

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase Product code : 14340600

Frame	: 182/4JP	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	: 42.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0094 kgm ²
Design	: B		

Output [HP]	5	4	4	4	5	5	5
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	11.8/5.90	5.79	5.57	5.43	7.14	6.78	6.61
L. R. Amperes [A]	89.7/44.8	42.8	45.1	48.3	42.1	44.7	47.6
LRC [A]	7.6x(Code J)	7.4x(Code J)	8.1x(Code K)	8.9x(Code L)	5.9x(Code G)	6.6x(Code H)	7.2x(Code J)
No load current [A]	4.00/2.00	2.00	2.15	2.25	2.00	2.15	2.25
Rated speed [RPM]	3485	2890	2900	2910	2850	2870	2880
Slip [%]	3.19	3.67	3.33	3.00	5.00	4.33	4.00
Rated torque [kgfm]	1.04	1.00	0.996	0.994	1.27	1.26	1.26
Locked rotor torque [%]	229	229	270	300	180	210	240
Breakdown torque [%]	350	320	370	400	250	290	320
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	45s (cold) 25s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%						
	50%	86.5	86.3	86.3	86.1	87.5	87.5
	75%	88.5	87.7	88.2	88.2	87.5	88.5
	100%	88.5	87.5	88.3	88.3	86.5	87.5
Power Factor	25%						
	50%	0.76	0.74	0.71	0.68	0.81	0.78
	75%	0.85	0.85	0.83	0.81	0.88	0.87
	100%	0.89	0.90	0.88	0.87	0.91	0.90

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

Losses (%)	P1 (0,9;1,0)	12.4	12.4	12.4	12.4	12.4	12.4
	P2 (0,5;1,0)	9.9	9.9	9.9	9.9	9.9	9.9
	P3 (0,25;1,0)	8.9	8.9	8.9	8.9	8.9	8.9
	P4 (0,9;0,5)	6.2	6.2	6.2	6.2	6.2	6.2
	P5 (0,5;0,5)	3.7	3.7	3.7	3.7	3.7	3.7
	P6 (0,5;0,25)	2.3	2.3	2.3	2.3	2.3	2.3
	P7 (0,25;0,25)	1.4	1.4	1.4	1.4	1.4	1.4

Bearing type	: Drive end	6307 ZZ	Non drive end	6206 ZZ	Foundation loads	Max. traction	: 63 kgf
	: Sealing	V'Ring	V'Ring	Max. compression		: 106 kgf	
	: Lubrication interval	-	-				
	: Lubricant amount	-	-				
	: 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



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Notes
USABLE @208V 13.1A SF 1.15 SFA 15.0A

