

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11452806		
Frame	: 182/4T	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	: 35.7 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0243 kgm ²		
Design	: B				
Output [HP]	1.5	1.5	1.5	1.5	
Poles	8	8	8	8	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	5.68/2.84	3.10	3.13	3.11	
L. R. Amperes [A]	33.5/16.8	15.5	17.2	18.7	
LRC [A]	5.9x(Code K)	5.0x(Code H)	5.5x(Code J)	6.0x(Code K)	
No load current [A]	4.20/2.10	2.00	2.30	2.50	
Rated speed [RPM]	860	700	705	710	
Slip [%]	4.44	6.67	6.00	5.33	
Rated torque [kgfm]	1.27	1.56	1.54	1.53	
Locked rotor torque [%]	229	210	240	260	
Breakdown torque [%]	290	220	240	270	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	
Noise level ²	50.0 dB(A)	46.0 dB(A)	46.0 dB(A)	46.0 dB(A)	
Efficiency (%)	25%				
	50%	76.0	74.0	74.5	73.5
	75%	78.0	76.0	76.0	76.0
	100%	78.5	77.0	76.9	76.9
Power Factor	25%				
	50%	0.43	0.51	0.47	0.44
	75%	0.54	0.62	0.58	0.55
	100%	0.62	0.70	0.66	0.64
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	25.9	28.3	28.4	28.4
	P2 (0,5;1,0)	20.5	22.4	22.5	22.5
	P3 (0,25;1,0)	18.6	20.3	20.4	20.4
	P4 (0,9;0,5)	18.4	20.1	20.2	20.2
	P5 (0,5;0,5)	13.2	14.4	14.4	14.4
	P6 (0,5;0,25)	11.6	12.7	12.8	12.8
	P7 (0,25;0,25)	8.8	9.6	9.7	9.7
Bearing type	: Drive end : 6207 ZZ Non drive end : 6206 ZZ	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 69 kgf		
Lubrication interval	: - -	Max. compression	: 104 kgf		
Lubricant amount	: - -				
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 : _____

Notes
USABLE @208V 5.97A SF 1.15 SFA 6.87A

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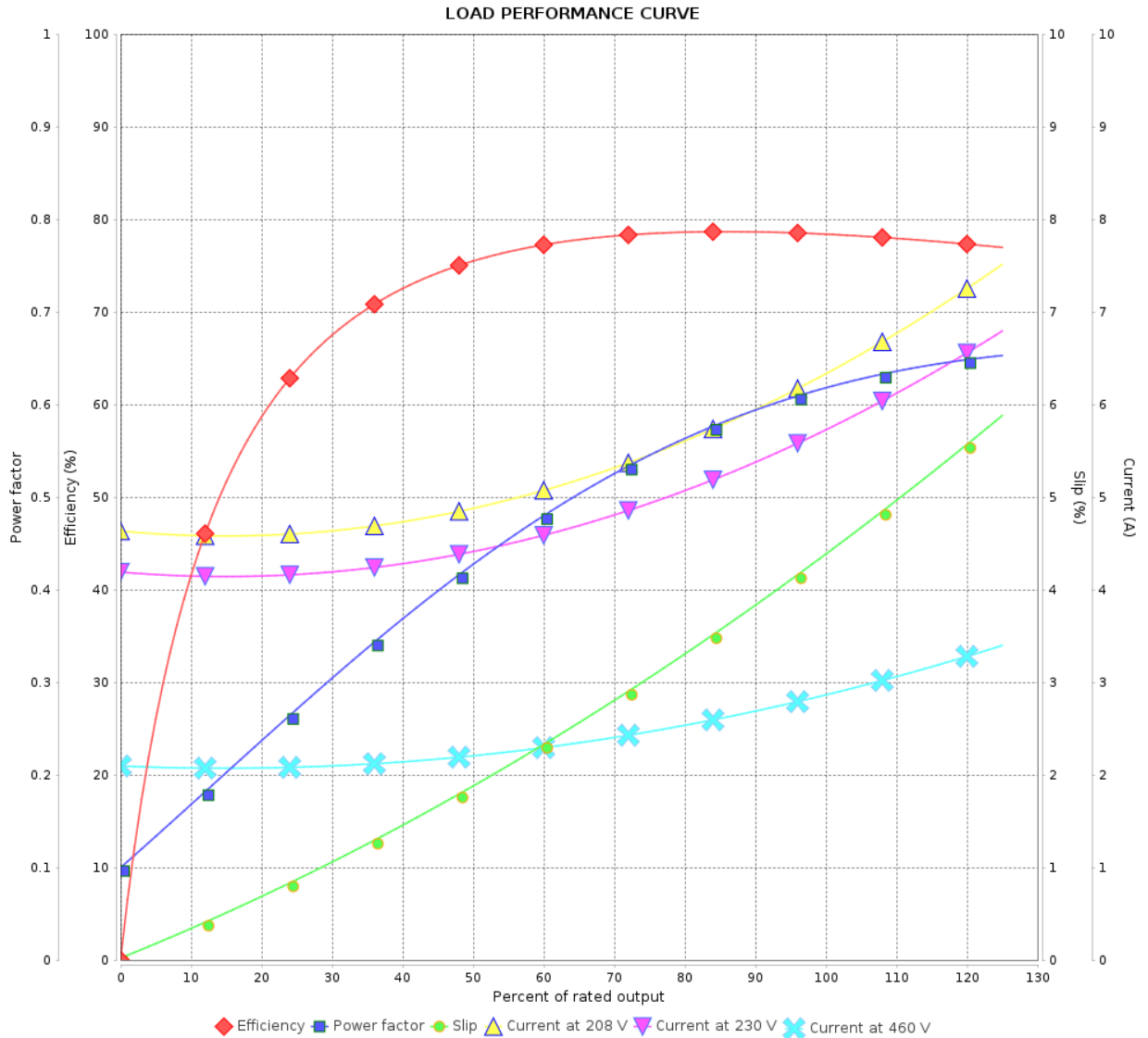
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11452806



