

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11568627

Frame	: 444/5T	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	: 676 kg
Protection degree	: IP55	Moment of inertia (J)	: 3.10 kgm ²
Design	: B		

Output [HP]	75	60	60	60	75	75	75
Poles	8	8	8	8	8	8	8
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	187/93.4	95.5	95.8	94.9	114	109	106
L. R. Amperes [A]	1196/598	525	565	607	536	567	604
LRC [A]	6.4x(Code H)	5.5x(Code G)	5.9x(Code H)	6.4x(Code J)	4.7x(Code E)	5.2x(Code F)	5.7x(Code G)
No load current [A]	80.0/40.0	39.3	43.6	47.0	39.3	43.6	47.0
Rated speed [RPM]	890	740	740	740	735	735	740
Slip [%]	1.11	1.33	1.33	1.33	2.00	2.00	1.33
Rated torque [kgfm]	61.2	58.8	58.8	58.8	74.1	74.1	73.6
Locked rotor torque [%]	170	170	200	220	140	160	180
Breakdown torque [%]	200	210	229	250	170	190	210
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	32s (cold) 18s (hot)	72s (cold) 40s (hot)	64s (cold) 36s (hot)	61s (cold) 34s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	48s (cold) 27s (hot)
Noise level ²	63.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)
Efficiency (%)	25%						
	50%	93.0	92.6	91.3	91.2	91.5	92.0
	75%	93.6	93.0	92.6	92.5	91.7	92.4
	100%	93.6	93.0	92.9	92.9	91.7	92.4
Power Factor	25%						
	50%	0.64	0.56	0.52	0.49	0.70	0.63
	75%	0.74	0.69	0.65	0.62	0.77	0.73
	100%	0.79	0.77	0.73	0.71	0.80	0.78

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

Losses (%)	P1 (0,9;1,0)	6.6	6.6	6.6	6.6	6.6	6.6
	P2 (0,5;1,0)	5.2	5.2	5.2	5.2	5.2	5.2
	P3 (0,25;1,0)	4.7	4.7	4.7	4.7	4.7	4.7
	P4 (0,9;0,5)	3.3	3.3	3.3	3.3	3.3	3.3
	P5 (0,5;0,5)	2.2	2.2	2.2	2.2	2.2	2.2
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5	1.5	1.5
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0	1.0	1.0

Bearing type	: 6319 C3	Non drive end	6316 C3	Foundation loads	
Sealing	: WSeal	WSeal		Max. traction	: 1013 kgf
Lubrication interval	: 17000 h	20000 h		Max. compression	: 1689 kgf
Lubricant amount	: 45 g	34 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 206A SF 1.10 SFA 226A

