

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12710800

Frame : 143/5TC	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>3</sup> : 21.4 kg
Protection degree : IP55	Moment of inertia (J) : 0.0049 kgm <sup>2</sup>
Design : B	

Output [HP]	1	1	1	1
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	3.02/1.51	1.75	1.70	1.70
L. R. Amperes [A]	26.0/13.0	11.4	11.9	12.8
LRC [A]	8.6x(Code M)	6.5x(Code J)	7.0x(Code K)	7.5x(Code L)
No load current [A]	2.00/1.00	1.00	1.10	1.00
Rated speed [RPM]	1760	1450	1455	1460
Slip [%]	2.22	3.33	3.00	2.67
Rated torque [kgfm]	0.412	0.501	0.499	0.497
Locked rotor torque [%]	280	220	240	260
Breakdown torque [%]	370	250	290	310
Service factor	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level <sup>2</sup>	51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	80.0	80.0	80.0
	75%	84.0	82.5	82.5
	100%	85.5	82.5	84.0
Power Factor	25%			
	50%	0.52	0.59	0.55
	75%	0.65	0.71	0.68
	100%	0.73	0.79	0.76

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	18.7	20.4	18.3	17.6
	P2 (0,5;1,0)	15.7	17.2	15.4	14.8
	P3 (0,25;1,0)	17.0	18.5	16.6	16.0
	P4 (0,9;0,5)	12.0	13.1	11.7	11.3
	P5 (0,5;0,5)	8.8	9.6	8.6	8.3
	P6 (0,5;0,25)	7.6	8.3	7.4	7.1
	P7 (0,25;0,25)	5.7	6.2	5.6	5.4

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6205 ZZ	6204 ZZ	Max. traction : 33 kgf
Sealing :	V'Ring	V'Ring	Max. compression : 54 kgf
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	00088		

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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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Notes  
USABLE @208V 3.07A SF 1.15 SFA 3.54A

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# LOAD PERFORMANCE CURVE

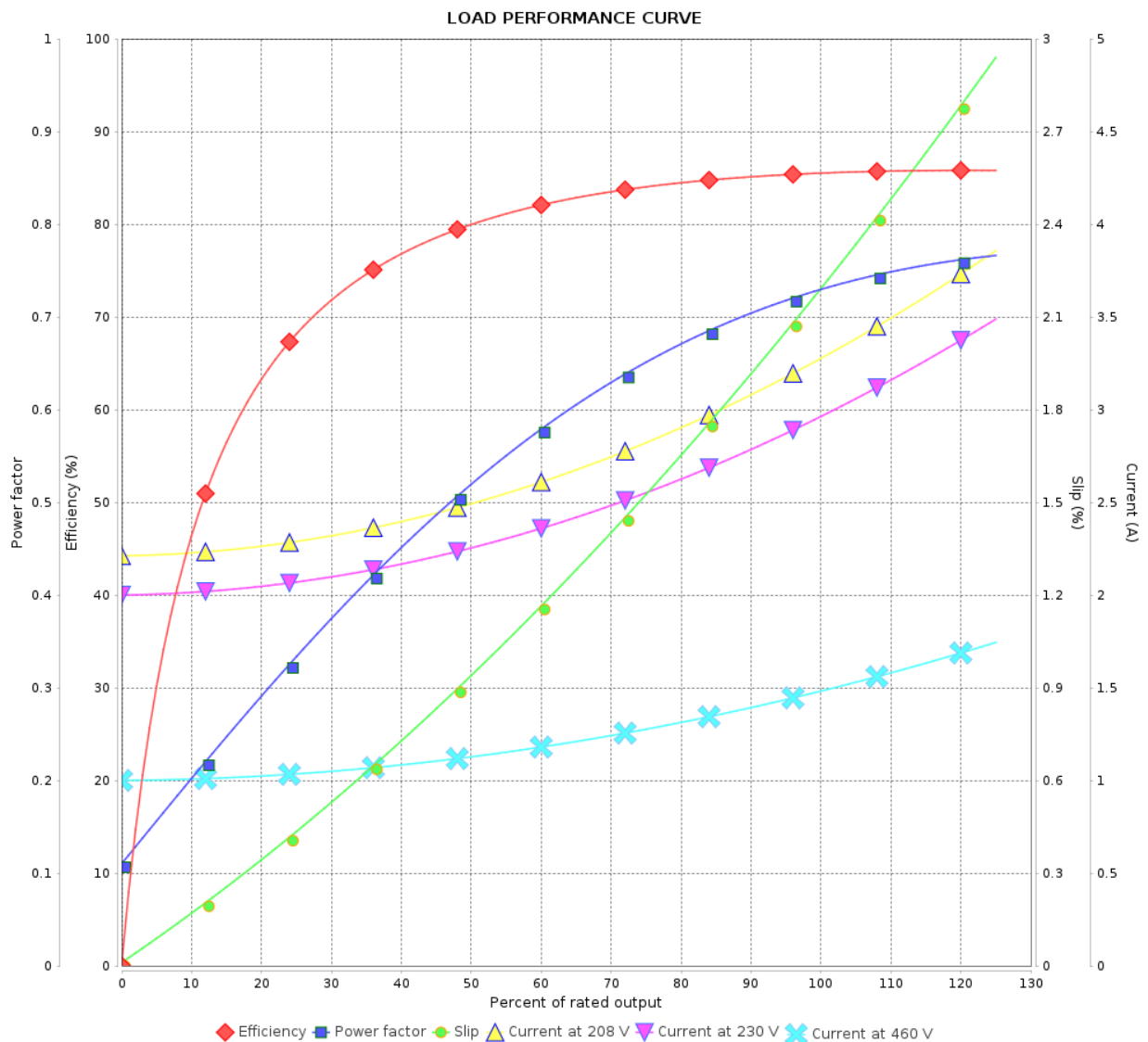
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12710800



