

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446750

Frame	: 284/6TC	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	: 172 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3310 kgm ²
Design	: B		

Output [HP]	15	10	10	10	15	15	15
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	35.8/17.9	15.5	15.1	15.0	22.2	20.9	20.2
L. R. Amperes [A]	233/116	112	119	124	104	111	117
LRC [A]	6.5x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.8x(Code G)
No load current [A]	14.8/7.40	7.50	8.00	8.50	7.50	8.00	8.50
Rated speed [RPM]	1175	980	985	985	965	970	975
Slip [%]	2.08	2.00	1.50	1.50	3.50	3.00	2.50
Rated torque [kgfm]	9	7	7	7	11	11	11
Locked rotor torque [%]	229	270	300	330	170	200	220
Breakdown torque [%]	240	290	340	360	200	220	240
Service factor	1.25	1.25	1.25	1.25	1.00	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	55s (cold) 31s (hot)	50s (cold) 28s (hot)	46s (cold) 26s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%						
	50%	91.0	89.0	89.1	89.1	91.0	90.2
	75%	91.7	89.4	89.5	89.5	90.2	90.2
	100%	91.7	89.4	89.5	89.5	88.5	89.5
Power Factor	25%						
	50%	0.69	0.64	0.61	0.58	0.73	0.72
	75%	0.80	0.76	0.73	0.71	0.82	0.81
	100%	0.84	0.82	0.80	0.78	0.85	0.85

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

Losses (%)	P1 (0,9;1,0)	8.5	11.0	11.0	11.2	9.2	8.9	8.8
	P2 (0,5;1,0)	6.8	8.8	8.8	8.9	7.3	7.1	7.0
	P3 (0,25;1,0)	6.4	8.2	8.2	8.3	6.9	6.7	6.6
	P4 (0,9;0,5)	5.1	6.6	6.6	6.7	5.5	5.3	5.3
	P5 (0,5;0,5)	3.4	4.4	4.4	4.5	3.7	3.6	3.5
	P6 (0,5;0,25)	2.6	3.4	3.4	3.5	2.8	2.8	2.7
	P7 (0,25;0,25)	1.9	2.4	2.4	2.4	2.0	1.9	1.9

Bearing type	: 6311 C3	Non drive end	6211 C3	Foundation loads	
Sealing	: V'Ring		V'Ring	Max. traction	: 292 kgf
Lubrication interval	: 20000 h		20000 h	Max. compression	: 474 kgf
Lubricant amount	: 18 g		11 g		
Lubricant type	: Mobil Polyrex EM				

