

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11611269		
Frame	: 254/6T	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	: 138 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.1867 kgm ²		
Design	: B				
Output [HP]	10	10	10	10	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	26.6/13.3	15.4	14.8	14.4	
L. R. Amperes [A]	173/86.5	78.5	84.4	87.8	
LRC [A]	6.5x(Code H)	5.1x(Code F)	5.7x(Code G)	6.1x(Code H)	
No load current [A]	12.0/6.00	6.40	6.80	7.20	
Rated speed [RPM]	1175	965	970	975	
Slip [%]	2.08	3.50	3.00	2.50	
Rated torque [kgfm]	6.18	7.52	7.48	7.44	
Locked rotor torque [%]	229	170	200	220	
Breakdown torque [%]	280	220	240	260	
Service factor	1.25	1.00	1.15	1.15	
Temperature rise	80 K	105 K	105 K	80 K	
Locked rotor time	46s (cold) 26s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	
Noise level ²	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)	57.0 dB(A)	
Efficiency (%)	25%				
	50%	90.2	90.2	89.5	
	75%	91.0	89.5	90.2	
	100%	91.0	89.1	89.5	
Power Factor	25%				
	50%	0.63	0.66	0.63	
	75%	0.74	0.79	0.77	
	100%	0.78	0.83	0.82	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	9.8	9.8	9.8	9.8
	P2 (0,5;1,0)	8.4	8.4	8.4	8.4
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.0	5.0	5.0	5.0
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.5	2.5	2.5	2.5
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8
Bearing type	: Drive end : 6309 C3	Non drive end : 6209 C3	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction	: 235 kgf	
Lubrication interval	: 20000 h	20000 h	Max. compression	: 373 kgf	
Lubricant amount	: 13 g	9 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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Customer : _____

Notes
USABLE @208V 28.5A SF 1.15 SFA 32.8A

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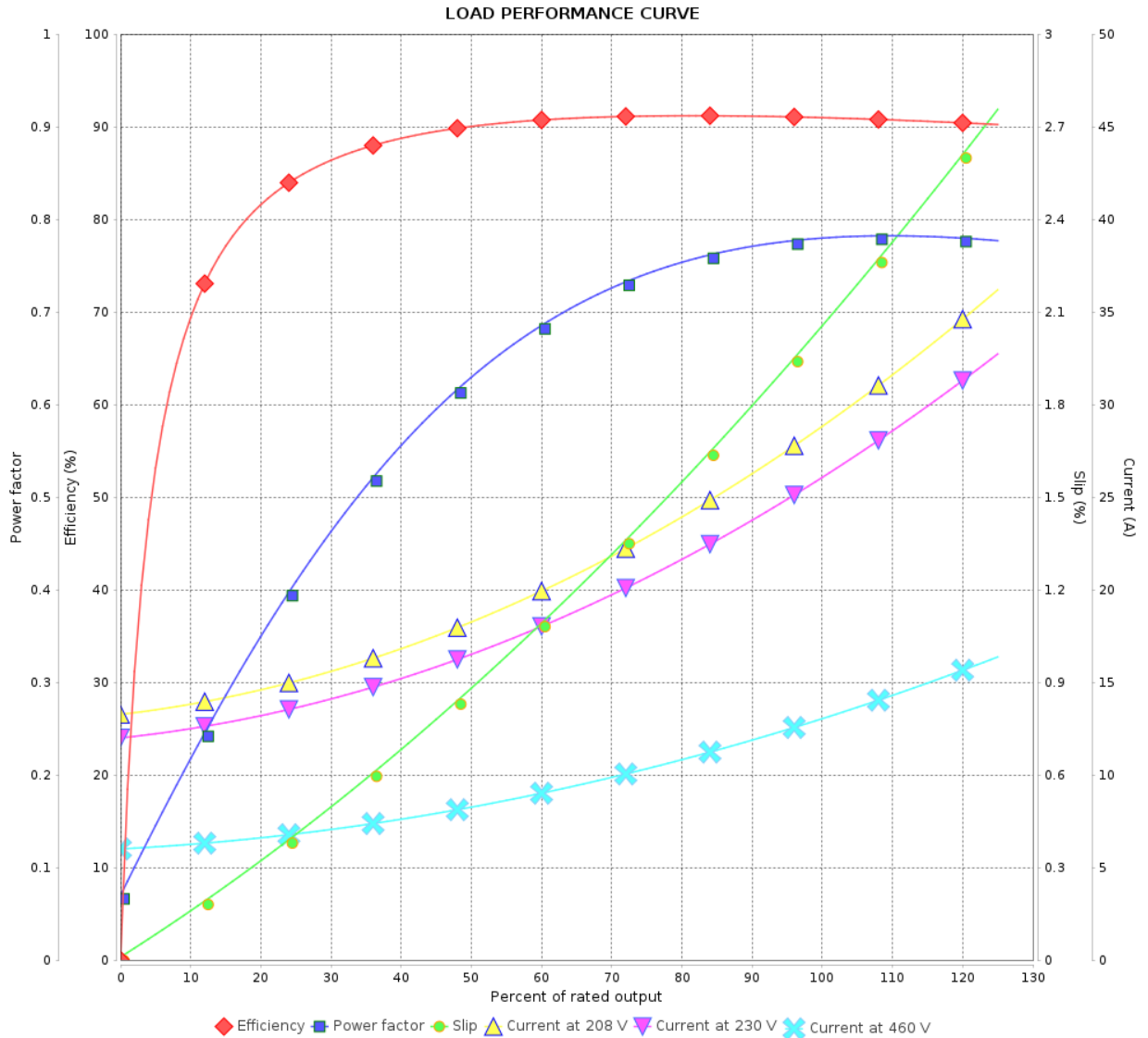
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611269



