

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 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 : 22.0 kg
Protection degree : IP55	Moment of inertia (J) : 0.0049 kgm ²
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 ²	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 : 55 kgf
Lubrication interval :	-	-	
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 3.07A SF 1.15 SFA 3.54A

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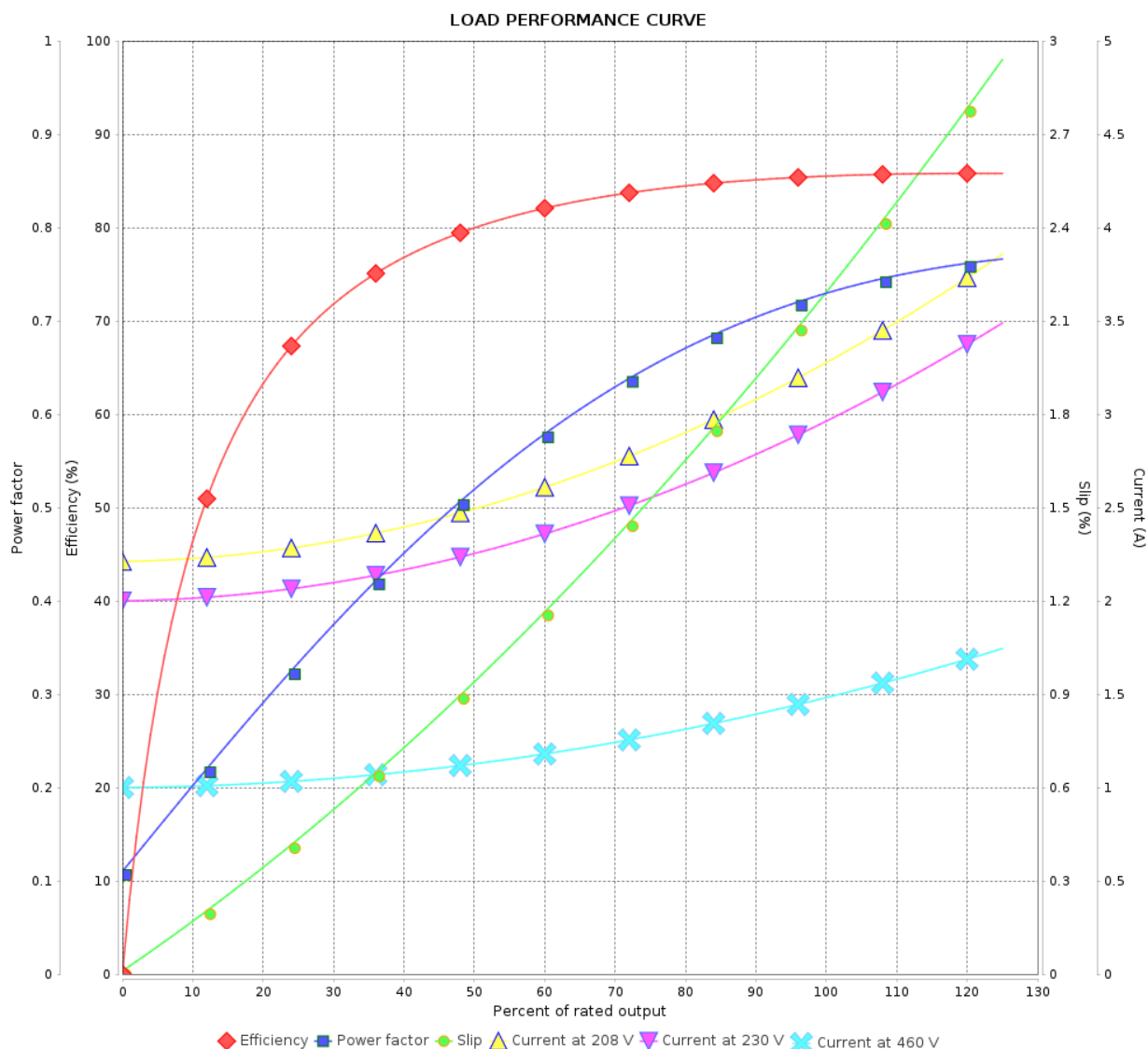
Three Phase Induction Motor - Squirrel Cage



