

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase Product code : 11101303

Frame	: 284TS	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	: 146 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0795 kgm ²
Design	: B		

Output [HP]	30	25	25	25	30	30	30
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]	70.0/35.0	35.0	34.0	33.6	42.4	40.9	40.2
L. R. Amperes [A]	441/221	231	238	225	225	237	261
LRC [A]	6.3x(Code G)	6.6x(Code G)	7.0x(Code H)	6.7x(Code H)	5.3x(Code E)	5.8x(Code F)	6.5x(Code G)
No load current [A]	25.8/12.9	12.0	13.0	14.0	11.5	12.5	14.0
Rated speed [RPM]	3550	2945	2950	2955	2925	2935	2945
Slip [%]	1.39	1.83	1.67	1.50	2.50	2.17	1.83
Rated torque [kgfm]	6.13	6.16	6.15	6.14	7.44	7.42	7.39
Locked rotor torque [%]	180	170	190	200	160	180	200
Breakdown torque [%]	260	240	260	270	180	200	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	18s (cold) 10s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)
Noise level ²	72.0 dB(A)						
Efficiency (%)	25%	90.0	88.1	88.2	88.3	91.8	91.1
	50%	90.2	89.7	89.8	89.8	90.8	91.0
	75%	91.7	90.7	90.8	90.8	90.8	91.0
	100%	91.7	92.4	92.4	92.4	89.5	90.7
Power Factor	25%	0.47	0.50	0.45	0.42	0.56	0.47
	50%	0.73	0.75	0.70	0.66	0.80	0.71
	75%	0.82	0.83	0.80	0.77	0.86	0.81
	100%	0.86	0.87	0.85	0.83	0.88	0.84

Bearing type	Drive end	Non drive end	Foundation loads
	: 6311 Z C3	: 6211 Z C3	
Sealing	Without	Without	Max. compression : 305 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: 20000 h		
Lubricant amount	: 18 g	: 11 g	
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 76.7A SF 1.15 SFA 88.2A

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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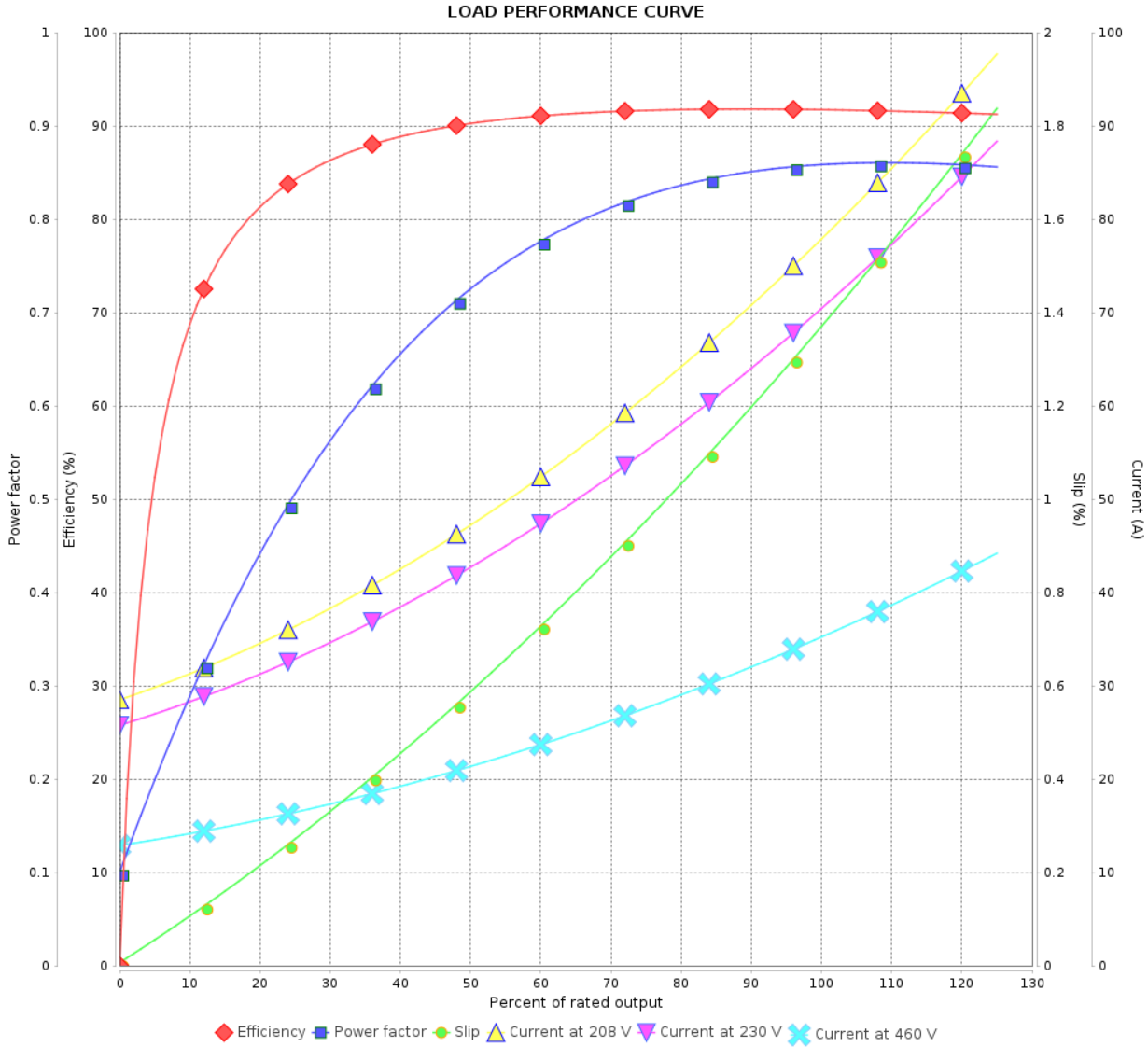
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 230/460 V 60 Hz 2P

