

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase      Product code : 11261502

Frame	: 326JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 241 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.1839 kgm <sup>2</sup>
Design	: B		

Output [HP]	60	50	50	50	60	60	60
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]	142/71.0	69.8	67.9	66.1	86.7	82.3	80.1
L. R. Amperes [A]	852/426	384	421	463	416	436	481
LRC [A]	6.0x(Code G)	5.5x(Code F)	6.2x(Code G)	7.0x(Code H)	4.8x(Code E)	5.3x(Code F)	6.0x(Code G)
No load current [A]	43.0/21.5	20.0	23.0	23.5	20.0	23.0	25.5
Rated speed [RPM]	3560	2960	2965	2965	2940	2950	2955
Slip [%]	1.11	1.33	1.17	1.17	2.00	1.67	1.50
Rated torque [kgfm]	12.2	12.3	12.2	12.2	14.8	14.8	14.7
Locked rotor torque [%]	220	210	229	240	170	180	200
Breakdown torque [%]	229	210	240	260	180	200	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	43s (cold) 24s (hot)	39s (cold) 22s (hot)	36s (cold) 20s (hot)	34s (cold) 19s (hot)	39s (cold) 22s (hot)	36s (cold) 20s (hot)	34s (cold) 19s (hot)
Noise level <sup>2</sup>	75.0 dB(A)						
Efficiency (%)	25%	92.9	86.6	87.9	90.1	89.4	91.0
	50%	93.0	89.3	89.9	91.0	90.2	91.7
	75%	93.6	90.7	91.5	93.0	91.0	92.4
	100%	93.6	93.7	93.7	93.8	91.7	92.9
Power Factor	25%	0.53	0.54	0.49	0.46	0.59	0.50
	50%	0.77	0.77	0.73	0.70	0.80	0.74
	75%	0.84	0.83	0.81	0.79	0.85	0.81
	100%	0.85	0.86	0.84	0.83	0.86	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6312 Z C3	6212 Z C3	Max. traction : 269 kgf
Sealing	: Without	Without	Max. compression : 510 kgf
	<u>Bearing Seal</u>	<u>Bearing Seal</u>	
Lubrication interval	: 19658 h	20000 h	
Lubricant amount	: 21 g	13 g	
Lubricant type	: Mobil Polyrex EM		

Notes  
USABLE @208V 157A SF 1.15 SFA 181A

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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# LOAD PERFORMANCE CURVE