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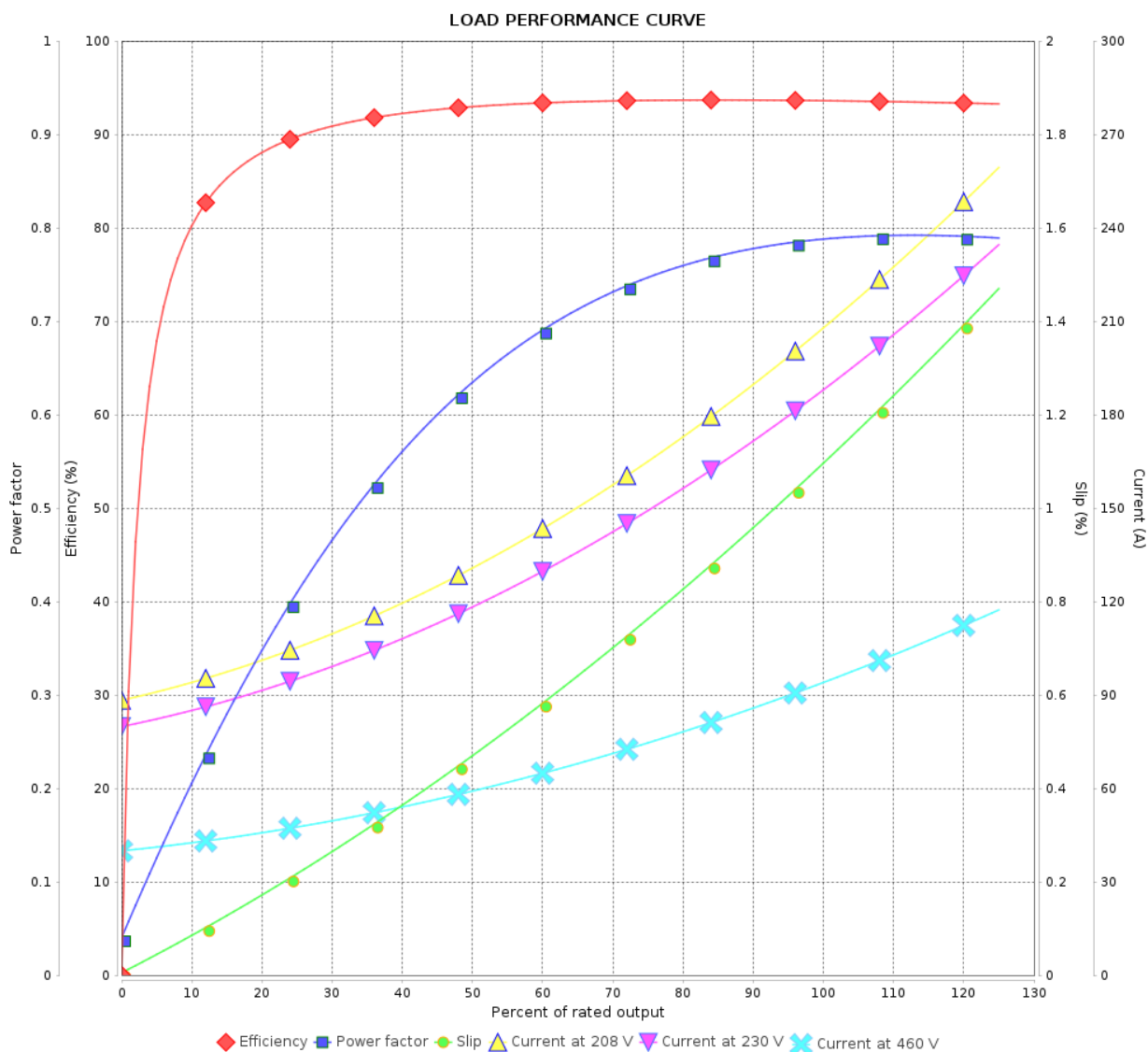
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11568627



Performance : 230/460 V 60 Hz 8P

Rated current : 187/93.4 A
LRC : 6.4
Rated torque : 61.2 kgfm
Locked rotor torque : 170 %
Breakdown torque : 200 %
Rated speed : 890 rpm

