

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 13181313

Frame	: 284HPH	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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	: 176 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2153 kgm ²
Design	: B		

Output [HP]	25	20	20	20	25	25	25
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]	59.0/29.5	29.1	28.2	27.5	35.9	34.3	33.2
L. R. Amperes [A]	366/183	175	189	198	190	189	196
LRC [A]	6.2x(Code G)	6.0x(Code G)	6.7x(Code H)	7.2x(Code J)	5.3x(Code F)	5.5x(Code F)	5.9x(Code G)
No load current [A]	22.0/11.0	11.0	11.7	12.4	11.0	11.7	12.4
Rated speed [RPM]	1770	1470	1473	1475	1455	1460	1465
Slip [%]	1.67	2.00	1.80	1.67	3.00	2.67	2.33
Rated torque [kgfm]	10.3	9.87	9.85	9.84	12.5	12.4	12.4
Locked rotor torque [%]	240	229	250	270	180	200	220
Breakdown torque [%]	270	260	300	330	210	240	260
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	43s (cold) 24s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	63.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%						
	50%	92.4	91.3	91.3	91.2	92.4	92.4
	75%	93.0	92.1	92.5	92.5	91.7	92.4
	100%	93.6	92.1	92.6	92.7	91.0	92.4
Power Factor	25%						
	50%	0.70	0.69	0.65	0.62	0.76	0.70
	75%	0.80	0.80	0.78	0.75	0.84	0.80
	100%	0.84	0.85	0.83	0.82	0.86	0.84

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

Losses (%)	P1 (0,9;1,0)	6.8	6.8	6.8	6.8	6.8	6.8
	P2 (0,5;1,0)	5.8	5.8	5.8	5.8	5.8	5.8
	P3 (0,25;1,0)	5.3	5.3	5.3	5.3	5.3	5.3
	P4 (0,9;0,5)	3.1	3.1	3.1	3.1	3.1	3.1
	P5 (0,5;0,5)	2.2	2.2	2.2	2.2	2.2	2.2
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0	1.0	1.0

Bearing type	: 6314 C3	Non drive end	6211 C3	Foundation loads	
Sealing	: V'Ring		V'Ring	Max. traction	: 0 kgf
Lubrication interval	: 12000 h		17000 h	Max. compression	: 0 kgf
Lubricant amount	: 27 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 65.2A SF 1.15 SFA 75.0A

