

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase		Product code : 15671900			
Frame : 447/9T	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	Rotation ¹ : Both (CW and CCW)	
		Starting method : Direct On Line	Approx. weight ³ : 1386 kg	Moment of inertia (J) : 6.78 kgm ²	
Output [HP]	200	150	150	150	
Poles	8	8	8	8	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	460	380	400	415	
Rated current [A]	254	230	227	228	
L. R. Amperes [A]	1626	1495	1612	1687	
LRC [A]	6.4x(Code H)	6.5x(Code H)	7.1x(Code J)	7.4x(Code K)	
No load current [A]	115	113	125	135	
Rated speed [RPM]	890	740	740	745	
Slip [%]	1.11	1.33	1.33	0.67	
Rated torque [kgfm]	163	147	147	146	
Locked rotor torque [%]	200	210	240	270	
Breakdown torque [%]	220	240	270	300	
Service factor	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	23s (cold) 13s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level ²	66.0 dB(A)				
Efficiency (%)	25%				
	50%	94.5	94.1	93.6	
	75%	95.0	94.5	94.5	
	100%	95.0	94.5	94.5	
Power Factor	25%				
	50%	0.62	0.59	0.54	
	75%	0.73	0.71	0.67	
	100%	0.78	0.77	0.74	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	5.4	5.4	5.4	5.4
	P2 (0,5;1,0)	4.3	4.3	4.3	4.3
	P3 (0,25;1,0)	3.8	3.8	3.8	3.8
	P4 (0,9;0,5)	2.9	2.9	2.9	2.9
	P5 (0,5;0,5)	2.0	2.0	2.0	2.0
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0
Bearing type	Drive end : 6322 C3	Non drive end : 6319 C3	Foundation loads		
Sealing	: WSeal	: WSeal	Max. traction	: 3142 kgf	
Lubrication interval	: 14000 h	: 17000 h	Max. compression	: 4528 kgf	
Lubricant amount	: 60 g	: 45 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. (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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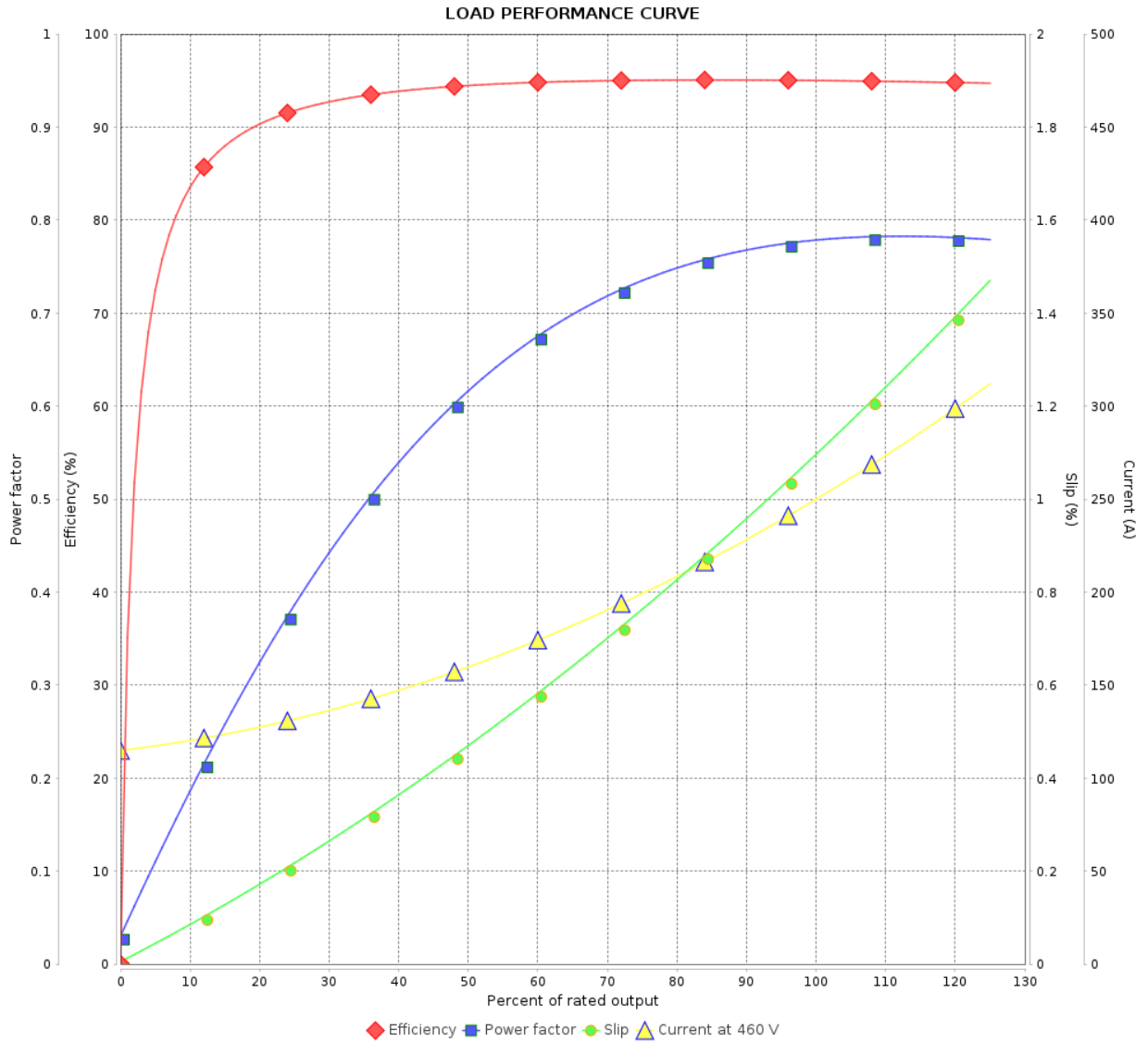
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 15671900