Performance : 230/460 V 60 Hz 8P

Rated current : 5.68/2.84 A
 LRC : 5.9
 Rated torque : 1.27 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 860 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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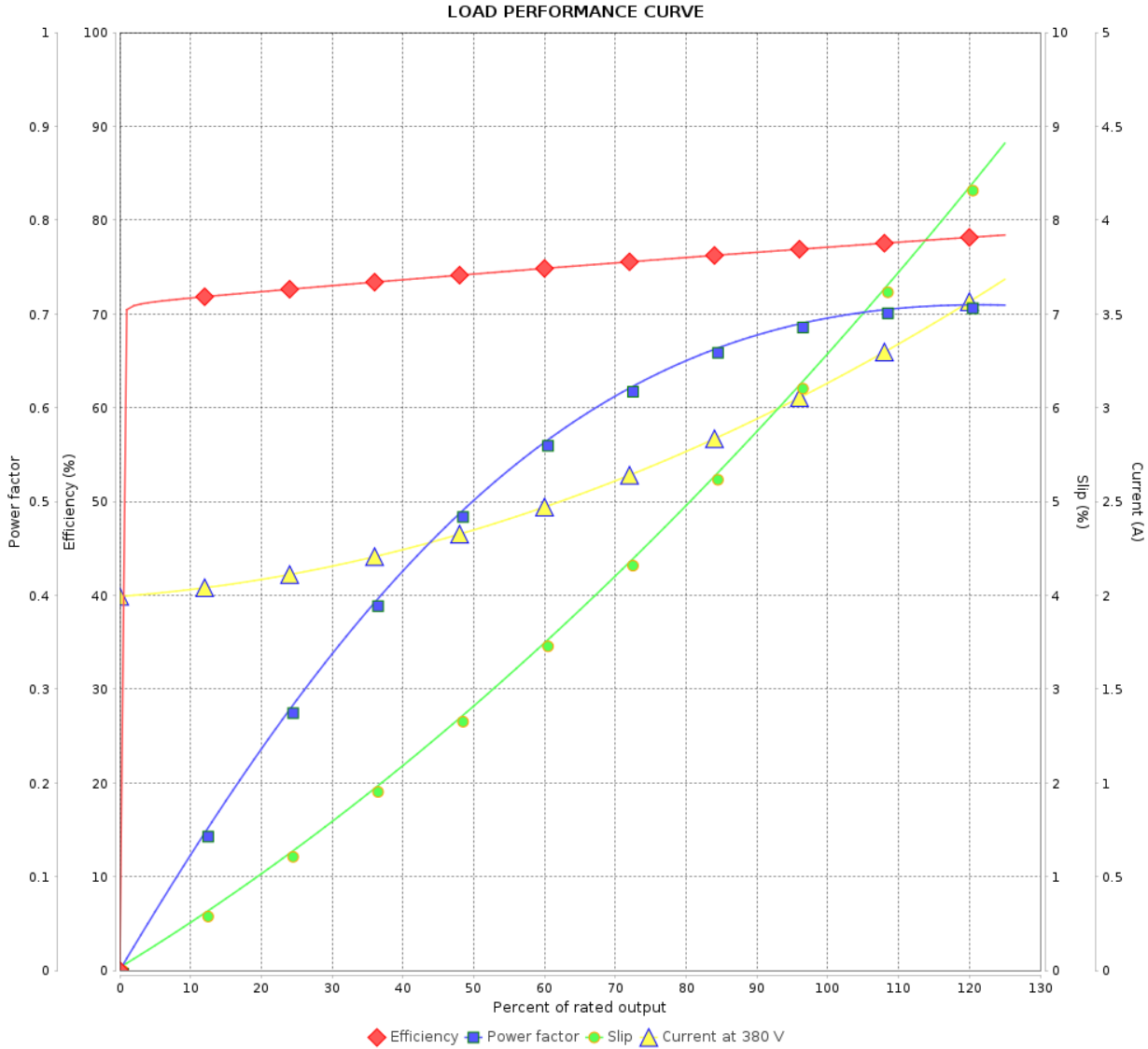
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11452806