Performance : 230/460 V 60 Hz 6P

Rated current : 26.6/13.3 A
 LRC : 6.5
 Rated torque : 6.18 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 1175 rpm

Moment of inertia (J) : 0.1867 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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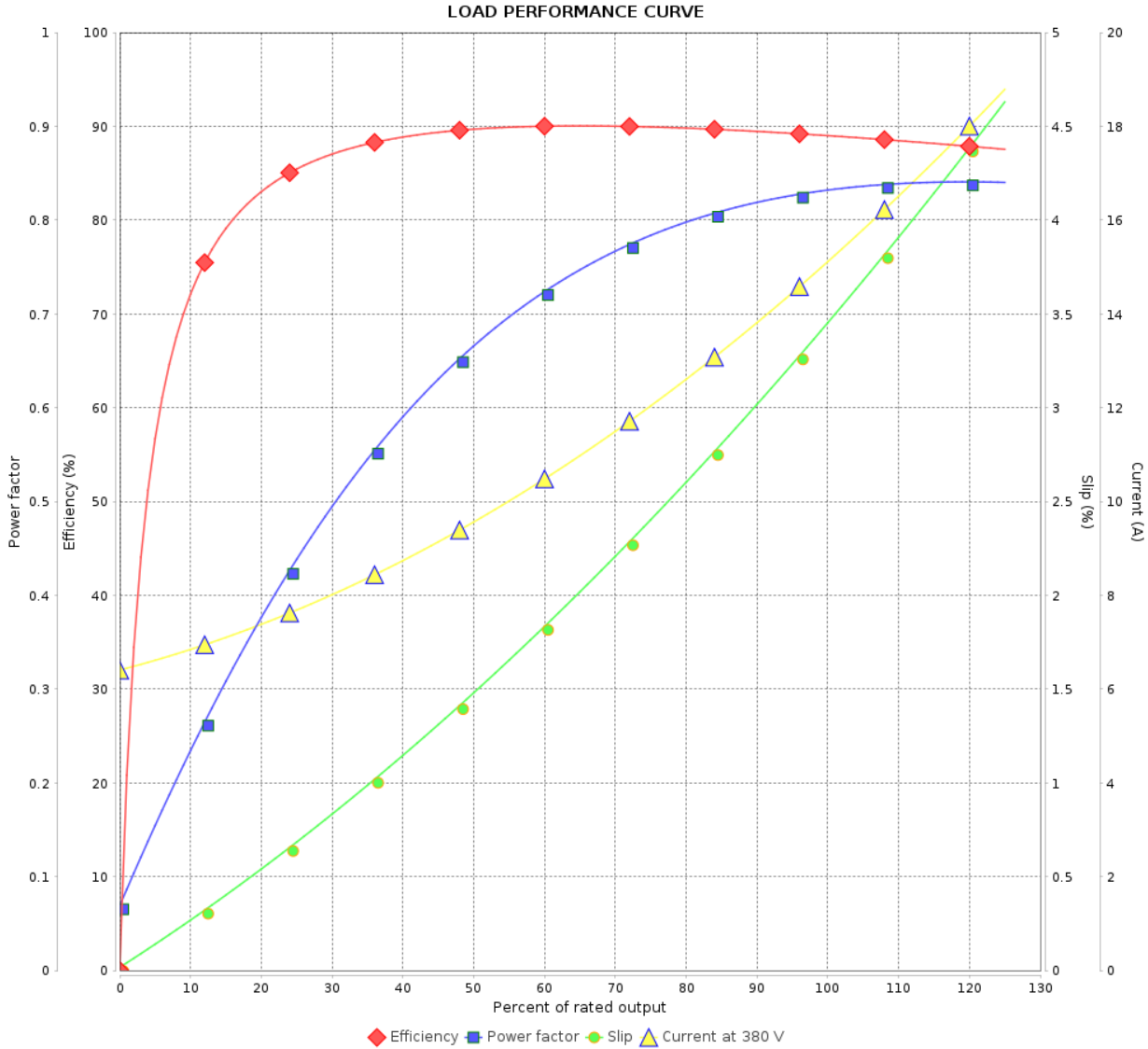
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611269



