

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	15201740		
Frame	: 586/7T	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	: 1660 kg		
Protection degree	: IP55	Moment of inertia (J)	: 7.55 kgm ²		
Design	: B				
Output [HP]	400	350	350	350	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	920/460	478	460	449	
L. R. Amperes [A]	5704/2852	2677	2852	3098	
LRC [A]	6.2x(Code G)	5.6x(Code F)	6.2x(Code G)	6.9x(Code H)	
No load current [A]	284/142	140	153	165	
Rated speed [RPM]	1790	1488	1490	1491	
Slip [%]	0.56	0.80	0.67	0.60	
Rated torque [kgfm]	162	171	170	170	
Locked rotor torque [%]	200	190	200	220	
Breakdown torque [%]	229	210	229	250	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	80 K	105 K	80 K	80 K	
Locked rotor time	34s (cold) 19s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level ²	81.0 dB(A)	76.0 dB(A)	76.0 dB(A)	76.0 dB(A)	
Efficiency (%)	25%				
	50%	95.8	95.8	95.8	
	75%	96.2	96.0	96.0	
	100%	96.2	96.0	96.0	
Power Factor	25%				
	50%	0.76	0.78	0.75	
	75%	0.83	0.84	0.82	
	100%	0.85	0.86	0.85	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.4	4.4	4.4	4.4
	P2 (0,5;1,0)	3.2	3.2	3.2	3.2
	P3 (0,25;1,0)	2.6	2.6	2.6	2.6
	P4 (0,9;0,5)	2.7	2.7	2.7	2.7
	P5 (0,5;0,5)	1.7	1.7	1.7	1.7
	P6 (0,5;0,25)	1.3	1.3	1.3	1.3
	P7 (0,25;0,25)	0.7	0.7	0.7	0.7
Bearing type	: Drive end : 6322 C3	Non drive end : 6319 C3	Foundation loads		
Sealing	: Taconite	Taconite	Max. traction	: 2086 kgf	
	Labyrinth	Labyrinth	Max. compression	: 3745 kgf	
Lubrication interval	: 6000 h	8000 h			
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).			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 1006A SF 1.00 SFA 1006A

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Customer : _____

Space heater information

Voltage: 200 - 240 V

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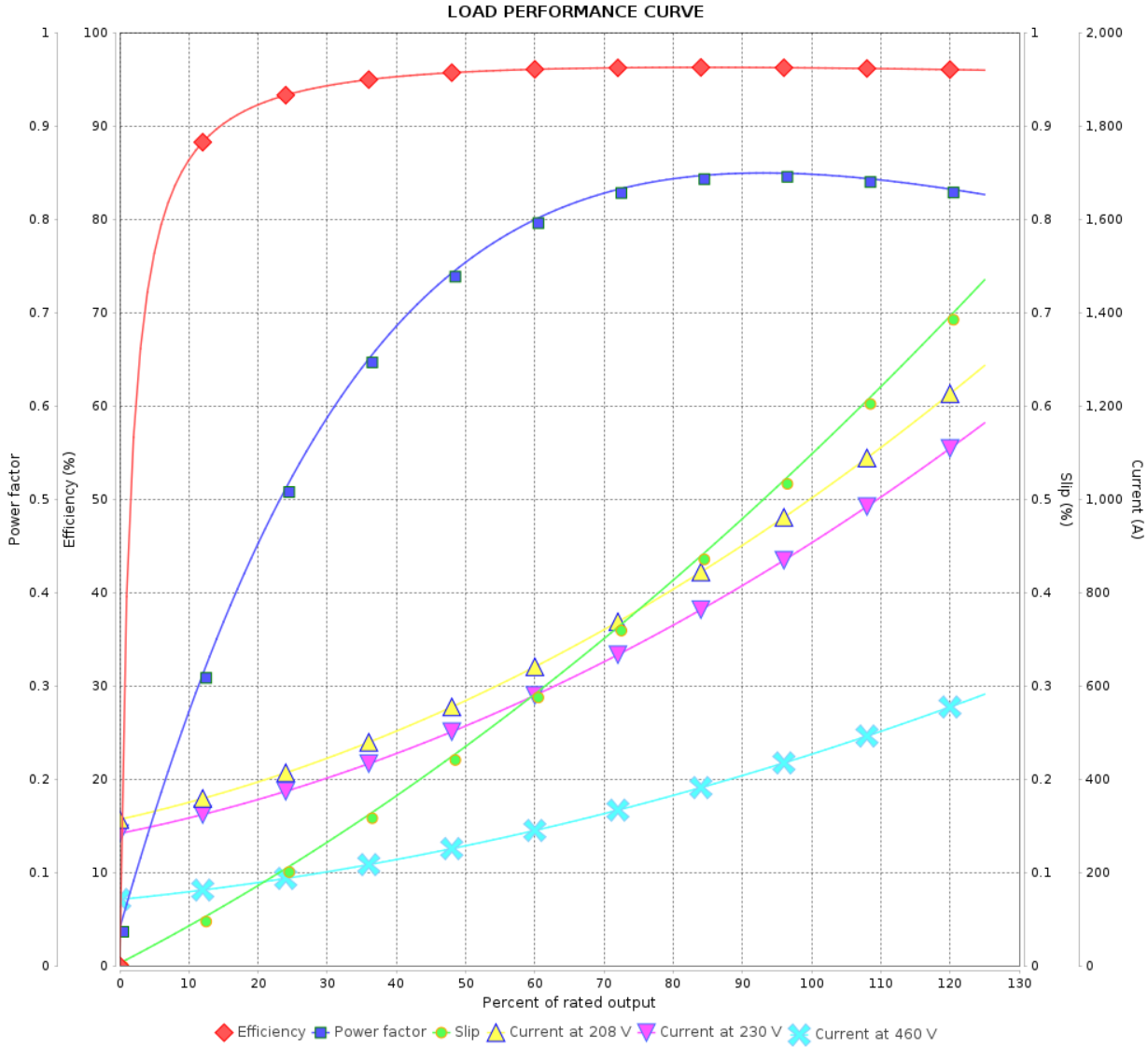
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 15201740