Performance : 380 V 50 Hz 8P IE2

Rated current : 3.10 A
 LRC : 5.0
 Rated torque : 1.56 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 700 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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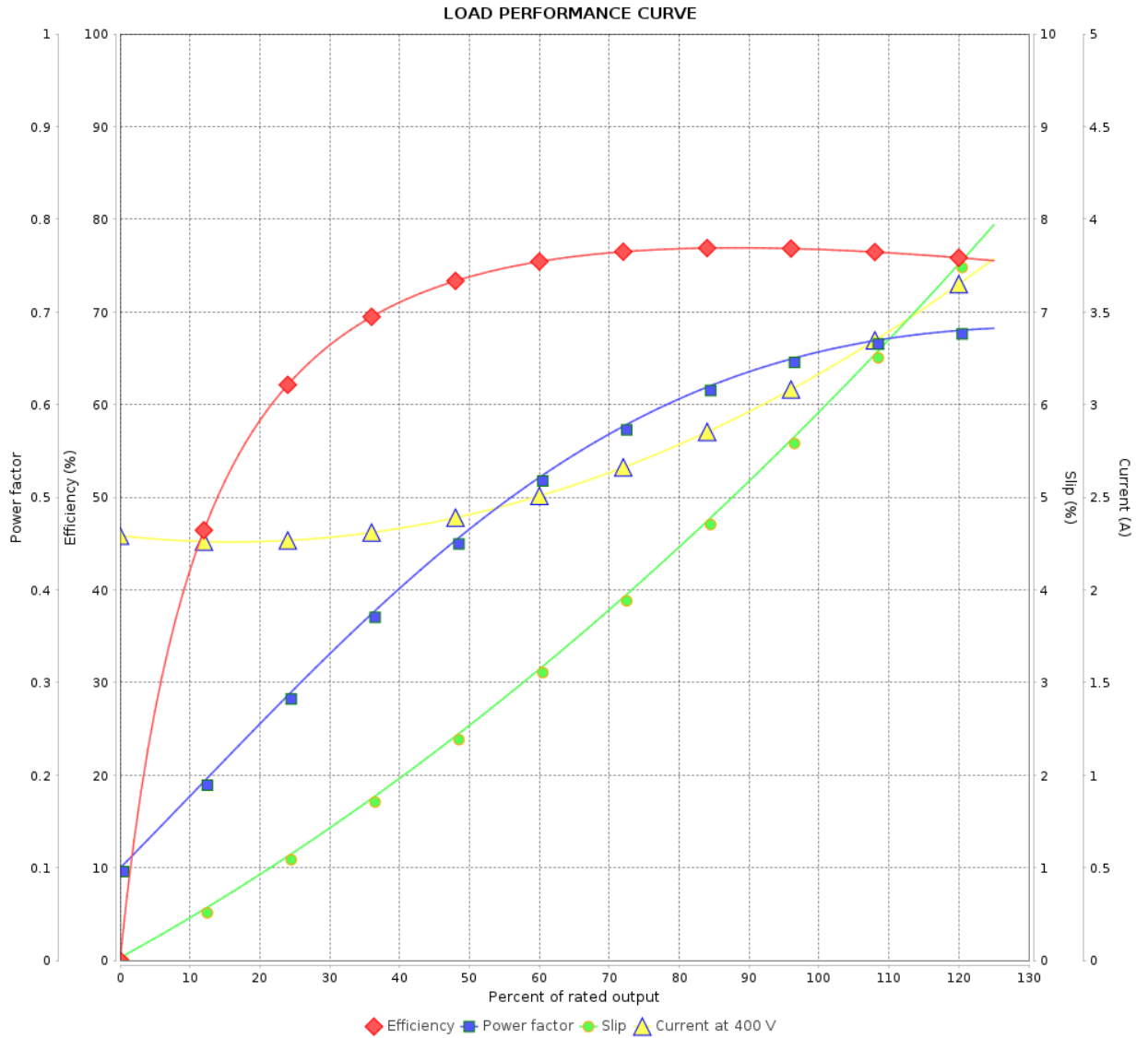
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11452806