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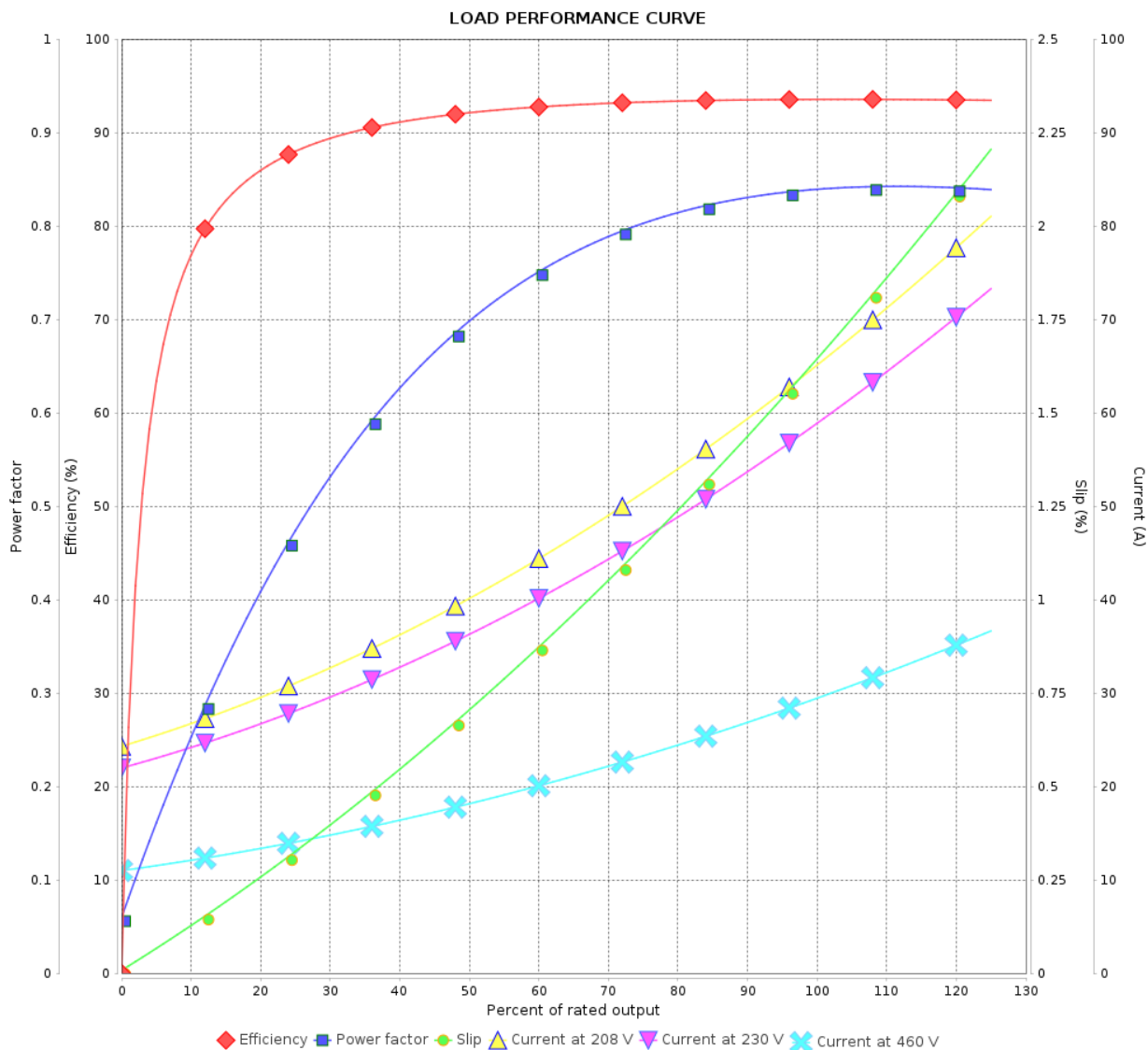
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 230/460 V 60 Hz 4P

