

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	14056631				
Frame	: 364/5TSC	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	: 379 kg				
Protection degree	: IP23	Moment of inertia (J)	: 0.3498 kgm ²				
Design	: B						
Output [HP]	100	75	75	75	100	100	100
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]	224/112	102	96.8	94.2	140	133	128
L. R. Amperes [A]	1501/750	653	678	707	672	705	730
LRC [A]	6.7x(Code G)	6.4x(Code G)	7.0x(Code G)	7.5x(Code H)	4.8x(Code D)	5.3x(Code E)	5.7x(Code F)
No load current [A]	60.0/30.0	29.0	32.0	34.0	29.0	32.0	34.0
Rated speed [RPM]	3560	2965	2970	2975	2945	2950	2945
Slip [%]	1.11	1.17	1.00	0.83	1.83	1.67	1.83
Rated torque [kgfm]	20.4	18.4	18.3	18.3	24.6	24.6	24.6
Locked rotor torque [%]	190	200	210	240	150	160	180
Breakdown torque [%]	250	240	260	290	170	190	210
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	21s (cold) 12s (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	83.0 dB(A)						
Efficiency (%)	25%						
	50%	94.1	90.2	90.0	89.9	91.7	91.7
	75%	94.5	91.9	91.9	91.9	92.4	92.4
	100%	94.5	94.3	94.3	94.5	93.8	93.8
Power Factor	25%						
	50%	0.84	0.78	0.75	0.73	0.85	0.83