Moment of inertia (J) : 3.10 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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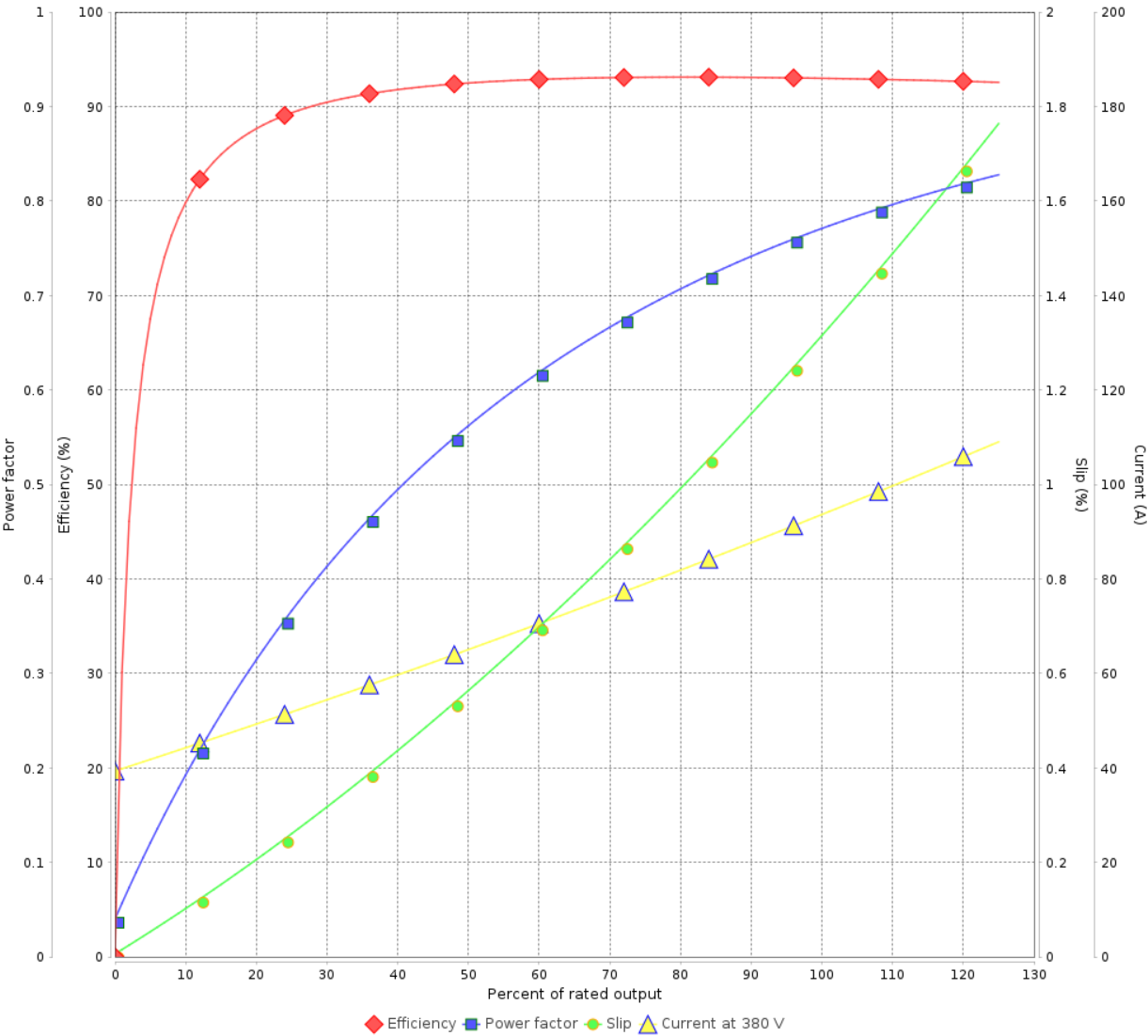
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11568627