Performance : 400 V 50 Hz 8P IE2

Rated current : 3.13 A
 LRC : 5.5
 Rated torque : 1.54 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 240 %
 Rated speed : 705 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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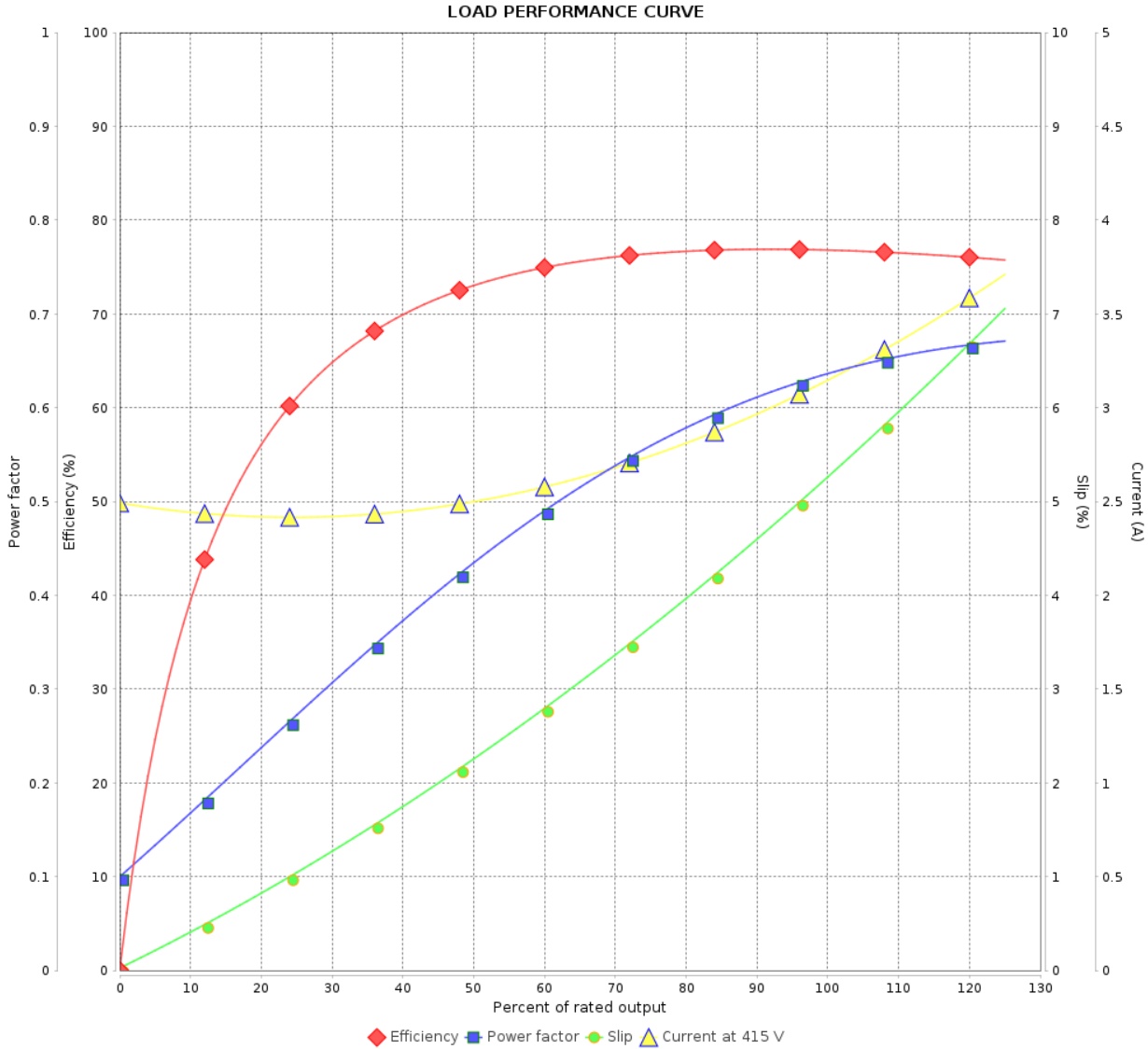
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11452806



Performance : 415 V 50 Hz 8P IE2

Rated current : 3.11 A
 LRC : 6.0
 Rated torque : 1.53 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 270 %
 Rated speed : 710 rpm

Moment of inertia (J) : 0.0243 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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