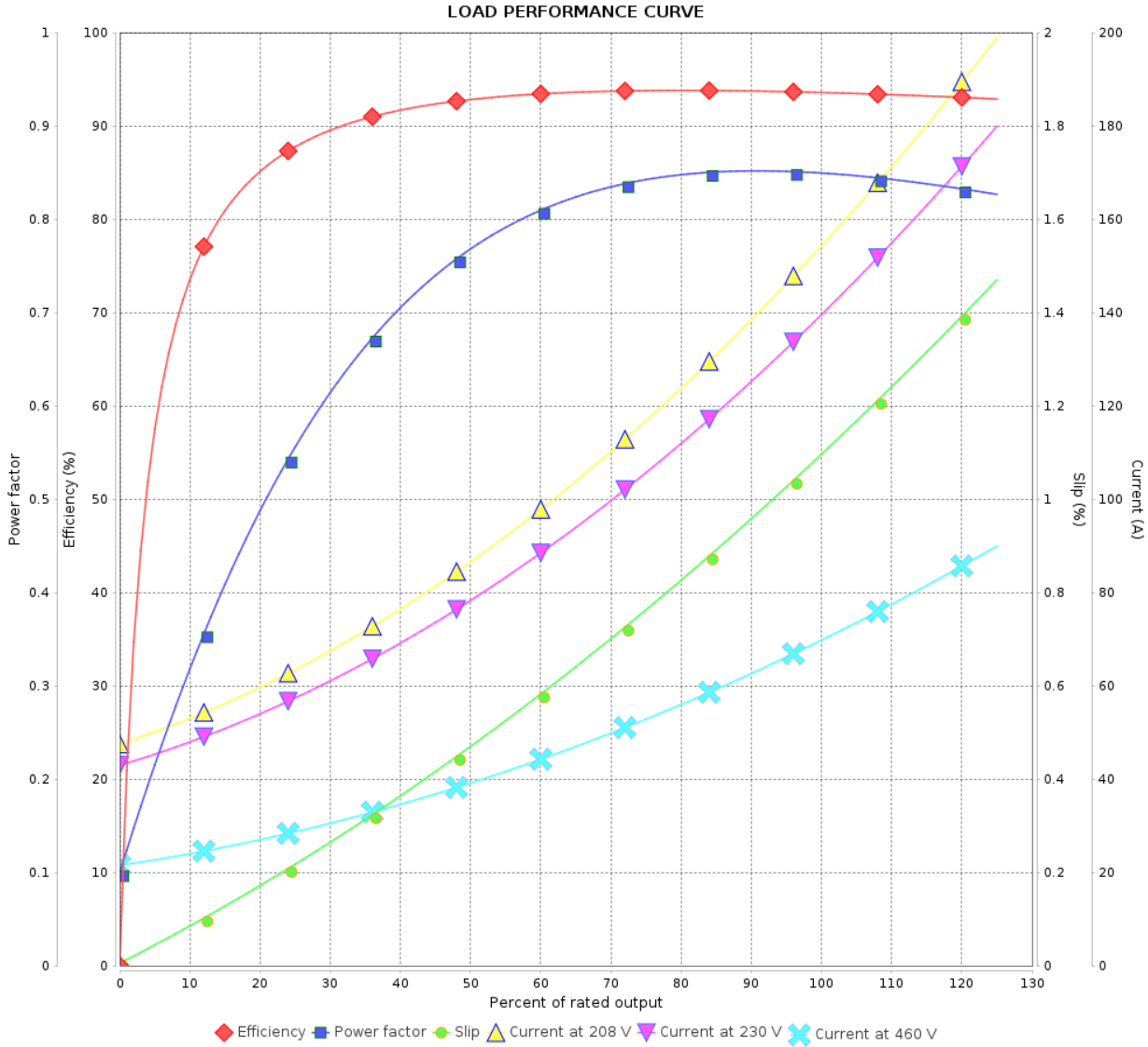
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 230/460 V 60 Hz 2P

Rated current : 142/71.0 A  
 LRC : 6.0  
 Rated torque : 12.2 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 229 %  
 Rated speed : 3560 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

