

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11355210

Frame	: 364/5TC	Cooling method	: IC411 - TEFC
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 ³	: 394 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.9448 kgm ²
Design	: B		

Output [HP]	60	50	50	50	60	60	60
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]	143/71.6	71.0	69.1	67.4	86.5	82.6	80.2
L. R. Amperes [A]	917/458	448	477	499	450	479	497
LRC [A]	6.4x(Code G)	6.3x(Code G)	6.9x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)
No load current [A]	56.0/28.0	27.6	29.8	31.6	27.6	29.8	31.6
Rated speed [RPM]	1780	1480	1482	1484	1470	1475	1477
Slip [%]	1.11	1.33	1.20	1.07	2.00	1.67	1.53
Rated torque [kgfm]	24	24	24	24	29	29	29
Locked rotor torque [%]	210	200	220	240	160	180	200
Breakdown torque [%]	240	240	260	280	200	210	229
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	27s (cold) 15s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²	67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%						
	50%	94.1	93.7	93.3	93.4	94.1	94.1
	75%	94.5	93.9	93.9	94.2	93.6	94.1
	100%	95.0	94.2	94.2	94.3	93.0	94.1
Power Factor	25%						
	50%	0.69	0.71	0.68	0.65	0.76	0.70
	75%	0.79	0.80	0.78	0.76	0.82	0.80
	100%	0.83	0.84	0.82	0.81	0.85	0.83

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	5.1	5.3	5.6	5.6	5.5	5.5	5.1
	P2 (0,5;1,0)	4.1	4.3	4.5	4.5	4.4	4.4	4.1
	P3 (0,25;1,0)	3.8	4.0	4.2	4.2	4.1	4.1	3.8
	P4 (0,9;0,5)	2.6	2.7	2.9	2.9	2.8	2.8	2.6
	P5 (0,5;0,5)	1.7	1.8	1.9	1.9	1.8	1.8	1.7
	P6 (0,5;0,25)	1.2	1.2	1.3	1.3	1.3	1.3	1.2
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8	0.8

Bearing type	Drive end	Non drive end	Foundation loads
	: 6314 C3	: 6314 C3	
	Sealing	Oil Seal	
	: Oil Seal	: Oil Seal	
	Lubrication interval	: 12000 h	
Lubricant amount	: 27 g	: 27 g	Max. traction : 566 kgf
	Lubricant type	: Mobil Polyrex EM	
			Max. compression : 957 kgf

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.

