

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase
Product code : 12353067

Frame : 254/6JP	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 ² : 132 kg
Protection degree : IP55	Moment of inertia (J) : 0.1305 kgm ²
Design : B	

Output [HP]	20	15	15	15	20	20	20
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]	48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]	313/157	161	167	173	167	174	179
LRC [A]	6.5x(Code G)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code G)	6.6x(Code H)
No load current [A]	19.2/9.60	9.90	10.5	11.0	9.90	10.5	11.0
Rated speed [RPM]	1770	1473	1475	1477	1455	1460	1465
Slip [%]	1.67	1.80	1.67	1.53	3.00	2.67	2.33
Rated torque [kgfm]	8	7	7	7	9	9	9
Locked rotor torque [%]	240	250	280	300	180	210	229
Breakdown torque [%]	260	260	320	340	210	229	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	32s (cold) 18s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	18s (cold) 10s (hot)
Noise level ²	64.0 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%	91.7	91.0	89.8	89.8	91.7	91.0
	75%	92.4	91.5	91.0	91.3	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.7
Power Factor	25%						
	50%	0.68	0.65	0.62	0.60	0.75	0.70
	75%	0.79	0.78	0.75	0.73	0.83	0.80
	100%	0.84	0.84	0.82	0.81	0.86	0.84

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

Losses (%)	P1 (0,9;1,0)	7.5	9.3	9.3	9.0	10.8	9.8	9.0
	P2 (0,5;1,0)	6.5	8.1	8.1	7.8	9.4	8.5	7.8
	P3 (0,25;1,0)	6.0	7.6	7.6	7.3	8.7	7.9	7.3
	P4 (0,9;0,5)	3.5	4.4	4.4	4.2	5.1	4.6	4.2
	P5 (0,5;0,5)	2.5	3.1	3.1	3.0	3.6	3.3	3.0
	P6 (0,5;0,25)	1.6	2.0	2.0	2.0	2.3	2.1	2.0
	P7 (0,25;0,25)	1.2	1.5	1.5	1.4	1.7	1.5	1.4

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6309 C3	6209 C3	Max. traction : 333 kgf
Sealing :	V'Ring	V'Ring	Max. compression : 478 kgf
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	13 g	9 g	
Lubricant type :	Mobil Polyrex EM		