	75%	0.89	0.86	0.84	0.83	0.87	0.87
	100%	0.89	0.87	0.87	0.86	0.87	0.87
Bearing type	: 6314 C3	Drive end	Non drive end	6314 C3	Foundation loads		
Sealing	: Without	Without	Without	Bearing Seal	Max. traction	: 392 kgf	
Lubrication interval	: 14418 h	14418 h	14418 h	Bearing Seal	Max. compression	: 771 kgf	
Lubricant amount	: 27 g	27 g	27 g				
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 248A SF 1.15 SFA 285A							
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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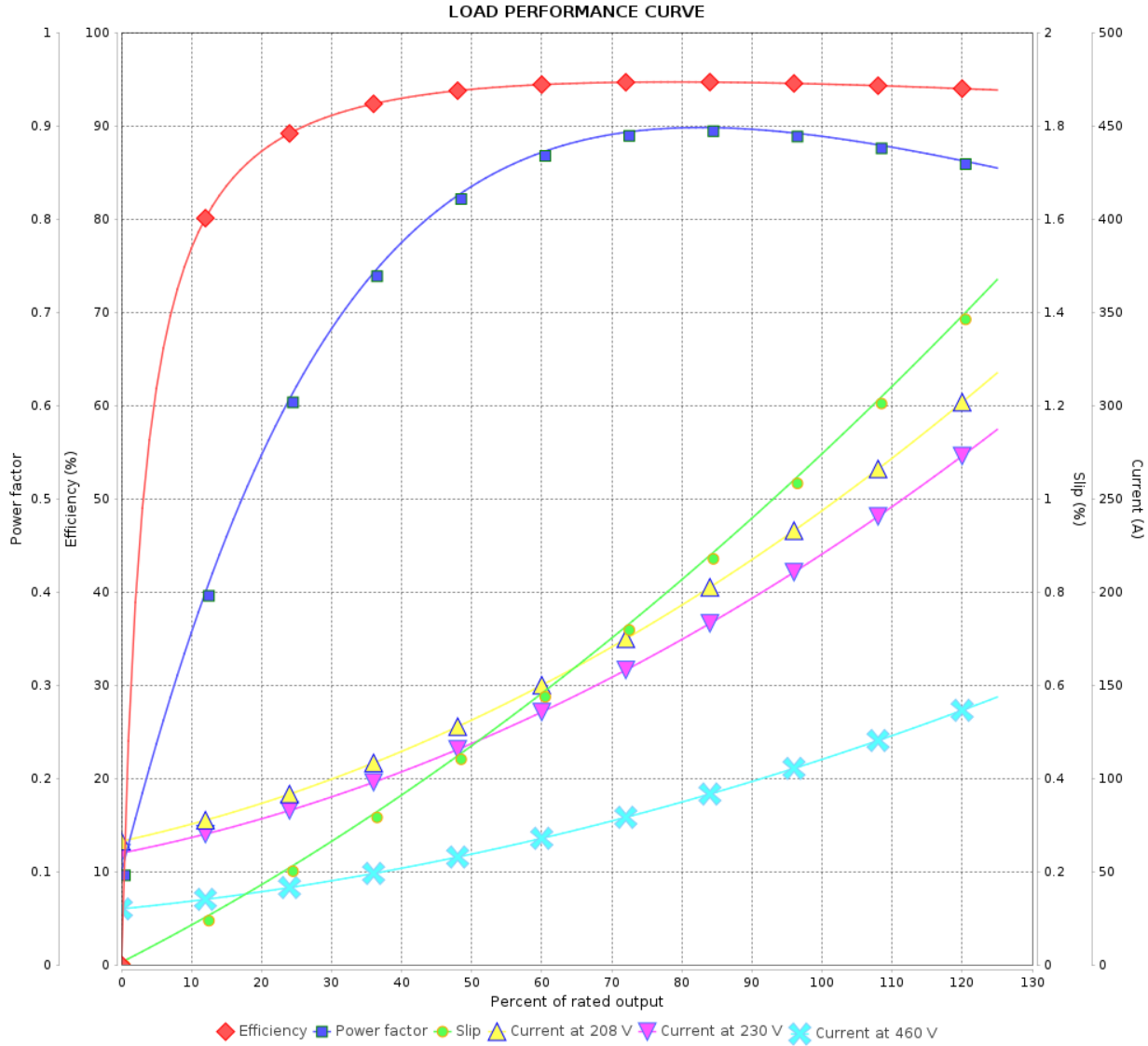