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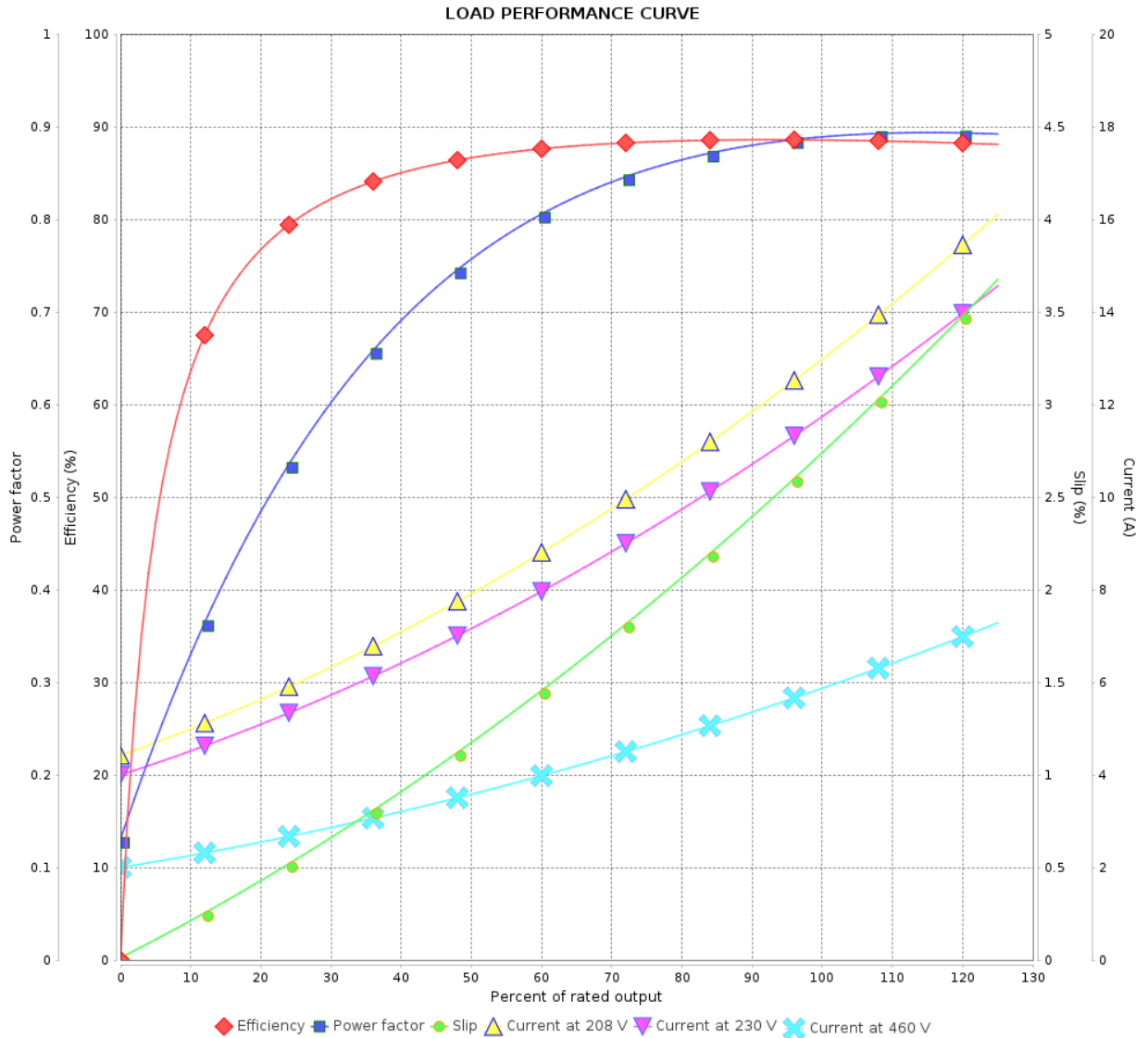
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14340600



Performance : 230/460 V 60 Hz 2P

Rated current : 11.8/5.90 A
 LRC : 7.6
 Rated torque : 1.04 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 350 %
 Rated speed : 3485 rpm