Rated current : 70.0/35.0 A
 LRC : 6.3
 Rated torque : 6.13 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 260 %
 Rated speed : 3550 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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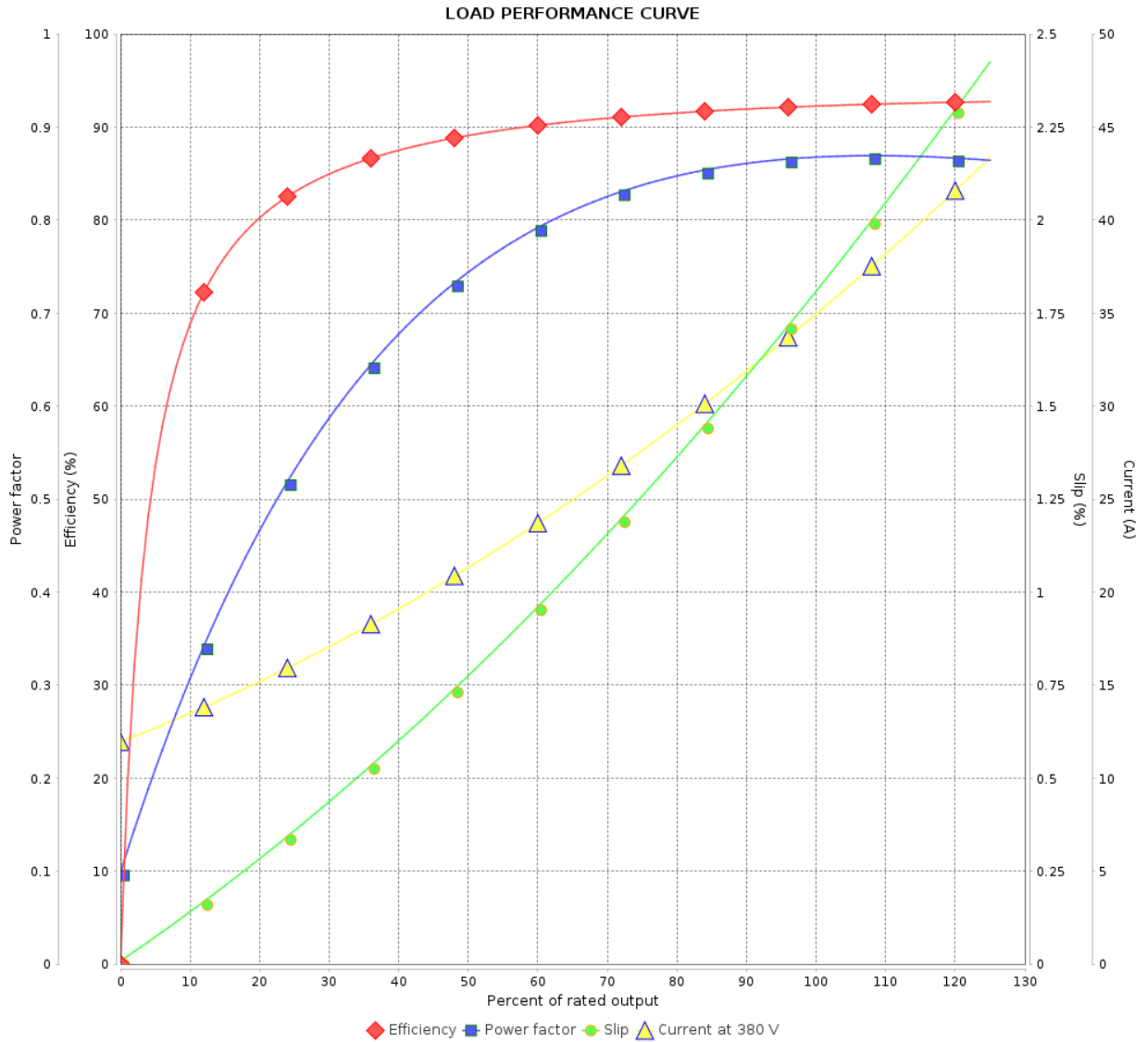
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 380 V 50 Hz 2P IE3