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 : _____

Notes
USABLE @208V 151A SF 1.10 SFA 166A

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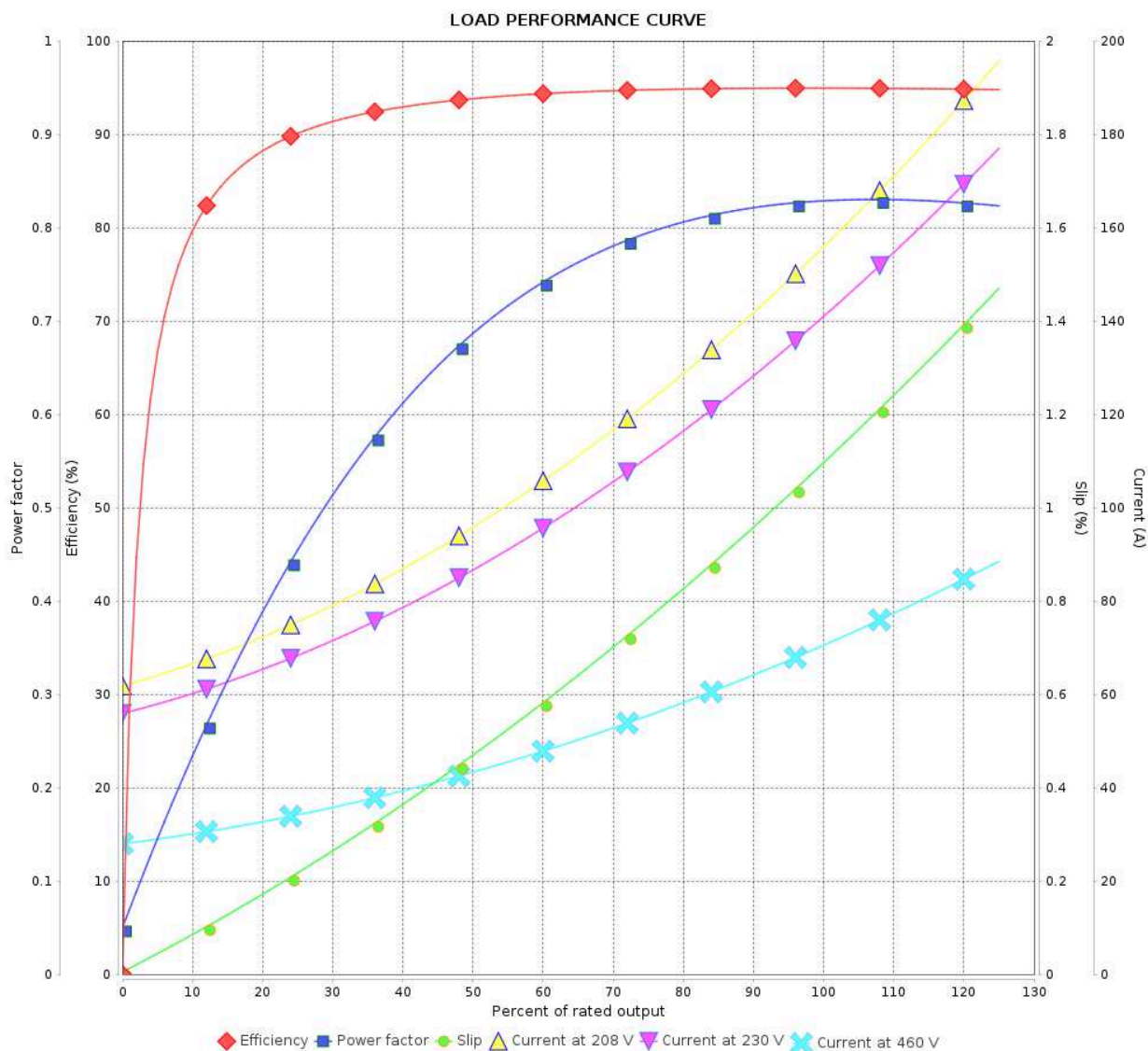
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 230/460 V 60 Hz 4P

