

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611252

Frame : 213/5T
Insulation class : F
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : B

Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight² : 75.8 kg
Moment of inertia (J) : 0.0620 kgm²

Output [HP]	5	5	5	5
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	13.7/6.83	8.20	7.82	7.65
L. R. Amperes [A]	92.9/46.4	45.1	47.7	49.7
LRC [A]	6.8x(Code J)	5.5x(Code G)	6.1x(Code H)	6.5x(Code J)
No load current [A]	6.90/3.45	3.41	3.68	3.90
Rated speed [RPM]	1170	960	965	970
Slip [%]	2.50	4.00	3.50	3.00
Rated torque [kgfm]	3.10	3.78	3.76	3.74
Locked rotor torque [%]	170	150	160	190
Breakdown torque [%]	260	215	220	250
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	102s (cold) 57s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%			
	50%	88.5	88.5	87.5
	75%	89.5	88.5	88.5
	100%	89.5	87.5	88.5
Power Factor	25%			
	50%	0.58	0.65	0.58
	75%	0.70	0.73	0.71
	100%	0.76	0.78	0.76

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

Losses (%)	P1 (0,9;1,0)	11.1	14.4	13.5	12.3
	P2 (0,5;1,0)	9.1	11.8	11.1	10.1
	P3 (0,25;1,0)	8.8	11.4	10.8	9.8
	P4 (0,9;0,5)	5.8	7.5	7.1	6.4
	P5 (0,5;0,5)	4.0	5.2	4.9	4.5
	P6 (0,5;0,25)	2.9	3.7	3.5	3.2
	P7 (0,25;0,25)	2.1	2.7	2.6	2.3

Drive end **Non drive end**
Bearing type : 6308 ZZ 6207 ZZ
Sealing : V'Ring V'Ring
Lubrication interval : - -
Lubricant amount : - -
Lubricant type : Mobil Polyrex EM

Foundation loads
Max. traction : 135 kgf
Max. compression : 211 kgf

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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Notes
USABLE @208V 15.1A SF 1.15 SFA 17.4A

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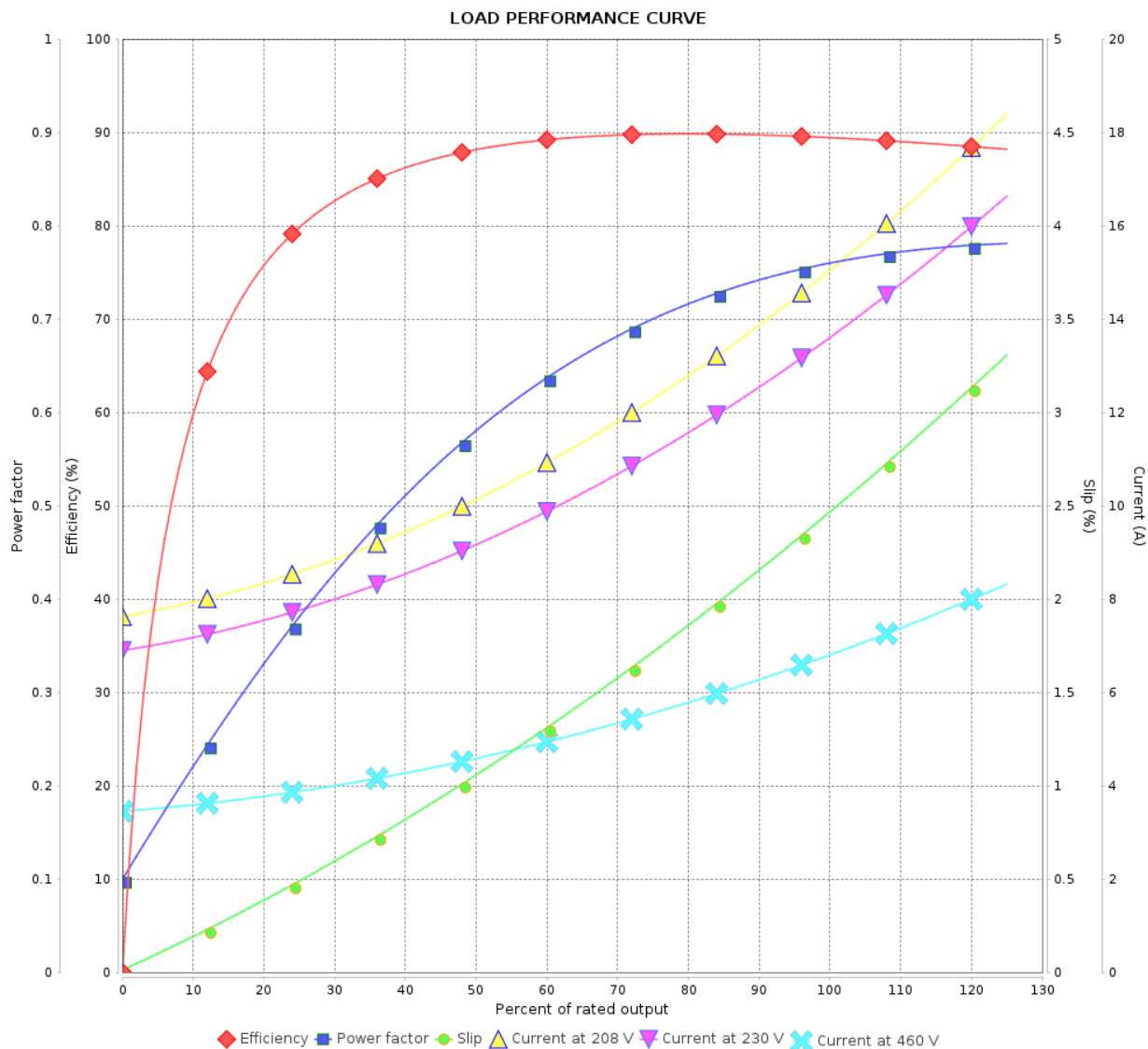
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Customer :

