

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 13129046

Frame : 213HP	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 : 70.6 kg
Protection degree : IP55	Moment of inertia (J) : 0.0504 kgm ²
Design : B	

Output [HP]	3	3	3	3
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	8.82/4.41	5.09	4.97	4.93
L. R. Amperes [A]	61.7/30.9	29.5	31.8	33.5
LRC [A]	7.0x(Code K)	5.8x(Code H)	6.4x(Code J)	6.8x(Code K)
No load current [A]	5.10/2.55	2.45	2.60	2.75
Rated speed [RPM]	1175	965	970	970
Slip [%]	2.08	3.50	3.00	3.00
Rated torque [kgfm]	1	2	2	2
Locked rotor torque [%]	190	170	180	200
Breakdown torque [%]	270	229	240	250
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	104s (cold) 58s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%			
	50%	86.5	87.0	87.0
	75%	88.5	88.0	88.0
	100%	89.5	87.5	87.5
Power Factor	25%			
	50%	0.50	0.57	0.53
	75%	0.63	0.70	0.66
	100%	0.70	0.75	0.73

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

Losses (%)	P1 (0,9;1,0)	11.0	13.4	13.4	13.4
	P2 (0,5;1,0)	8.6	10.5	10.5	10.5
	P3 (0,25;1,0)	8.0	9.7	9.7	9.7
	P4 (0,9;0,5)	6.6	8.0	8.0	8.0
	P5 (0,5;0,5)	4.3	5.3	5.3	5.3
	P6 (0,5;0,25)	3.4	4.1	4.1	4.1
	P7 (0,25;0,25)	2.4	3.0	3.0	3.0

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6309 ZZ	6207 ZZ	Max. traction : 0 kgf
Sealing :	V'Ring	V'Ring	Max. compression : 0 kgf
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	00088		

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Customer :

Notes
USABLE @208V 9.76A SF 1.15 SFA 11.2A

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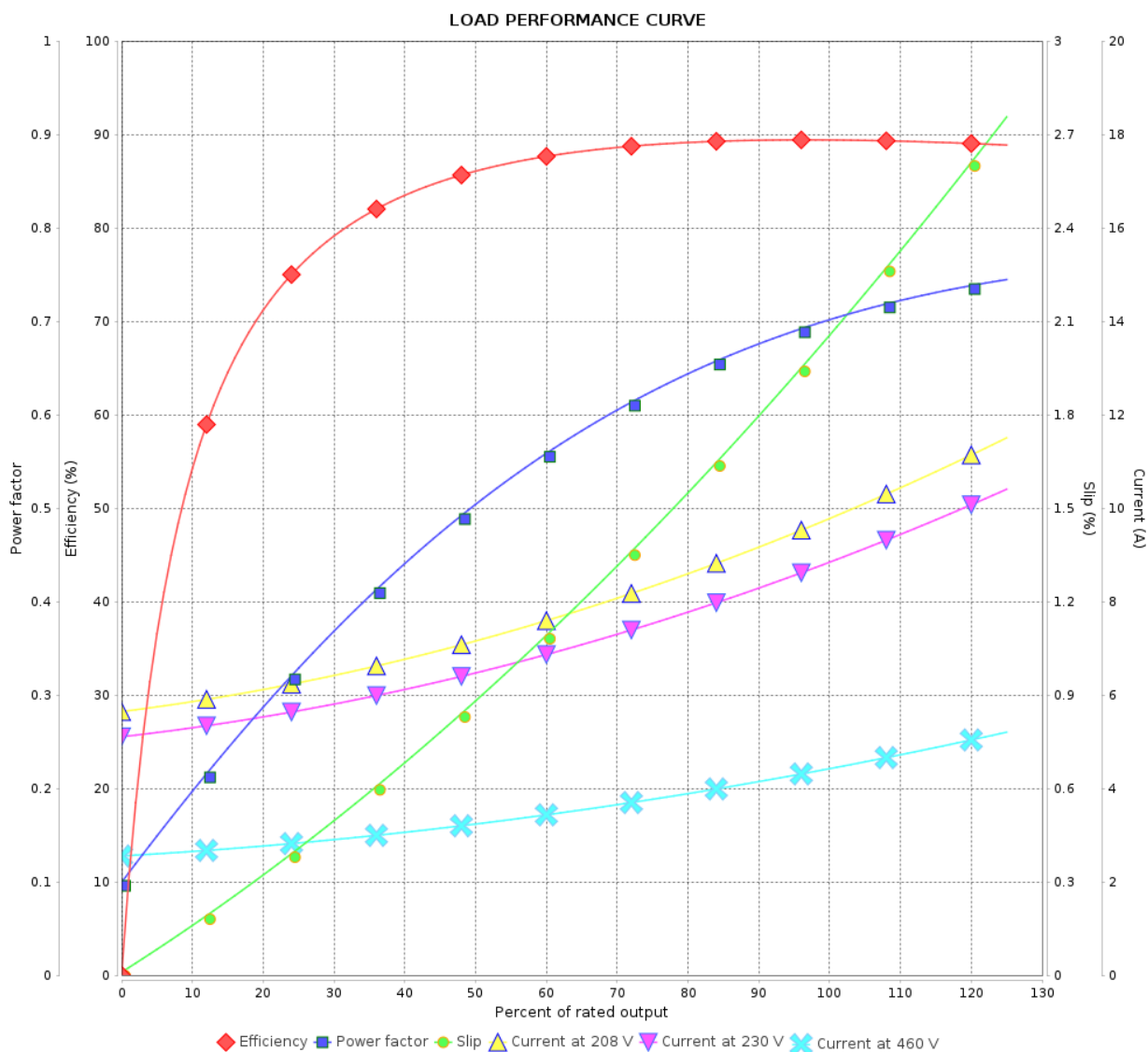
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13129046