Rated current : 143/71.6 A
LRC : 6.4
Rated torque : 24 kgfm
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1780 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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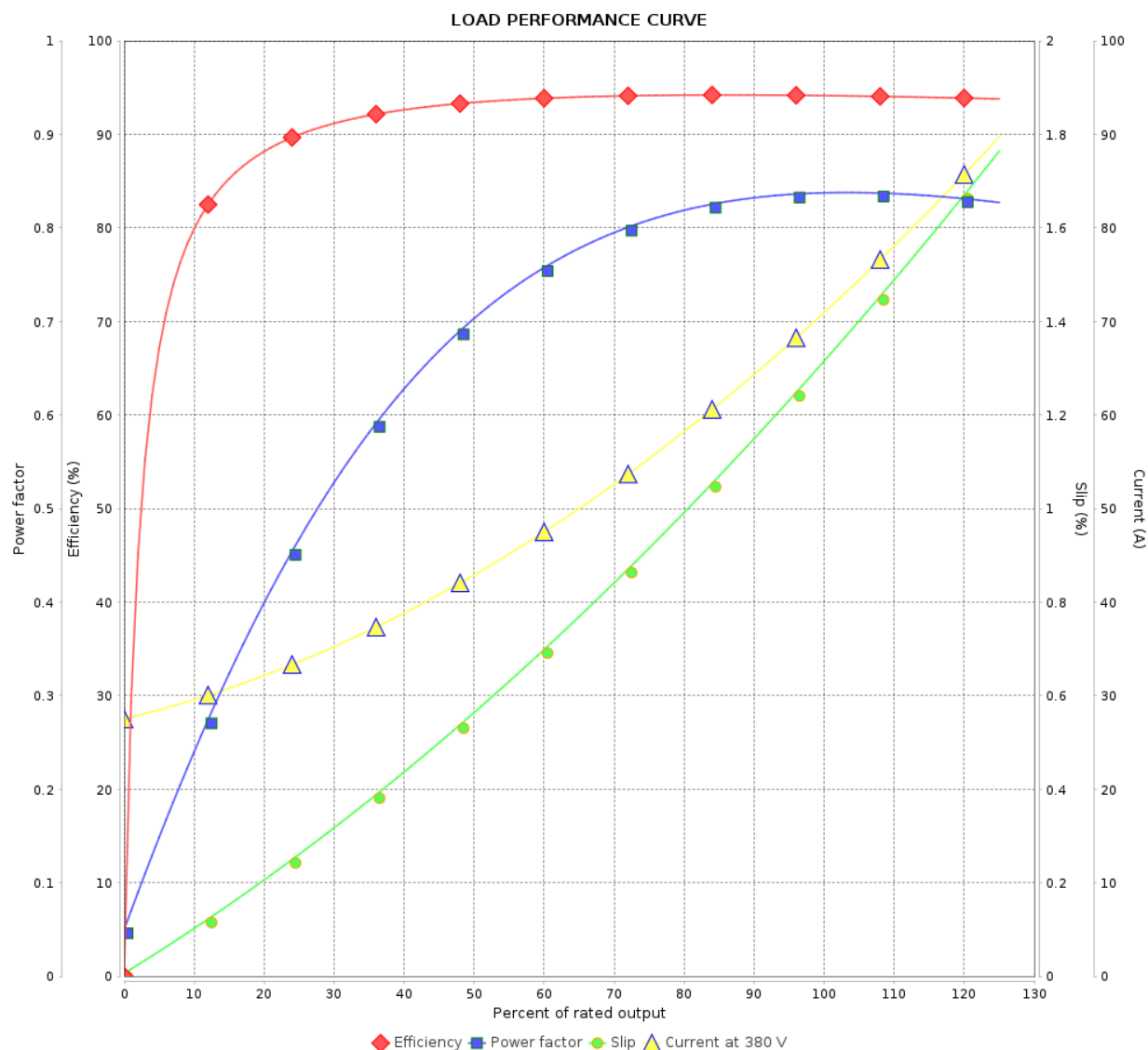
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 380 V 50 Hz 4P IE3

