

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code : 12744465	
Frame : 182/4TC			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 : 44.2 kg		
Protection degree : IP55			Moment of inertia (J) : 0.0206 kgm ²		
Design : B					
Output [HP]	1.5	1.5	1.5	1.5	1.5
Poles	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50
Rated voltage [V]	230/460	380	400	415	415
Rated current [A]	5.08/2.54	2.68	2.62	2.64	2.64
L. R. Amperes [A]	39.6/19.8	16.9	18.1	19.5	19.5
LRC [A]	7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)	7.4x(Code L)
No load current [A]	3.25/1.63	1.60	1.71	1.80	1.80
Rated speed [RPM]	1170	955	960	965	965
Slip [%]	2.50	4.50	4.00	3.50	3.50
Rated torque [kgfm]	0.930	1.14	1.13	1.13	1.13
Locked rotor torque [%]	320	250	300	330	330
Breakdown torque [%]	400	290	330	370	370
Service factor	1.25	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%				
	50%	84.0	85.5	84.5	84.0
	75%	86.5	86.5	86.5	85.5
	100%	87.5	85.5	86.5	86.5
Power Factor	25%				
	50%	0.45	0.52	0.48	0.45
	75%	0.54	0.63	0.60	0.57
	100%	0.62	0.73	0.70	0.67
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	13.4	13.4	13.4	13.4
	P2 (0,5;1,0)	10.3	10.3	10.3	10.3
	P3 (0,25;1,0)	9.3	9.3	9.3	9.3
	P4 (0,9;0,5)	8.8	8.8	8.8	8.8
	P5 (0,5;0,5)	5.8	5.8	5.8	5.8
	P6 (0,5;0,25)	4.8	4.8	4.8	4.8
	P7 (0,25;0,25)	3.5	3.5	3.5	3.5
Bearing type		Drive end : 6207 ZZ	Non drive end : 6206 ZZ	Foundation loads	
Sealing		: V'Ring	: V'Ring	Max. traction : 65 kgf	
Lubrication interval		: -	: -	Max. compression : 109 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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Notes
USABLE @208V 5.62A SF 1.15 SFA 6.46A

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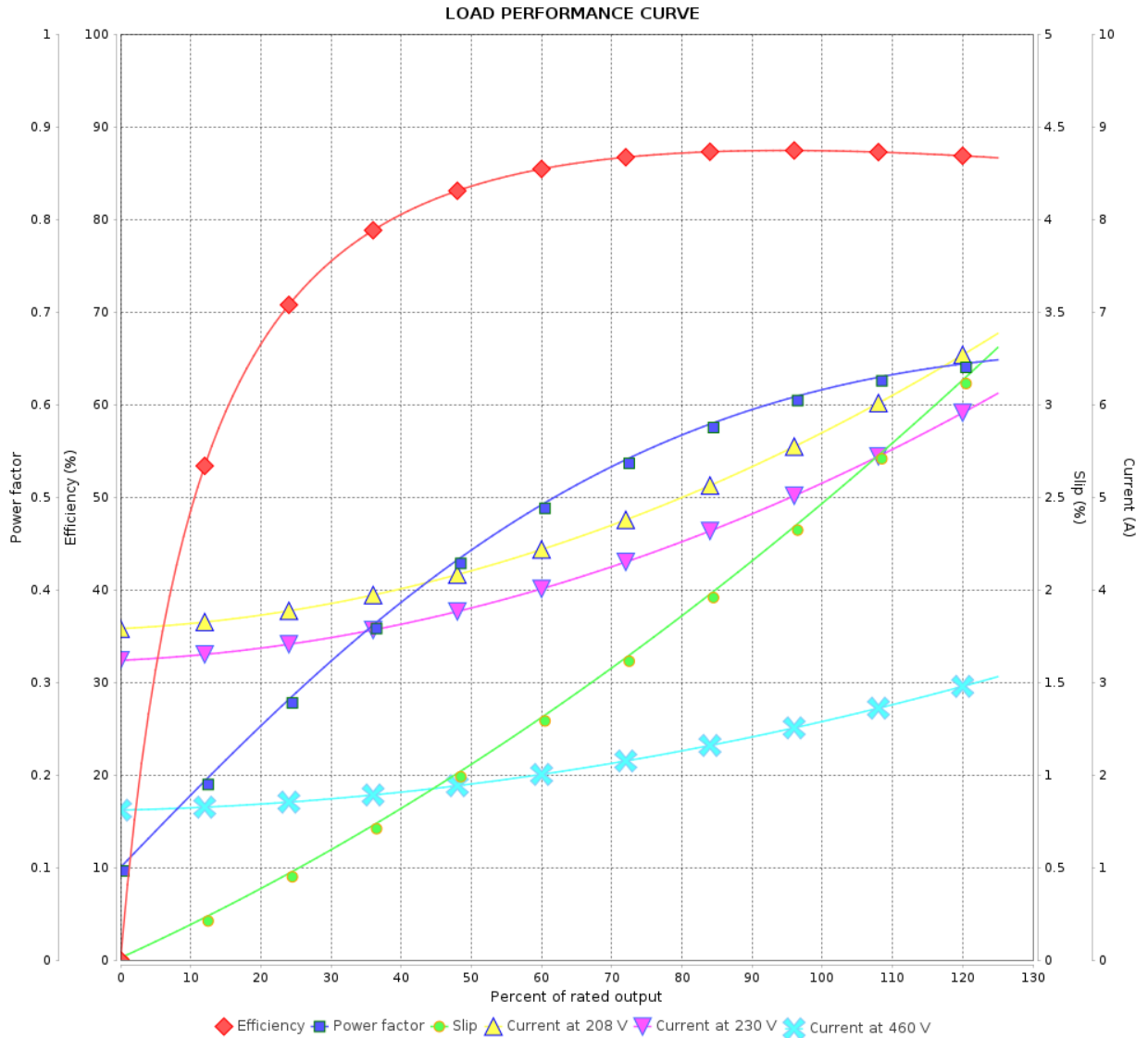
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12744465