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Performance : 380 V 50 Hz 8P IE3			
Rated current	: 95.5 A	Moment of inertia (J)	: 3.10 kgm ²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 58.8 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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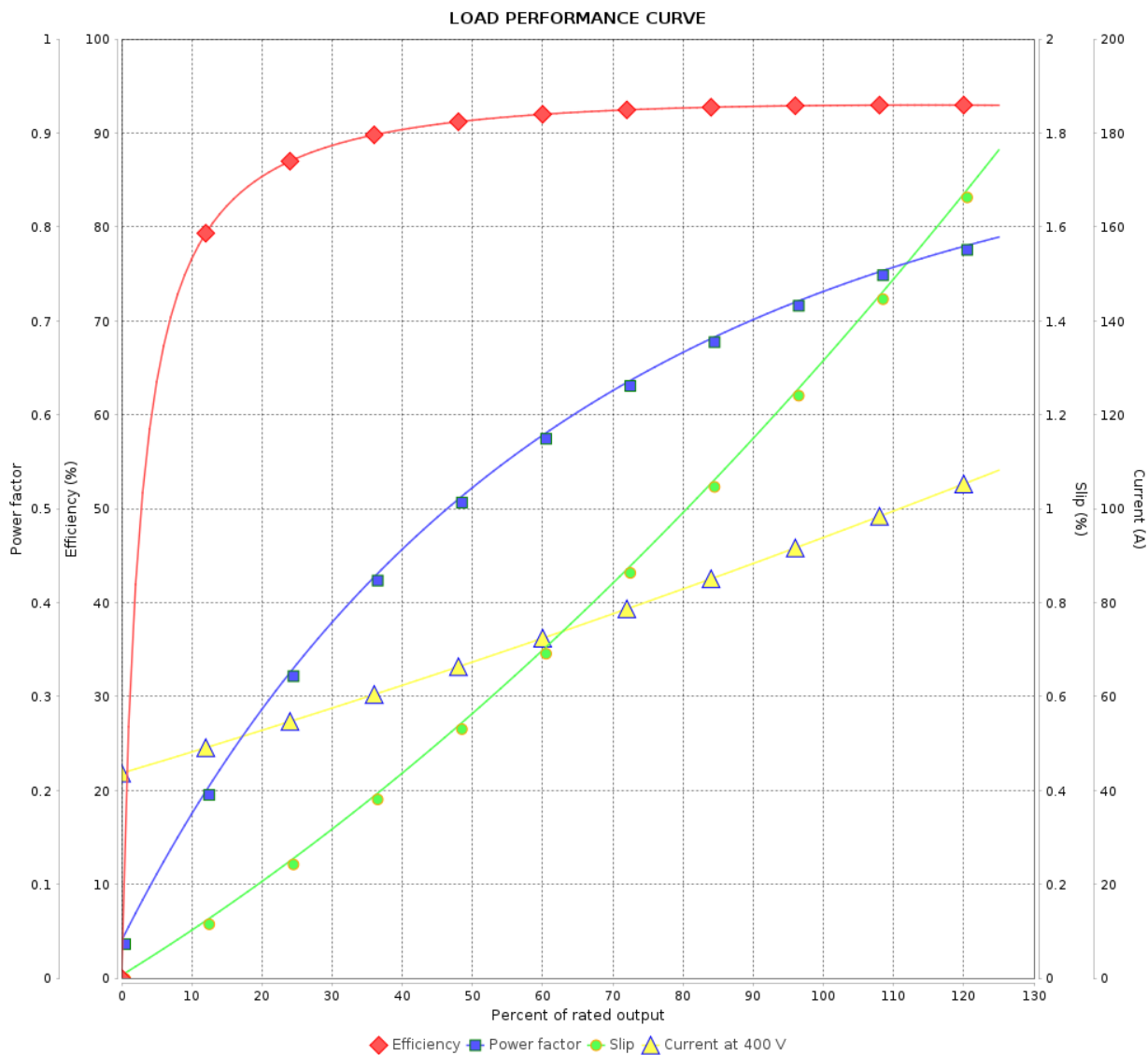
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11568627



Performance : 400 V 50 Hz 8P IE3

Rated current : 95.8 A
LRC : 5.9
Rated torque : 58.8 kgfm
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 740 rpm