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 39.6A SF 1.15 SFA 45.5A

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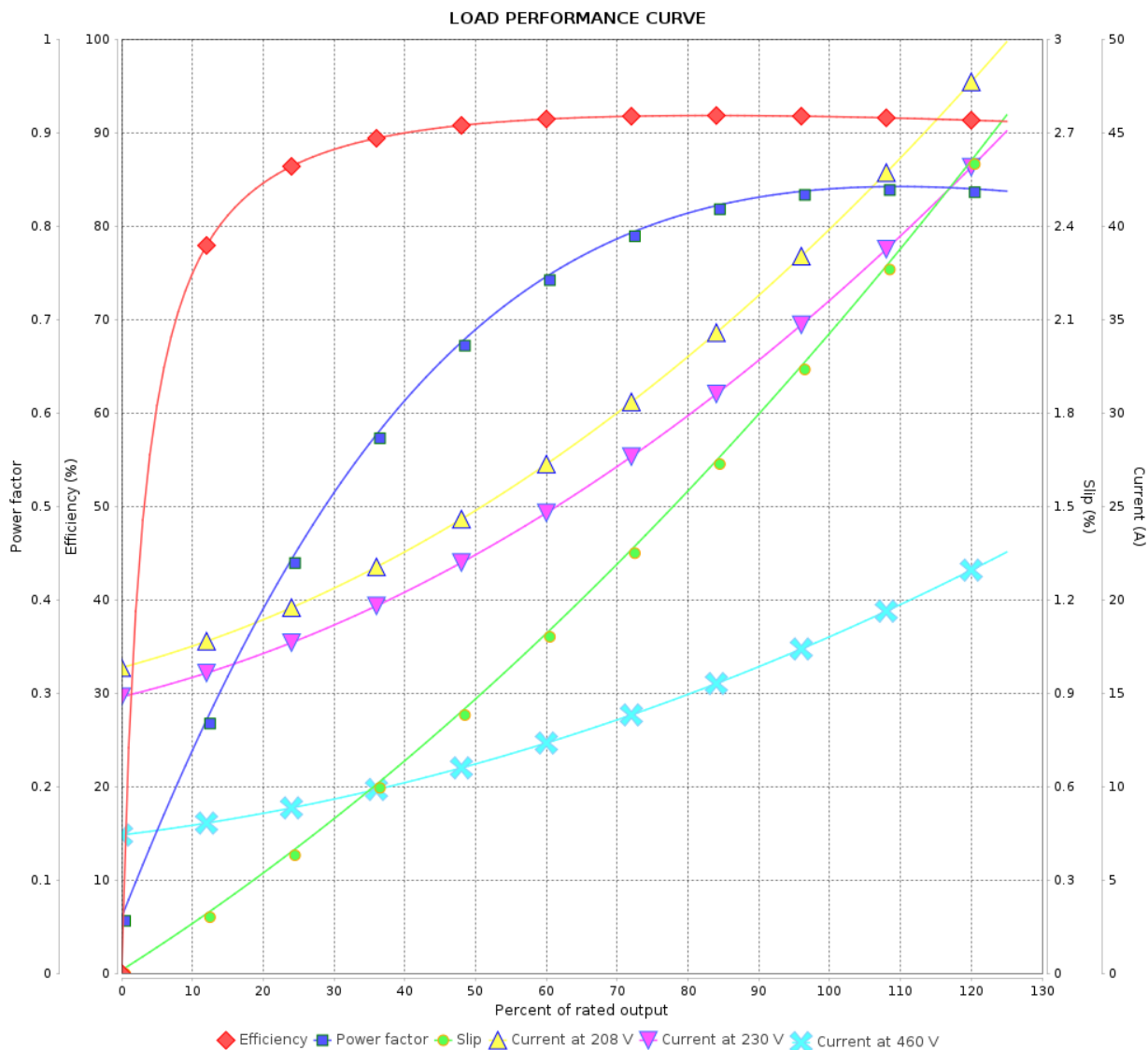
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 230/460 V 60 Hz 6P