Performance : 380 V 50 Hz 6P IE3

Rated current : 15.4 A
 LRC : 5.1
 Rated torque : 7.52 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 220 %
 Rated speed : 965 rpm

Moment of inertia (J) : 0.1867 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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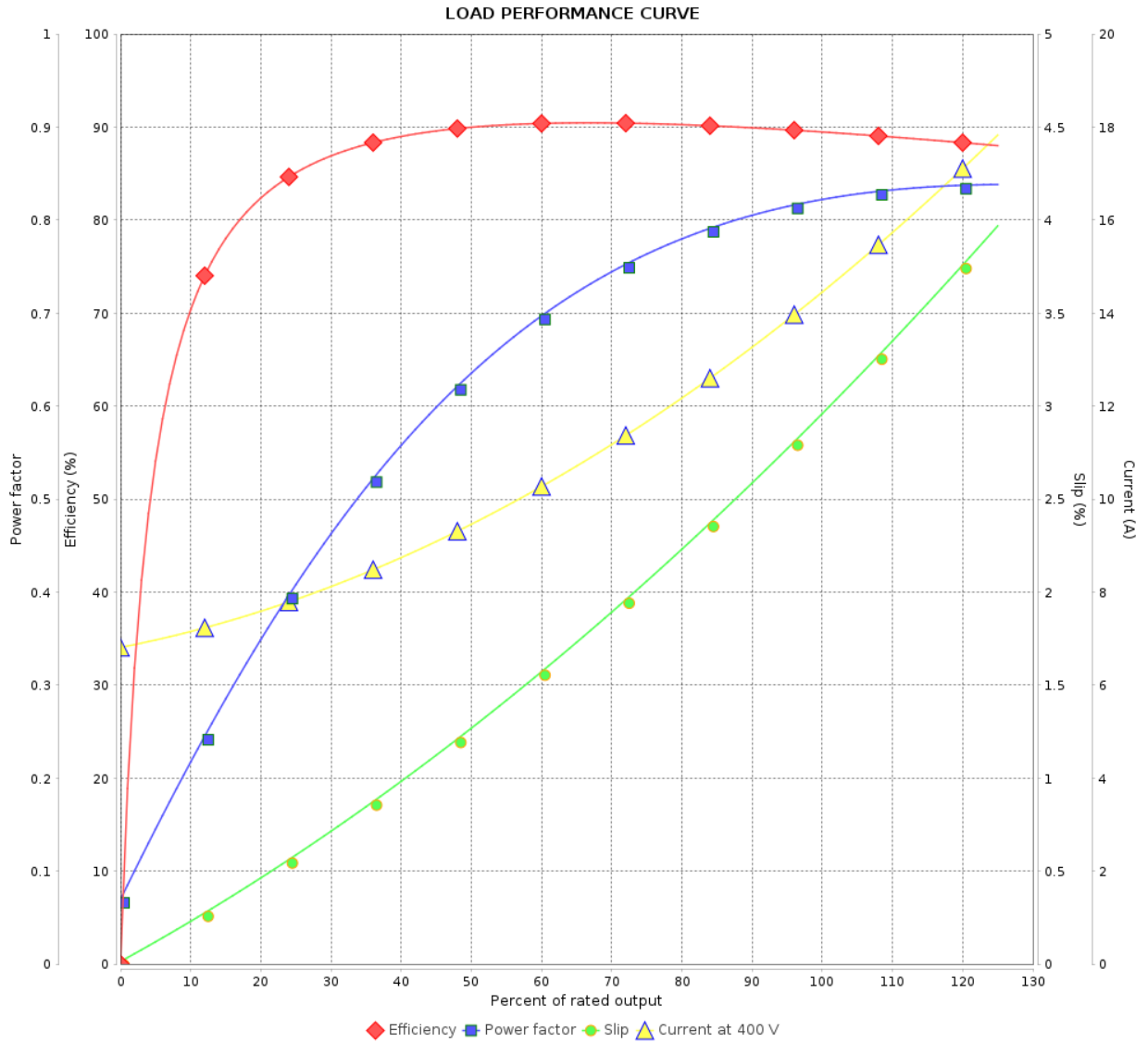
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611269