Rated current : 35.0 A
 LRC : 6.6
 Rated torque : 6.16 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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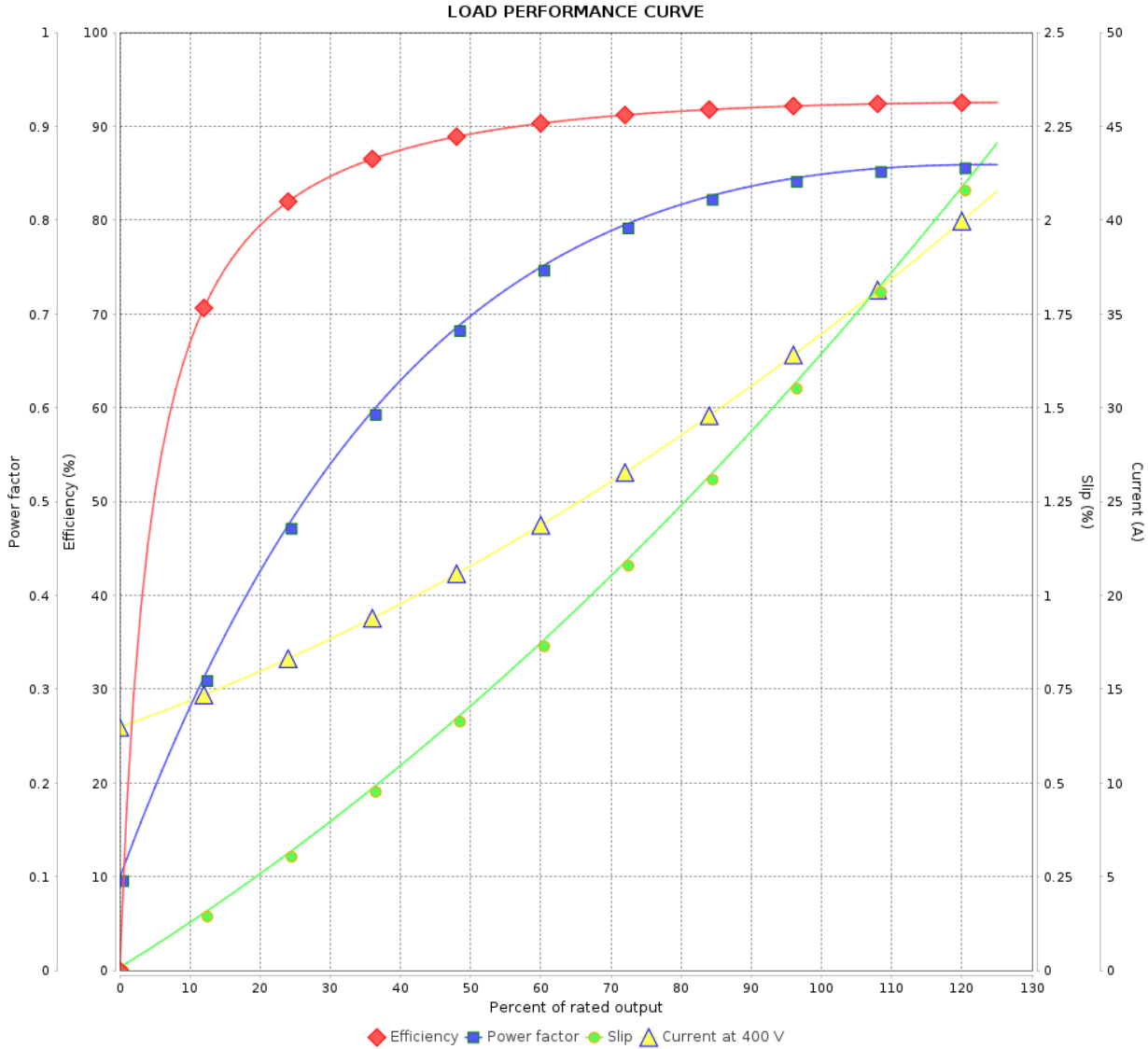
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 400 V 50 Hz 2P IE3