Rated current : 59.0/29.5 A
LRC : 6.2
Rated torque : 10.3 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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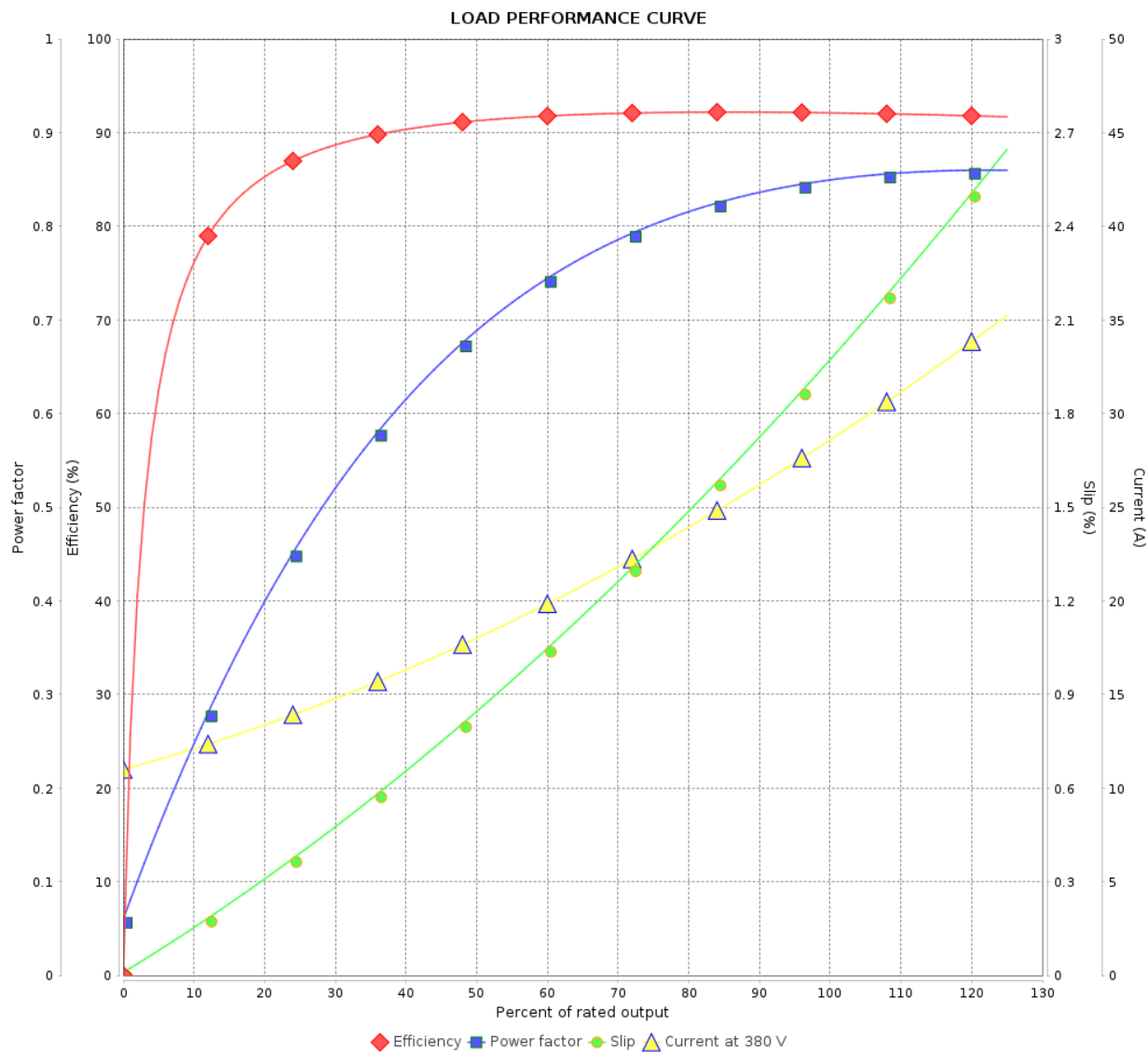
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 380 V 50 Hz 4P IE3