Moment of inertia (J) : 3.10 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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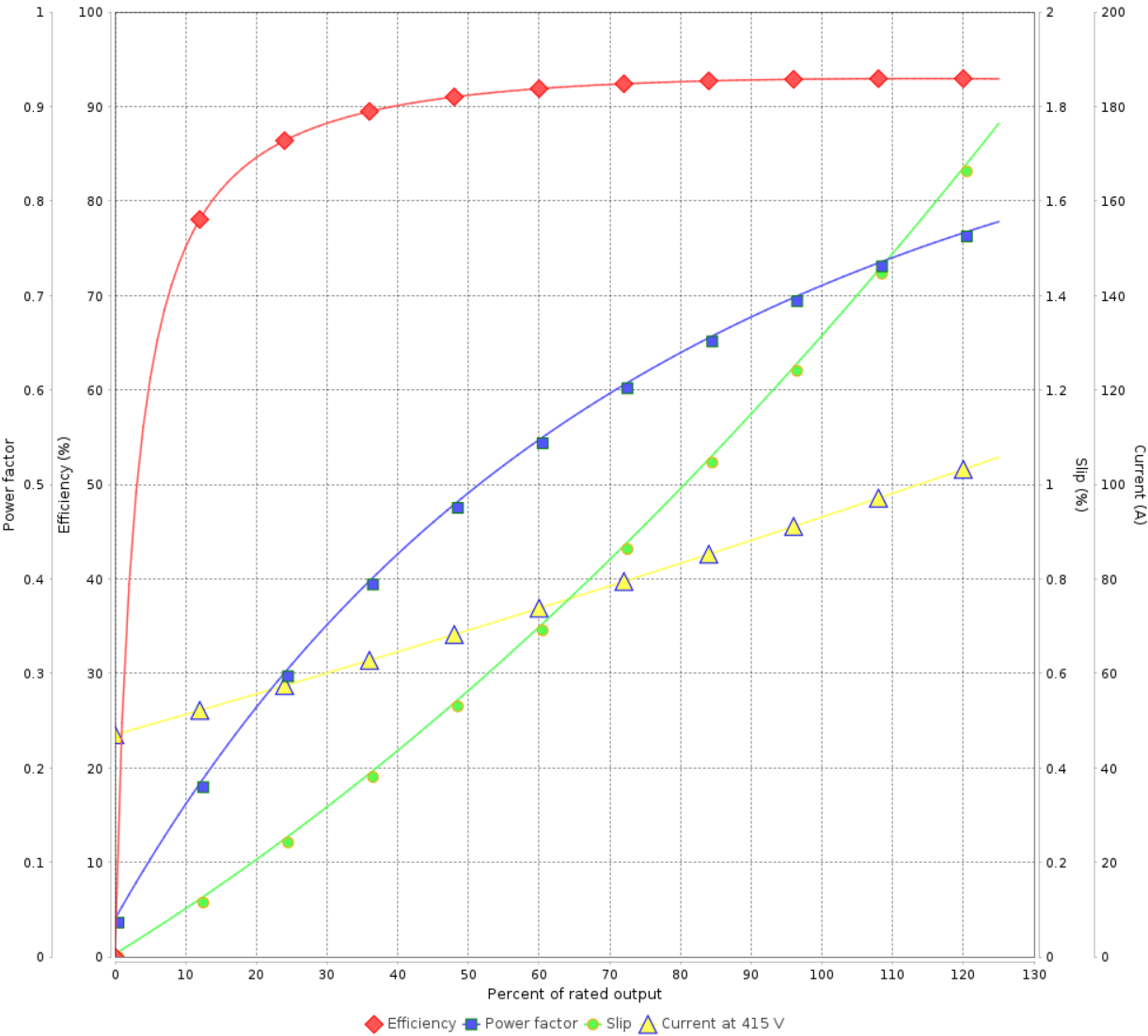
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11568627