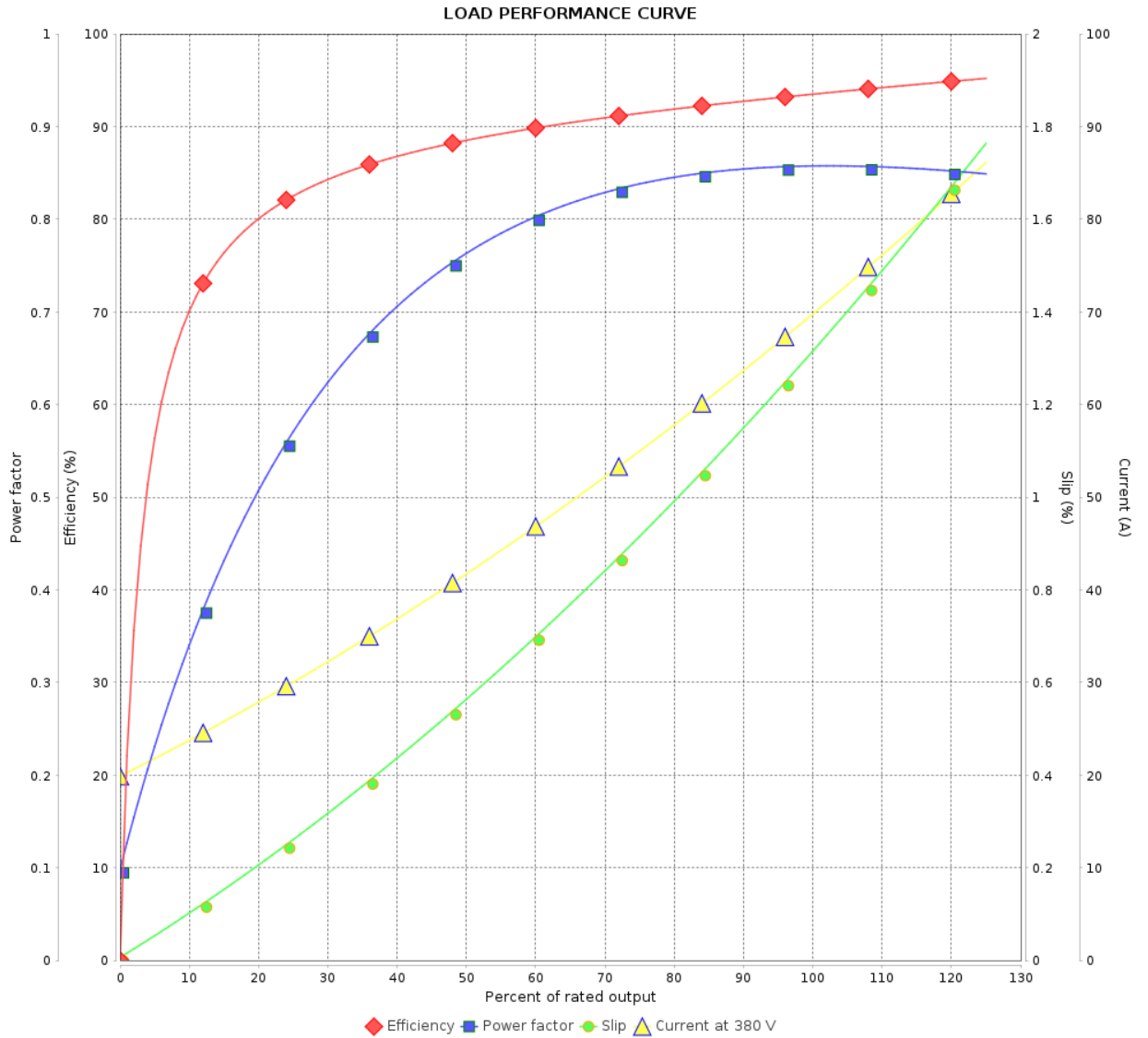
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A  
LRC : 5.5  
Rated torque : 12.3 kgfm  
Locked rotor torque : 210 %  
Breakdown torque : 210 %  
Rated speed : 2960 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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# LOAD PERFORMANCE CURVE