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Customer : _____

Notes

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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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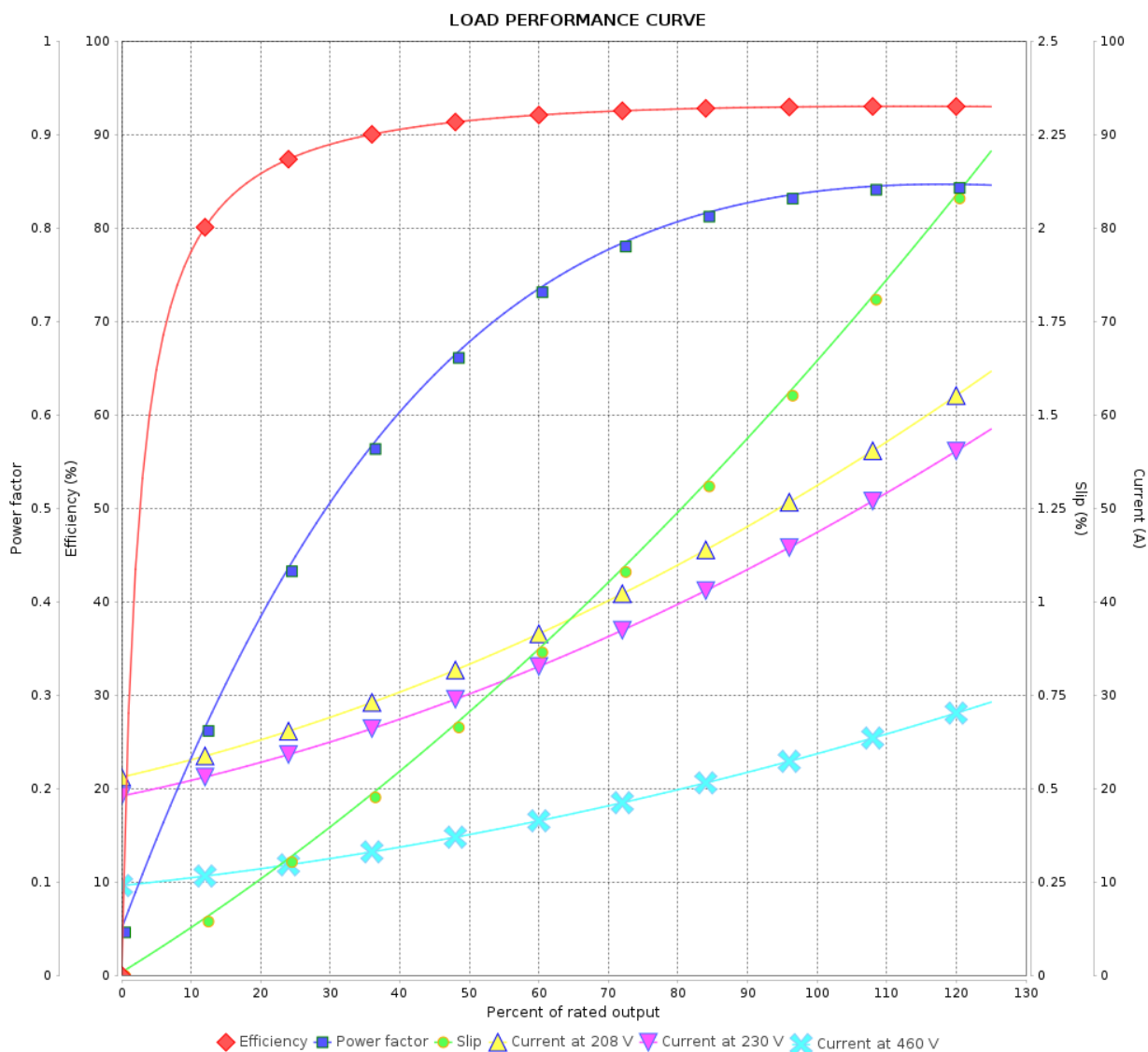
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase

Product code : 12353067



Performance : 230/460 V 60 Hz 4P

Rated current : 48.2/24.1 A
LRC : 6.5
Rated torque : 8 kgfm
Locked rotor torque : 240 %
Breakdown torque : 260 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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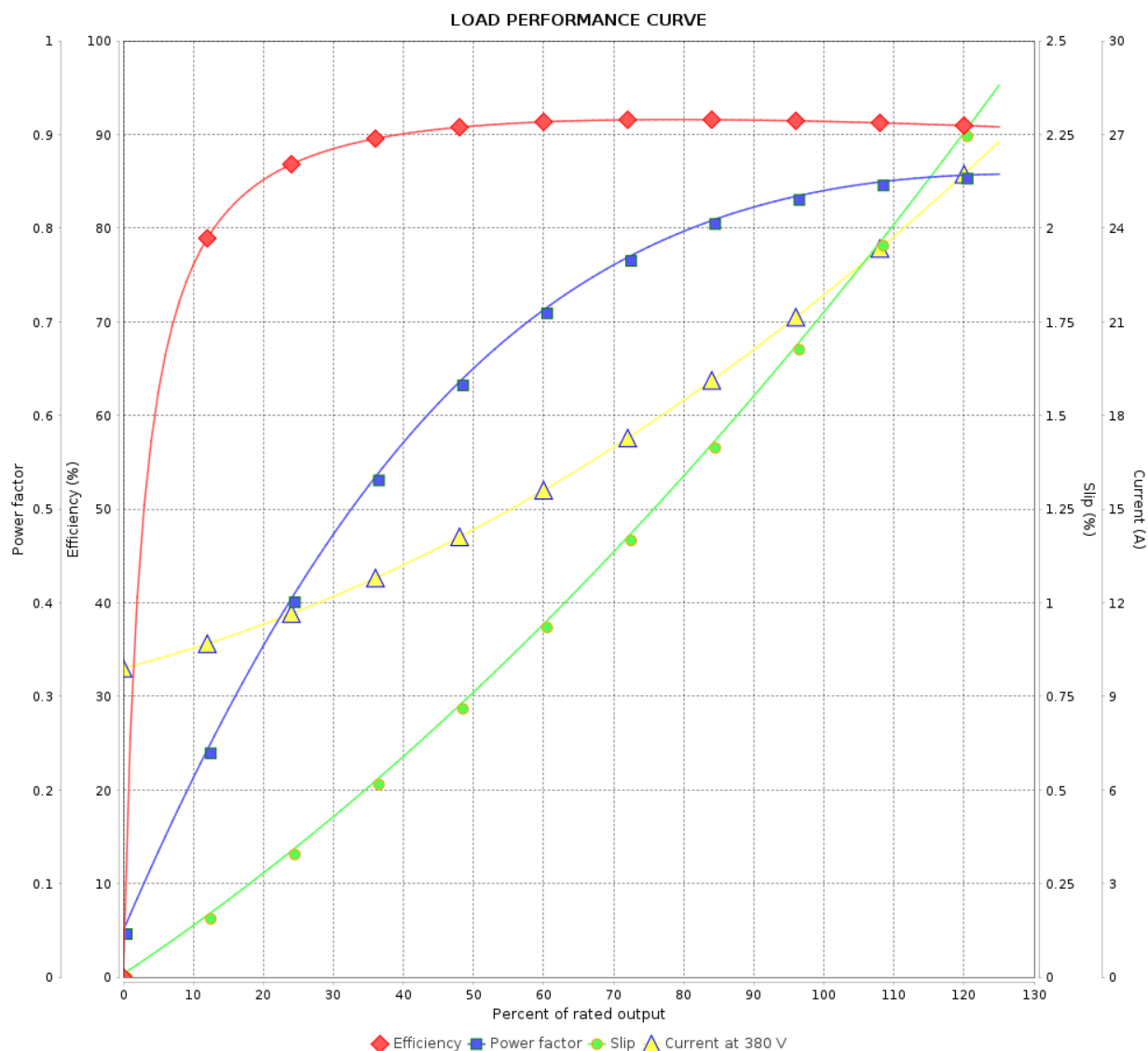
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-
Phase

