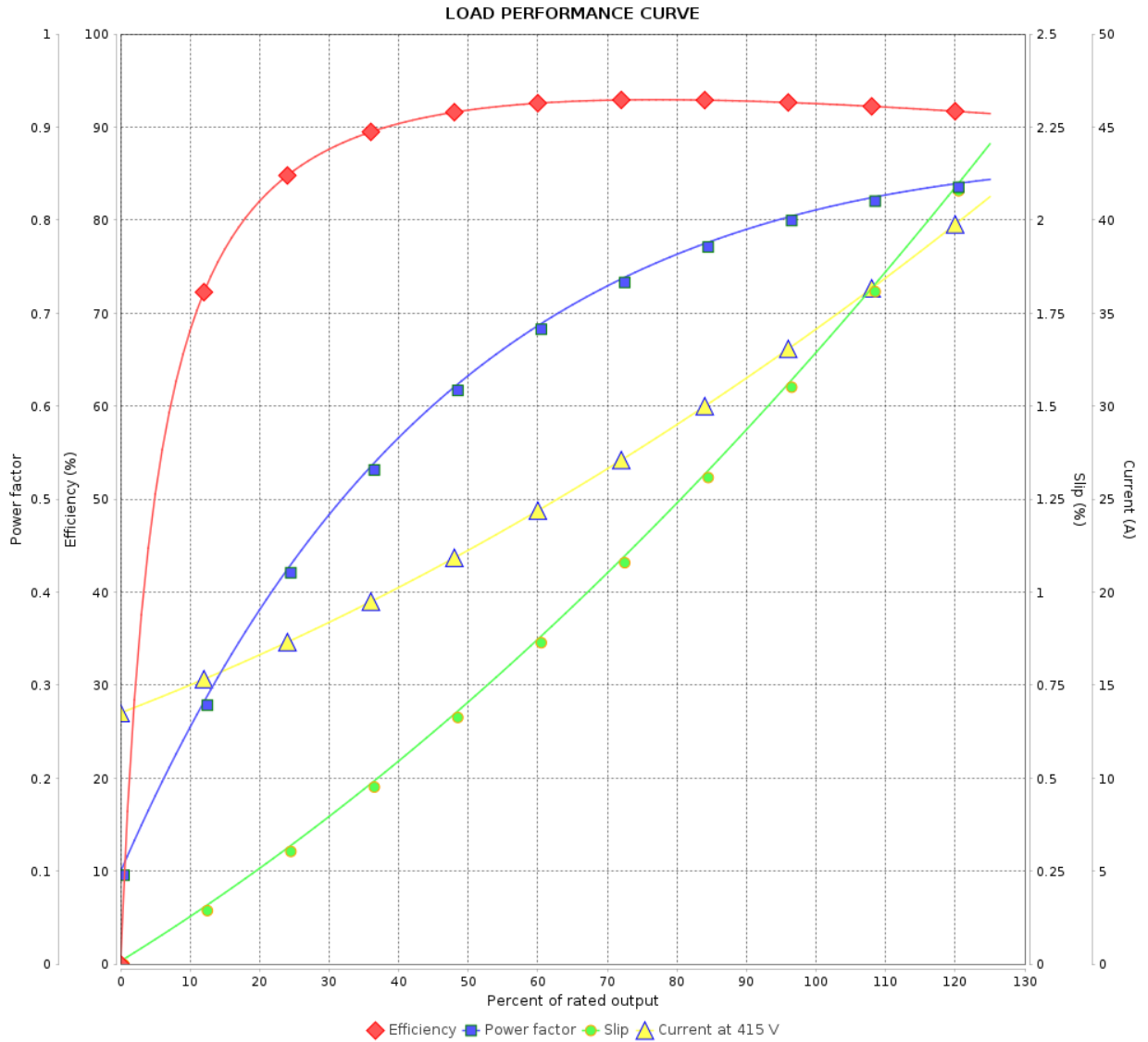
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 415 V 50 Hz 4P IE3

Rated current : 34.3 A
 LRC : 7.1
 Rated torque : 12.3 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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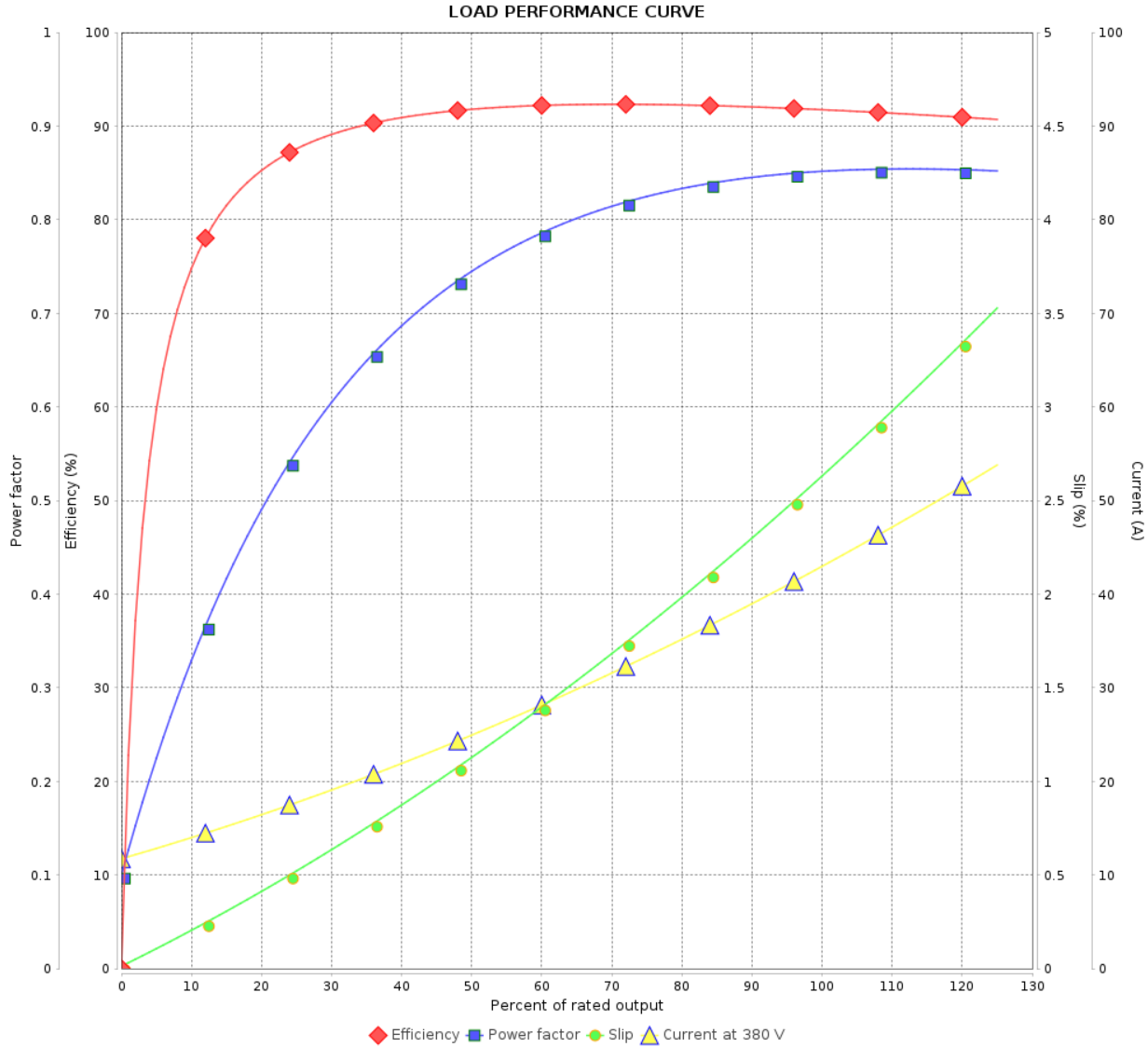