Rated current : 35.8/17.9 A
LRC : 6.5
Rated torque : 9 kgfm
Locked rotor torque : 229 %
Breakdown torque : 240 %
Rated speed : 1175 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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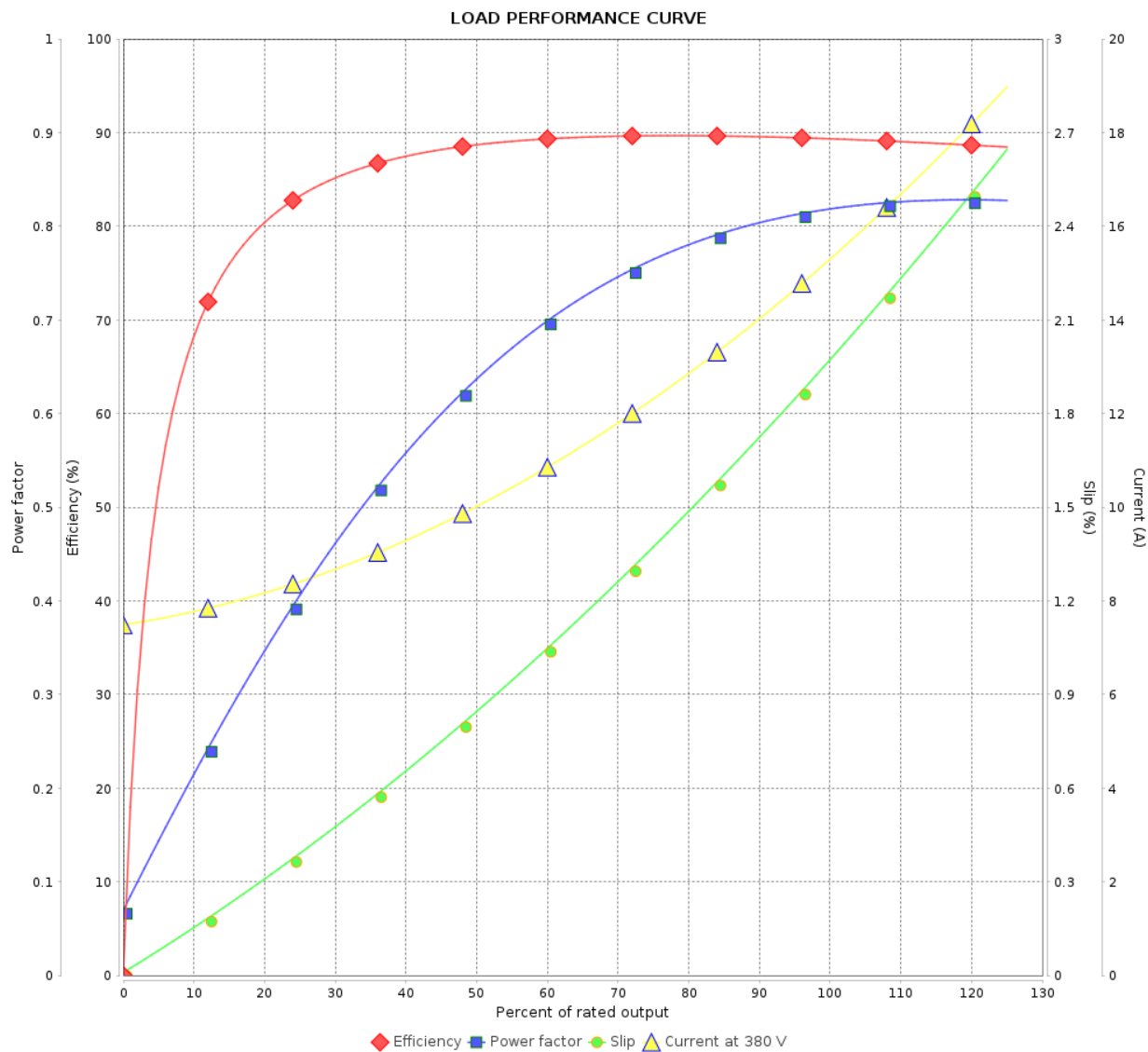
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 380 V 50 Hz 6P IE3