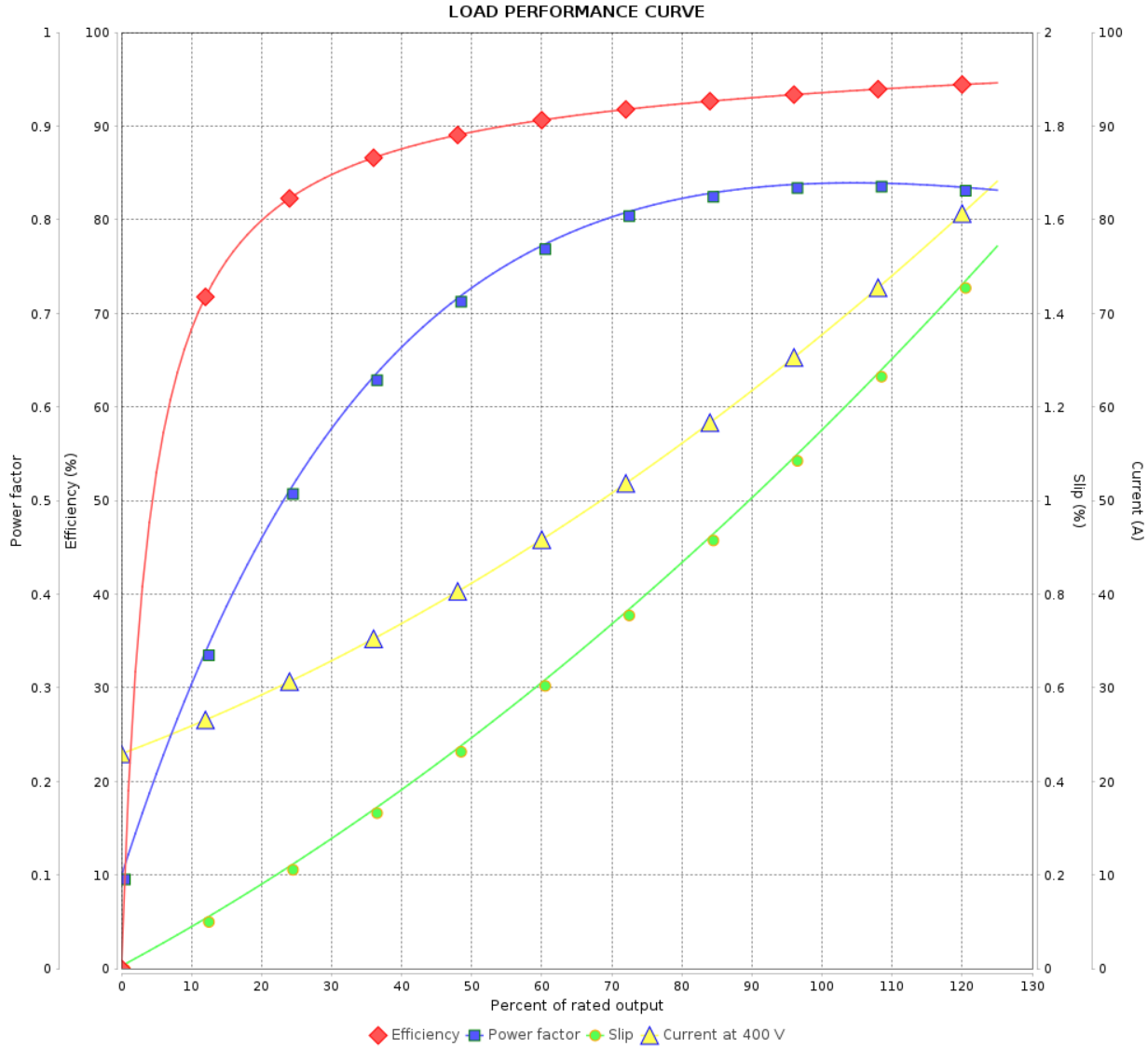
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 400 V 50 Hz 2P IE3

Rated current : 67.9 A  
LRC : 6.2  
Rated torque : 12.2 kgfm  
Locked rotor torque : 229 %  
Breakdown torque : 240 %  
Rated speed : 2965 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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# LOAD PERFORMANCE CURVE