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 230/460 V 60 Hz 2P

Rated current : 224/112 A
 LRC : 6.7
 Rated torque : 20.4 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 3560 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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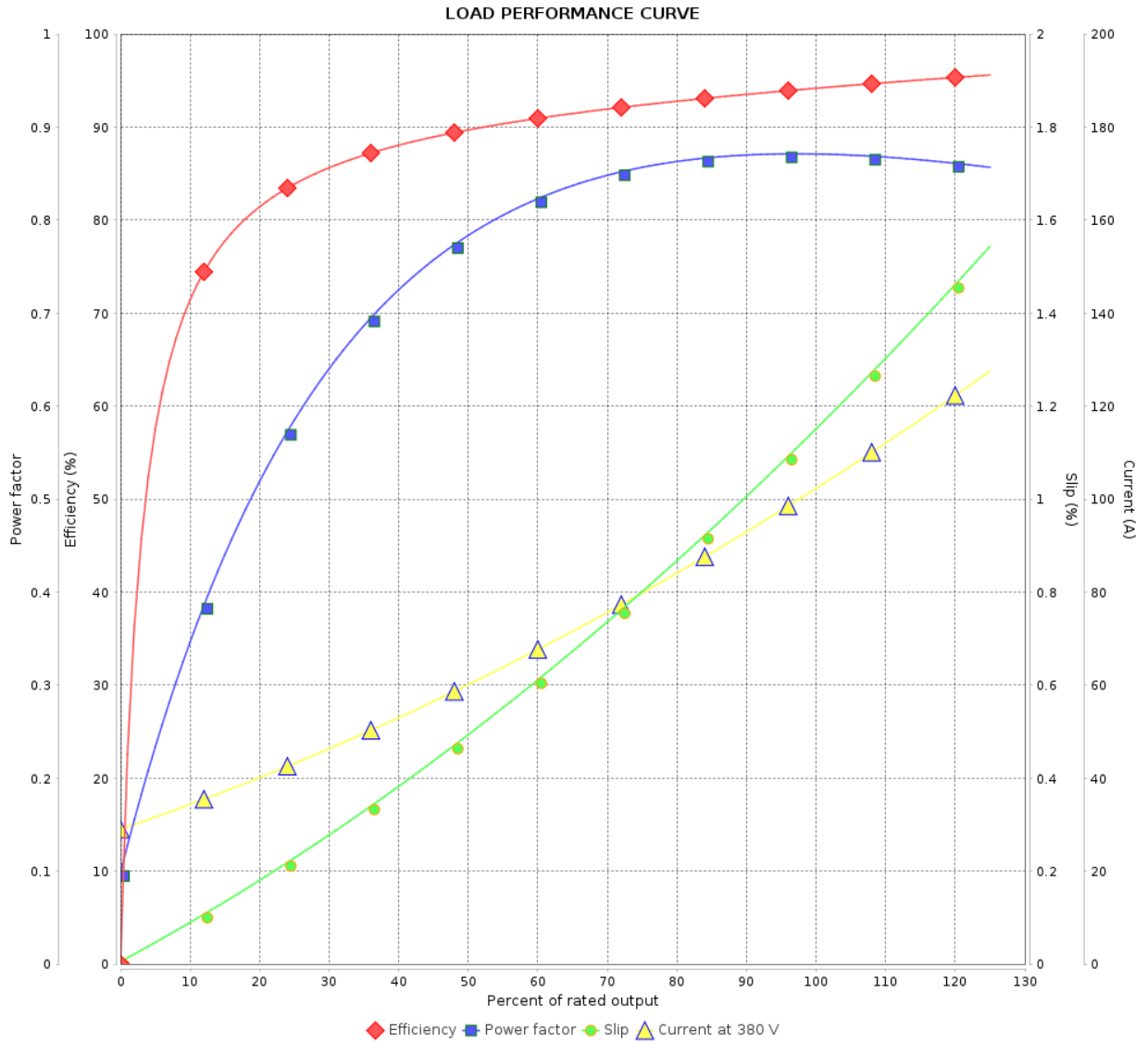
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 380 V 50 Hz 2P IE3

Rated current : 102 A
 LRC : 6.4
 Rated torque : 18.4 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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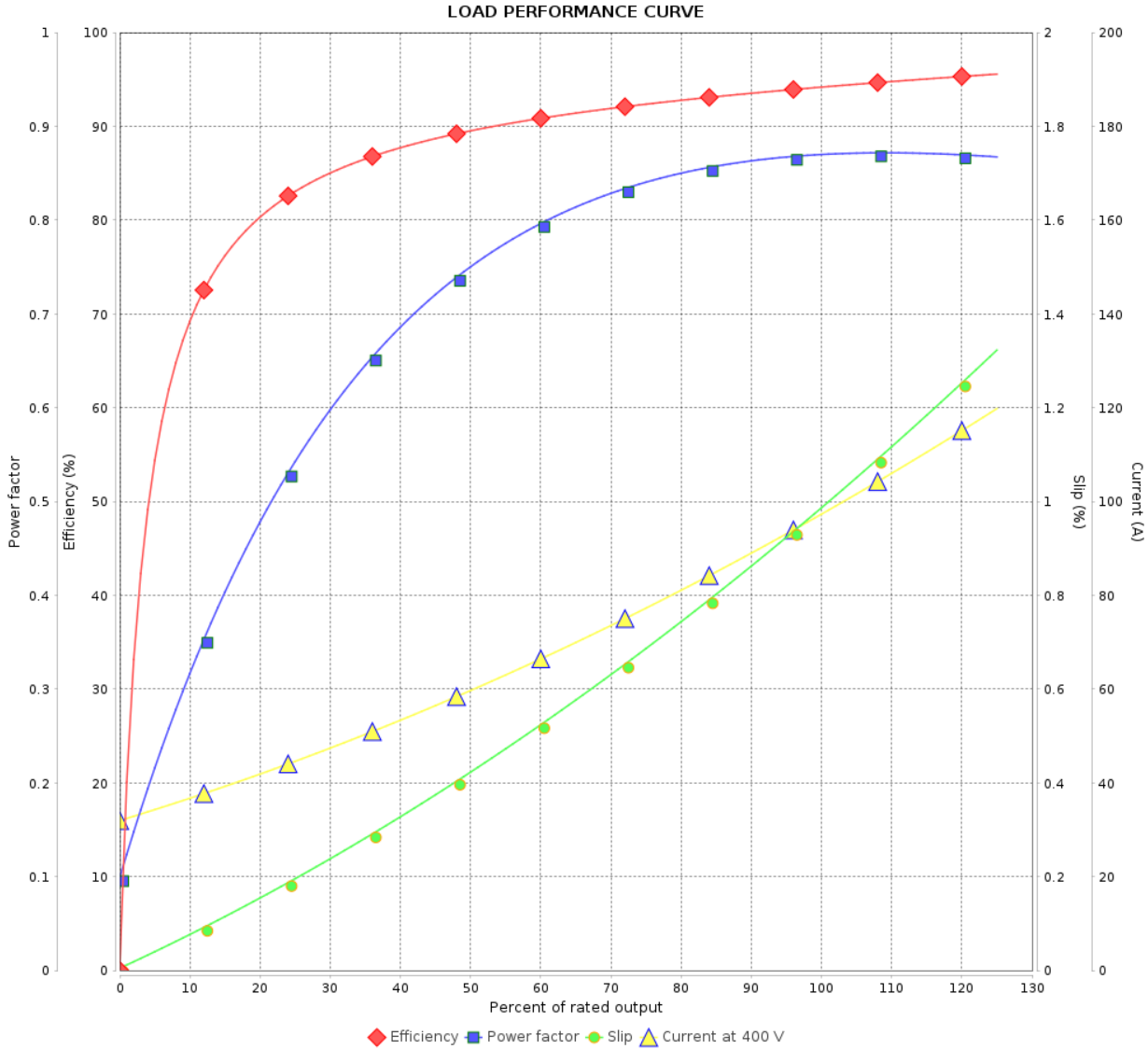