Rated current : 71.0 A
LRC : 6.3
Rated torque : 24 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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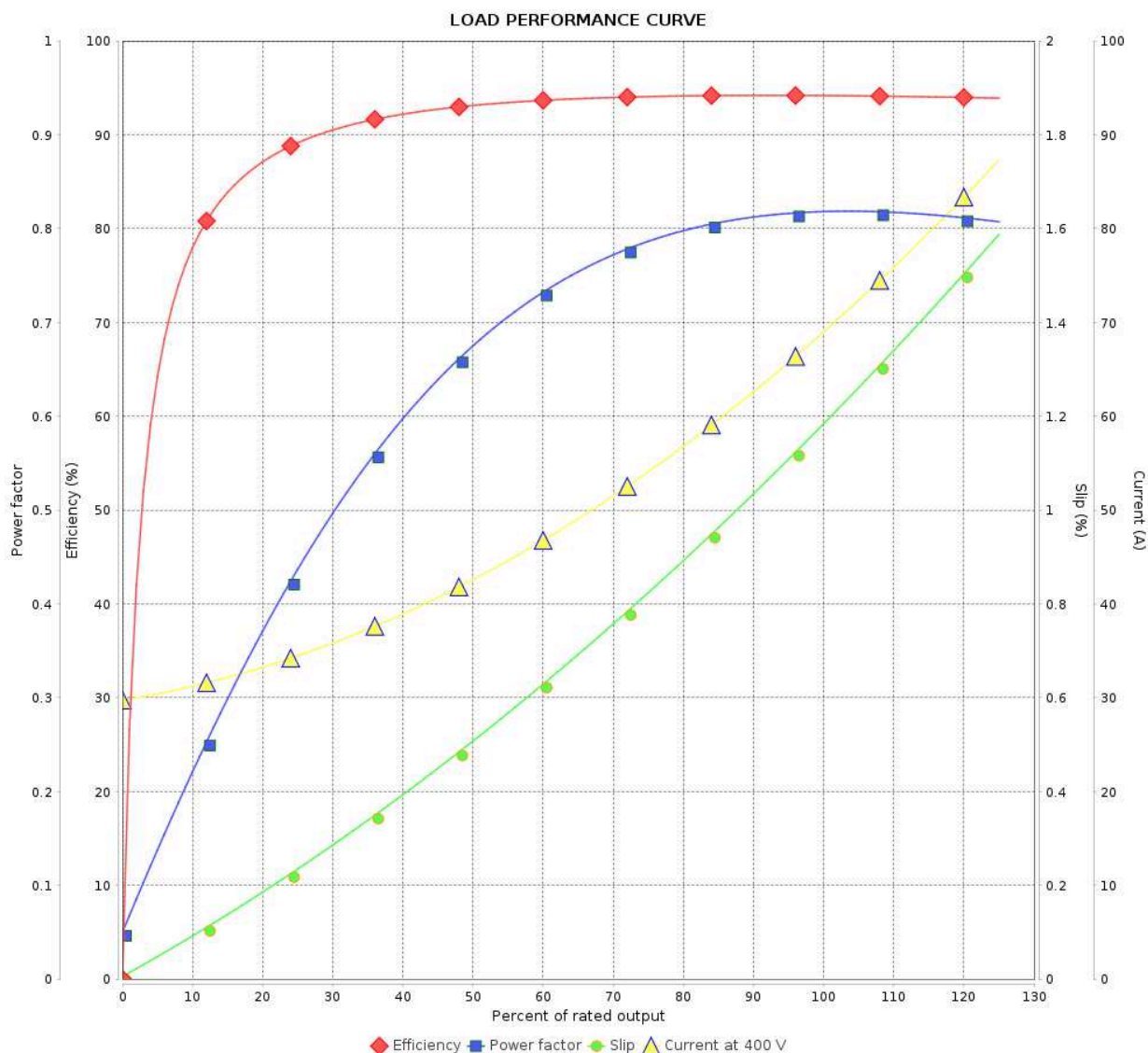
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 400 V 50 Hz 4P IE3