Moment of inertia (J) : 0.0094 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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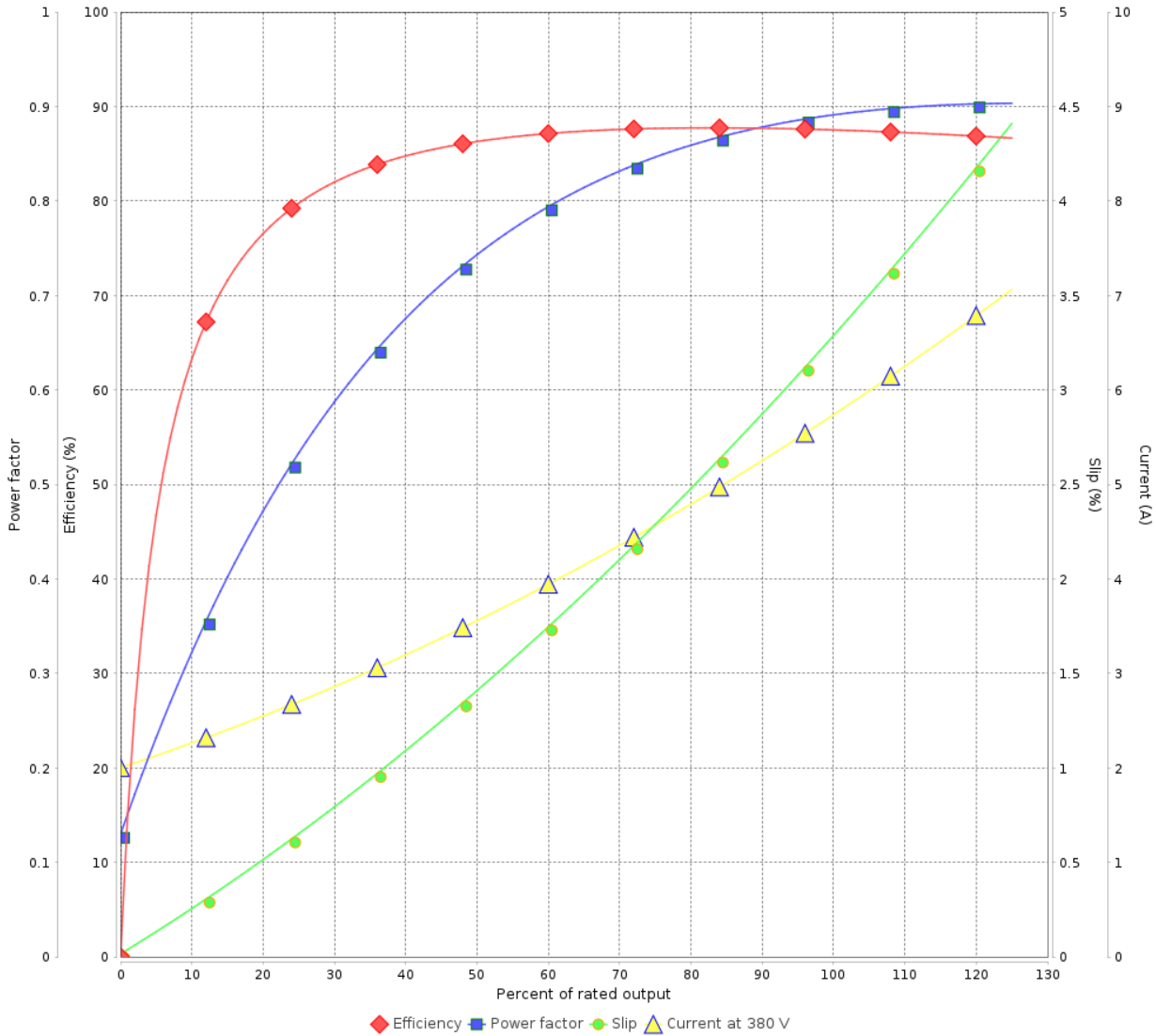


Customer :

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

Product code : 14340600

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Performance : 380 V 50 Hz 2P IE3

Rated current : 5.79 A
LRC : 7.4
Rated torque : 1.00 kgfm
Locked rotor torque : 229 %
Breakdown torque : 320 %
Rated speed : 2890 rpm