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 400 V 50 Hz 2P IE3

Rated current : 96.8 A
 LRC : 7.0
 Rated torque : 18.3 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 2970 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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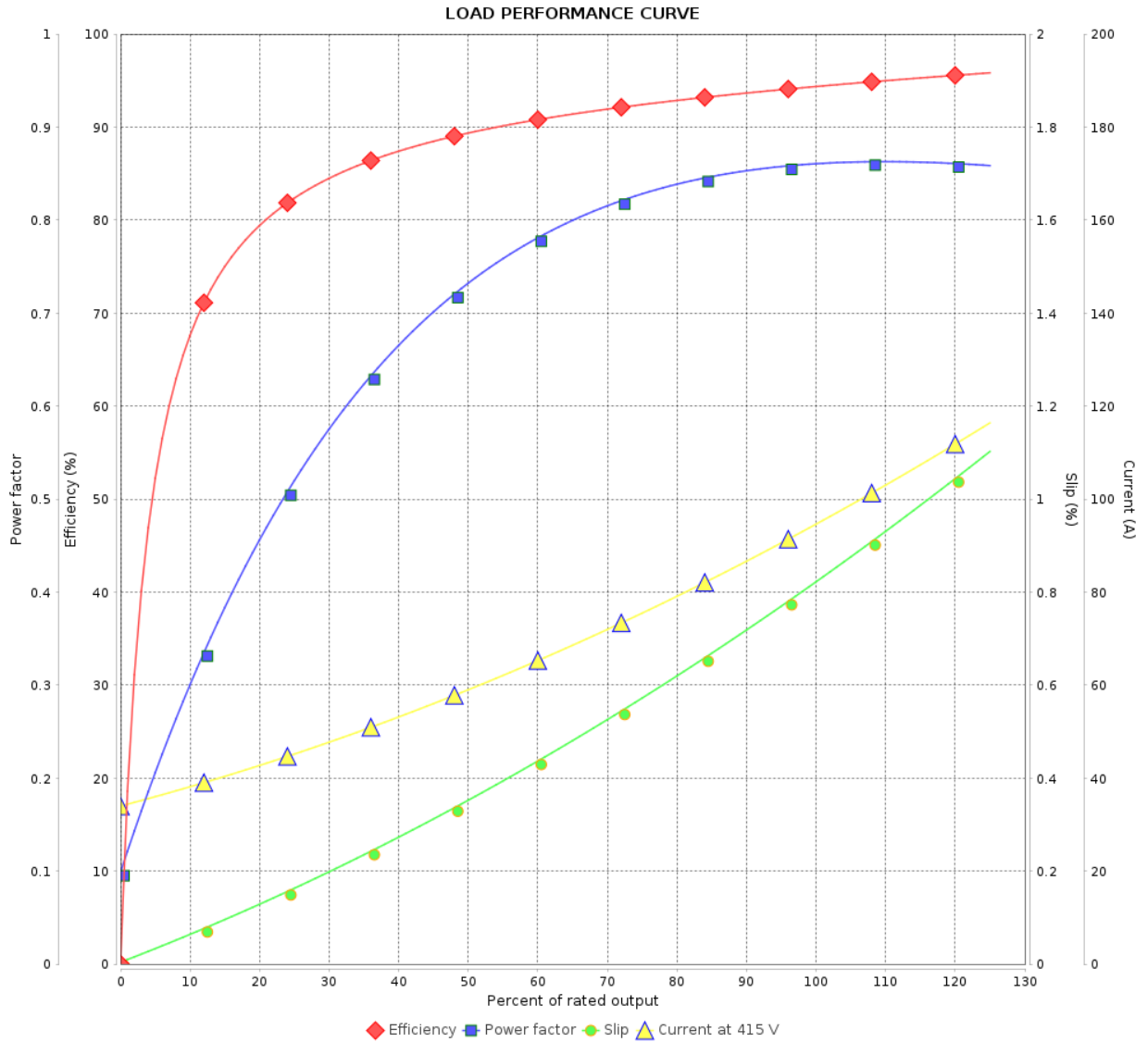
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 415 V 50 Hz 2P IE3

Rated current : 94.2 A
 LRC : 7.5