Rated current : 29.1 A
LRC : 6.0
Rated torque : 9.87 kgfm
Locked rotor torque : 229 %
Breakdown torque : 260 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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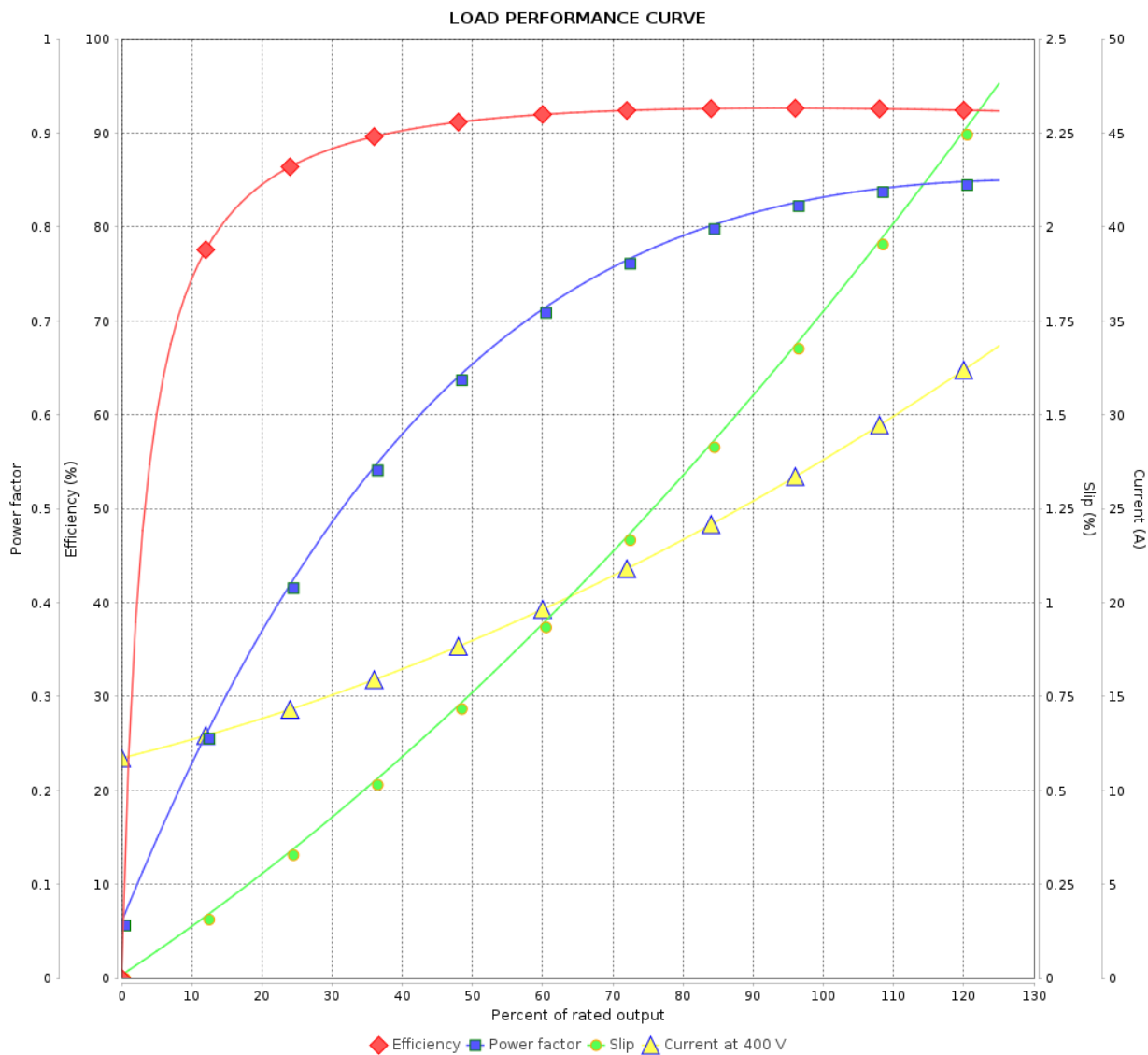
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 400 V 50 Hz 4P IE3