Moment of inertia (J) : 0.0094 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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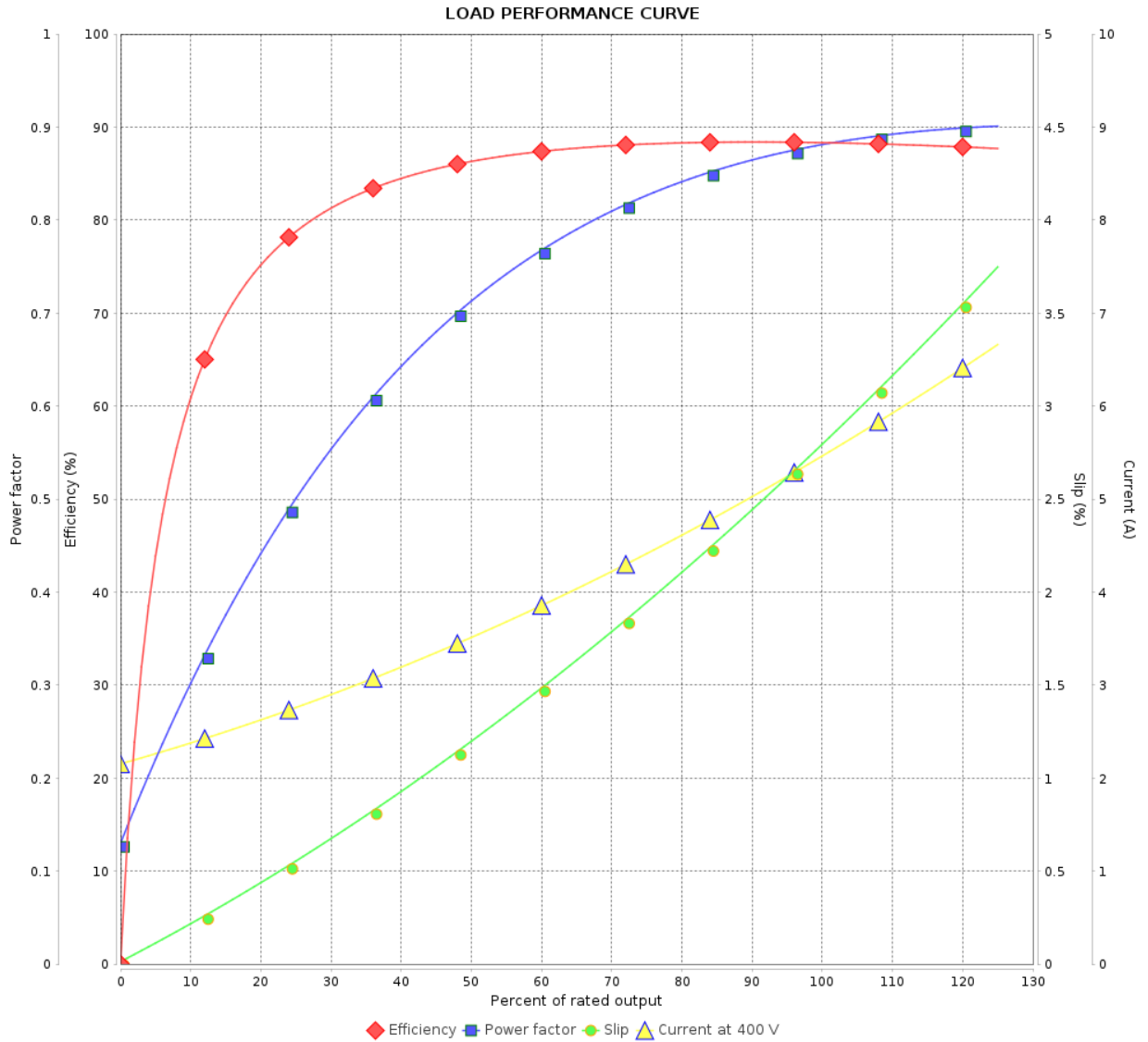
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Product code : 14340600