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Performance : 415 V 50 Hz 8P IE3			
Rated current	: 94.9 A	Moment of inertia (J)	: 3.10 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 58.8 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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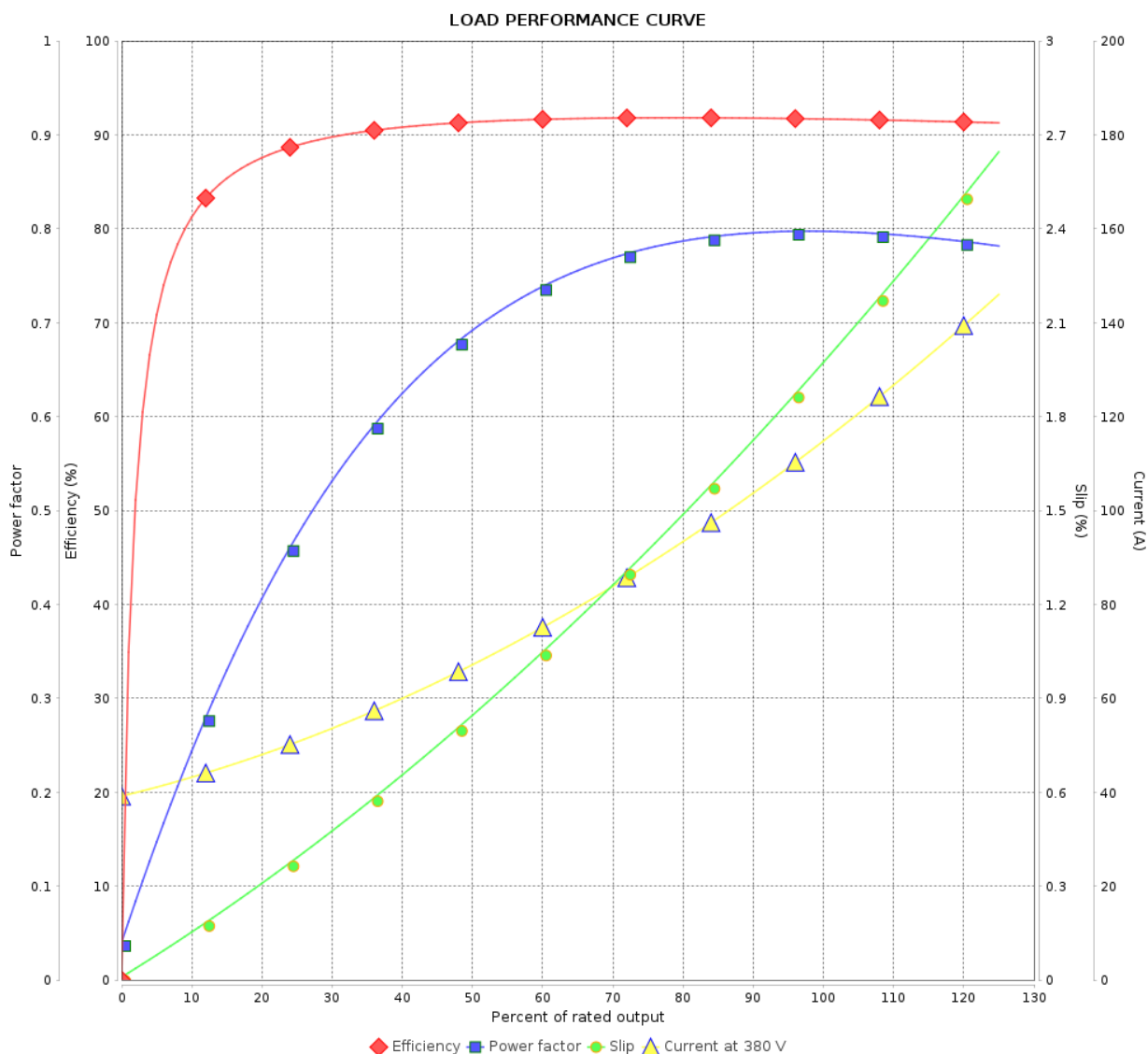
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Performance : 380 V 50 Hz 8P IE2

Rated current : 114 A
LRC : 4.7
Rated torque : 74.1 kgfm
Locked rotor torque : 140 %
Breakdown torque : 170 %
Rated speed : 735 rpm