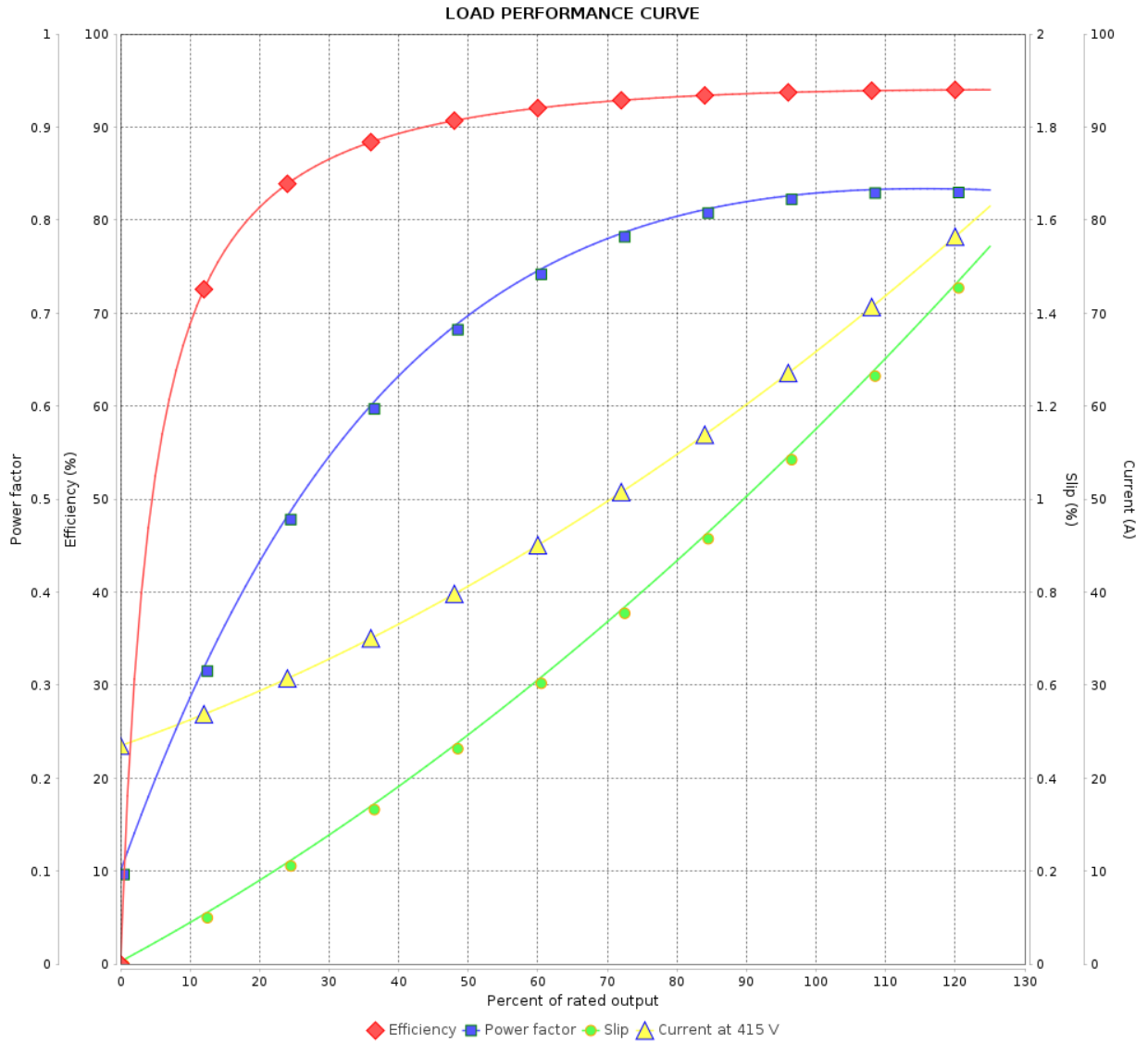
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 415 V 50 Hz 2P IE3