Performance : 400 V 50 Hz 2P IE3

Rated current : 5.57 A
 LRC : 8.1
 Rated torque : 0.996 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 370 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0094 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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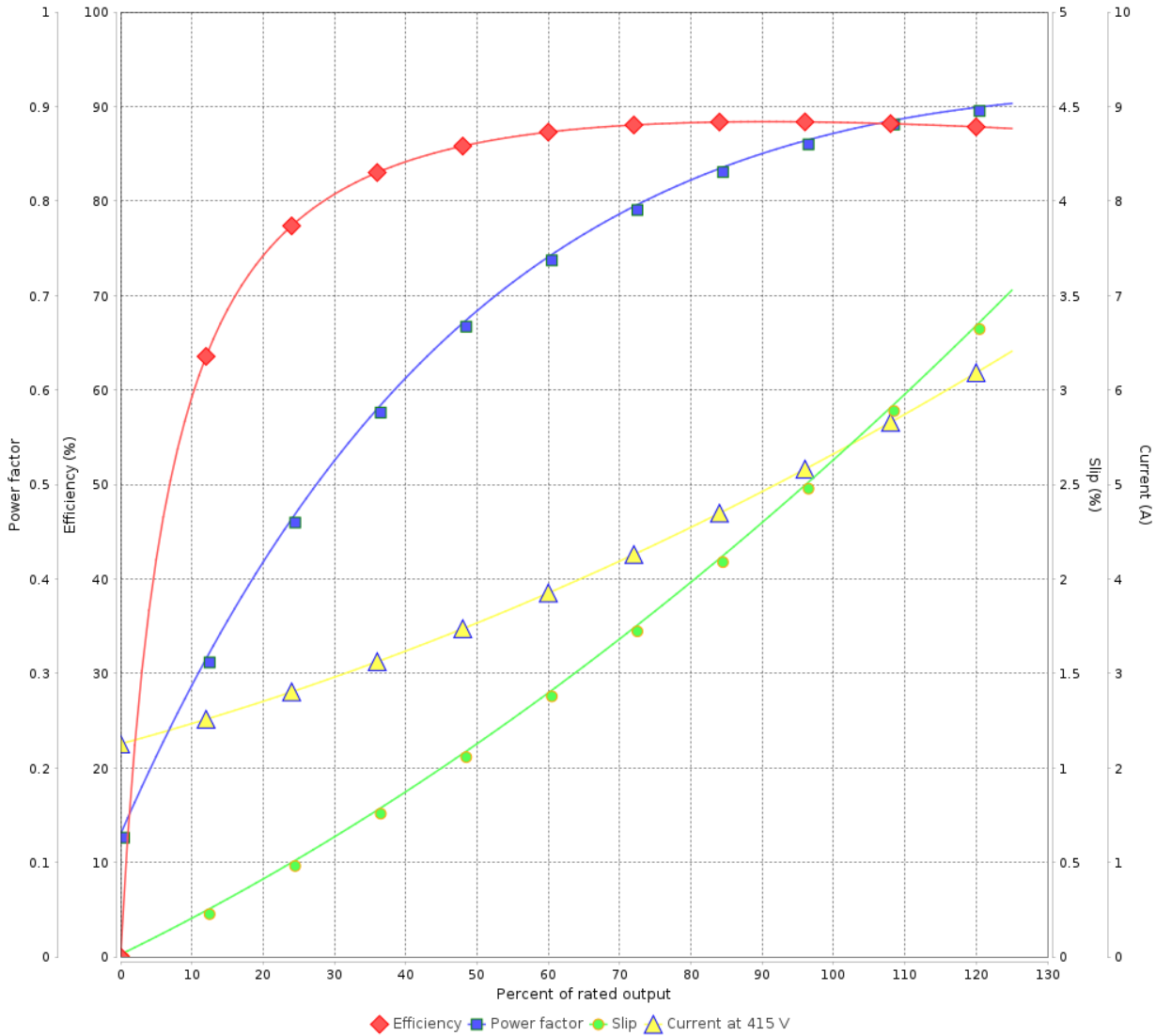


Customer :

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Premium Efficiency Three-Phase

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Performance : 415 V 50 Hz 2P IE3

Rated current : 5.43 A
LRC : 8.9
Rated torque : 0.994 kgfm
Locked rotor torque : 300 %
Breakdown torque : 400 %
Rated speed : 2910 rpm