Performance : 230/460 V 60 Hz 6P

Rated current : 8.82/4.41 A
 LRC : 7.0
 Rated torque : 1 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 270 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.0504 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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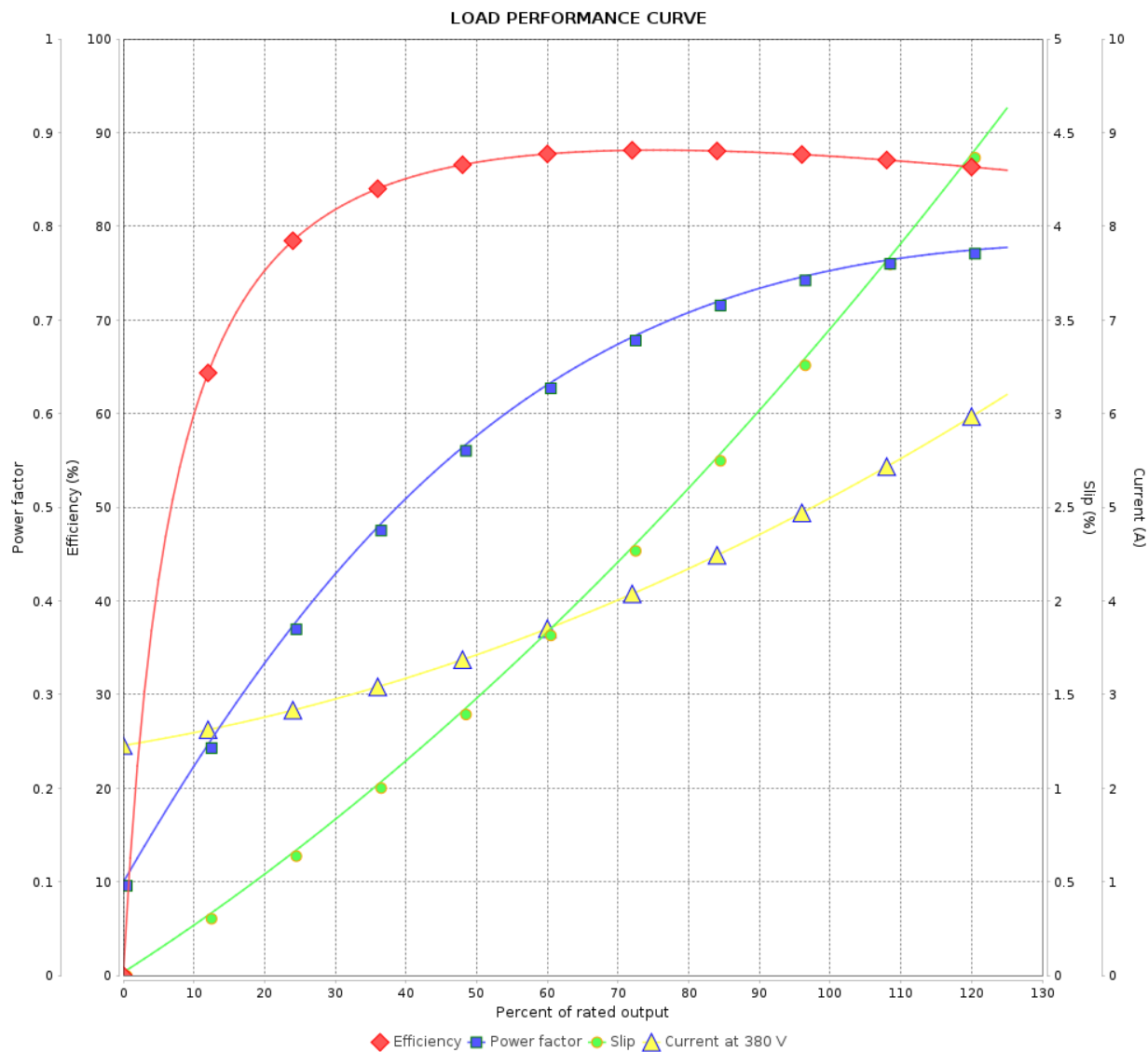
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13129046