Rated current : 66.1 A  
LRC : 7.0  
Rated torque : 12.2 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Rated speed : 2965 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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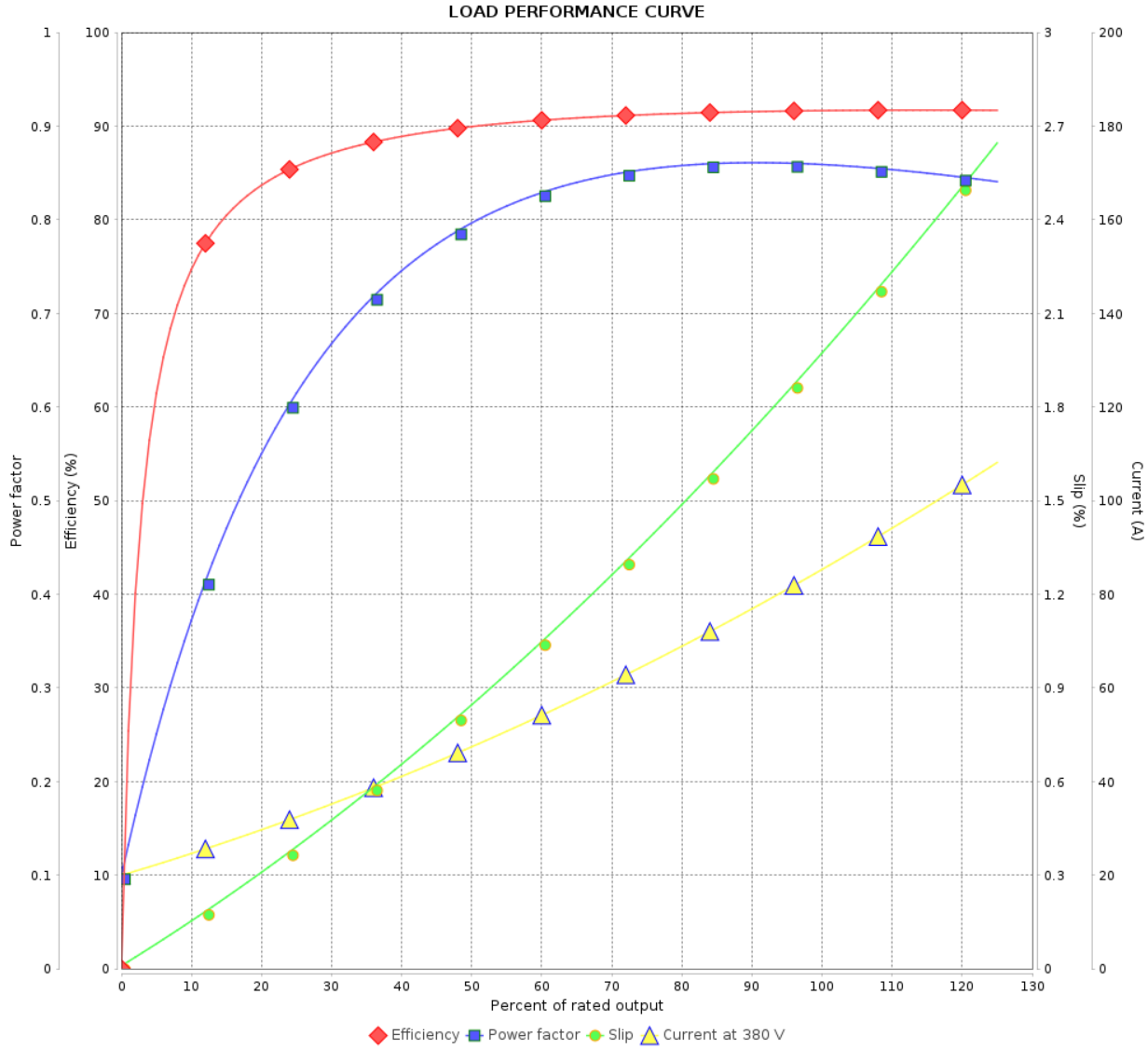
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 380 V 50 Hz 2P IE1

Rated current : 86.7 A  
 LRC : 4.8  
 Rated torque : 14.8 kgfm  
 Locked rotor torque : 170 %  
 Breakdown torque : 180 %  
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