Rated current : 28.2 A
LRC : 6.7
Rated torque : 9.85 kgfm
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1473 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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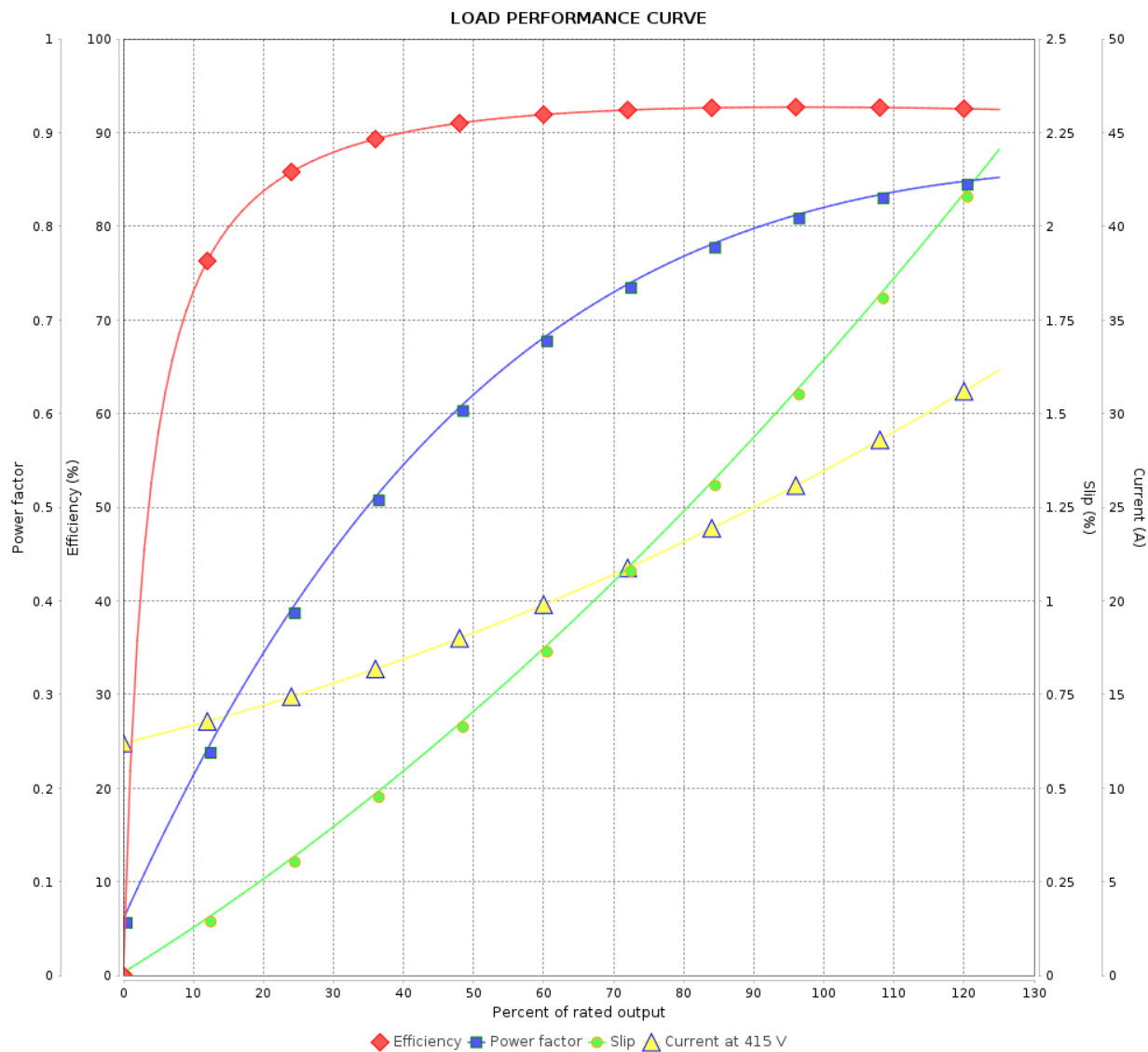
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 415 V 50 Hz 4P IE3