Performance : 400 V 50 Hz 6P IE3

Rated current : 14.8 A
 LRC : 5.7
 Rated torque : 7.48 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 970 rpm

Moment of inertia (J) : 0.1867 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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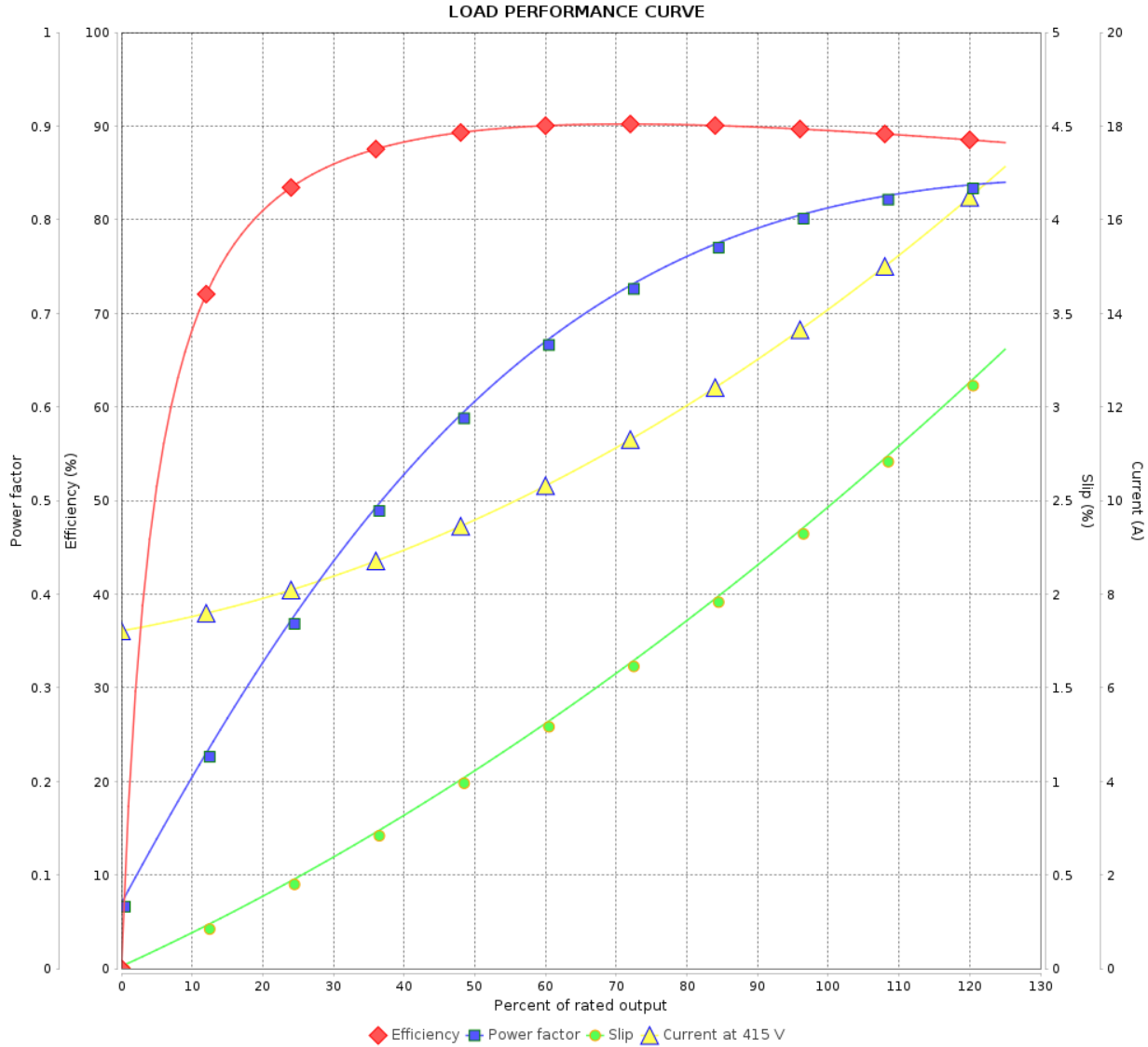
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611269



Performance : 415 V 50 Hz 6P IE3

Rated current : 14.4 A
 LRC : 6.1
 Rated torque : 7.44 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 975 rpm

Moment of inertia (J) : 0.1867 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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