Rated current : 15.5 A
LRC : 7.2
Rated torque : 7 kgfm
Locked rotor torque : 270 %
Breakdown torque : 290 %
Rated speed : 980 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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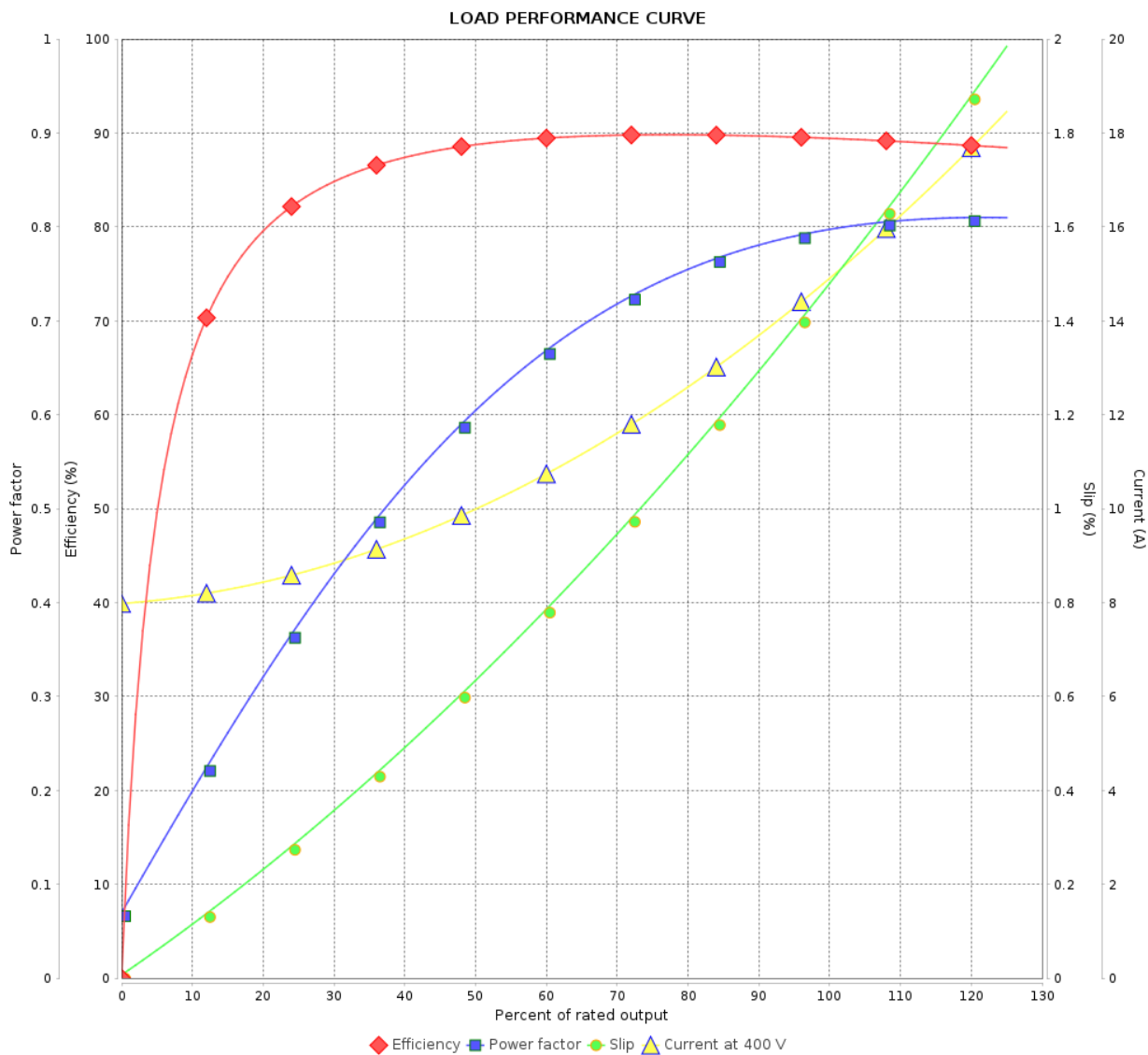
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 400 V 50 Hz 6P IE3