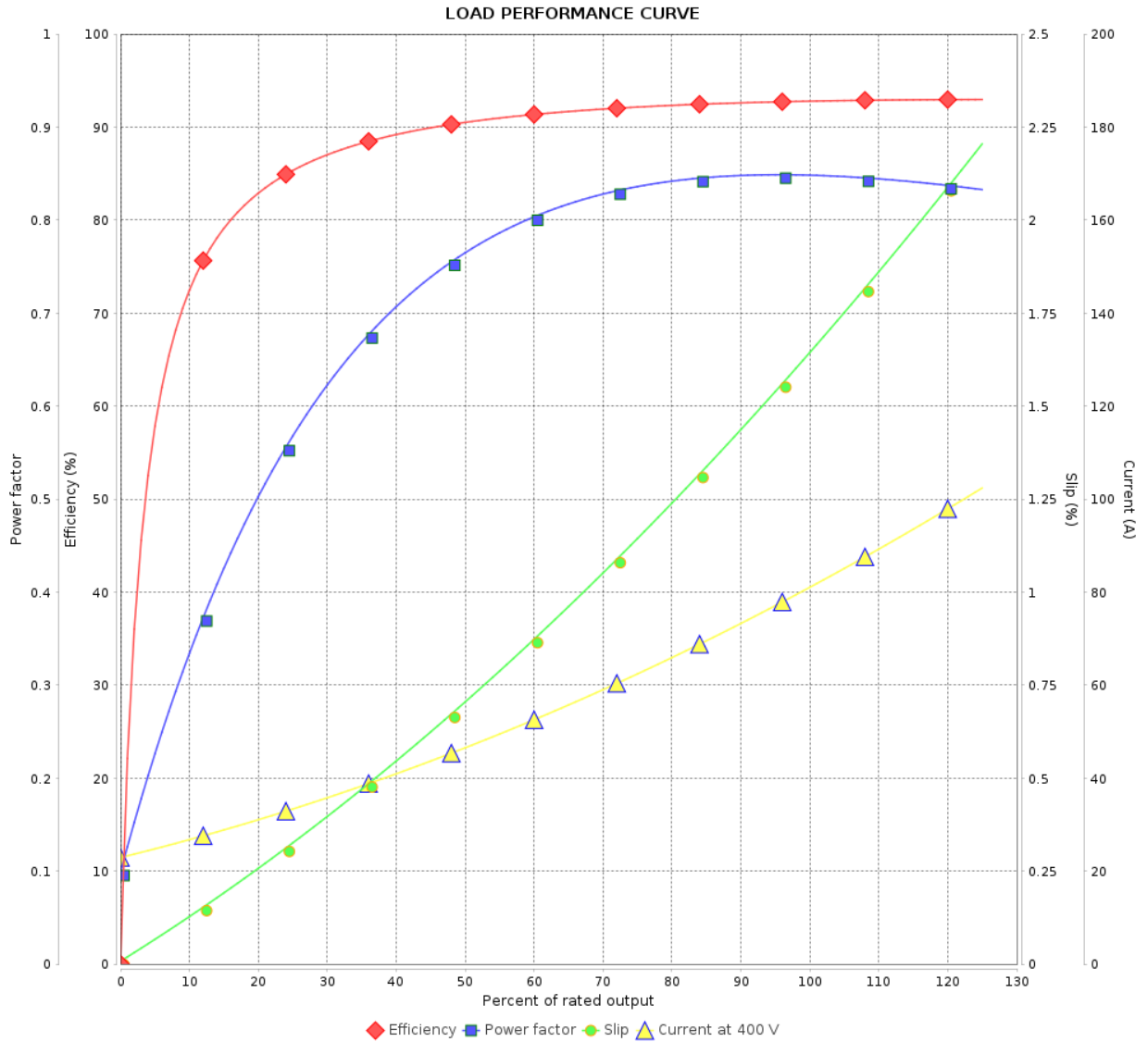
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 400 V 50 Hz 2P IE2