Performance : 230/460 V 60 Hz 4P

Rated current : 920/460 A
 LRC : 6.2
 Rated torque : 162 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1790 rpm

Moment of inertia (J) : 7.55 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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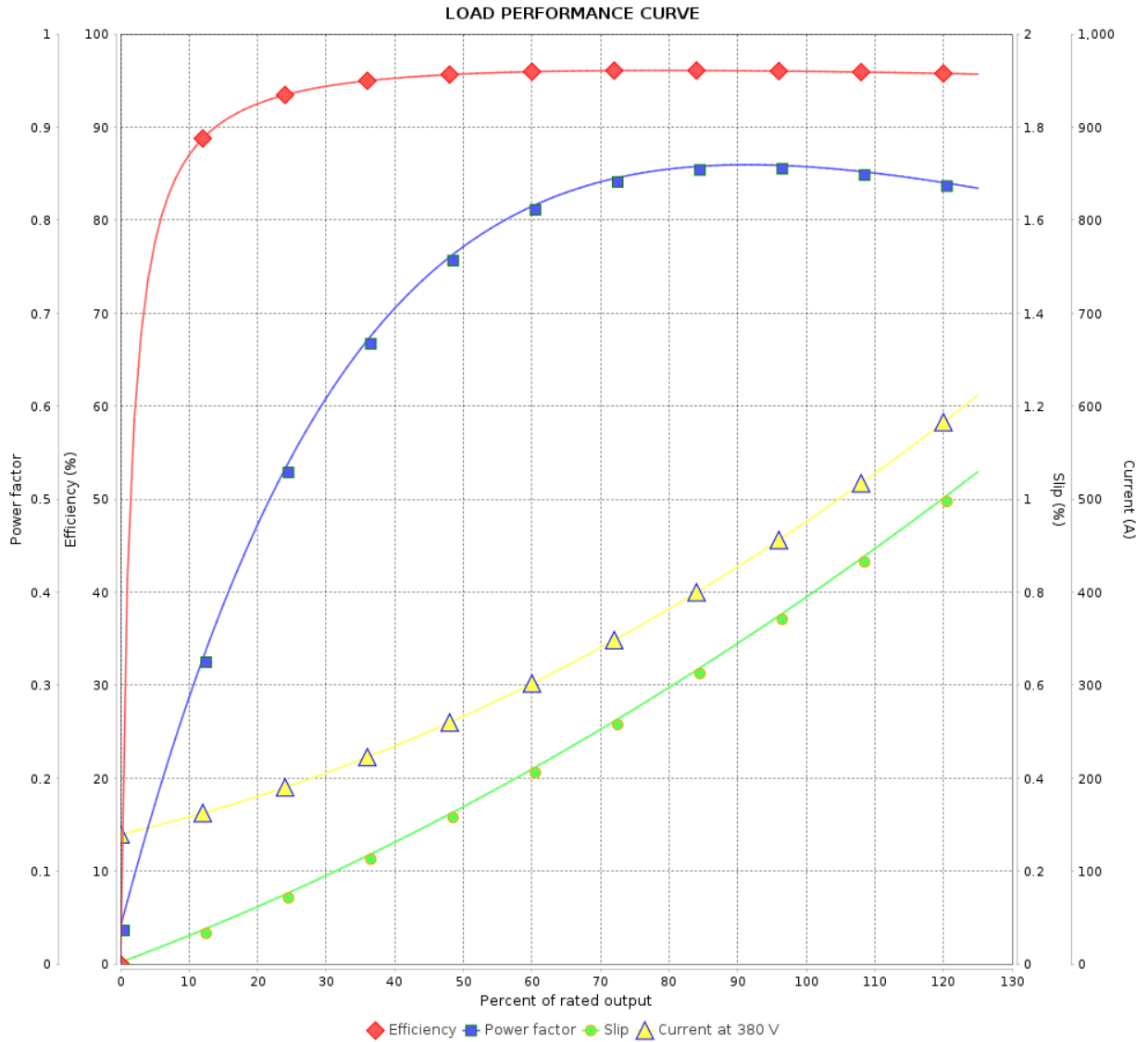
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 15201740