Product code : 12353067



Performance : 380 V 50 Hz 4P IE3

Rated current : 21.8 A
LRC : 7.4
Rated torque : 7 kgfm
Locked rotor torque : 250 %
Breakdown torque : 260 %
Rated speed : 1473 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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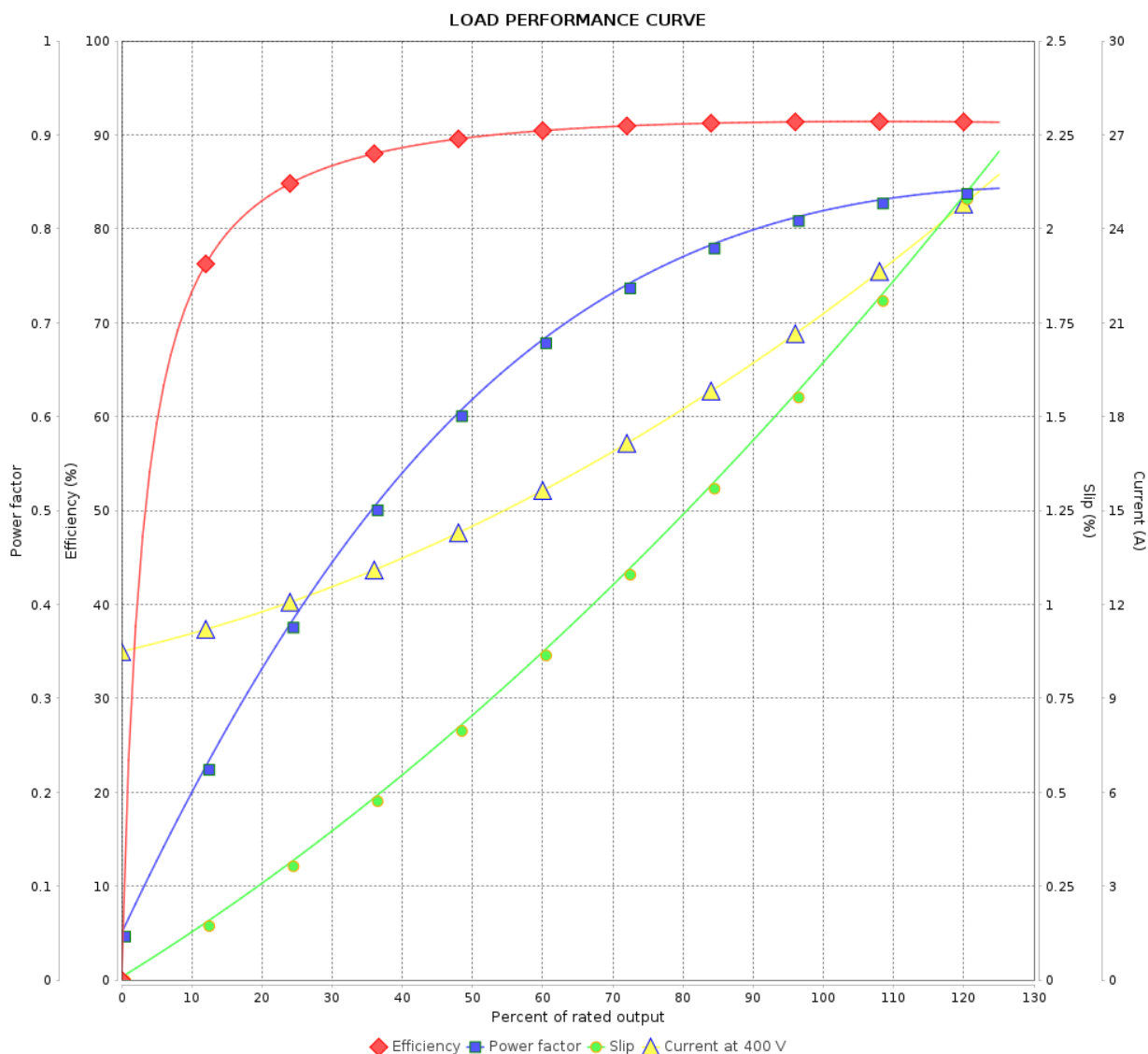
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase

Product code : 12353067



Performance : 400 V 50 Hz 4P IE3

Rated current : 21.2 A
LRC : 7.9
Rated torque : 7 kgfm
Locked rotor torque : 280 %
Breakdown torque : 320 %
Rated speed : 1475 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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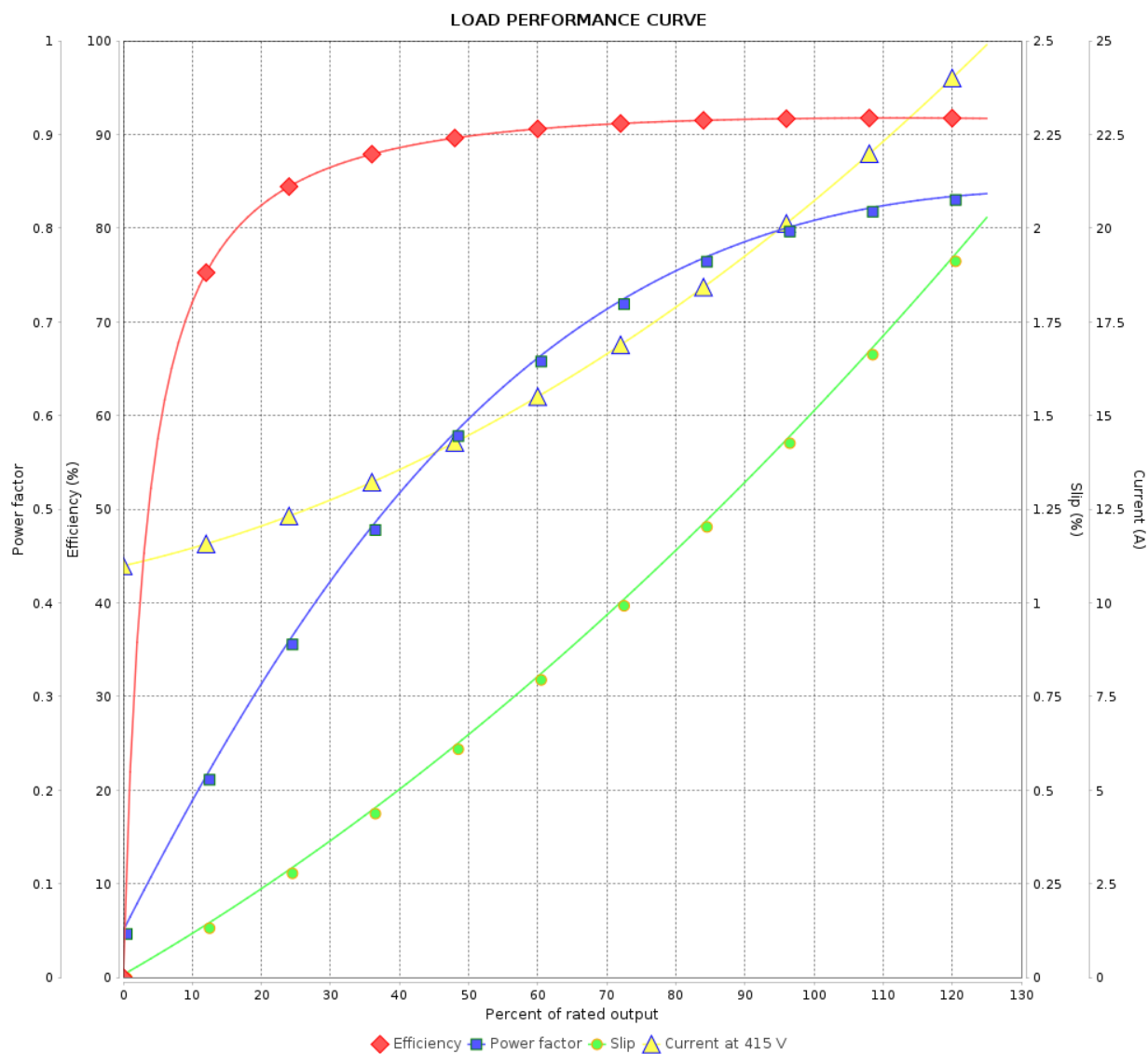
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-
Phase