Rated current : 15.1 A
LRC : 7.9
Rated torque : 7 kgfm
Locked rotor torque : 300 %
Breakdown torque : 340 %
Rated speed : 985 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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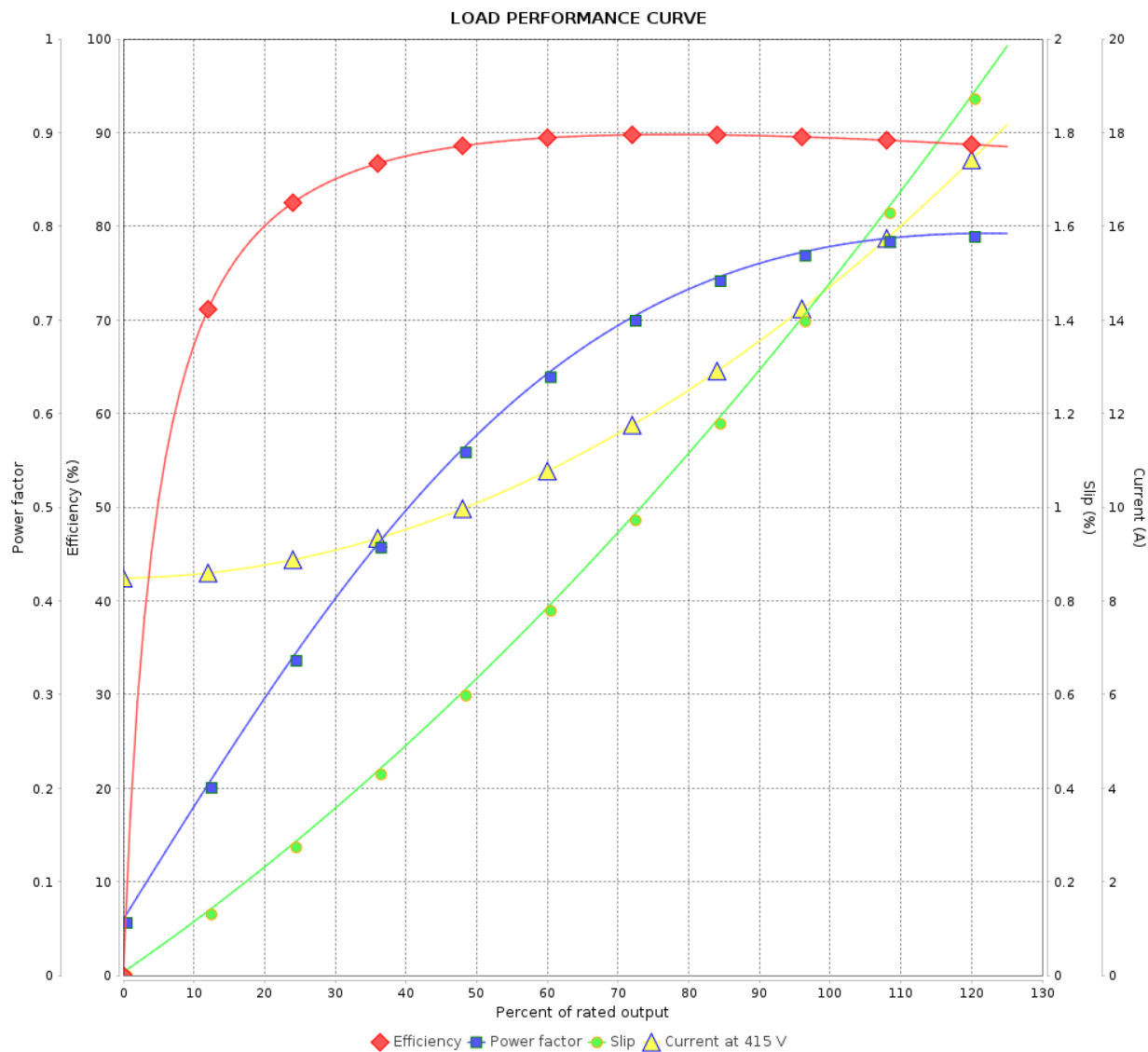
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 415 V 50 Hz 6P IE3