Performance : 230/460 V 60 Hz 4P

Rated current : 3.02/1.51 A  
LRC : 8.6  
Rated torque : 0.412 kgfm  
Locked rotor torque : 280 %  
Breakdown torque : 370 %  
Rated speed : 1760 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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# LOAD PERFORMANCE CURVE

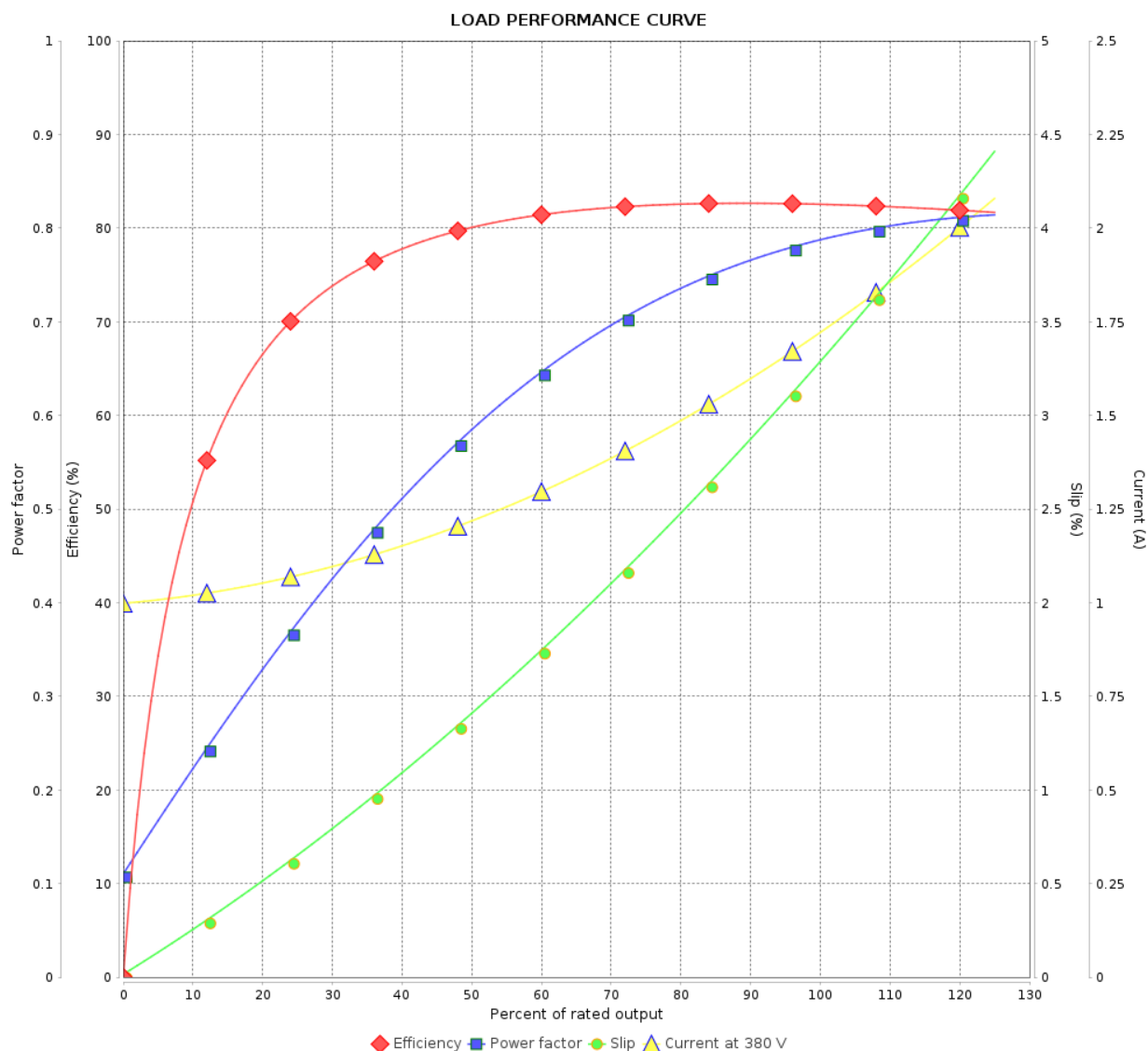
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12710800