Rated current : 27.5 A
LRC : 7.2
Rated torque : 9.84 kgfm
Locked rotor torque : 270 %
Breakdown torque : 330 %
Rated speed : 1475 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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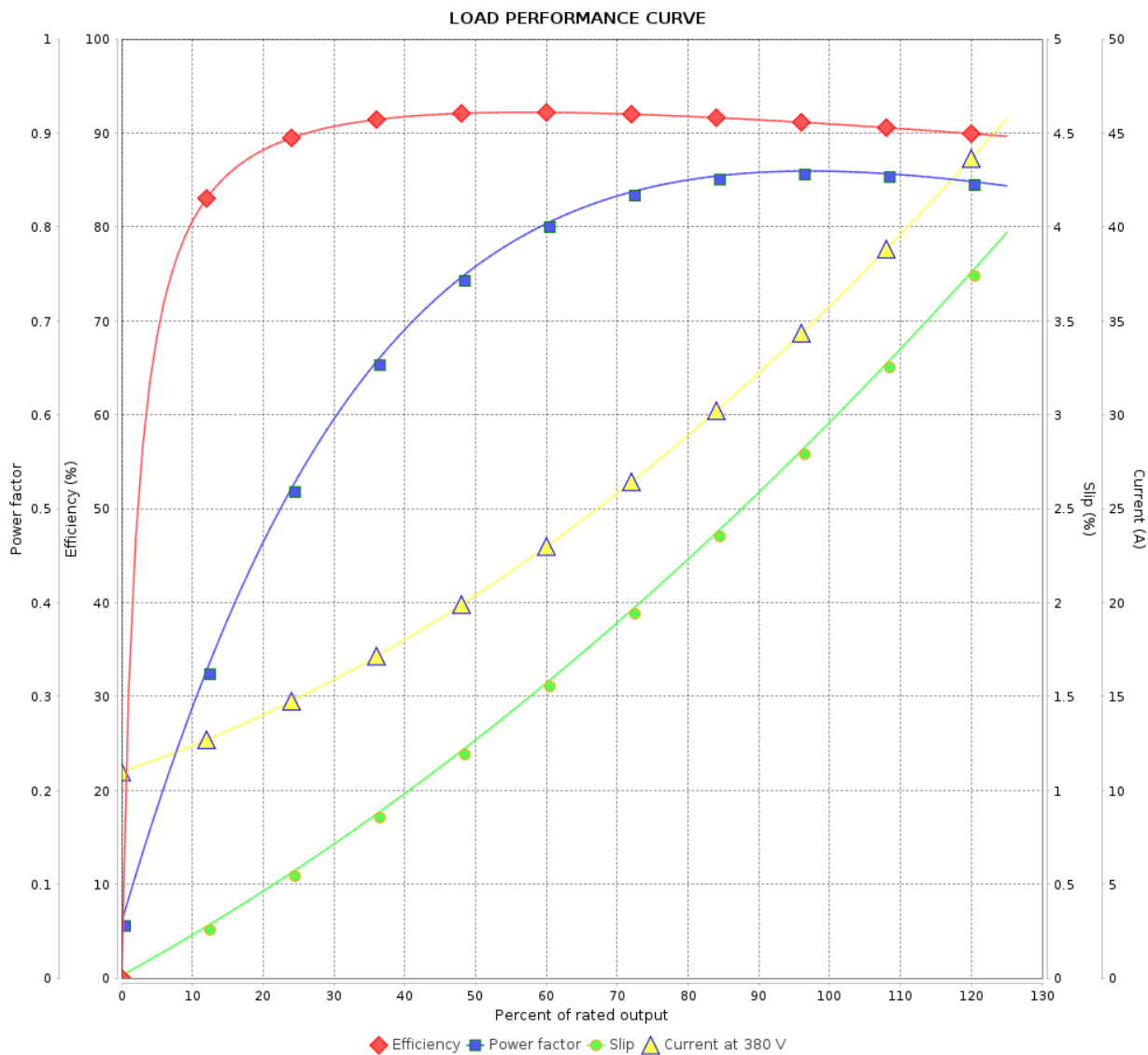
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 380 V 50 Hz 4P IE1