Rated current : 34.0 A
 LRC : 7.0
 Rated torque : 6.15 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 260 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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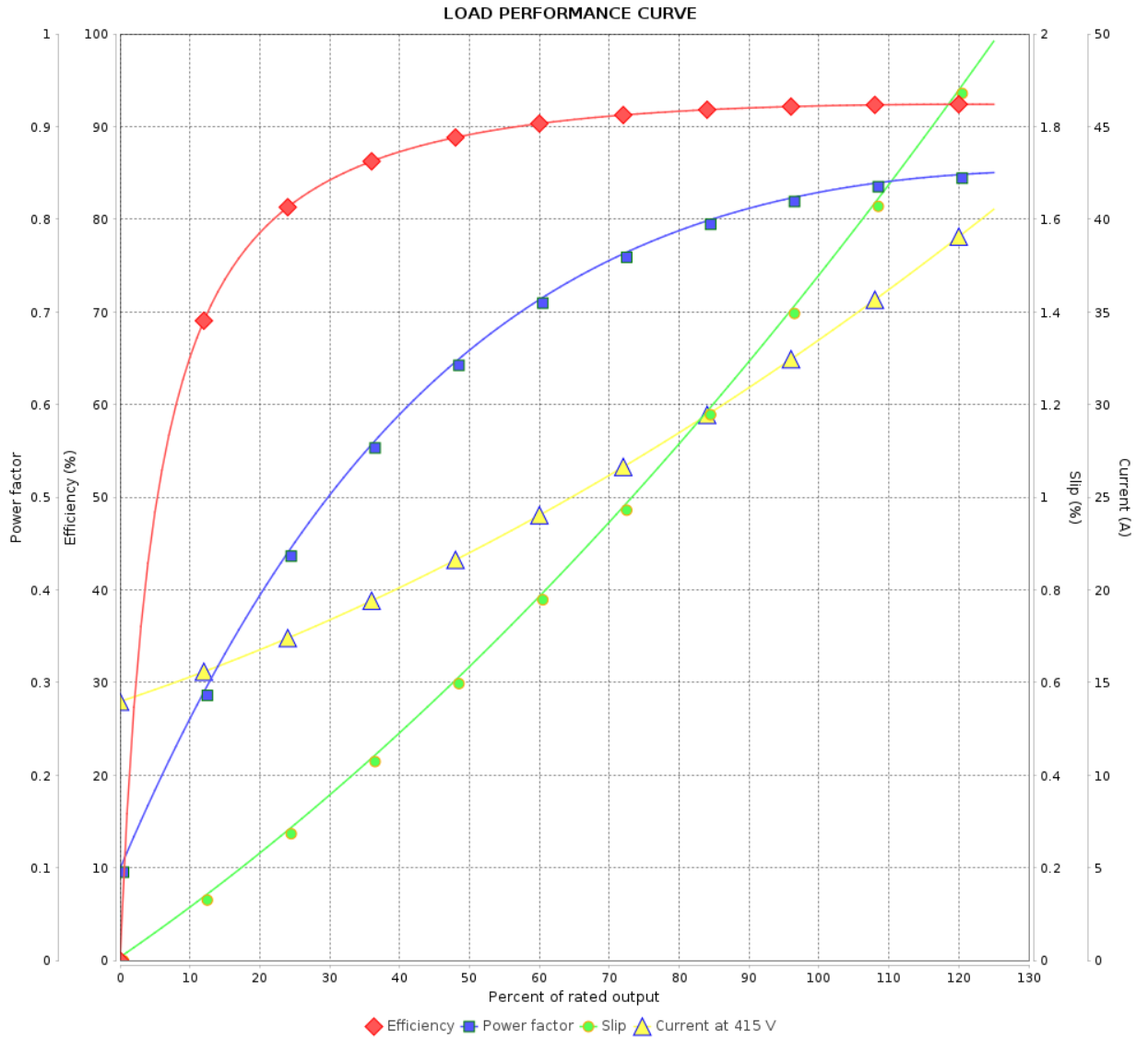
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 415 V 50 Hz 2P IE3