Performance : 380 V 50 Hz 4P IE3

Rated current : 1.75 A  
LRC : 6.5  
Rated torque : 0.501 kgfm  
Locked rotor torque : 220 %  
Breakdown torque : 250 %  
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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# LOAD PERFORMANCE CURVE

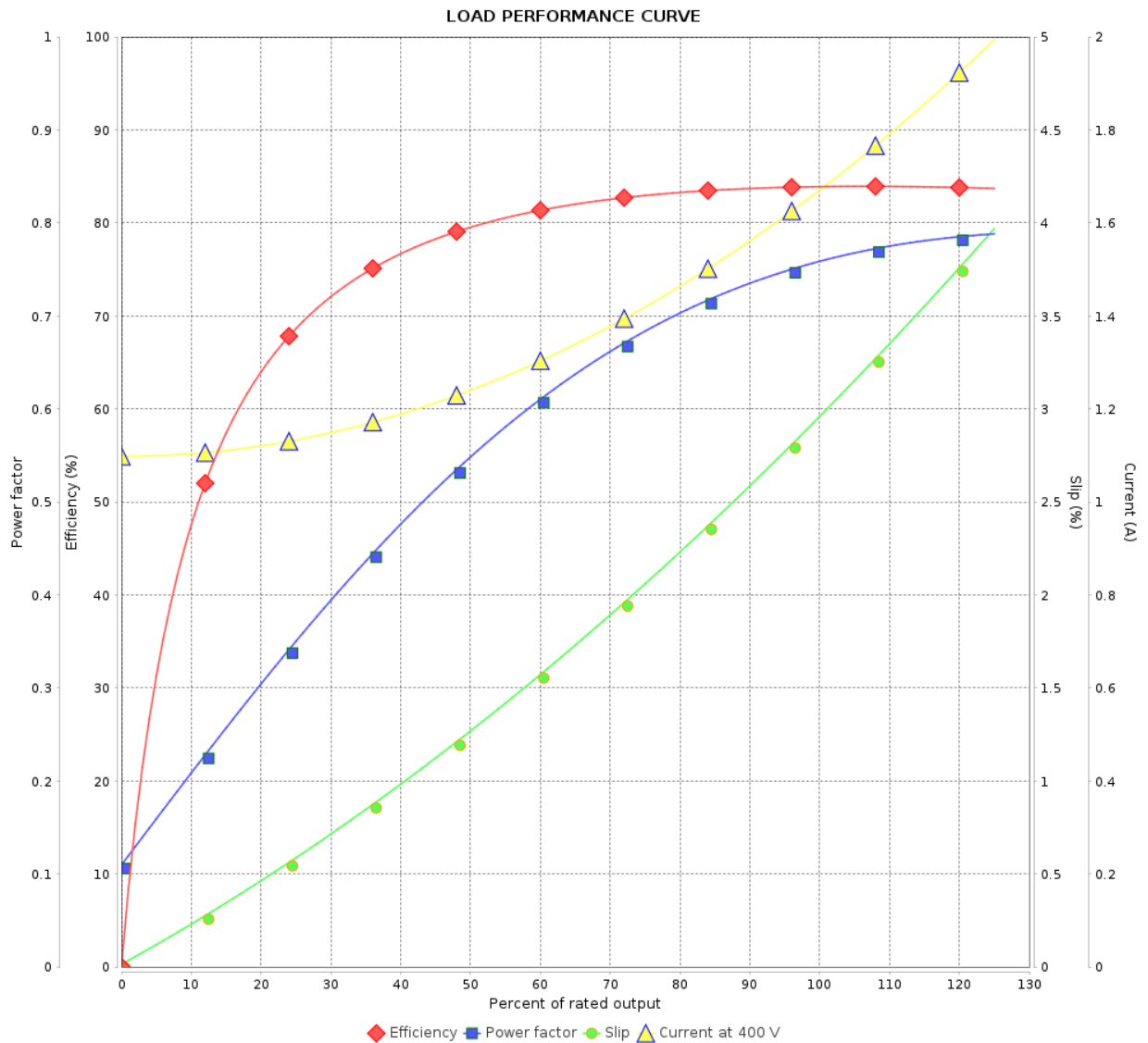
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12710800