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 380 V 50 Hz 4P IE2

Rated current : 42.9 A
 LRC : 5.0
 Rated torque : 14.9 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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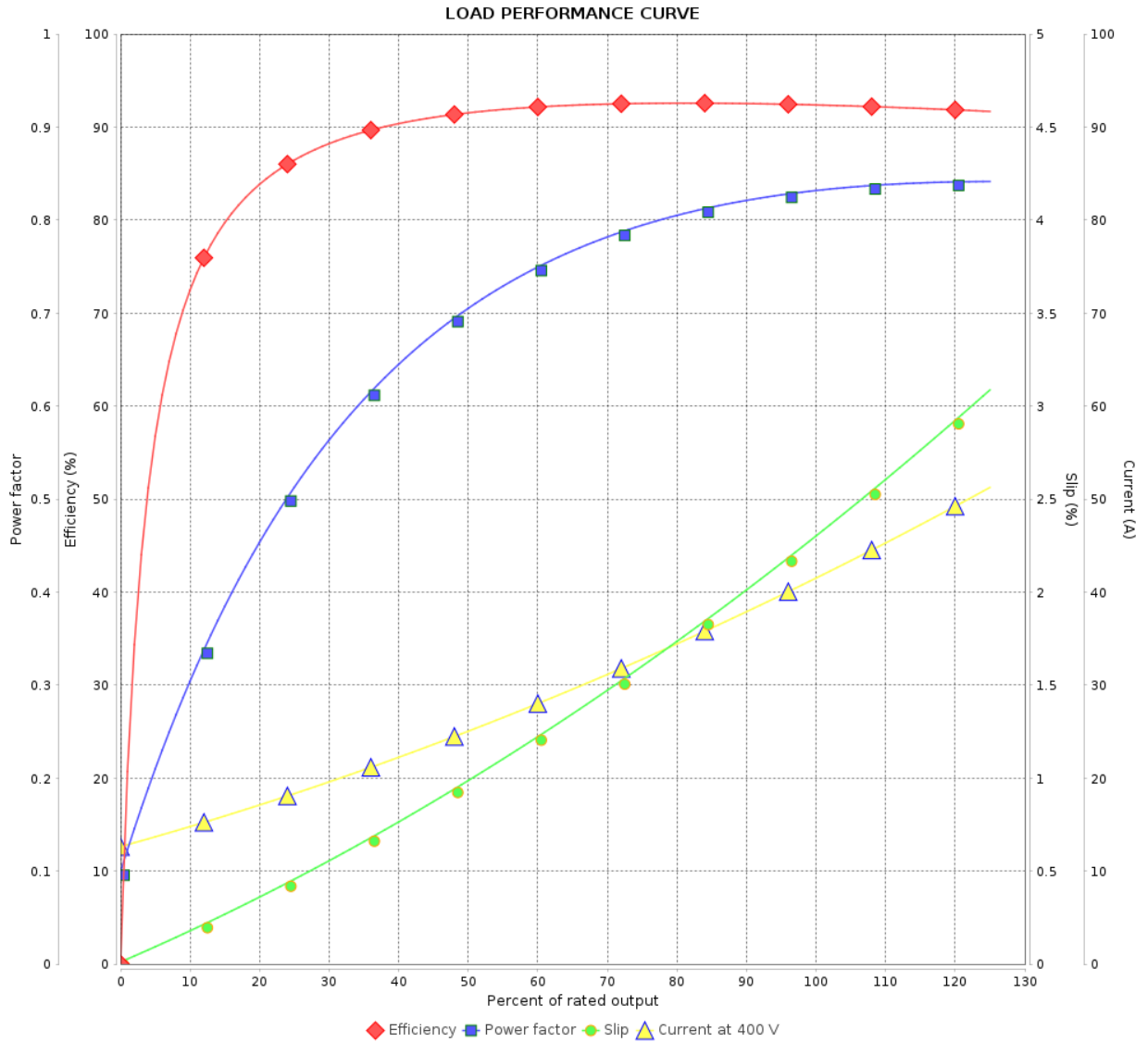