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

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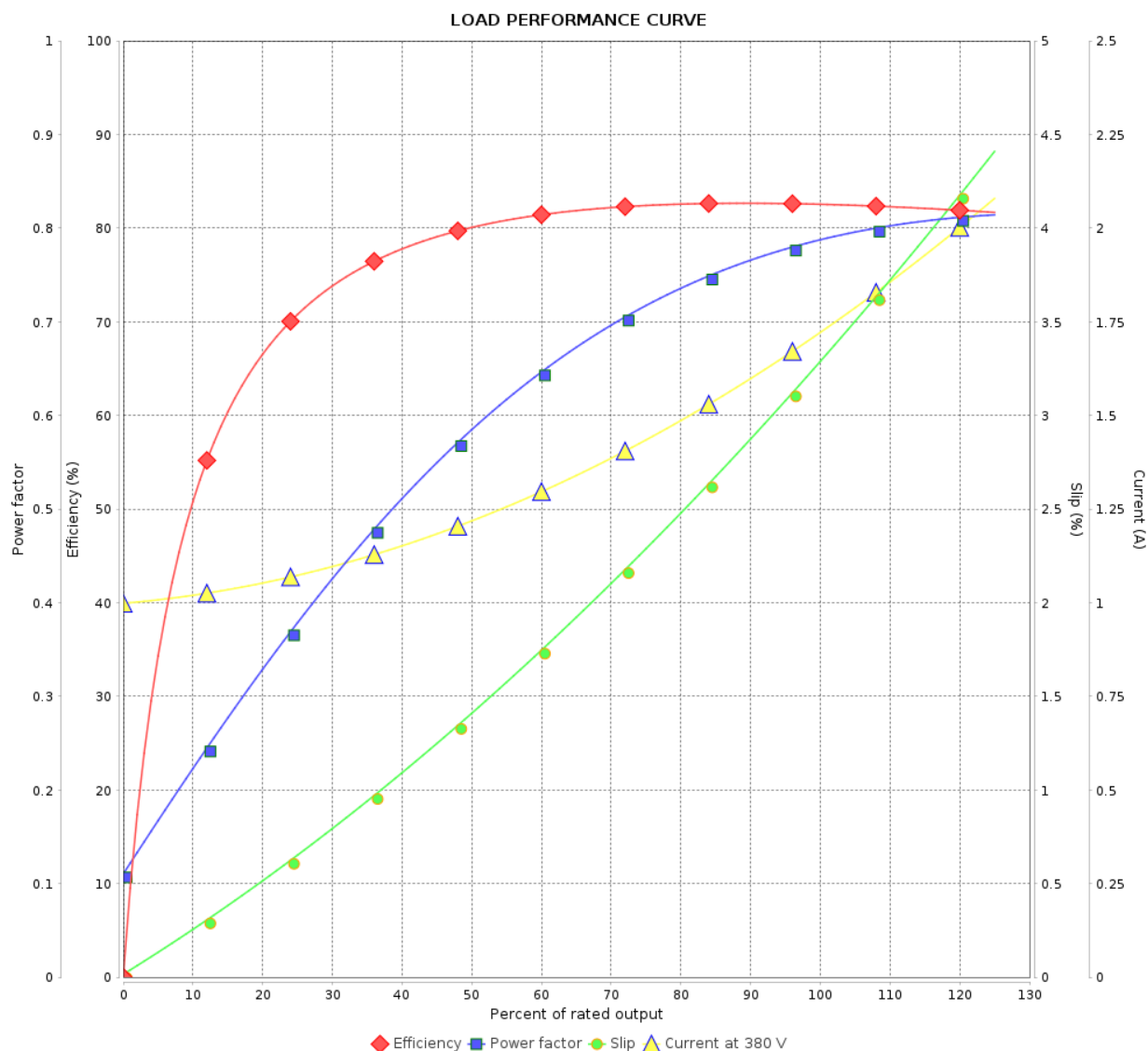
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 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 