Moment of inertia (J) : 0.0094 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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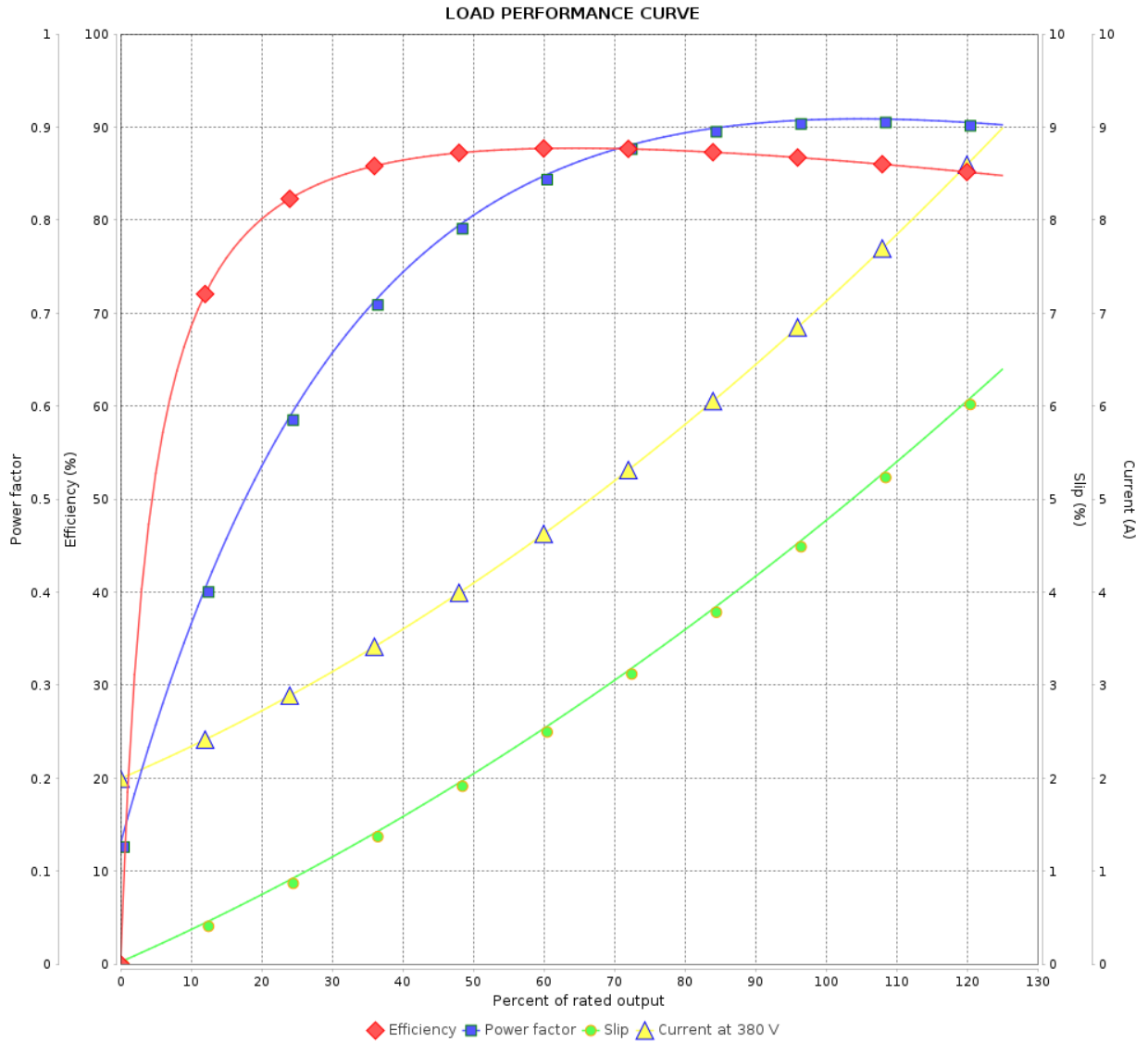
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Customer :

Product line : W22 Close Coupled Pump JP NEMA
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Performance : 380 V 50 Hz 2P IE2

Rated current : 7.14 A
LRC : 5.9
Rated torque : 1.27 kgfm
Locked rotor torque : 180 %
Breakdown torque : 250 %
Rated speed : 2850 rpm