Moment of inertia (J) : 3.10 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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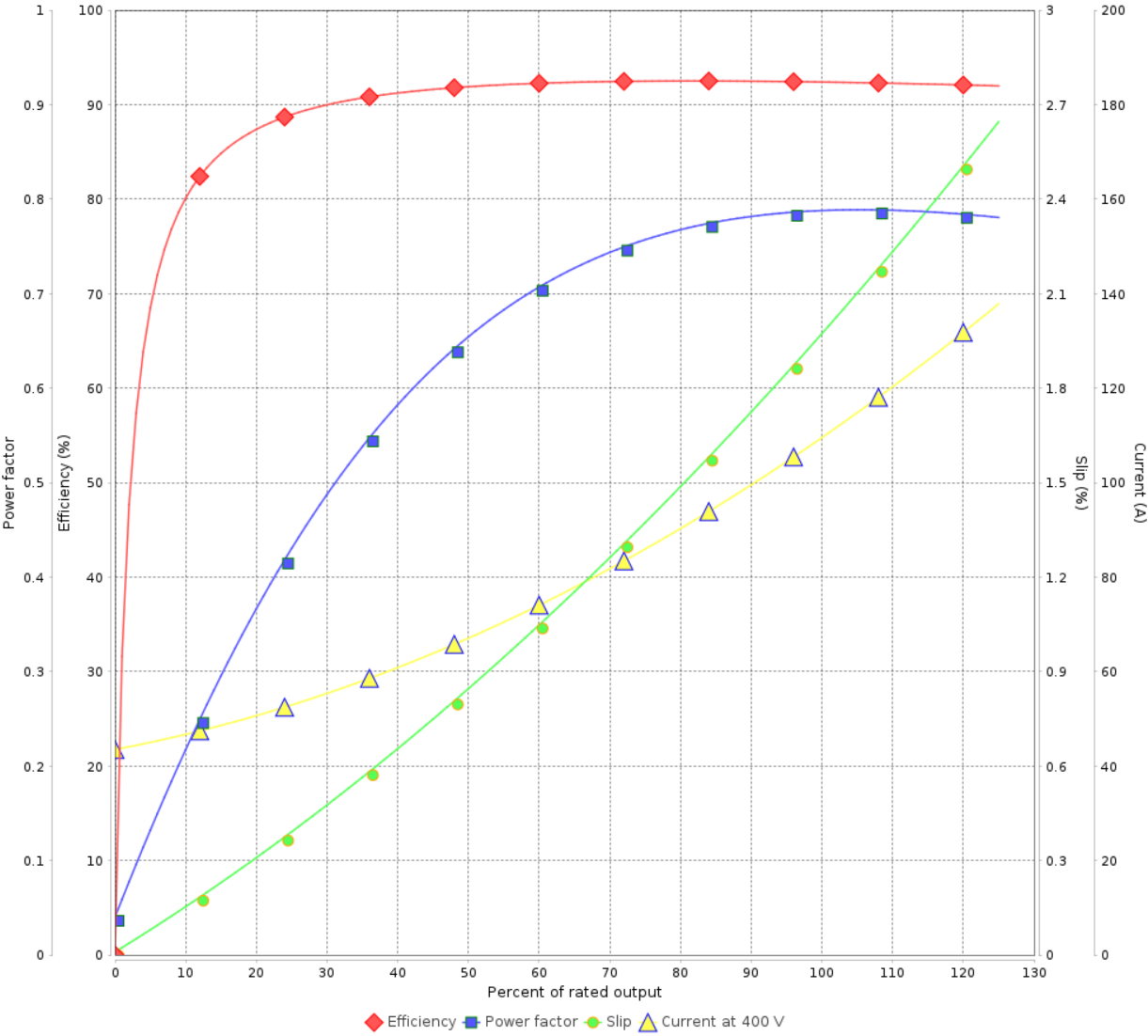
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Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11568627

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Performance : 400 V 50 Hz 8P IE2			
Rated current	: 109 A	Moment of inertia (J)	: 3.10 kgm ²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 74.1 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 735 rpm	Design	: B