Product code : 12353067



Performance : 415 V 50 Hz 4P IE3

Rated current : 20.6 A
LRC : 8.4
Rated torque : 7 kgfm
Locked rotor torque : 300 %
Breakdown torque : 340 %
Rated speed : 1477 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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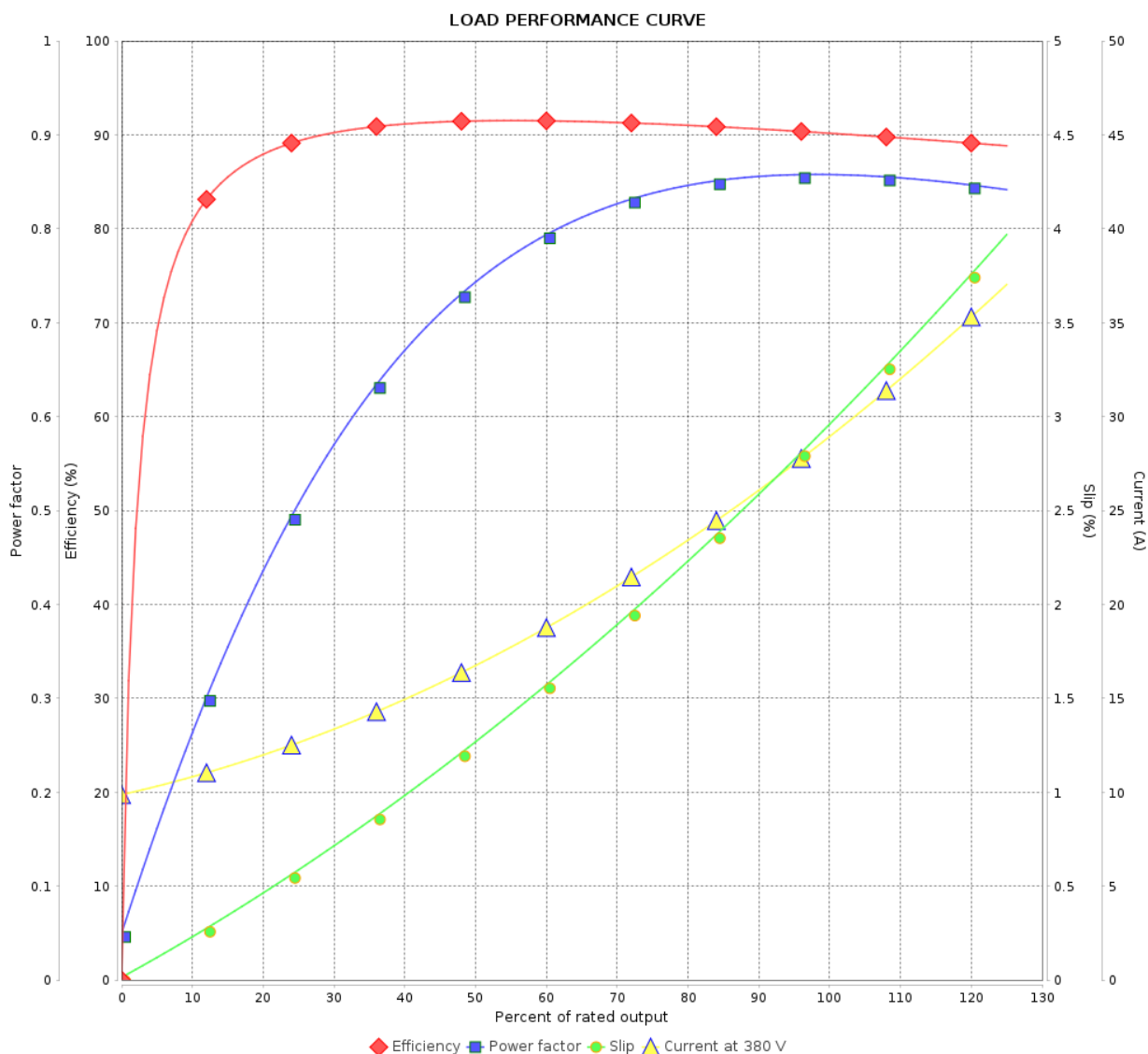
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-
Phase