Rated current : 33.6 A
 LRC : 6.7
 Rated torque : 6.14 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 270 %
 Rated speed : 2955 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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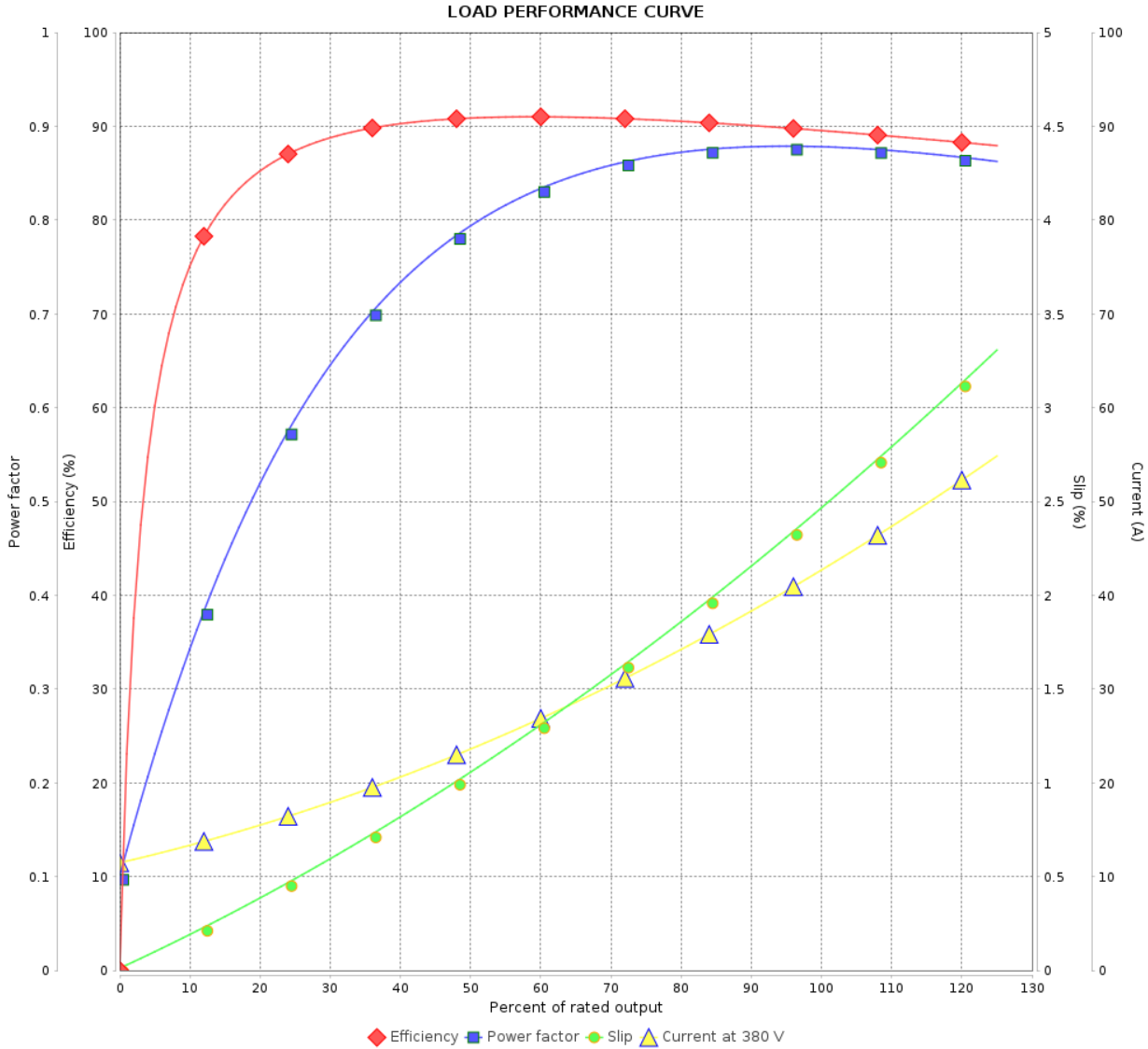
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 380 V 50 Hz 2P