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 400 V 50 Hz 4P IE2

Rated current : 41.4 A
 LRC : 5.6
 Rated torque : 14.9 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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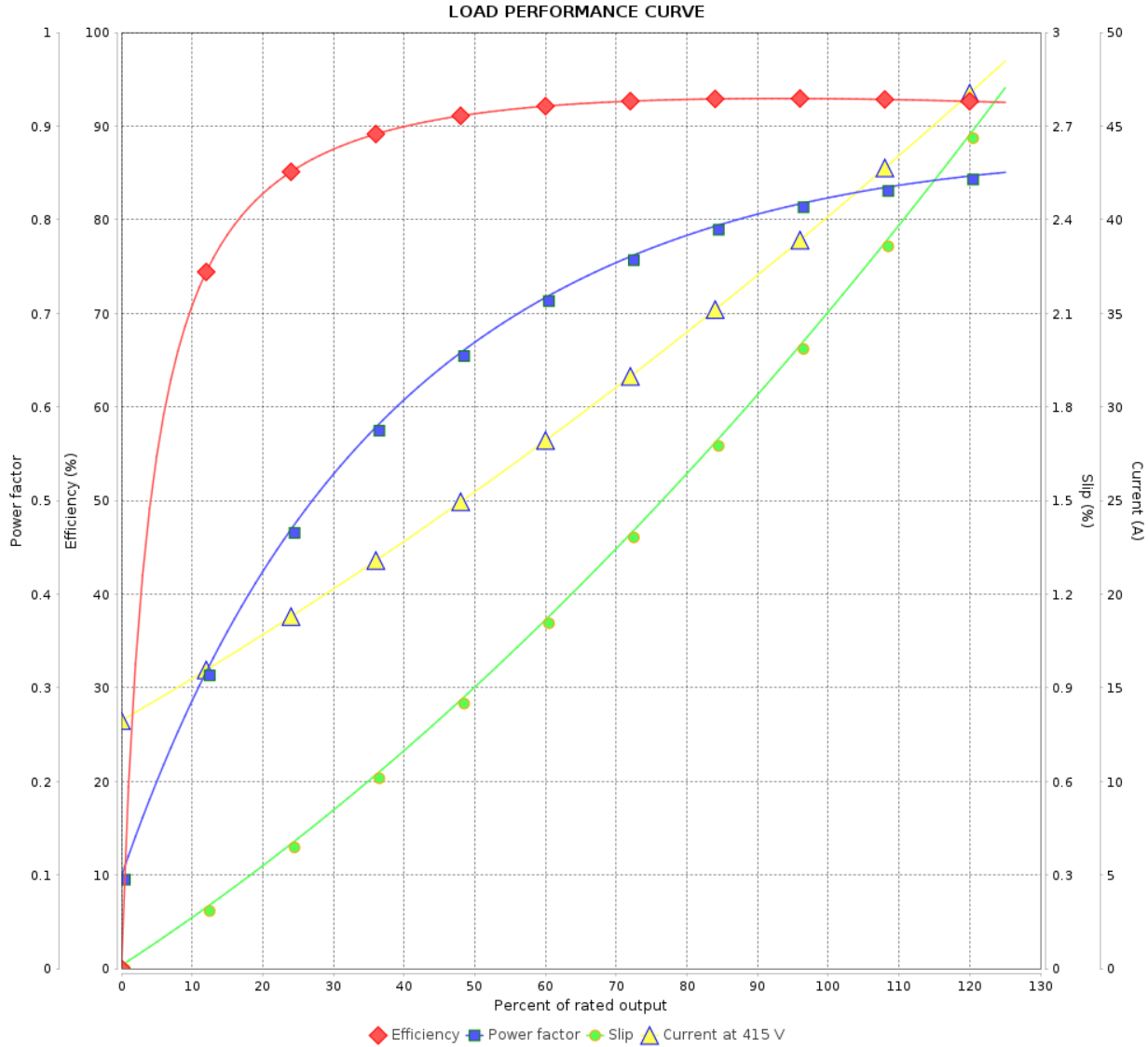
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12969308



Performance : 415 V 50 Hz 4P IE3

Rated current : 40.1 A
 LRC : 6.1
 Rated torque : 14.8 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1468 rpm

Moment of inertia (J) : 0.2063 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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