Rated current : 15.0 A
LRC : 8.3
Rated torque : 7 kgfm
Locked rotor torque : 330 %
Breakdown torque : 360 %
Rated speed : 985 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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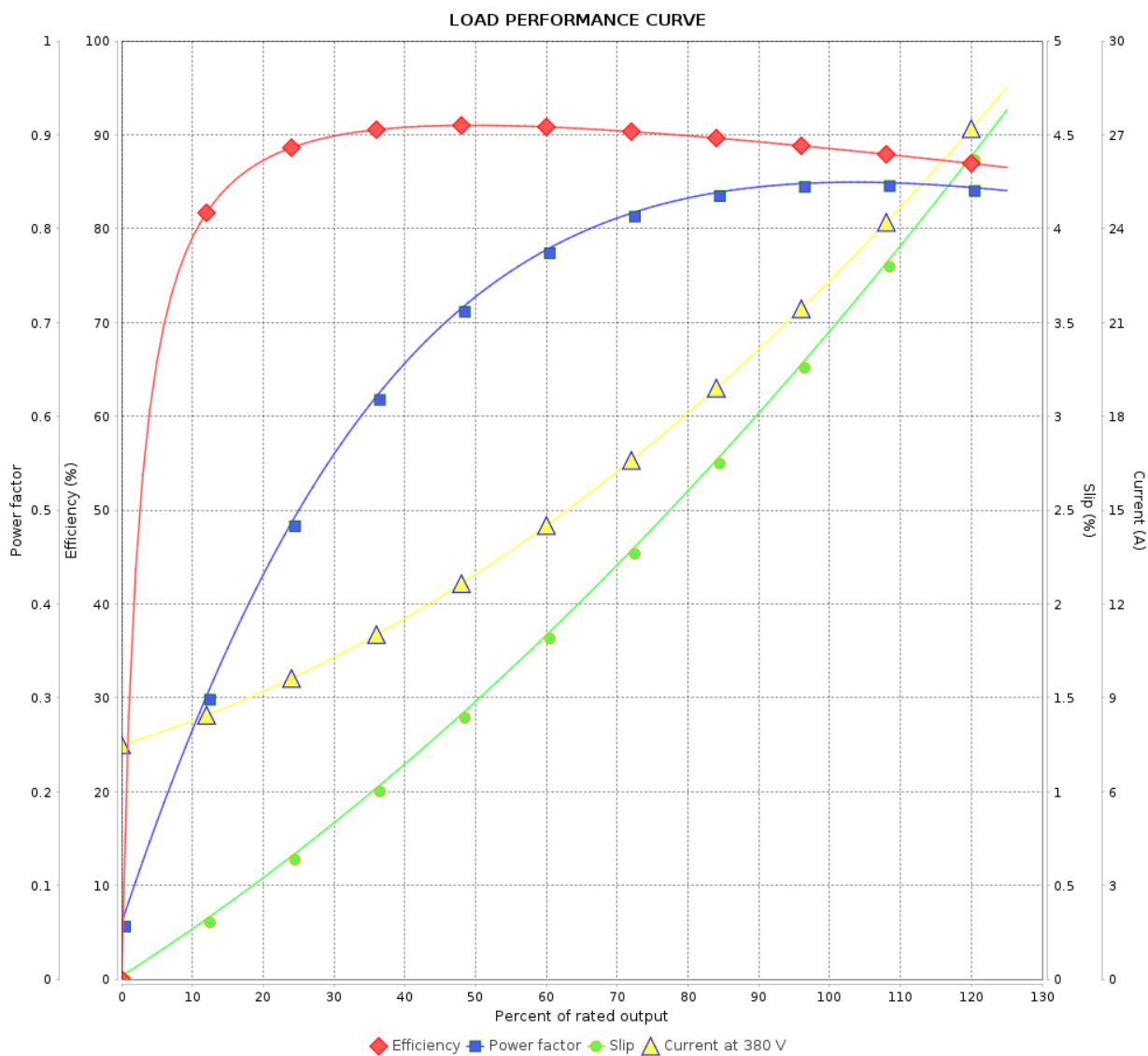
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 380 V 50 Hz 6P IE1