Rated current : 42.4 A
 LRC : 5.3
 Rated torque : 7.44 kgfm
 Locked rotor torque : 160 %
 Breakdown torque : 180 %
 Rated speed : 2925 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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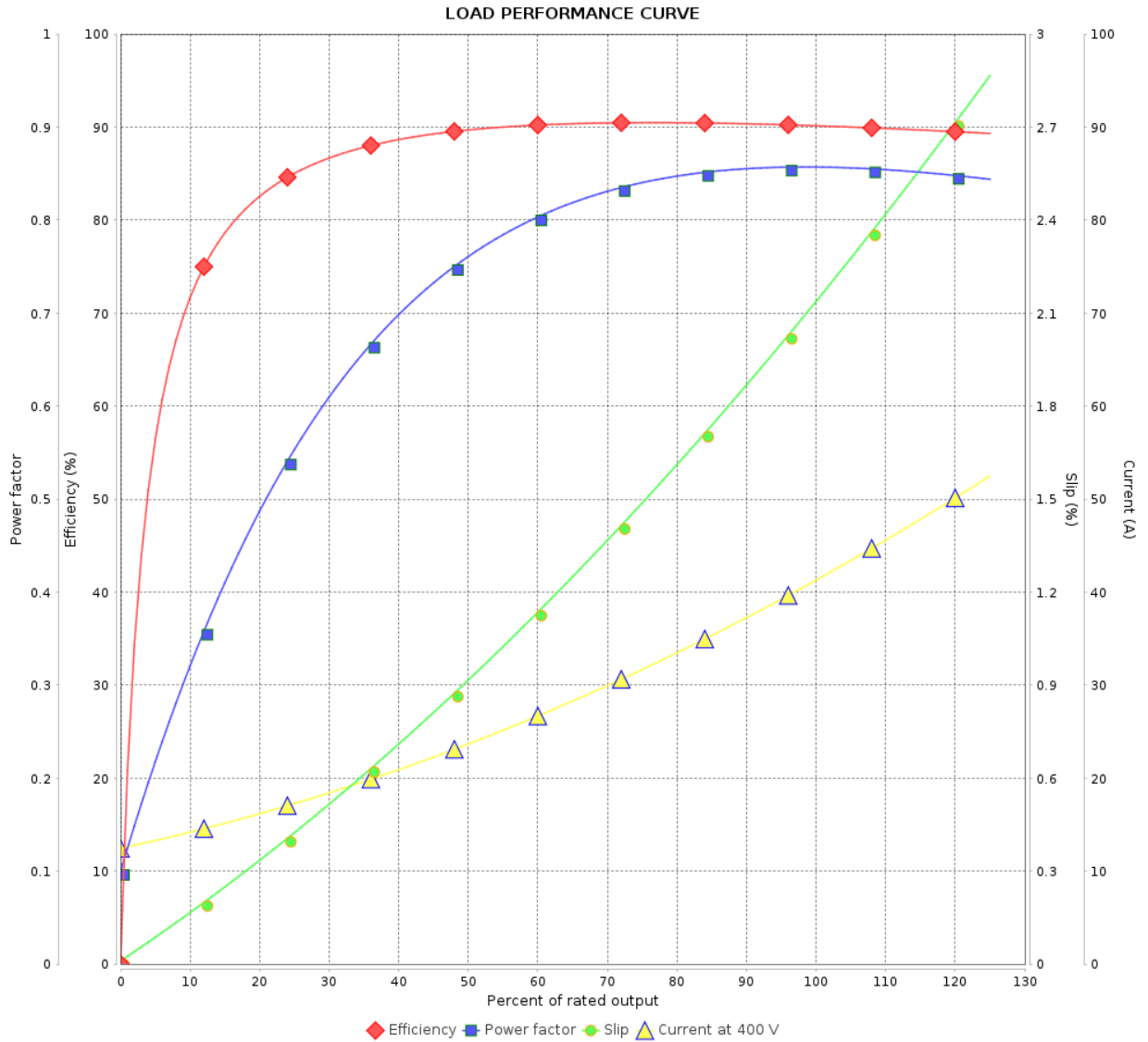
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 400 V 50 Hz 2P IE1