Performance : 230/460 V 60 Hz 6P

Rated current : 5.08/2.54 A
 LRC : 7.8
 Rated torque : 0.930 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 400 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0206 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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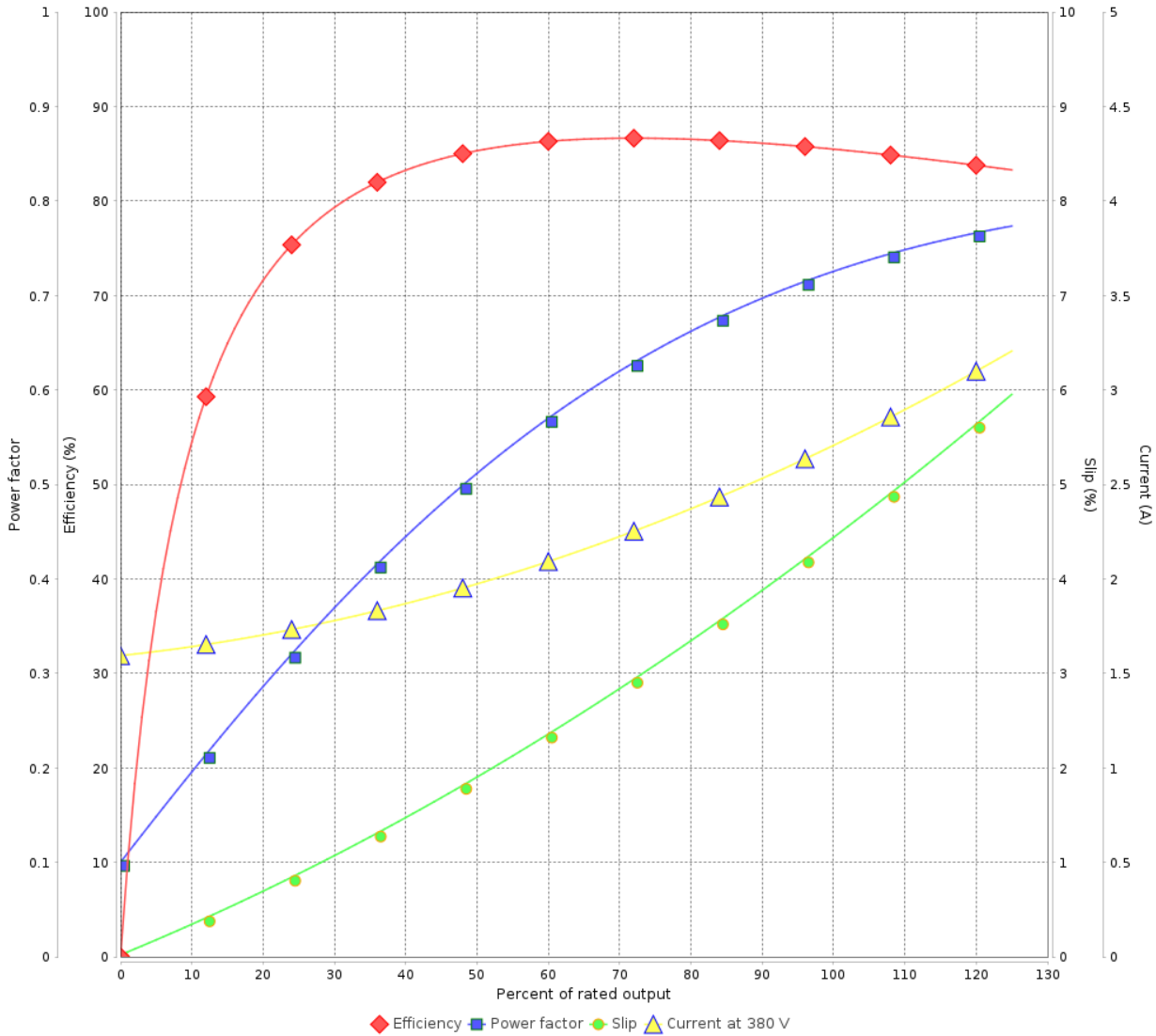
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12744465