Rated current : 69.1 A
LRC : 6.9
Rated torque : 24 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 1482 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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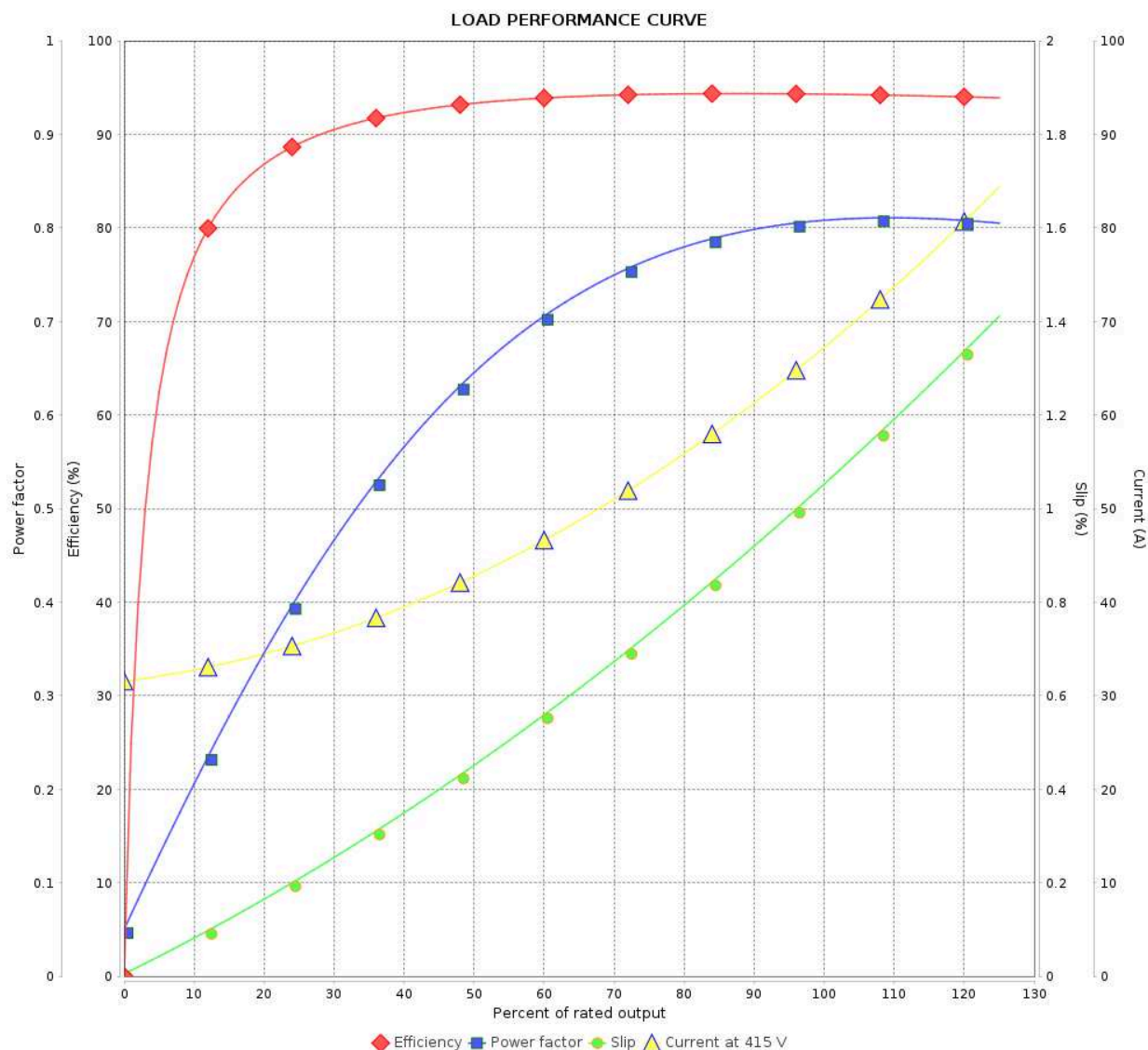
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 415 V 50 Hz 4P IE3