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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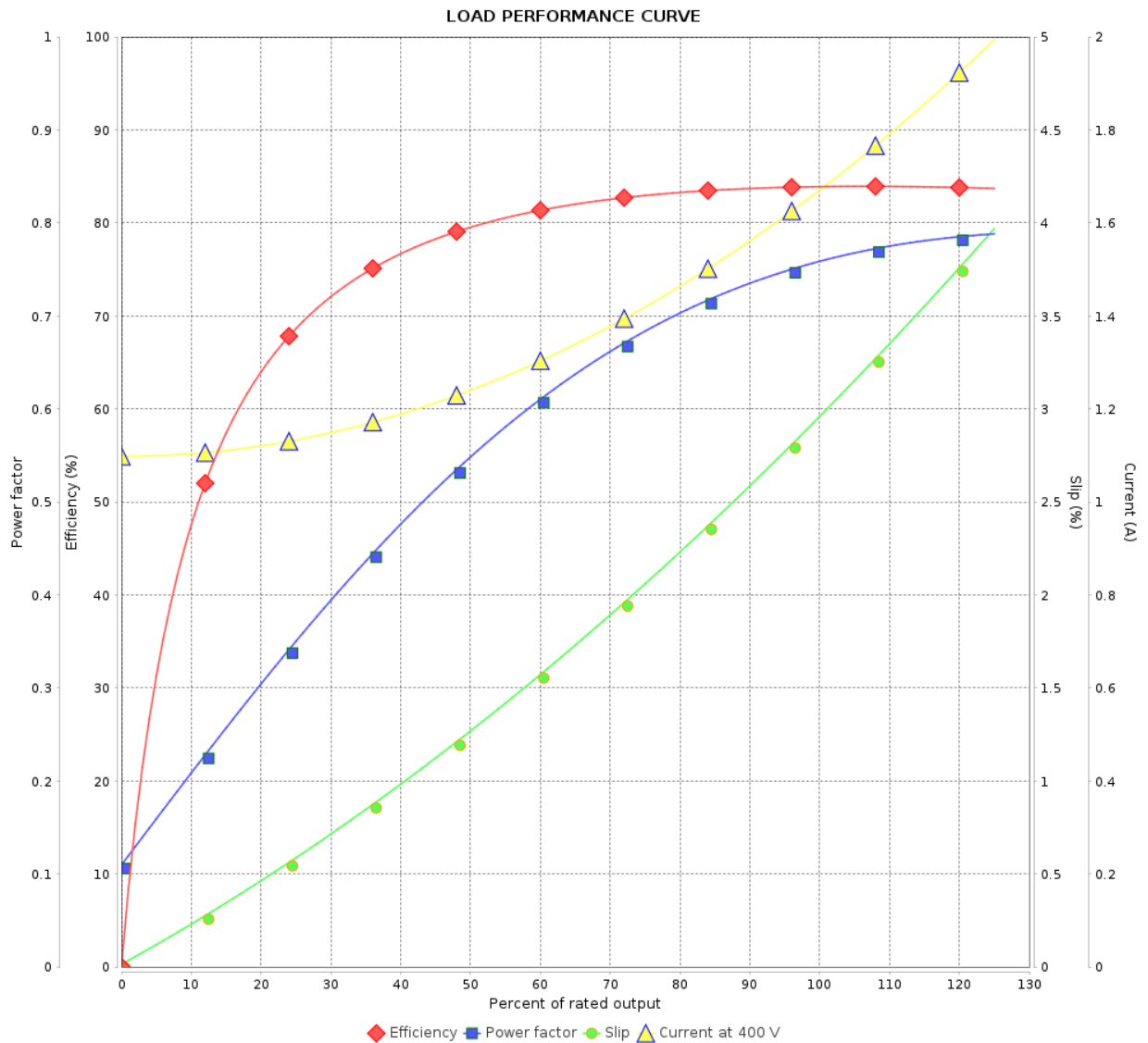
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12710800