Performance : 380 V 50 Hz 4P IE3

Rated current : 478 A
 LRC : 5.6
 Rated torque : 171 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 1488 rpm

Moment of inertia (J) : 7.55 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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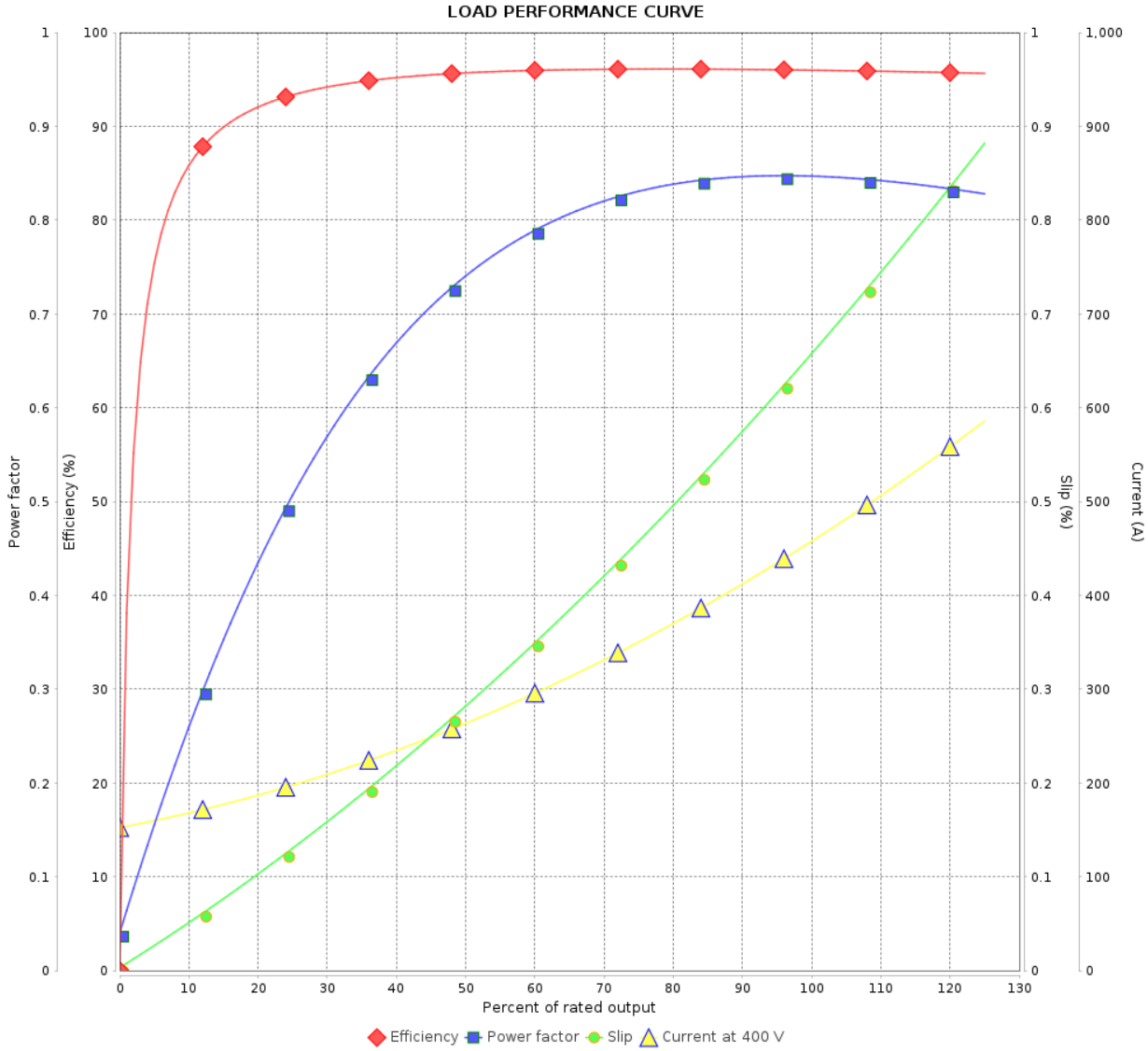
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 15201740