Rated current : 67.4 A
LRC : 7.4
Rated torque : 24 kgfm
Locked rotor torque : 240 %
Breakdown torque : 280 %
Rated speed : 1484 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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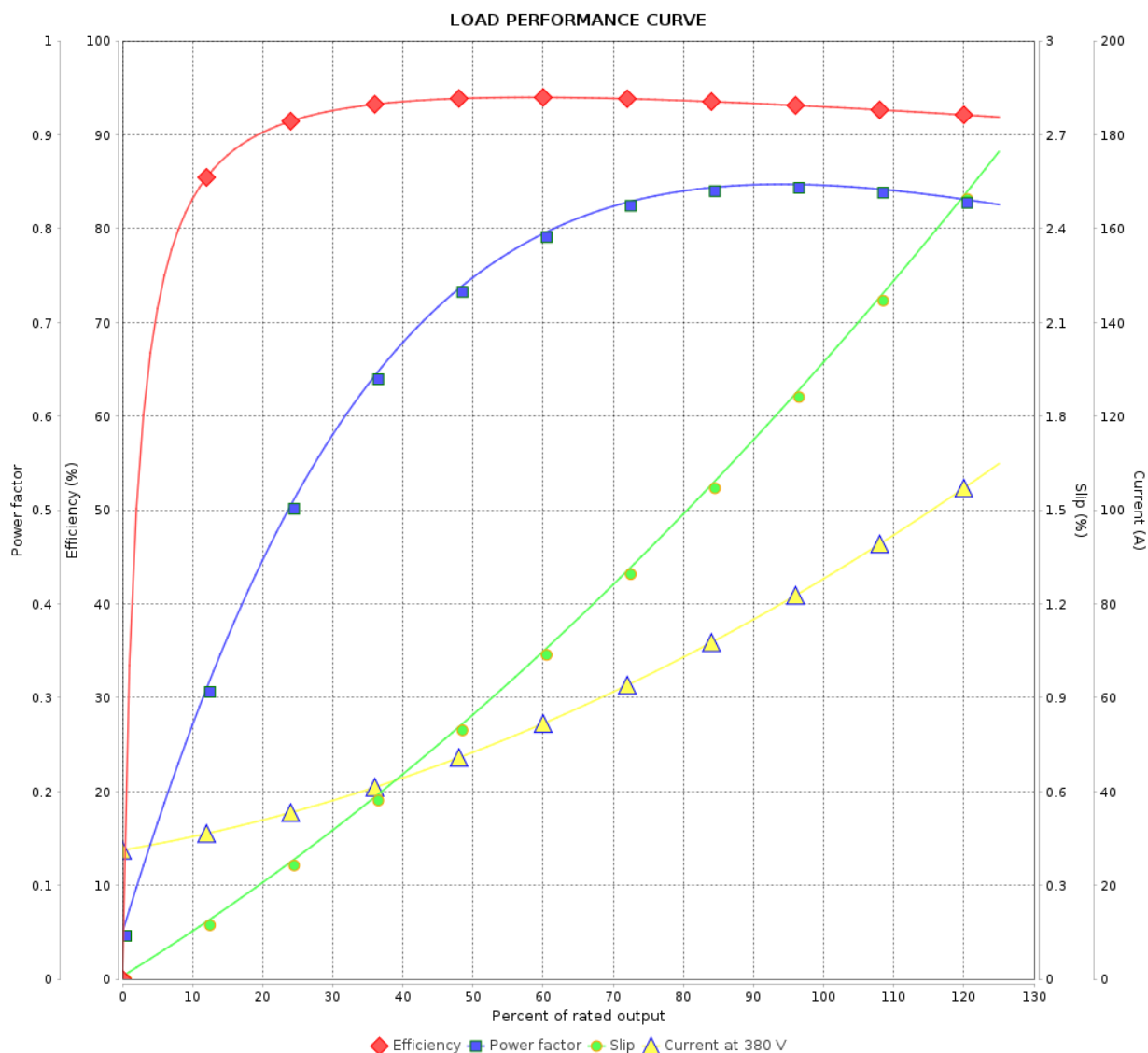
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 380 V 50 Hz 4P IE1