Rated current : 22.2 A
LRC : 4.7
Rated torque : 11 kgfm
Locked rotor torque : 170 %
Breakdown torque : 200 %
Rated speed : 965 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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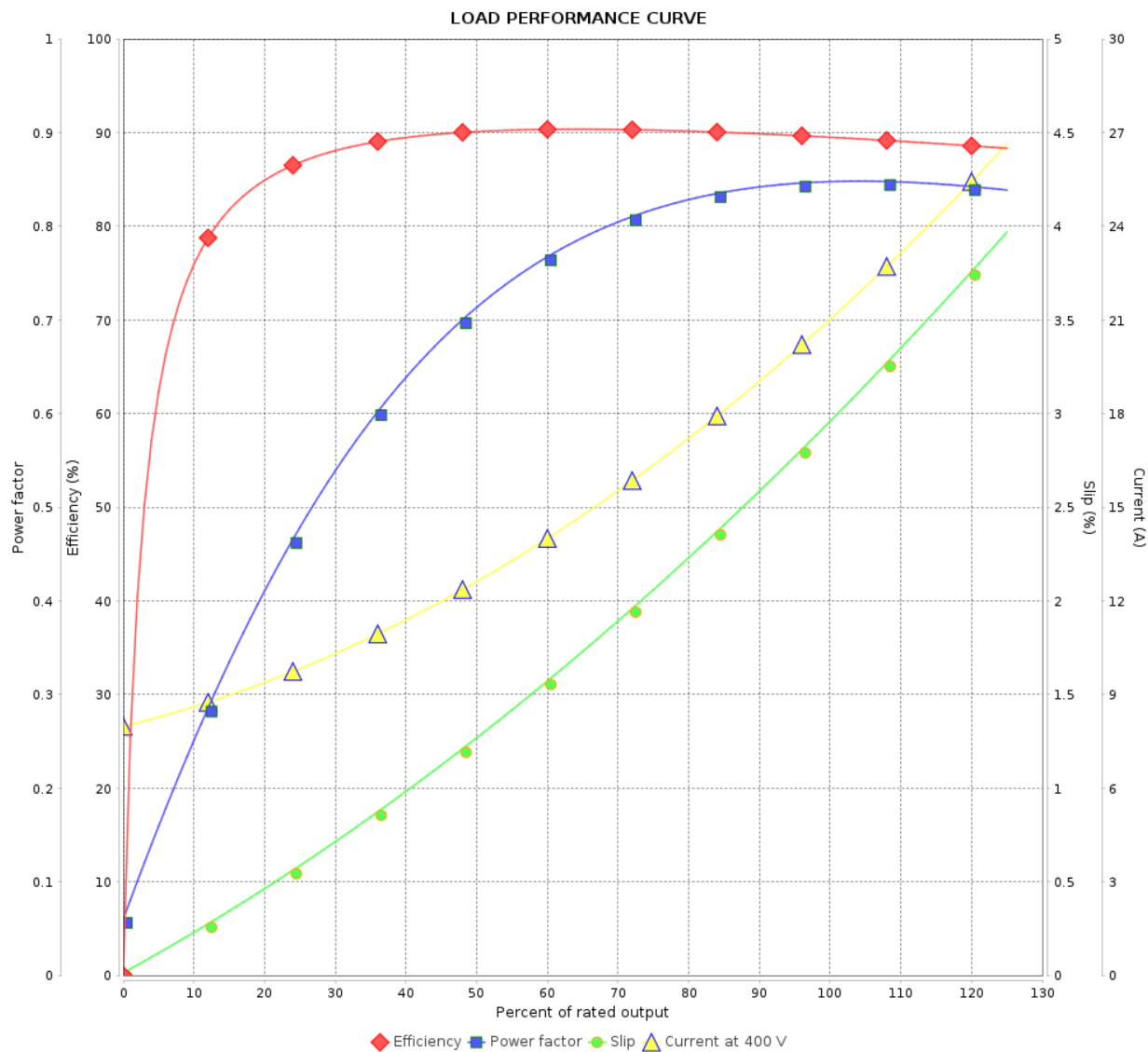
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 400 V 50 Hz 6P IE2