Performance : 400 V 50 Hz 4P IE3

Rated current	: 1.70 A	Moment of inertia (J)	: 0.0049 kgm ²
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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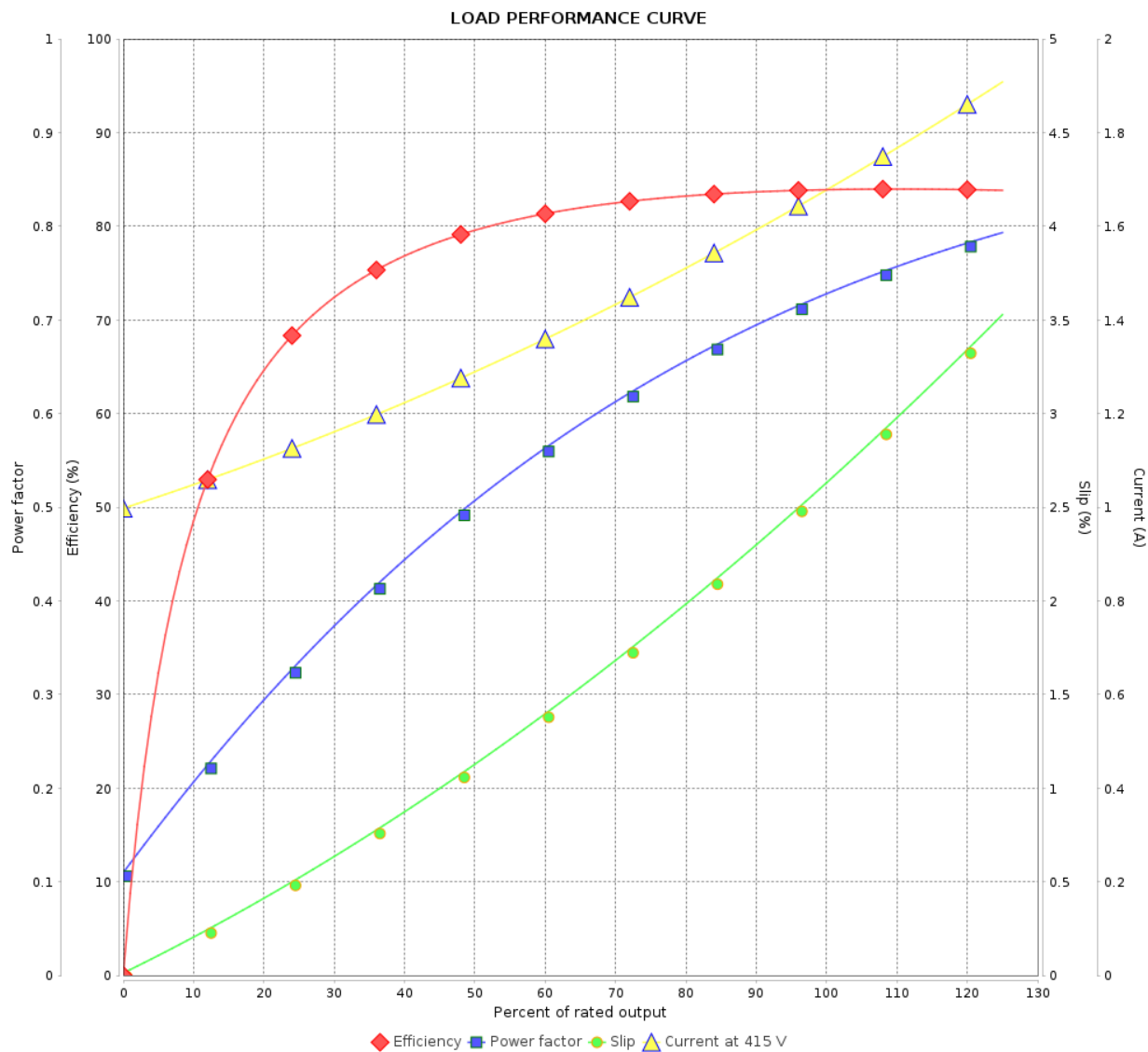
Three Phase Induction Motor - Squirrel Cage



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

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