Performance : 460 V 60 Hz 8P

Rated current : 254 A
 LRC : 6.4
 Rated torque : 163 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Rated speed : 890 rpm

Moment of inertia (J) : 6.78 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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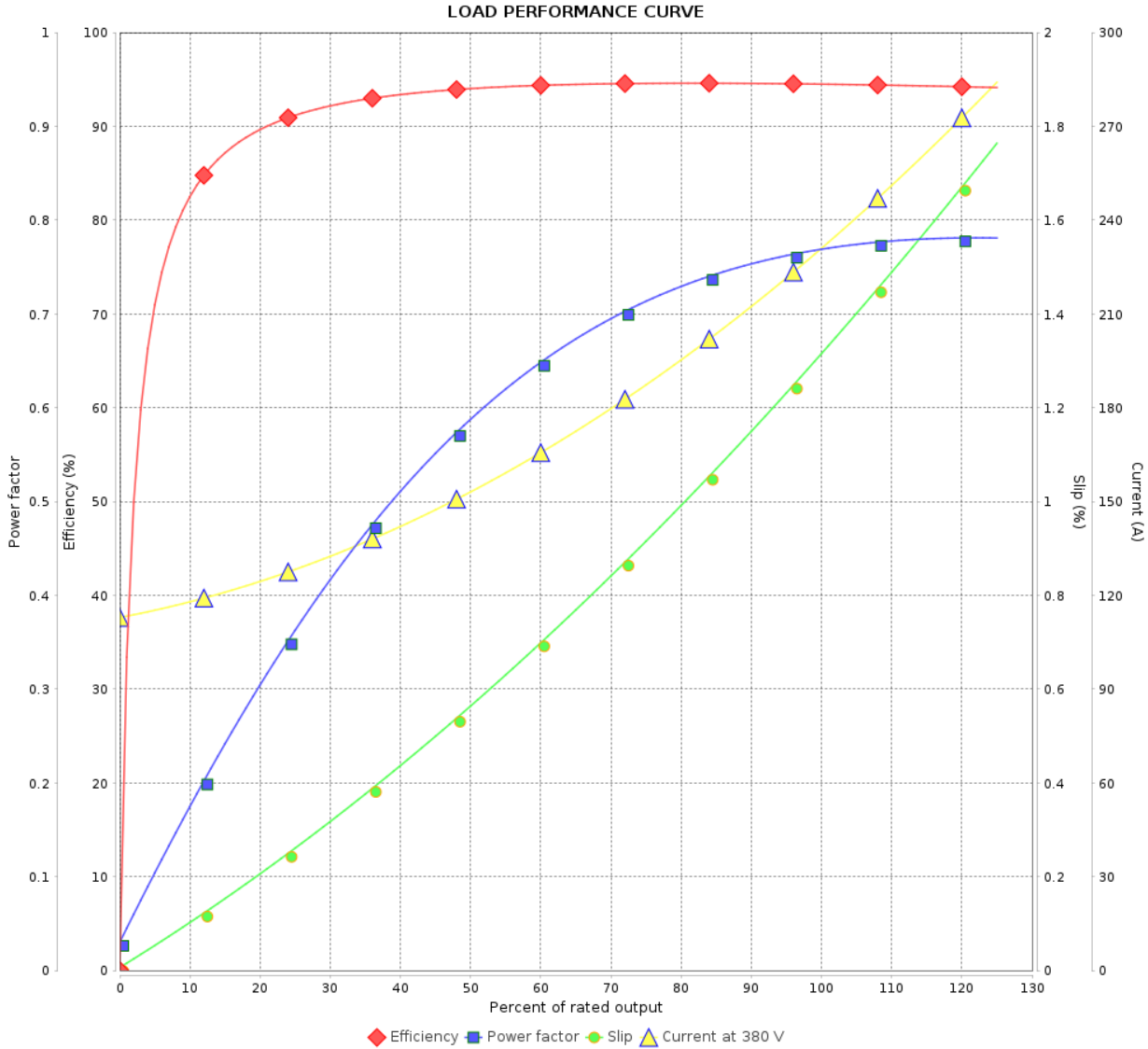
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 380 V 50 Hz 8P IE3