Rated current : 20.9 A
LRC : 5.3
Rated torque : 11 kgfm
Locked rotor torque : 200 %
Breakdown torque : 220 %
Rated speed : 970 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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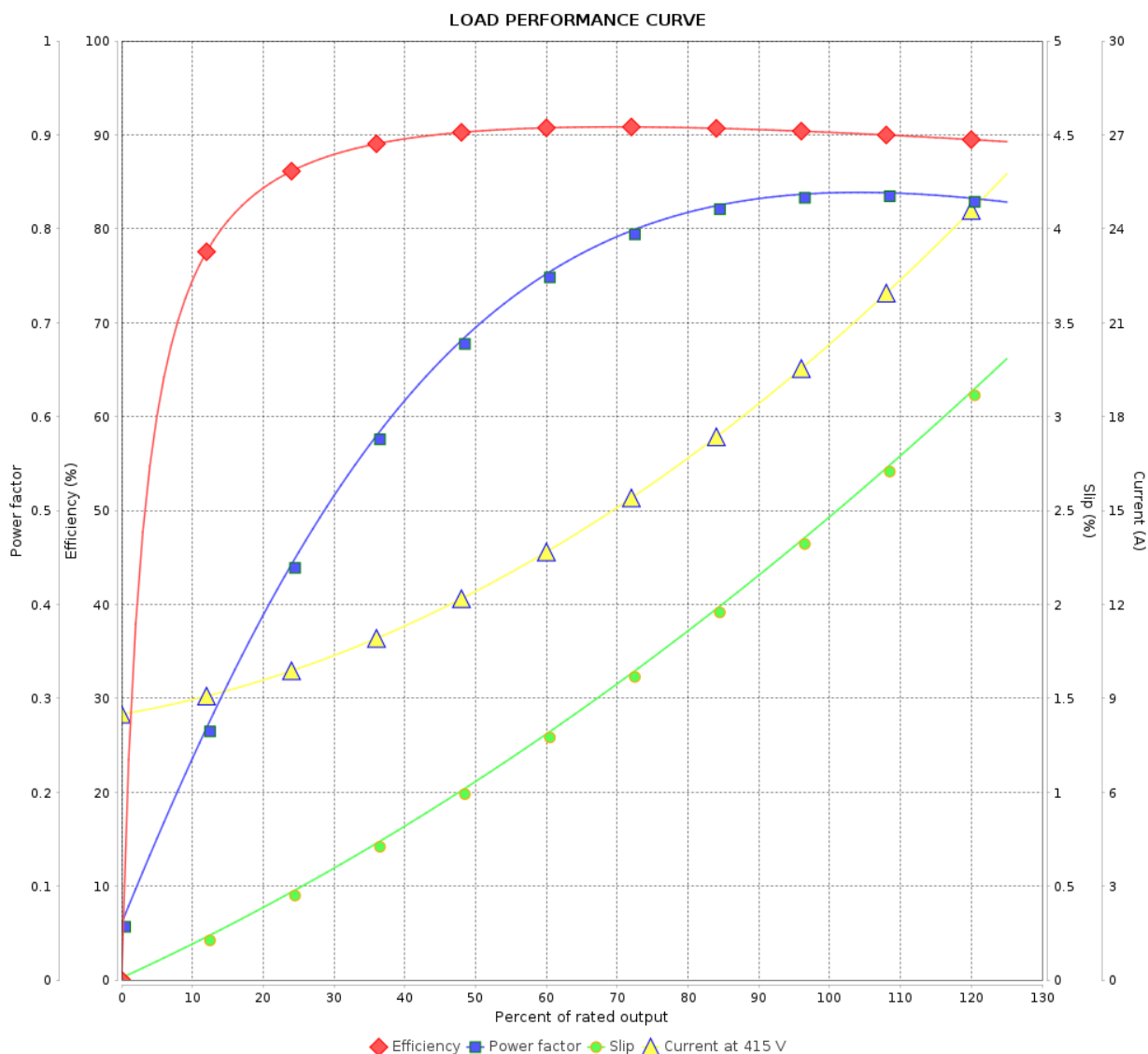
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Performance : 415 V 50 Hz 6P IE2

Rated current : 20.2 A
LRC : 5.8
Rated torque : 11 kgfm
Locked rotor torque : 220 %
Breakdown torque : 240 %
Rated speed : 975 rpm

Moment of inertia (J) : 0.3310 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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