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Performance : 380 V 50 Hz 6P IE4

Rated current	: 2.68 A	Moment of inertia (J)	: 0.0206 kgm ²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 1.14 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: B

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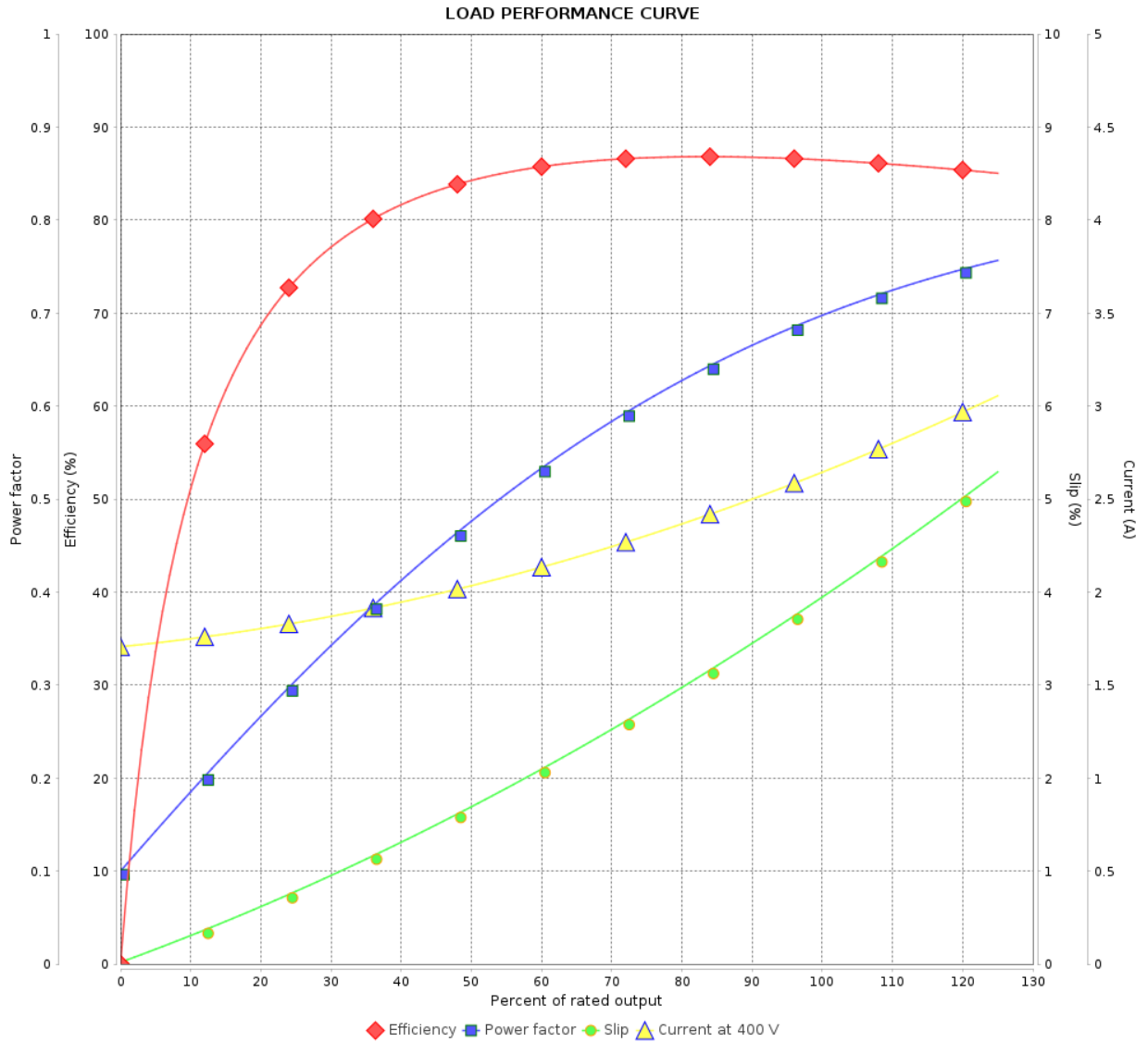
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12744465