Rated current : 86.5 A
LRC : 5.2
Rated torque : 29 kgfm
Locked rotor torque : 160 %
Breakdown torque : 200 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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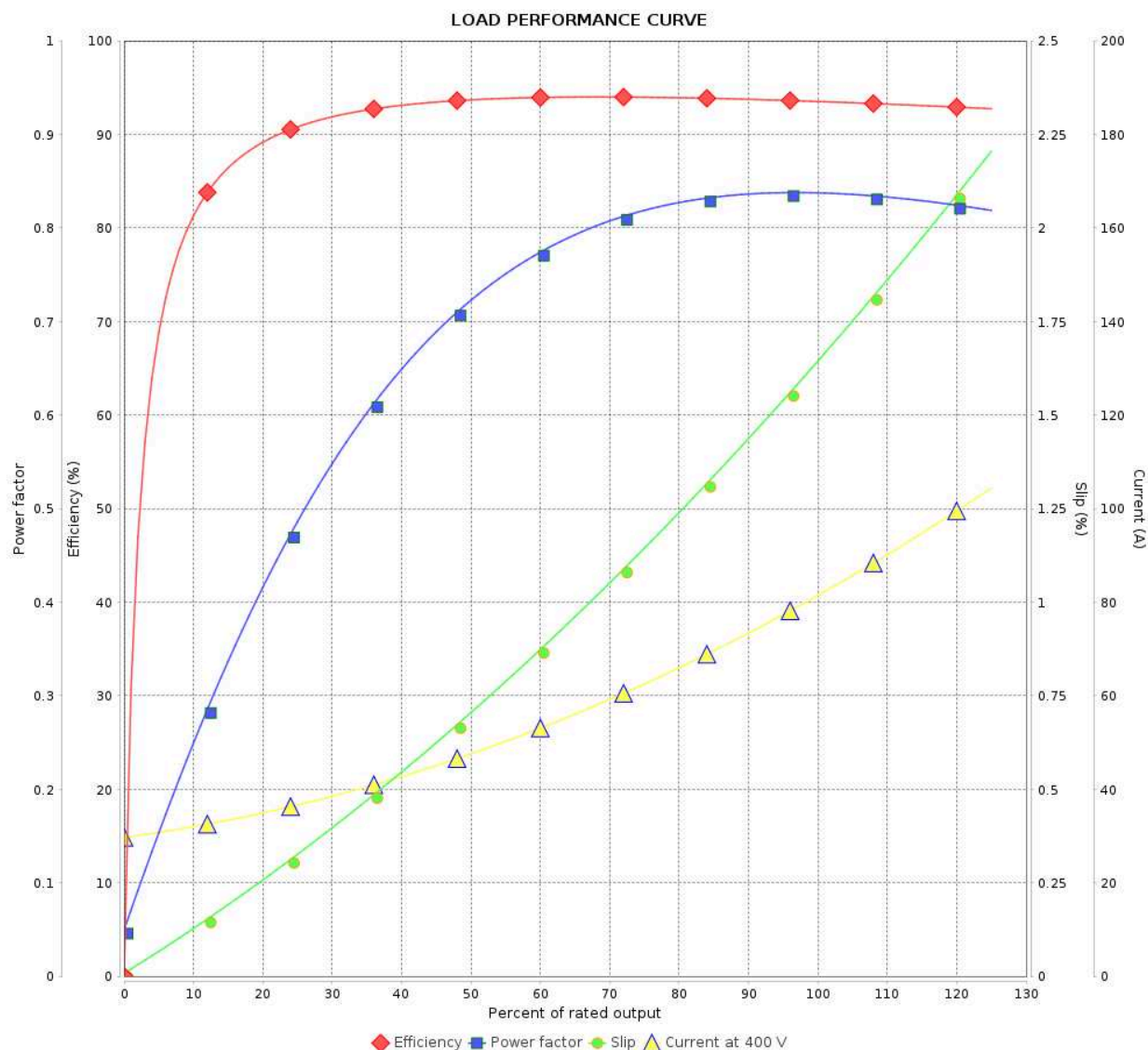
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 400 V 50 Hz 4P IE2