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Performance : 230/460 V 60 Hz 6P

Rated current : 13.7/6.83 A
LRC : 6.8
Rated torque : 3.10 kgfm
Locked rotor torque : 170 %
Breakdown torque : 260 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.0620 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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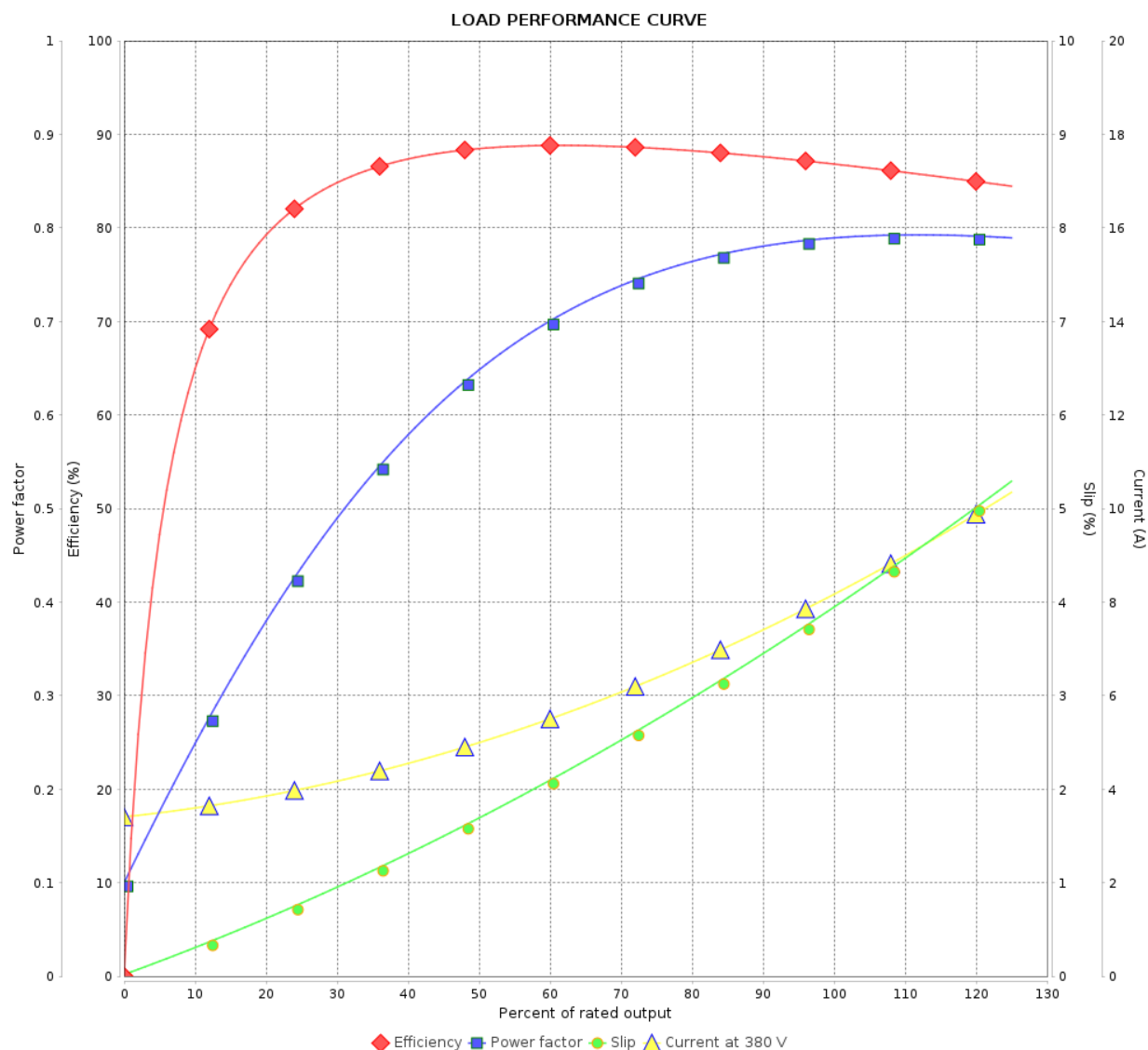
Three Phase Induction Motor - Squirrel Cage