Rated current : 82.3 A  
 LRC : 5.3  
 Rated torque : 14.8 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 200 %  
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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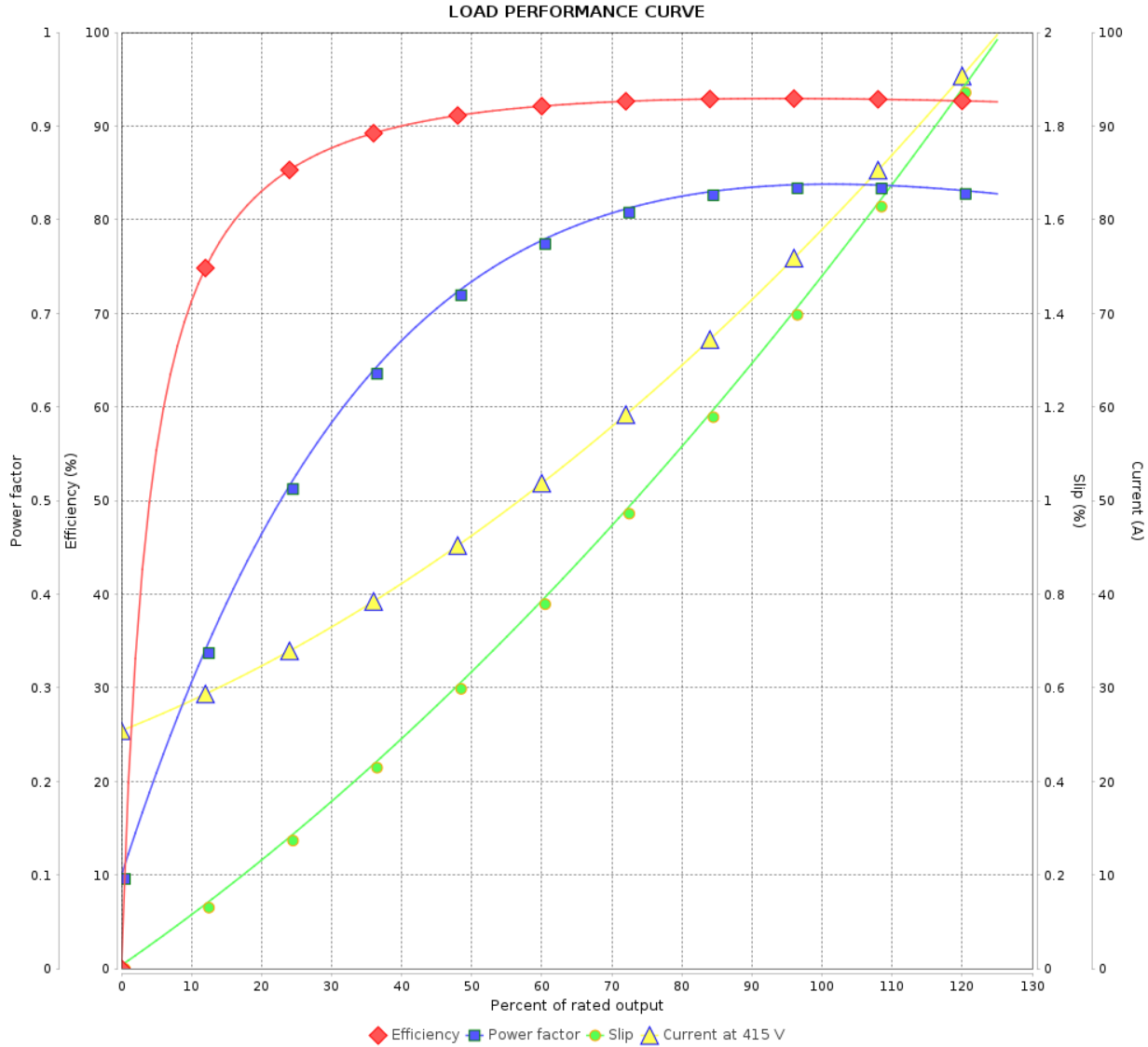
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Close Coupled Pump NEMA Premium  
Efficiency Three-Phase

Product code : 11261502



Performance : 415 V 50 Hz 2P IE2

Rated current : 80.1 A  
LRC : 6.0  
Rated torque : 14.7 kgfm  
Locked rotor torque : 200 %  
Breakdown torque : 210 %  
Rated speed : 2955 rpm

Moment of inertia (J) : 0.1839 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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