Rated current : 40.9 A
 LRC : 5.8
 Rated torque : 7.42 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 200 %
 Rated speed : 2935 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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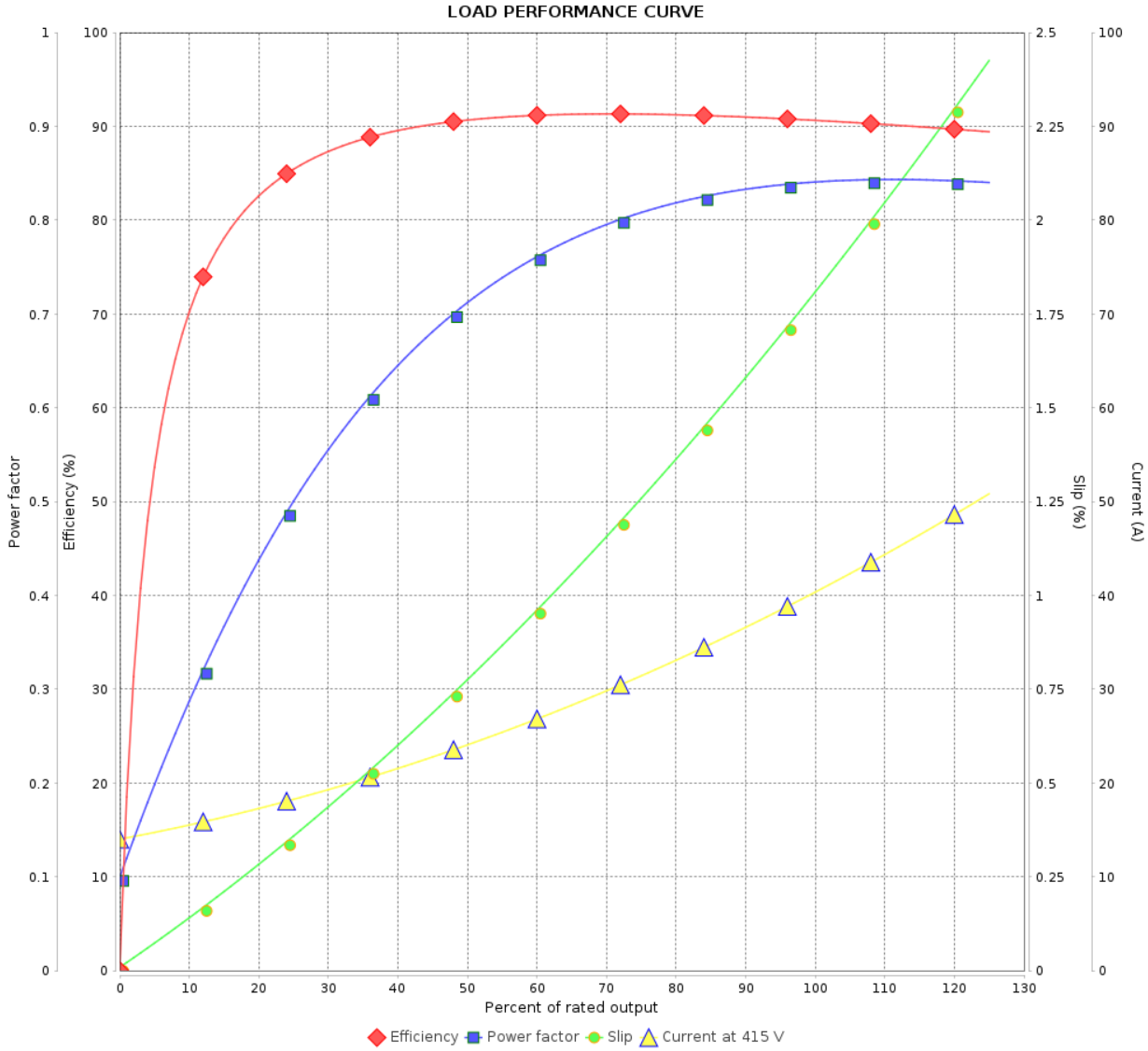
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11101303



Performance : 415 V 50 Hz 2P IE1

Rated current : 40.2 A
 LRC : 6.5
 Rated torque : 7.39 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.0795 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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