Customer :

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Product code : 11611252



Performance : 380 V 50 Hz 6P IE3

Rated current : 8.20 A
LRC : 5.5
Rated torque : 3.78 kgfm
Locked rotor torque : 150 %
Breakdown torque : 215 %
Rated speed : 960 rpm

Moment of inertia (J) : 0.0620 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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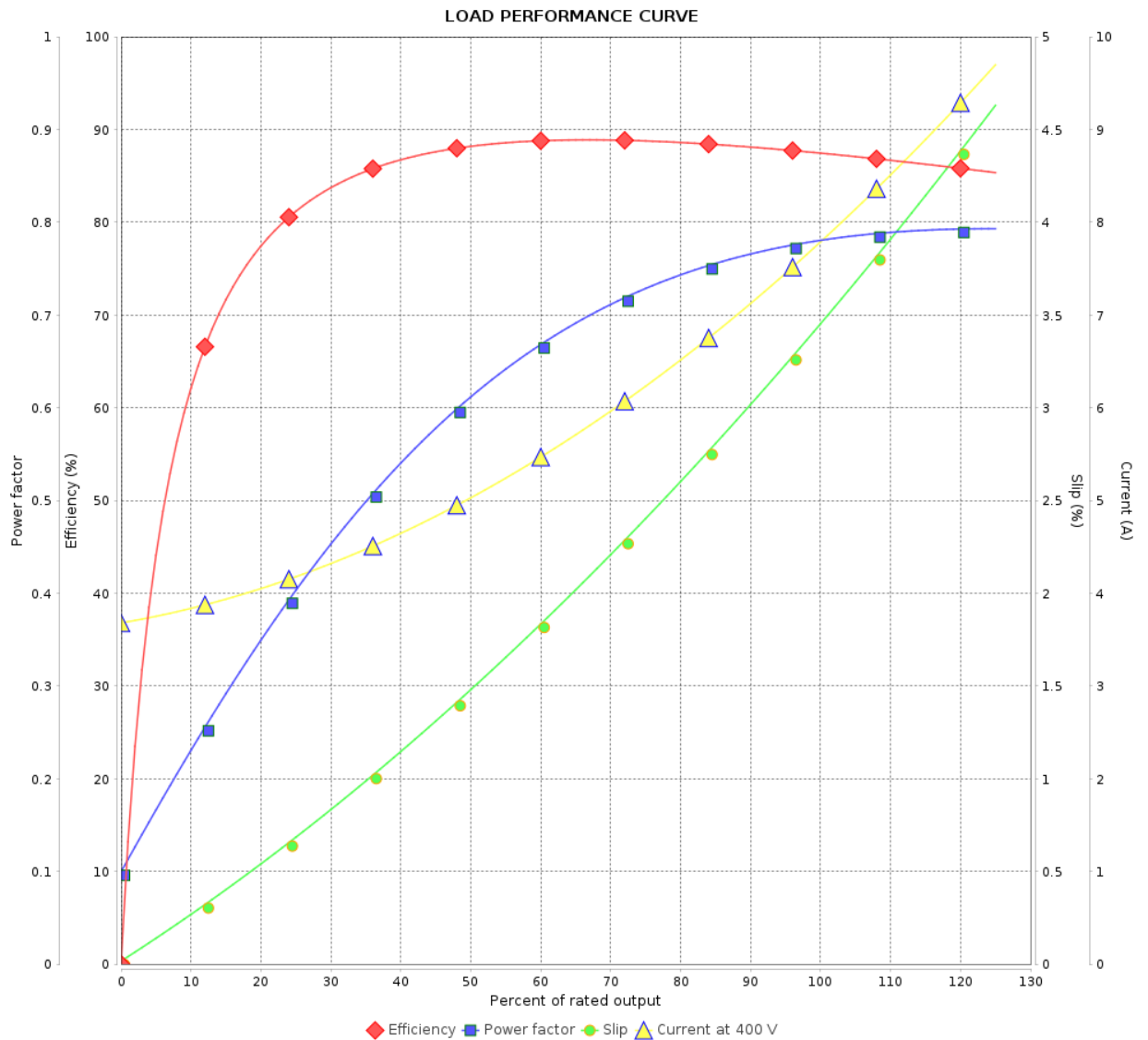
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 400 V 50 Hz 6P IE3