 Rated torque : 18.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 2975 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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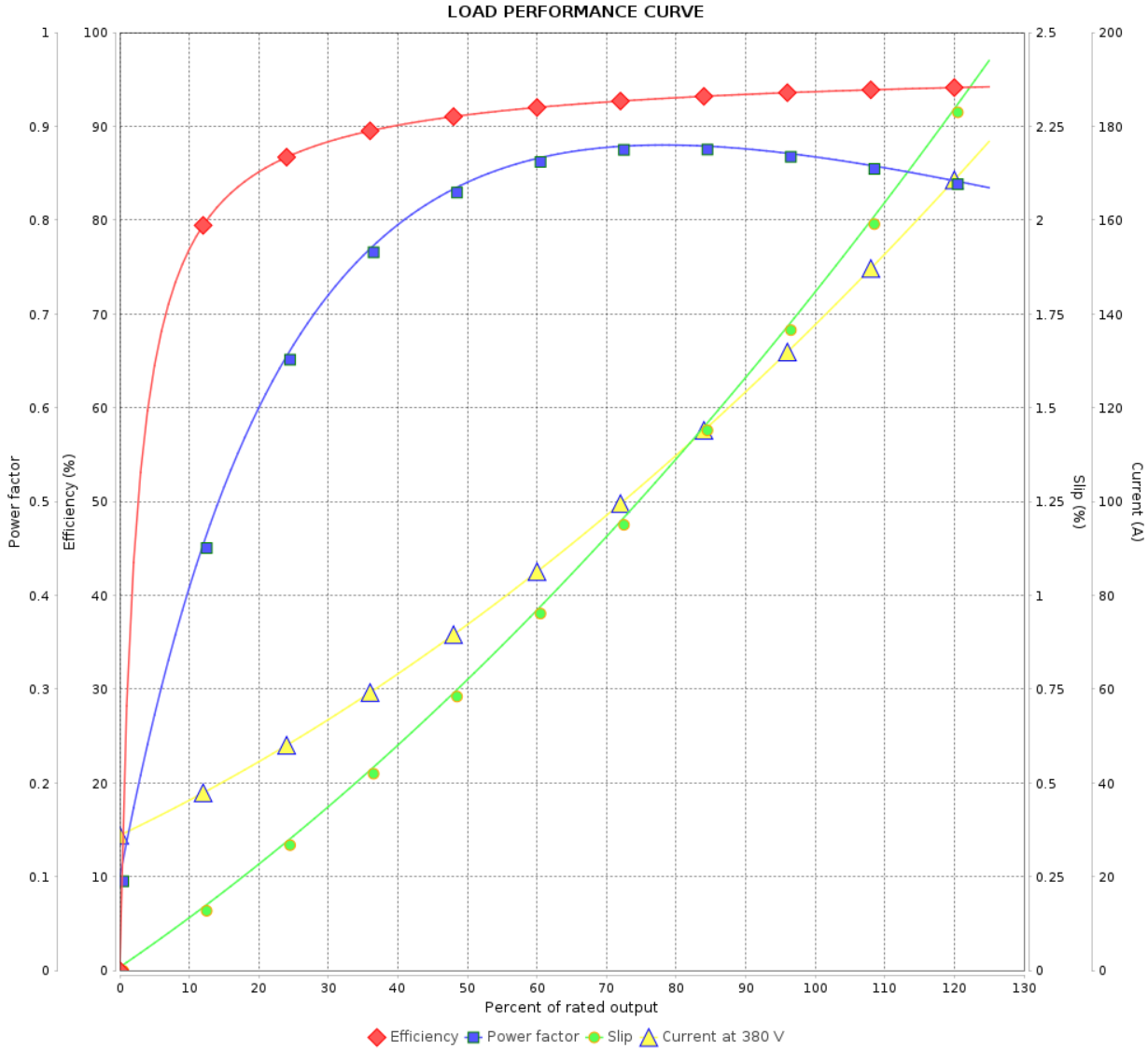
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 380 V 50 Hz 2P IE2

Rated current : 140 A
 LRC : 4.8
 Rated torque : 24.6 kgfm
 Locked rotor torque : 150 %
 Breakdown torque : 170 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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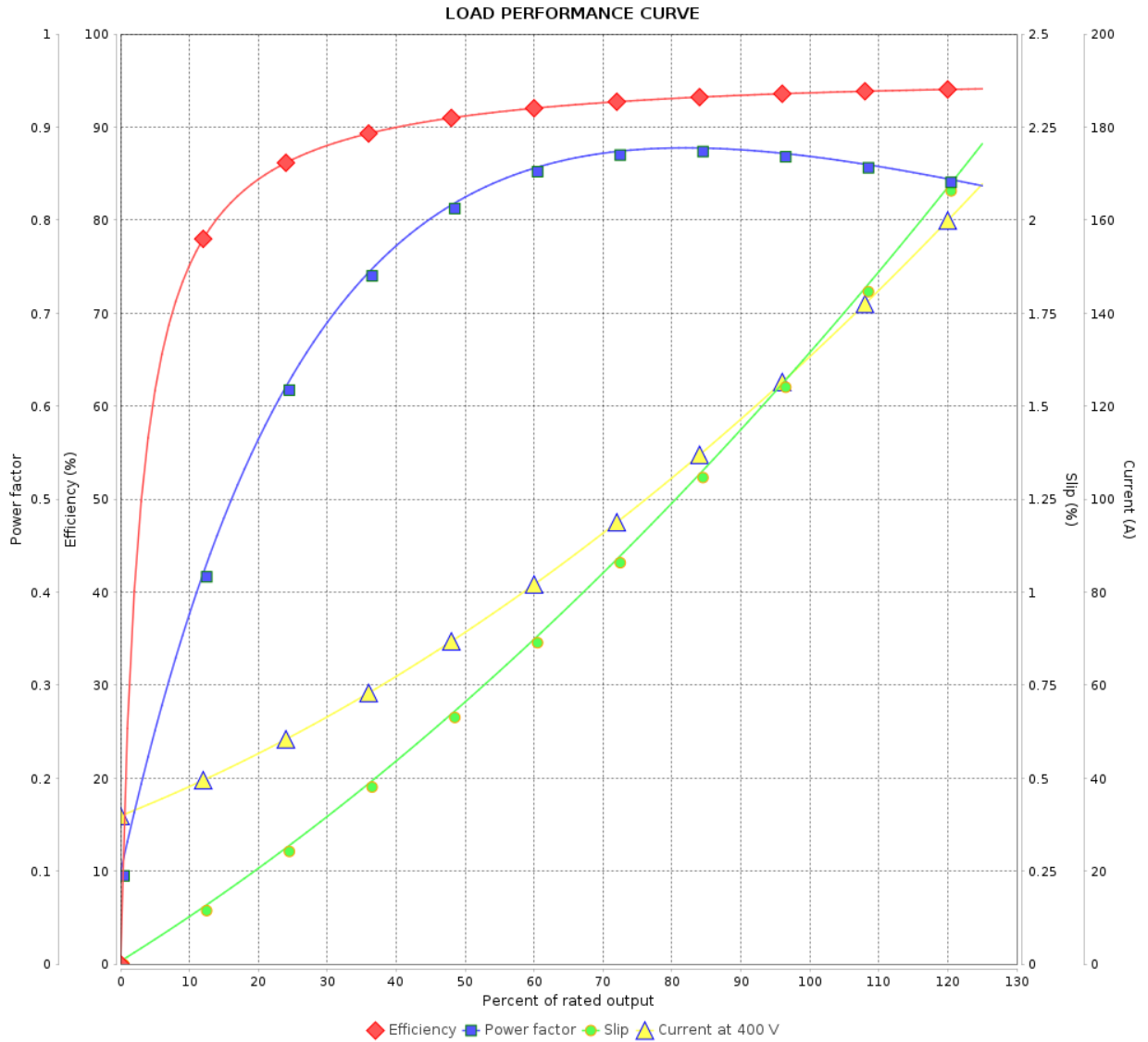
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 400 V 50 Hz 2P IE2