Performance : 380 V 50 Hz 6P IE4

Rated current : 5.09 A
LRC : 5.8
Rated torque : 2 kgfm
Locked rotor torque : 170 %
Breakdown torque : 229 %
Rated speed : 965 rpm

Moment of inertia (J) : 0.0504 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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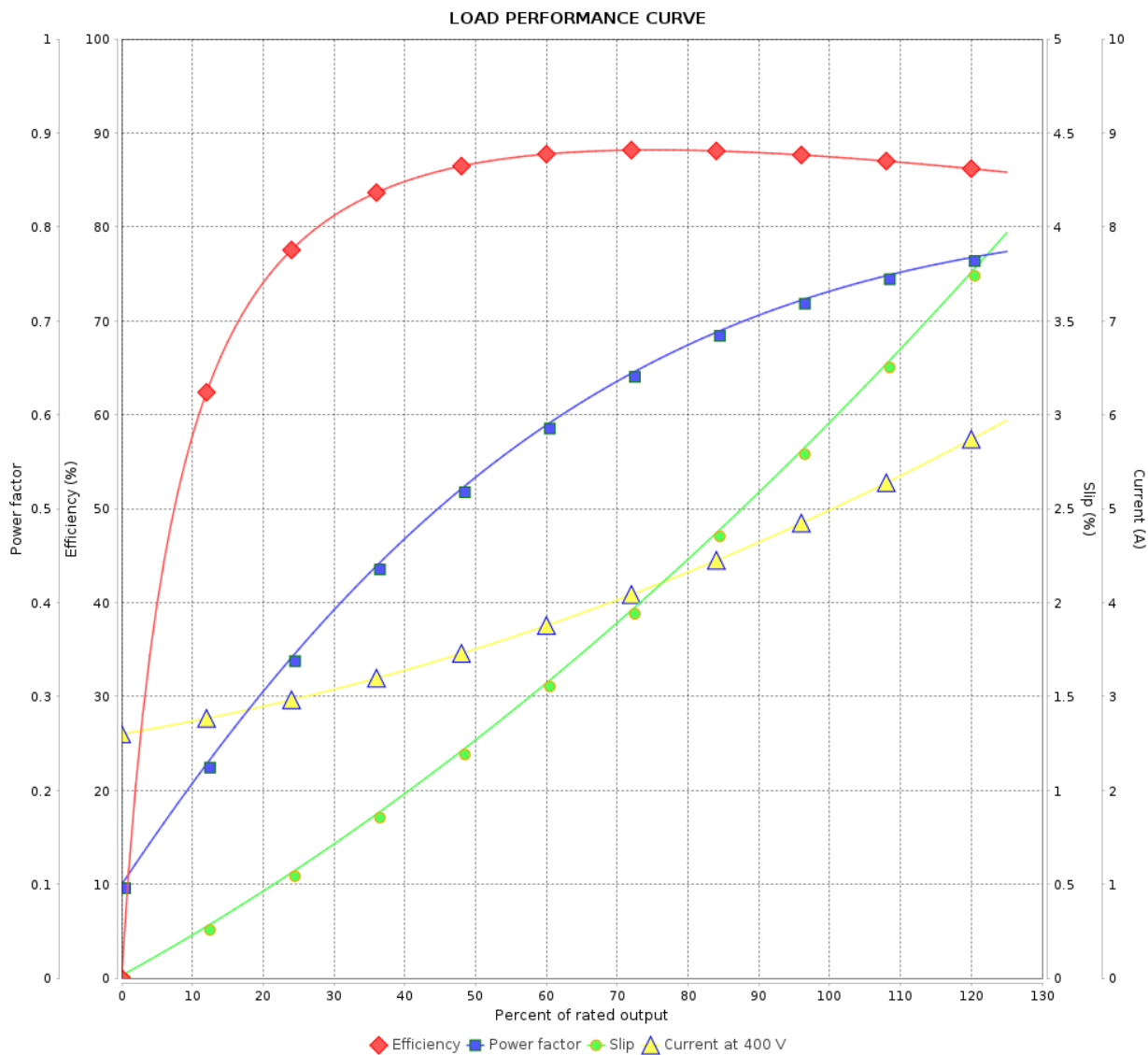
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
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Performance : 400 V 50 Hz 6P IE4