Moment of inertia (J) : 0.0094 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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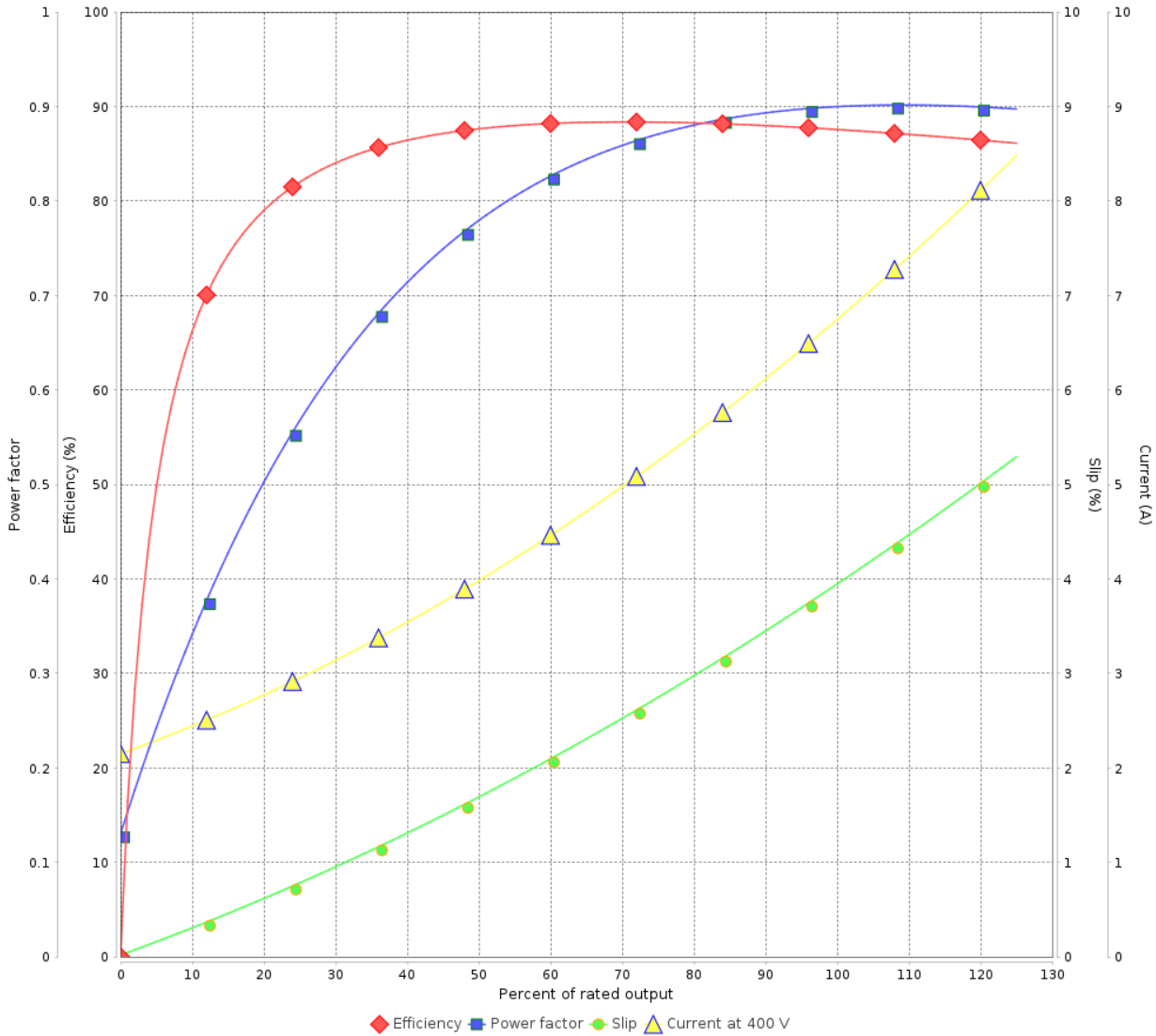


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Performance : 400 V 50 Hz 2P IE2

Rated current : 6.78 A
LRC : 6.6
Rated torque : 1.26 kgfm
Locked rotor torque : 210 %
Breakdown torque : 290 %
Rated speed : 2870 rpm