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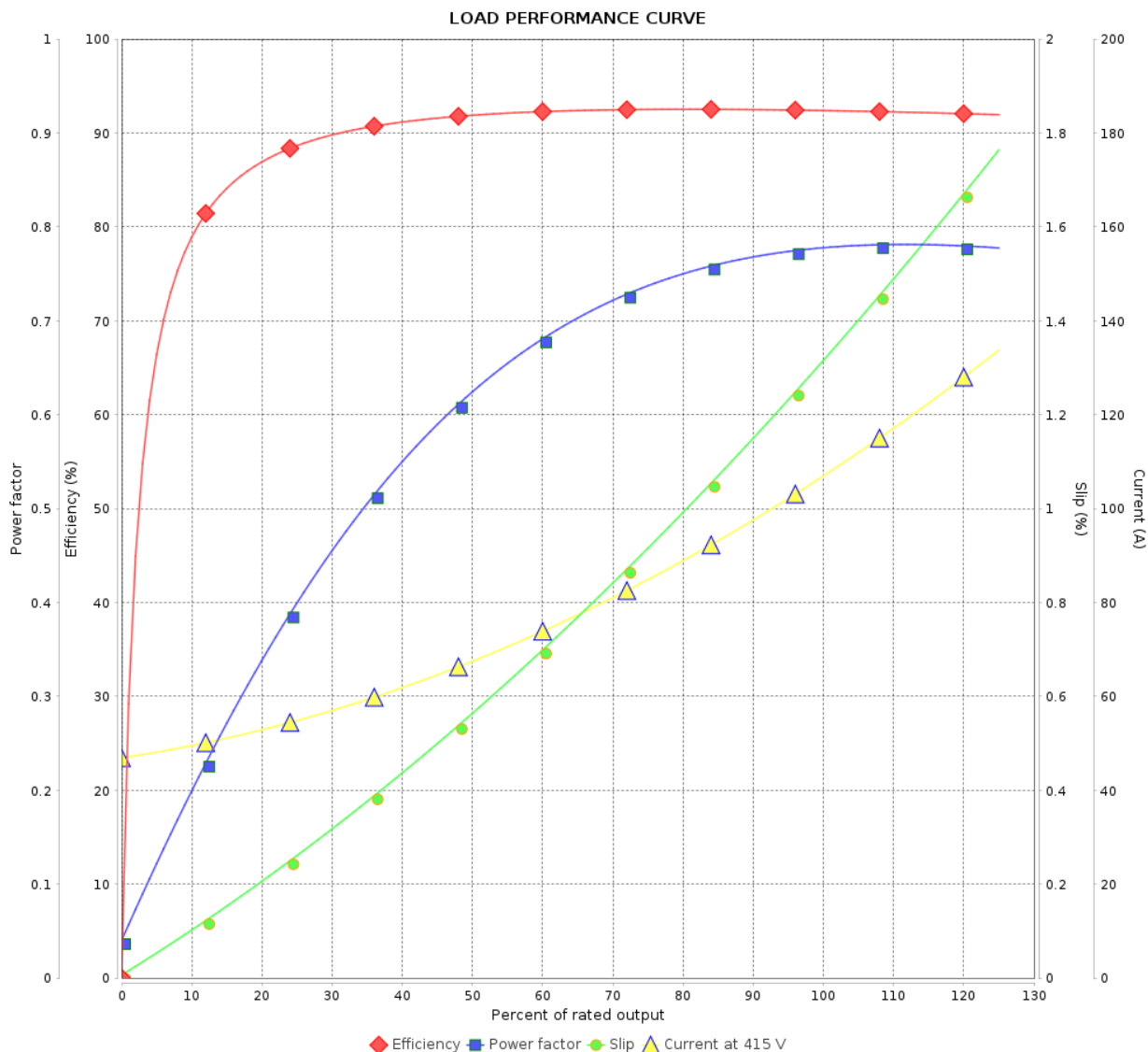
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11568627



Performance : 415 V 50 Hz 8P IE2

Rated current : 106 A
LRC : 5.7
Rated torque : 73.6 kgfm
Locked rotor torque : 180 %
Breakdown torque : 210 %
Rated speed : 740 rpm

Moment of inertia (J) : 3.10 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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