Rated current	: 4.97 A	Moment of inertia (J)	: 0.0504 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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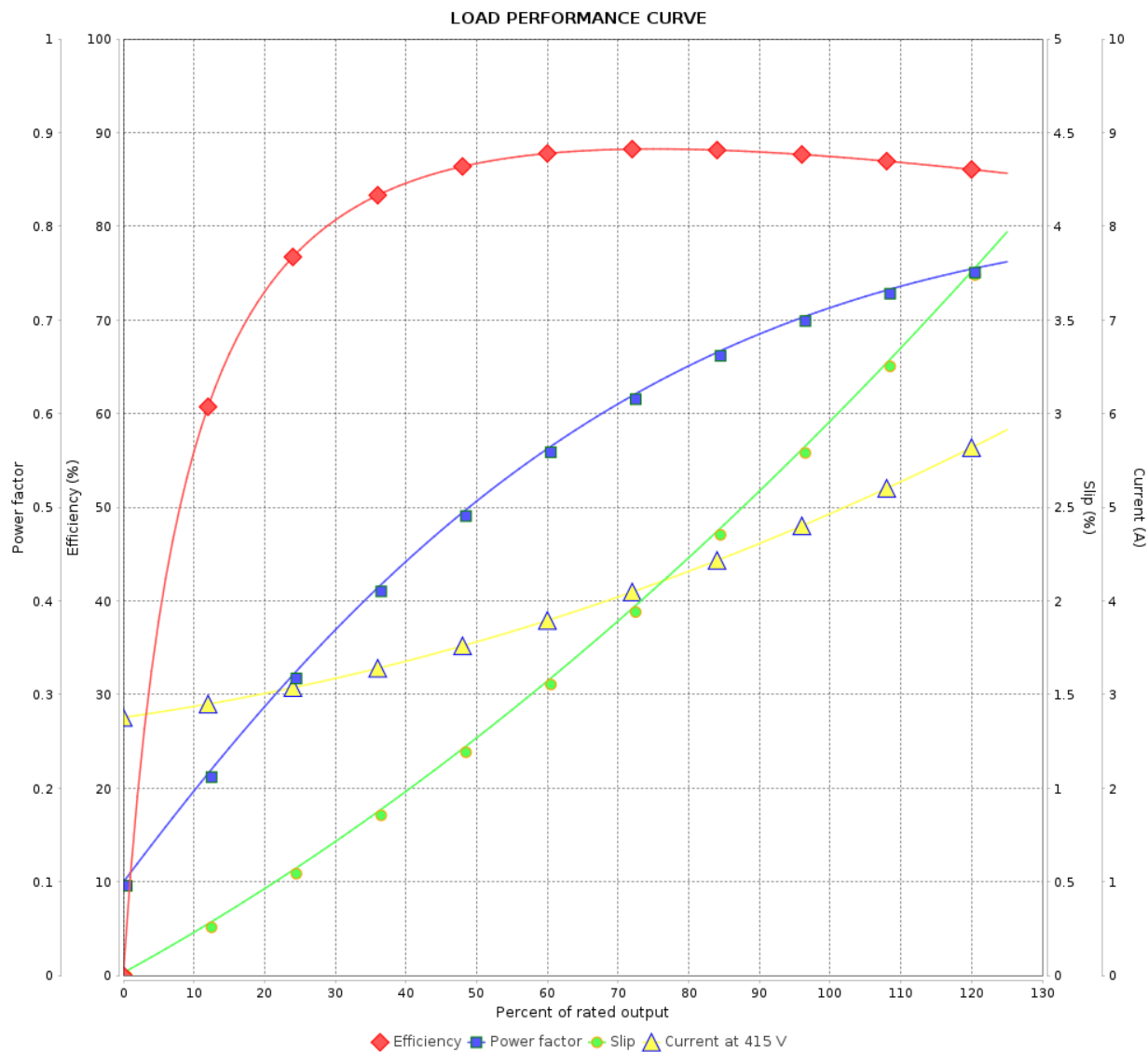
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13129046



Performance : 415 V 50 Hz 6P IE4

Rated current : 4.93 A
LRC : 6.8
Rated torque : 2 kgfm
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 970 rpm

Moment of inertia (J) : 0.0504 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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