Performance : 400 V 50 Hz 4P IE3

Rated current : 460 A
 LRC : 6.2
 Rated torque : 170 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1490 rpm

Moment of inertia (J) : 7.55 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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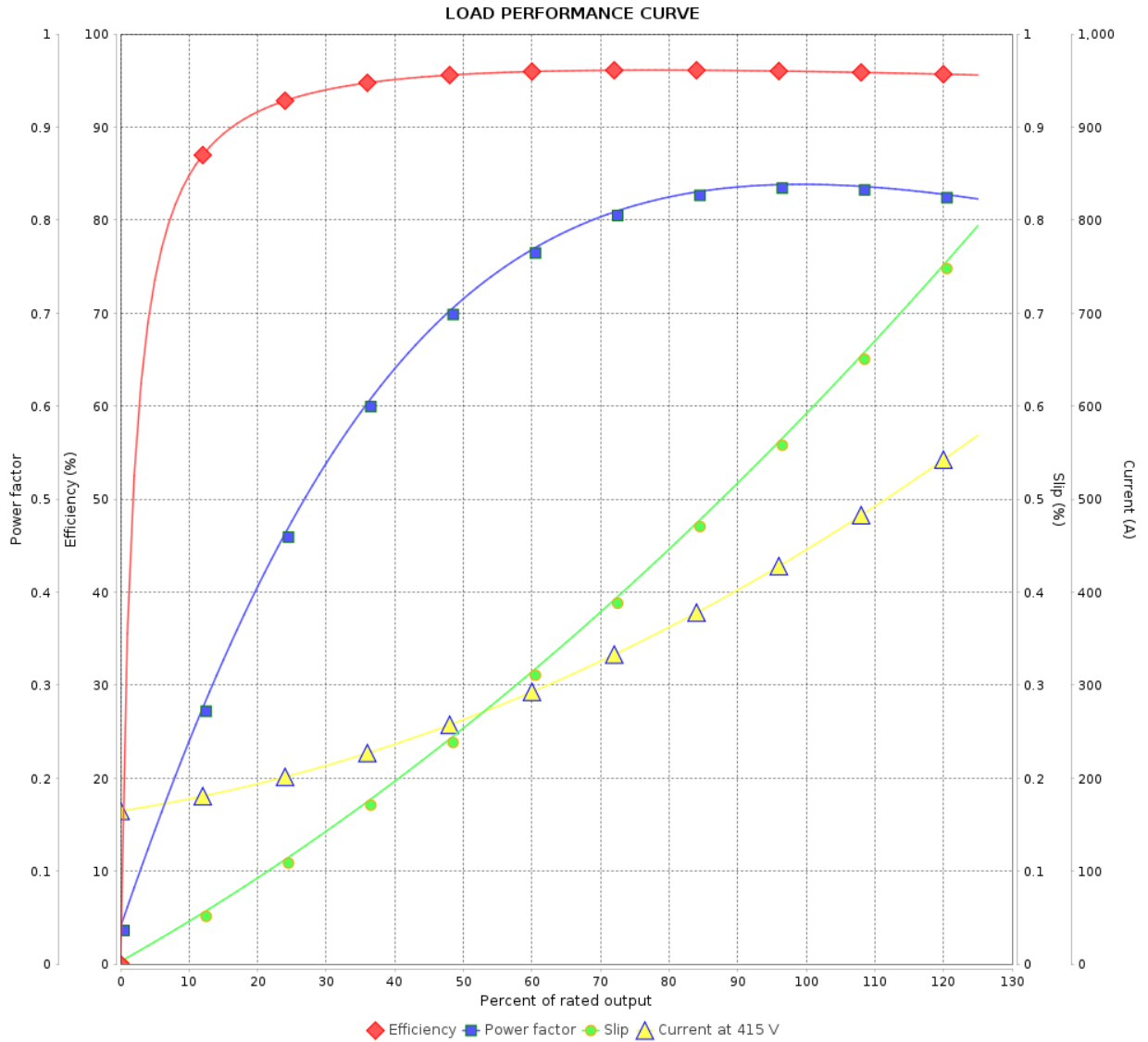
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 15201740



Performance : 415 V 50 Hz 4P IE3

Rated current : 449 A
 LRC : 6.9
 Rated torque : 170 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 250 %
 Rated speed : 1491 rpm

Moment of inertia (J) : 7.55 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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