Rated current : 133 A
 LRC : 5.3
 Rated torque : 24.6 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 190 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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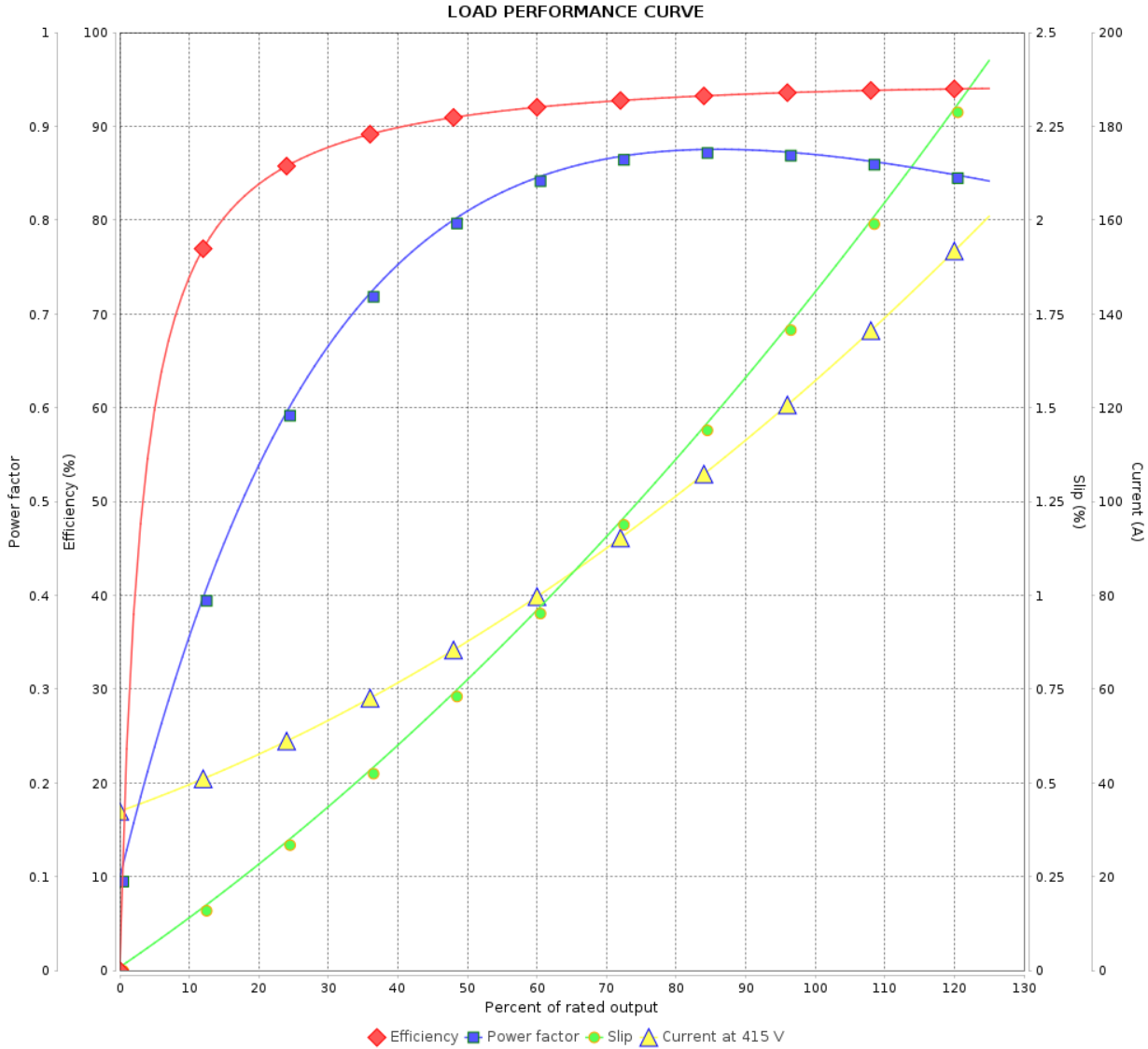
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 14056631



Performance : 415 V 50 Hz 2P IE2

Rated current : 128 A
 LRC : 5.7
 Rated torque : 24.6 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.3498 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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