Product code : 12353067



Performance : 380 V 50 Hz 4P IE1

Rated current : 29.4 A
LRC : 5.7
Rated torque : 9 kgfm
Locked rotor torque : 180 %
Breakdown torque : 210 %
Rated speed : 1455 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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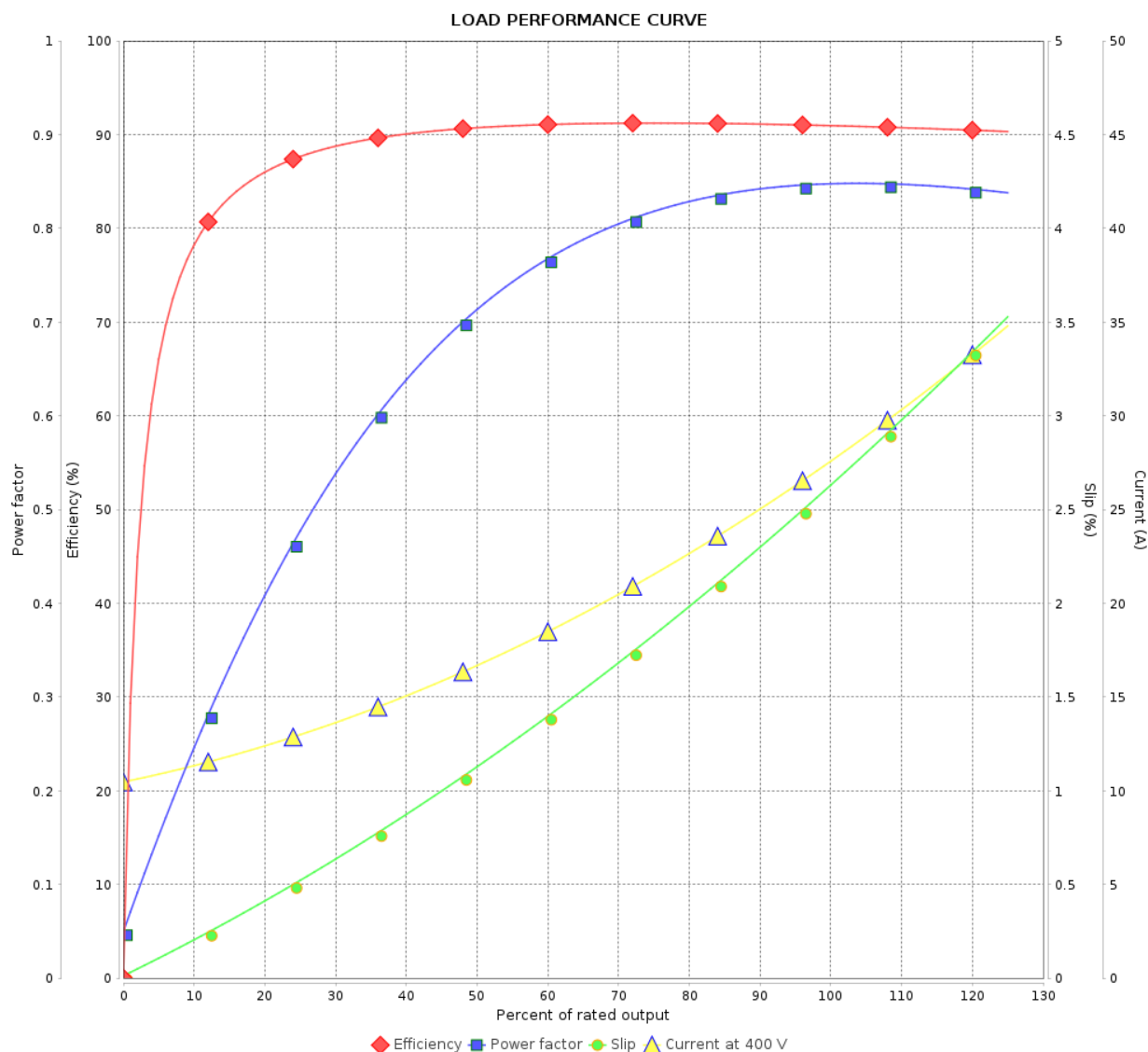
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-
Phase