Rated current	: 7.82 A	Moment of inertia (J)	: 0.0620 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.76 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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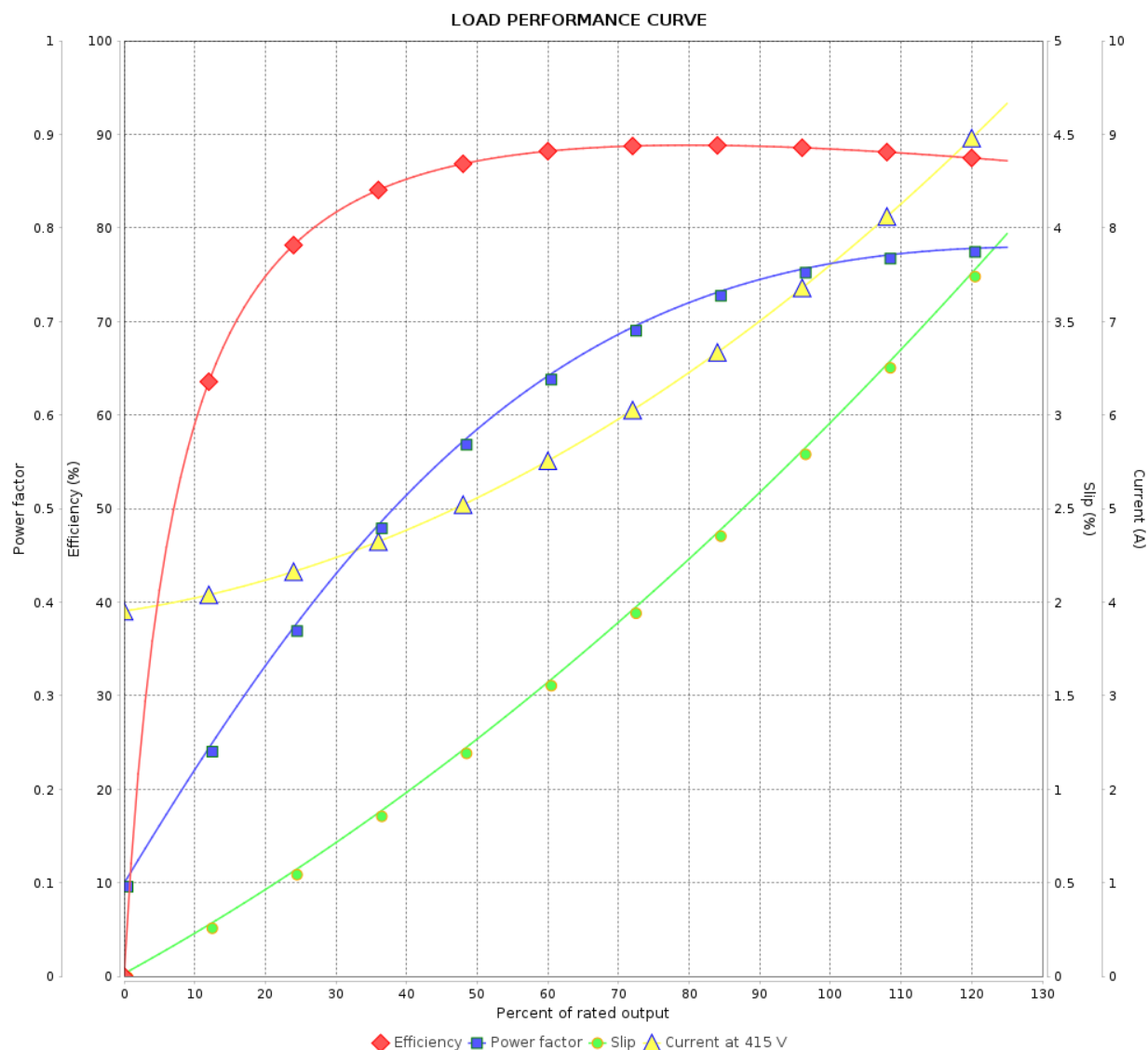
Three Phase Induction Motor - Squirrel Cage



Customer :

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Product code : 11611252



Performance : 415 V 50 Hz 6P IE3

Rated current : 7.65 A
LRC : 6.5
Rated torque : 3.74 kgfm
Locked rotor torque : 190 %
Breakdown torque : 250 %
Rated speed : 970 rpm

Moment of inertia (J) : 0.0620 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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