Performance : 400 V 50 Hz 4P IE3

Rated current	: 1.70 A	Moment of inertia (J)	: 0.0049 kgm <sup>2</sup>
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.499 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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# LOAD PERFORMANCE CURVE

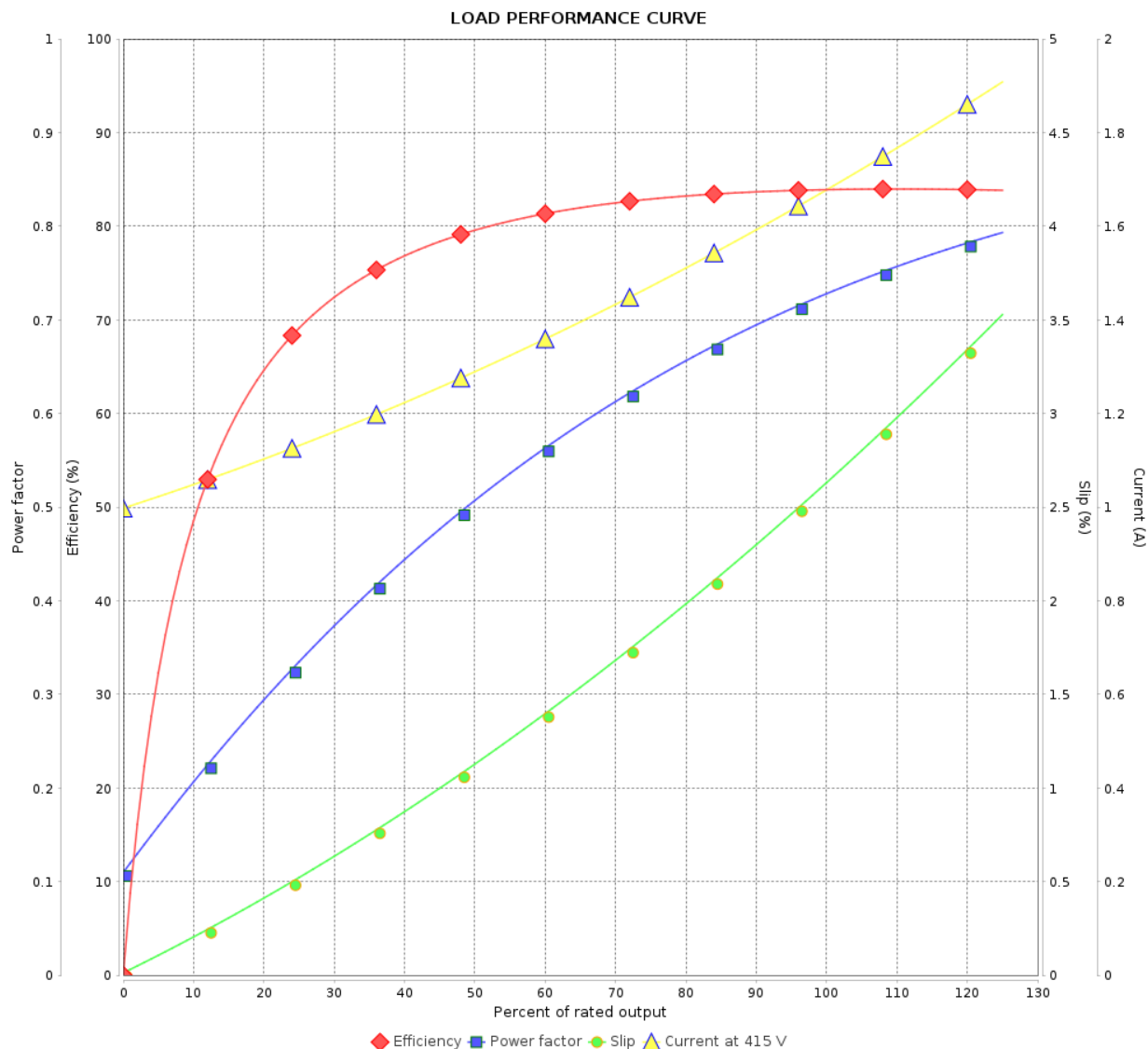
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 12710800



Performance : 415 V 50 Hz 4P IE3

Rated current : 1.70 A  
LRC : 7.5  
Rated torque : 0.497 kgfm  
Locked rotor torque : 260 %  
Breakdown torque : 310 %  
Rated speed : 1460 rpm

Moment of inertia (J) : 0.0049 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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