Product code : 12353067



Performance : 400 V 50 Hz 4P IE2

Rated current : 28.0 A
LRC : 6.2
Rated torque : 9 kgfm
Locked rotor torque : 210 %
Breakdown torque : 229 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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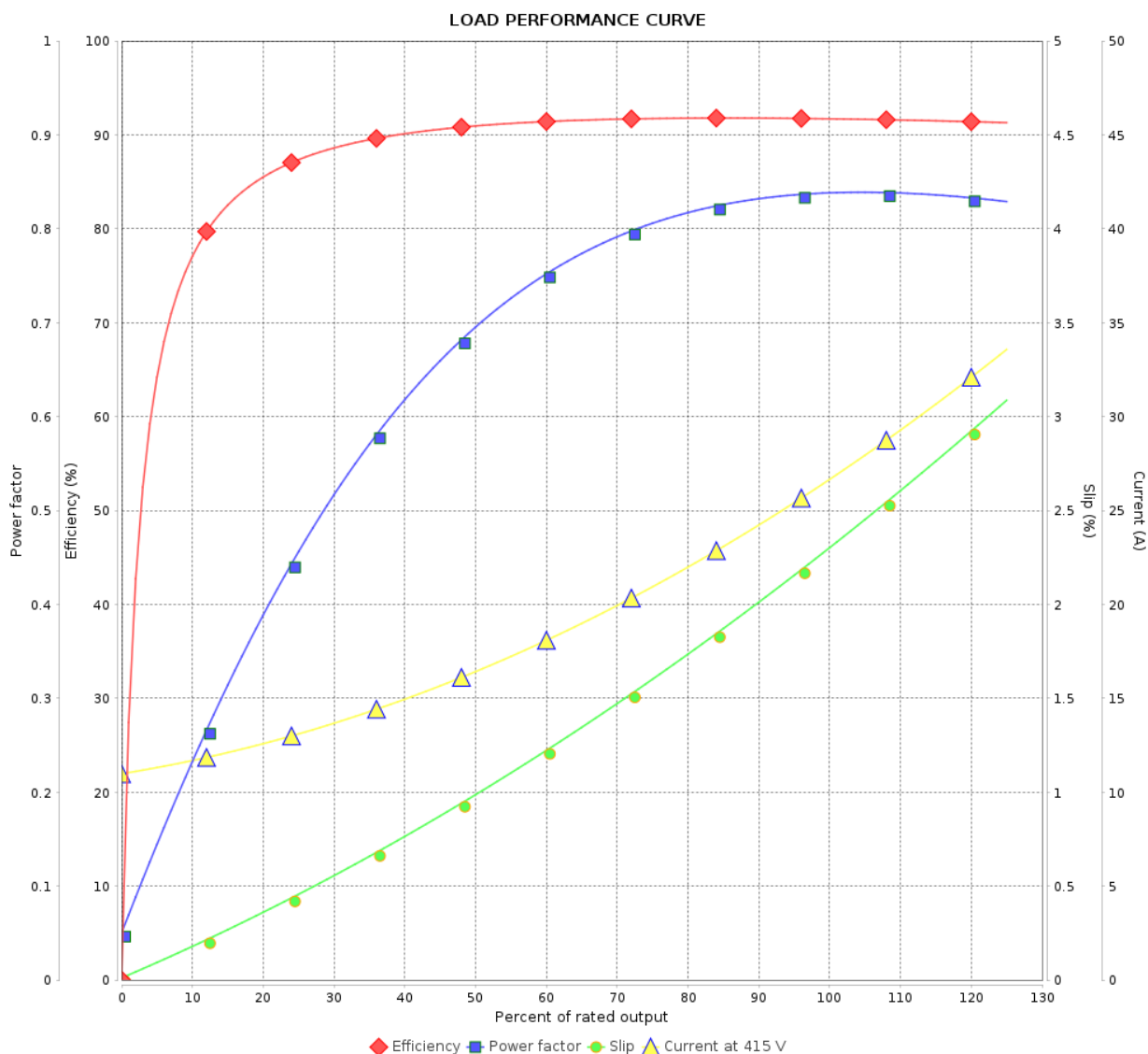
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP
NEMA Premium Efficiency Three-Phase

Product code : 12353067



Performance : 415 V 50 Hz 4P IE2

Rated current : 27.1 A
LRC : 6.6
Rated torque : 9 kgfm
Locked rotor torque : 229 %
Breakdown torque : 260 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.1305 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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