Moment of inertia (J) : 0.0094 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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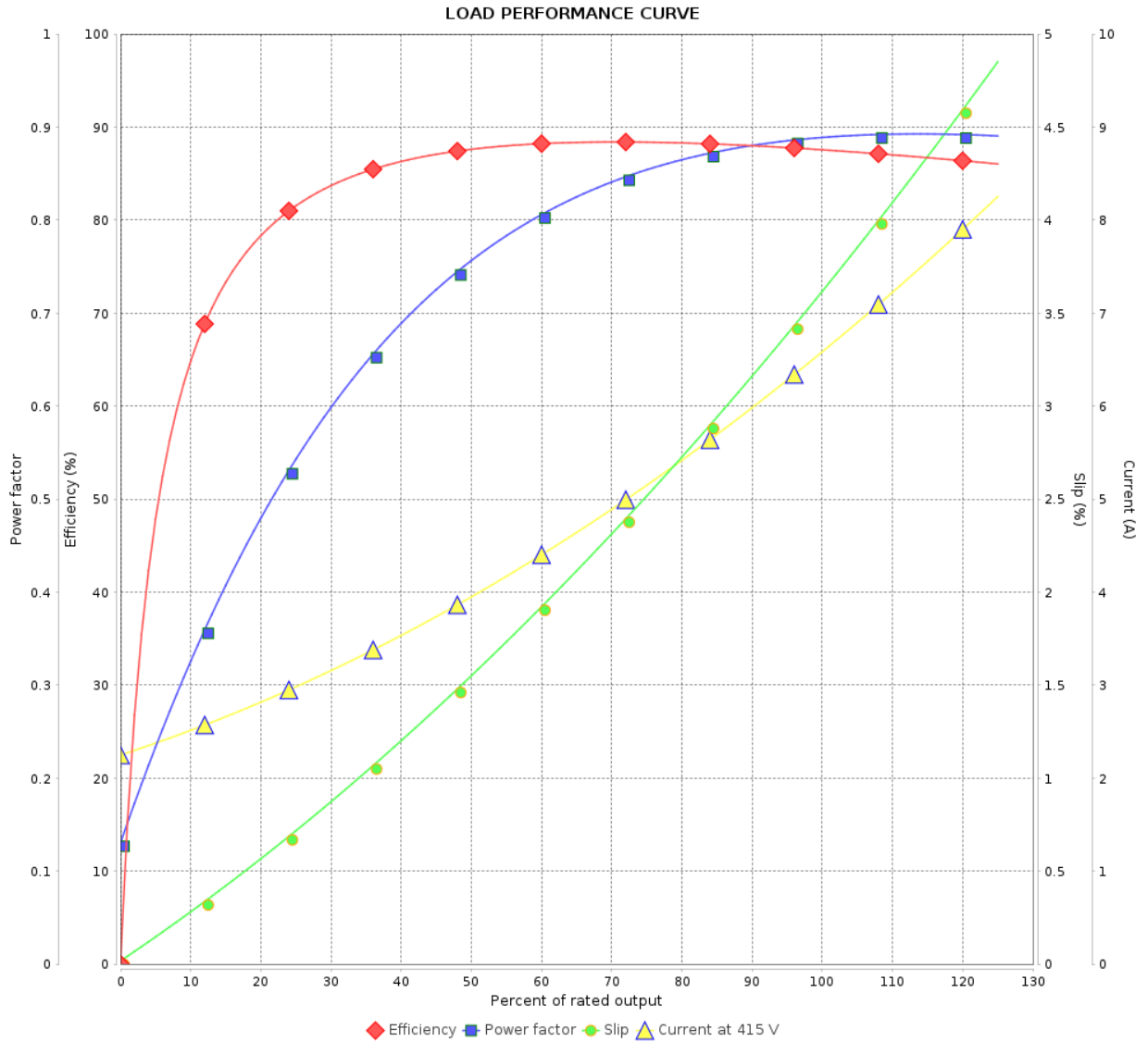
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14340600



Performance : 415 V 50 Hz 2P IE2

Rated current : 6.61 A
 LRC : 7.2
 Rated torque : 1.26 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 2880 rpm

Moment of inertia (J) : 0.0094 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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