Rated current : 35.9 A
LRC : 5.3
Rated torque : 12.5 kgfm
Locked rotor torque : 180 %
Breakdown torque : 210 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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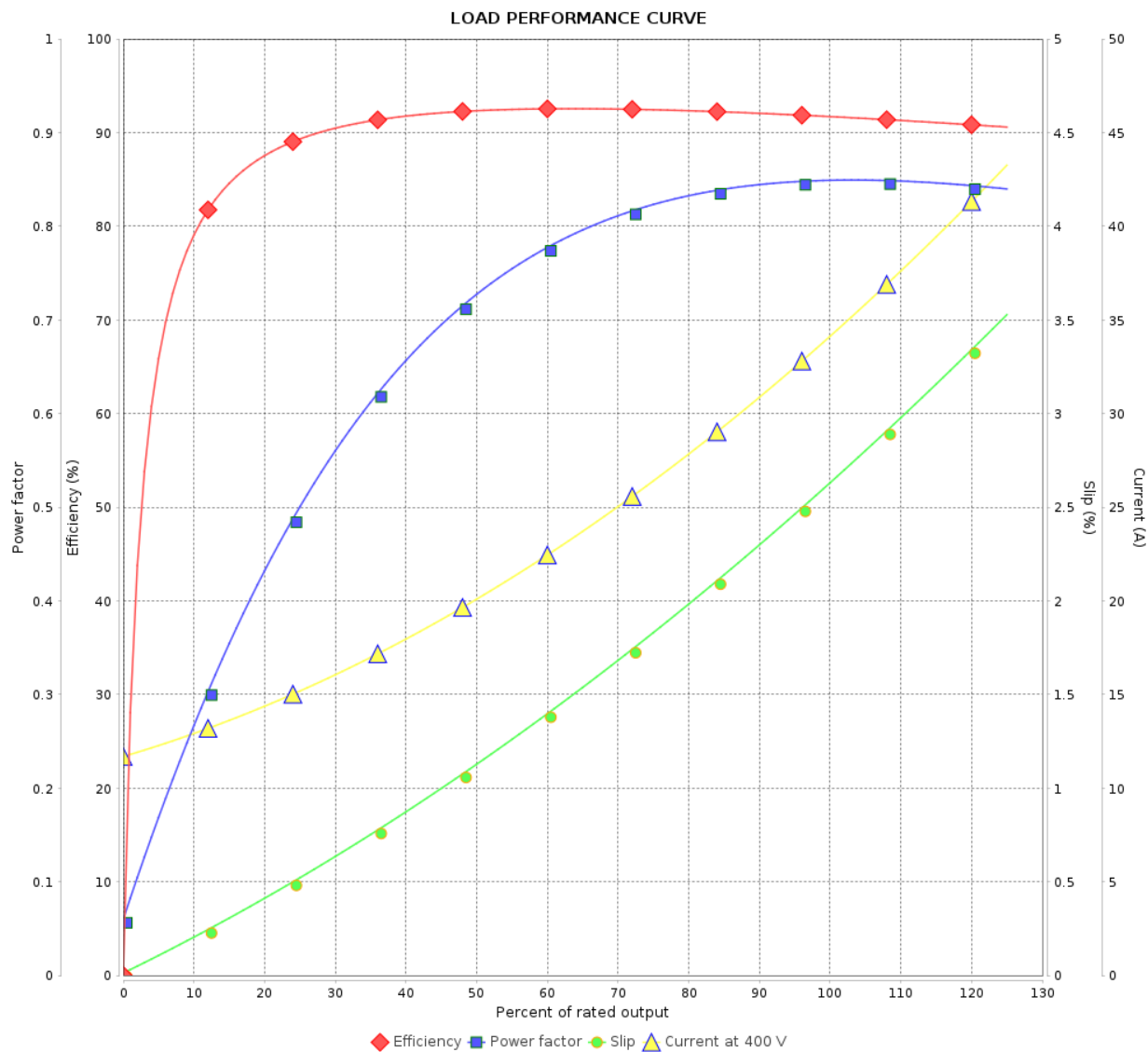
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 400 V 50 Hz 4P IE2