Performance : 400 V 50 Hz 6P IE4

Rated current : 2.62 A
 LRC : 6.9
 Rated torque : 1.13 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 330 %
 Rated speed : 960 rpm

Moment of inertia (J) : 0.0206 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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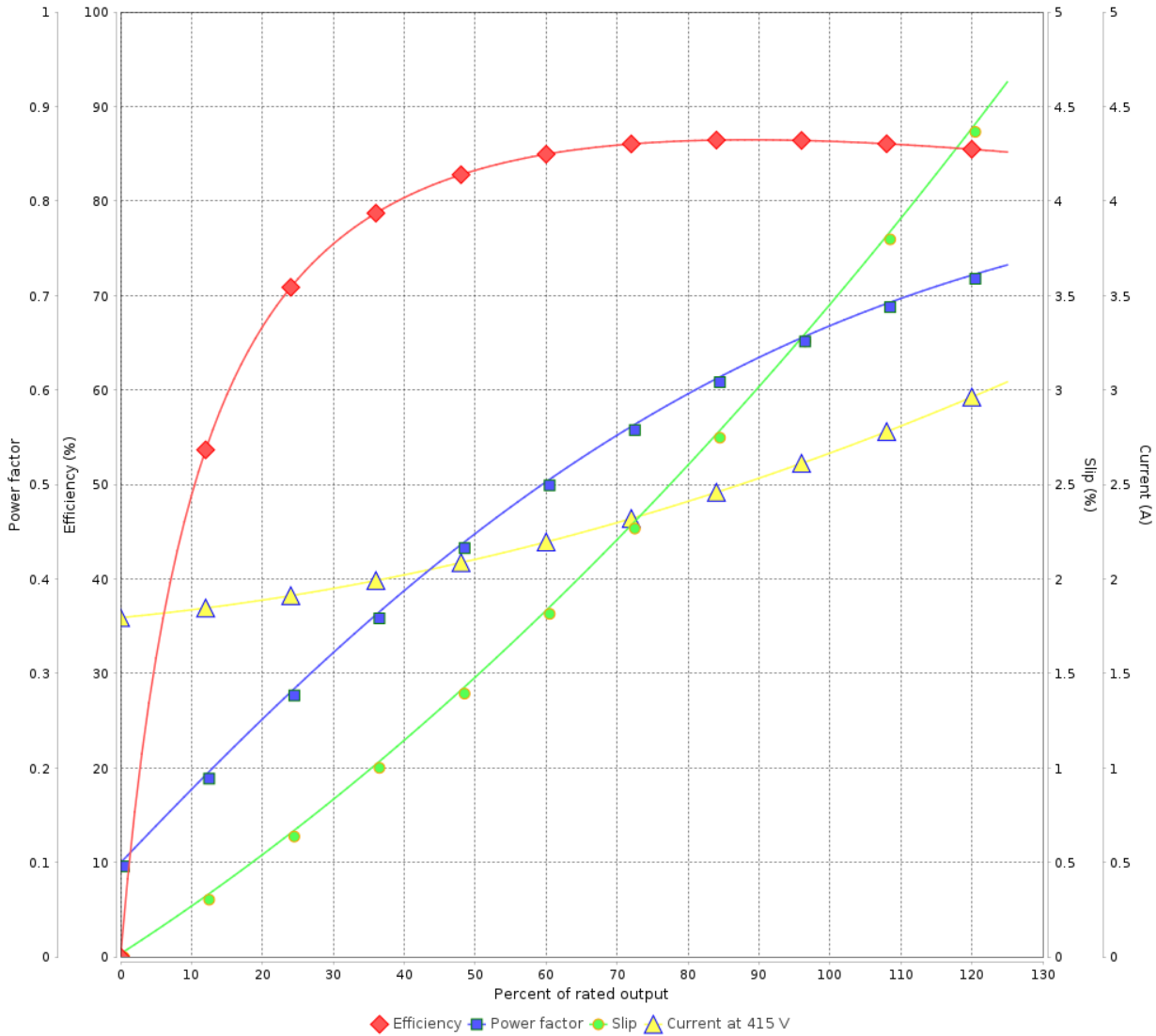
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12744465

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Performance : 415 V 50 Hz 6P IE4

Rated current	: 2.64 A	Moment of inertia (J)	: 0.0206 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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