Rated current	: 230 A	Moment of inertia (J)	: 6.78 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 147 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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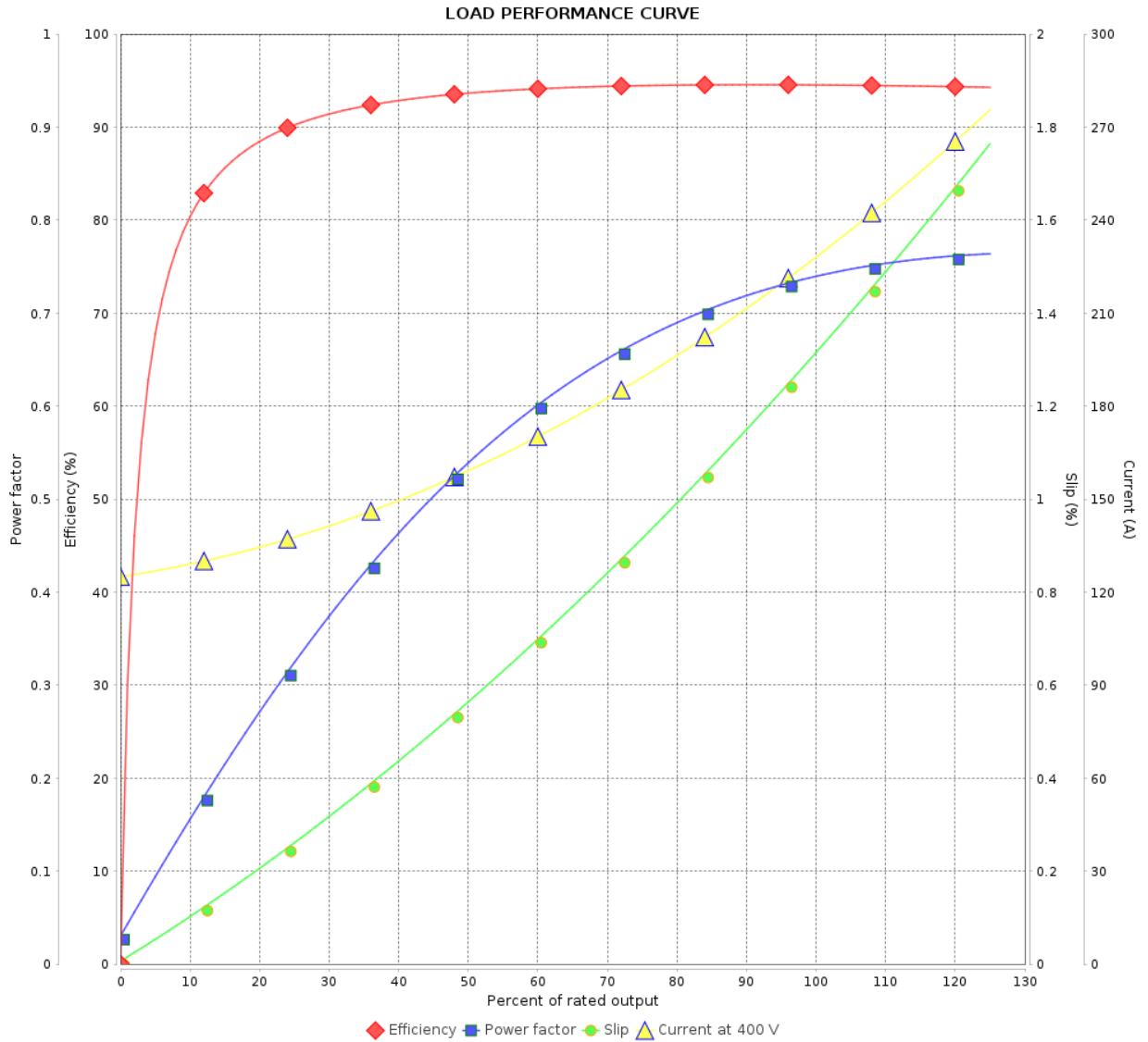
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 400 V 50 Hz 8P IE3