Rated current : 34.3 A
LRC : 5.5
Rated torque : 12.4 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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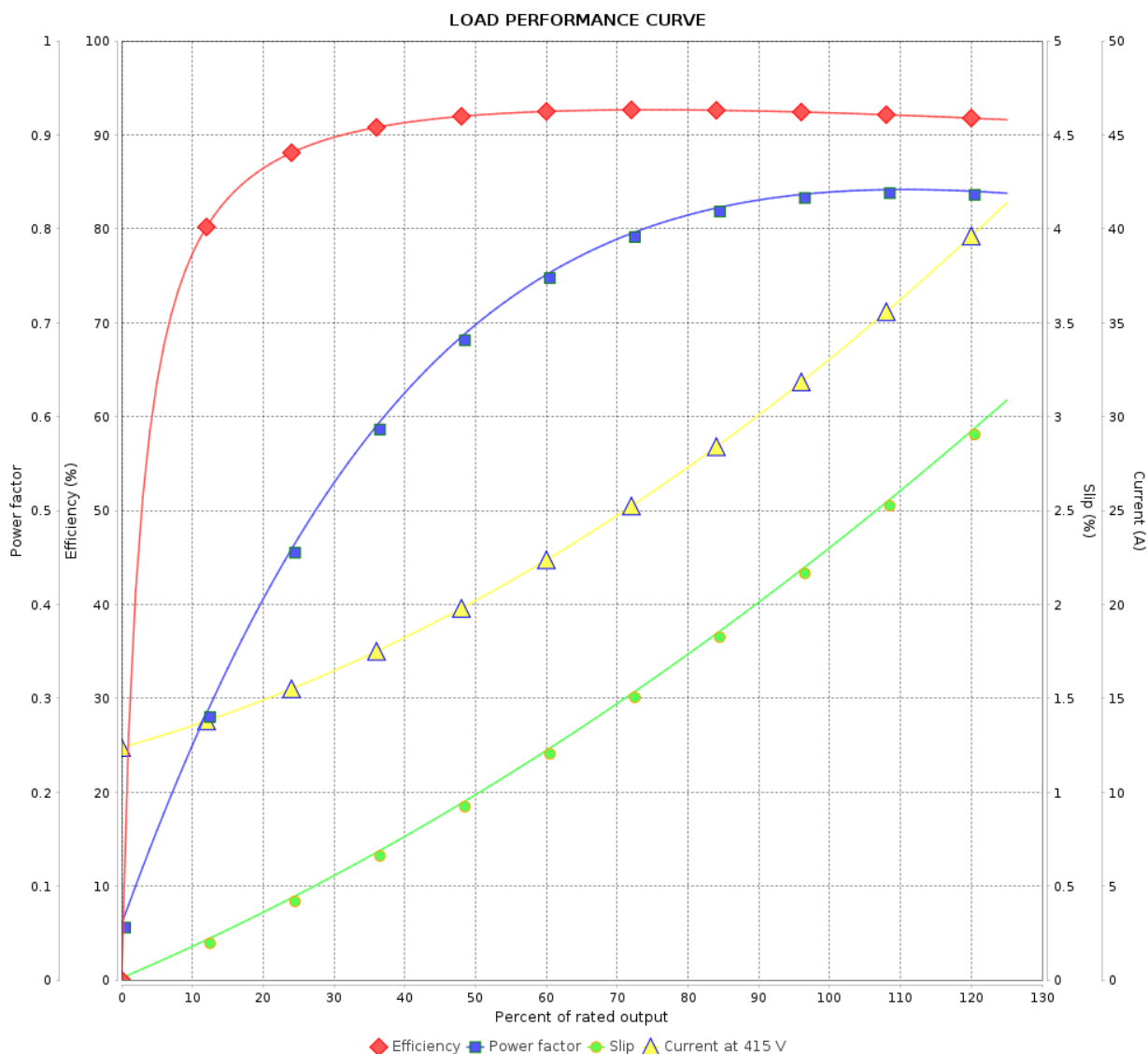
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13181313



Performance : 415 V 50 Hz 4P IE2

Rated current : 33.2 A
LRC : 5.9
Rated torque : 12.4 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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