Rated current : 82.6 A
LRC : 5.8
Rated torque : 29 kgfm
Locked rotor torque : 180 %
Breakdown torque : 210 %
Rated speed : 1475 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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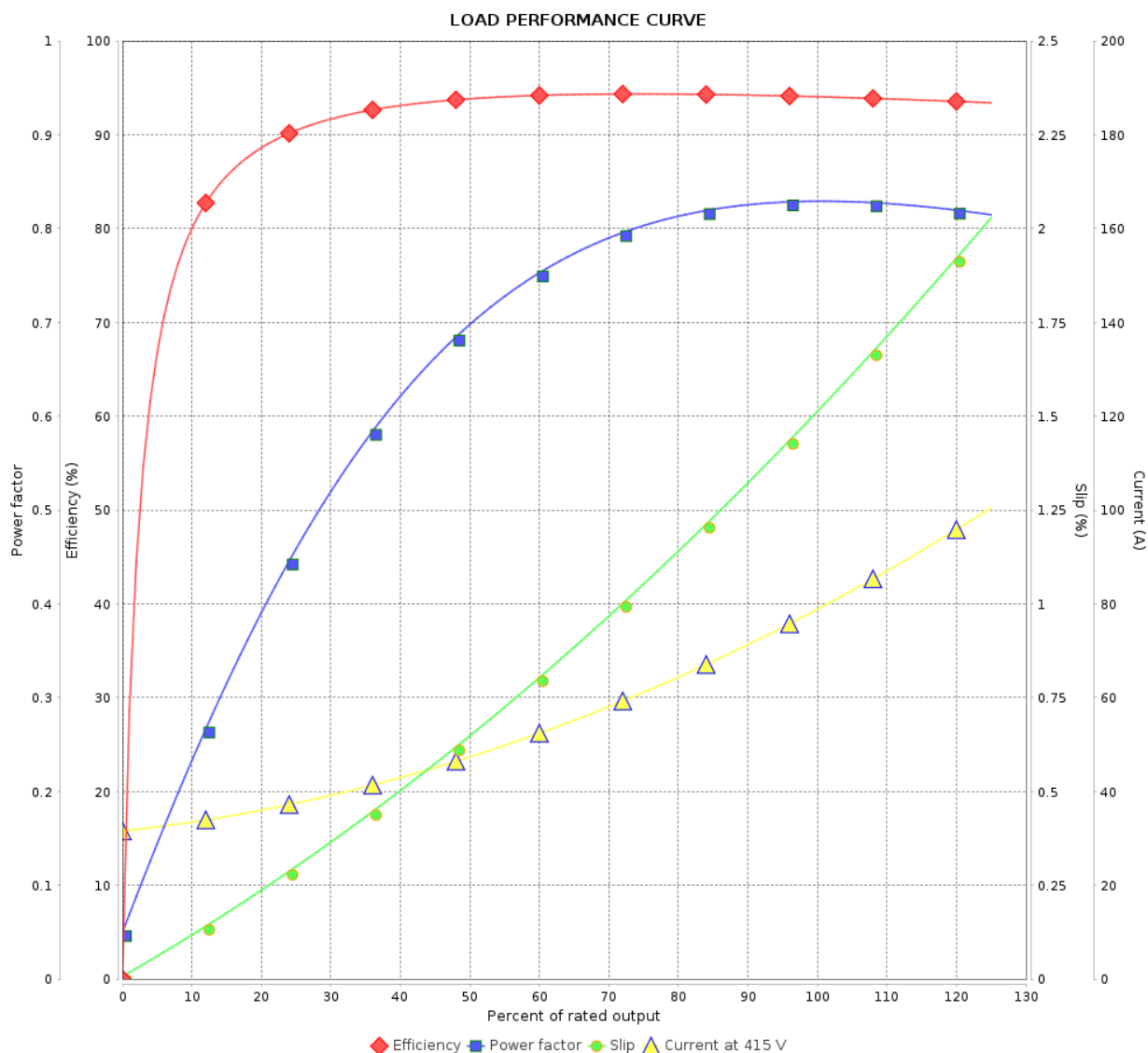
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355210



Performance : 415 V 50 Hz 4P IE2

Rated current : 80.2 A
LRC : 6.2
Rated torque : 29 kgfm
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1477 rpm

Moment of inertia (J) : 0.9448 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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