Rated current : 227 A
 LRC : 7.1
 Rated torque : 147 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 740 rpm

Moment of inertia (J) : 6.78 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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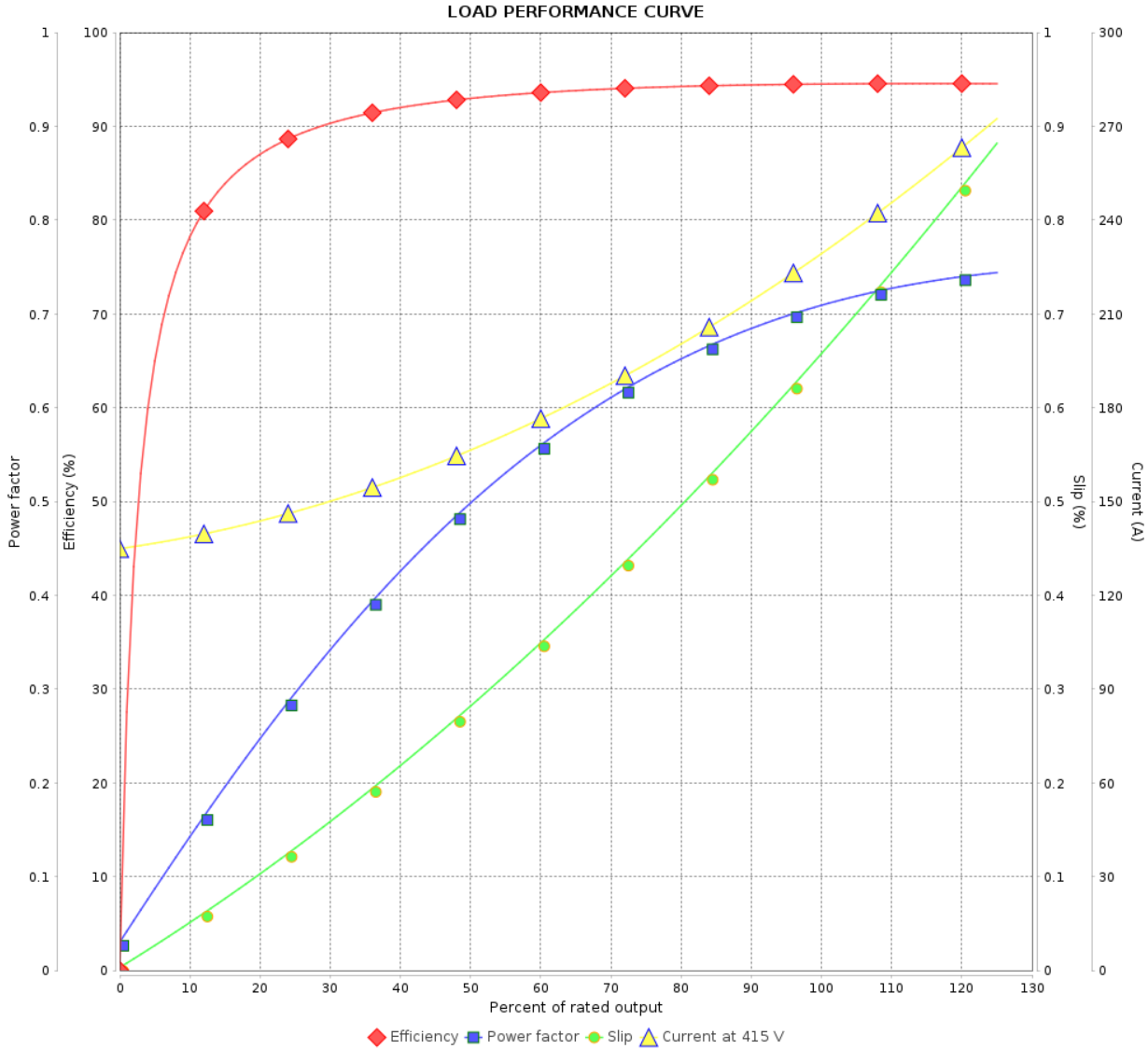
Three Phase Induction Motor - Squirrel Cage



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Performance : 415 V 50 Hz 8P IE3

Rated current	: 228 A	Moment of inertia (J)	: 6.78 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 146 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 745 rpm	Design	: B

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