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]	: 18.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0049 kgm²
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	0	0	0
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	80.0
	75%	84.0	82.5	82.5	82.5
	100%	85.5	82.5	84.0	84.0
Power Factor	25%				
	50%	0.52	0.59	0.55	0.51
	75%	0.65	0.71	0.68	0.63
	100%	0.73	0.79	0.76	0.73

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

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 33 kgf

Max. compression : 54 kgf

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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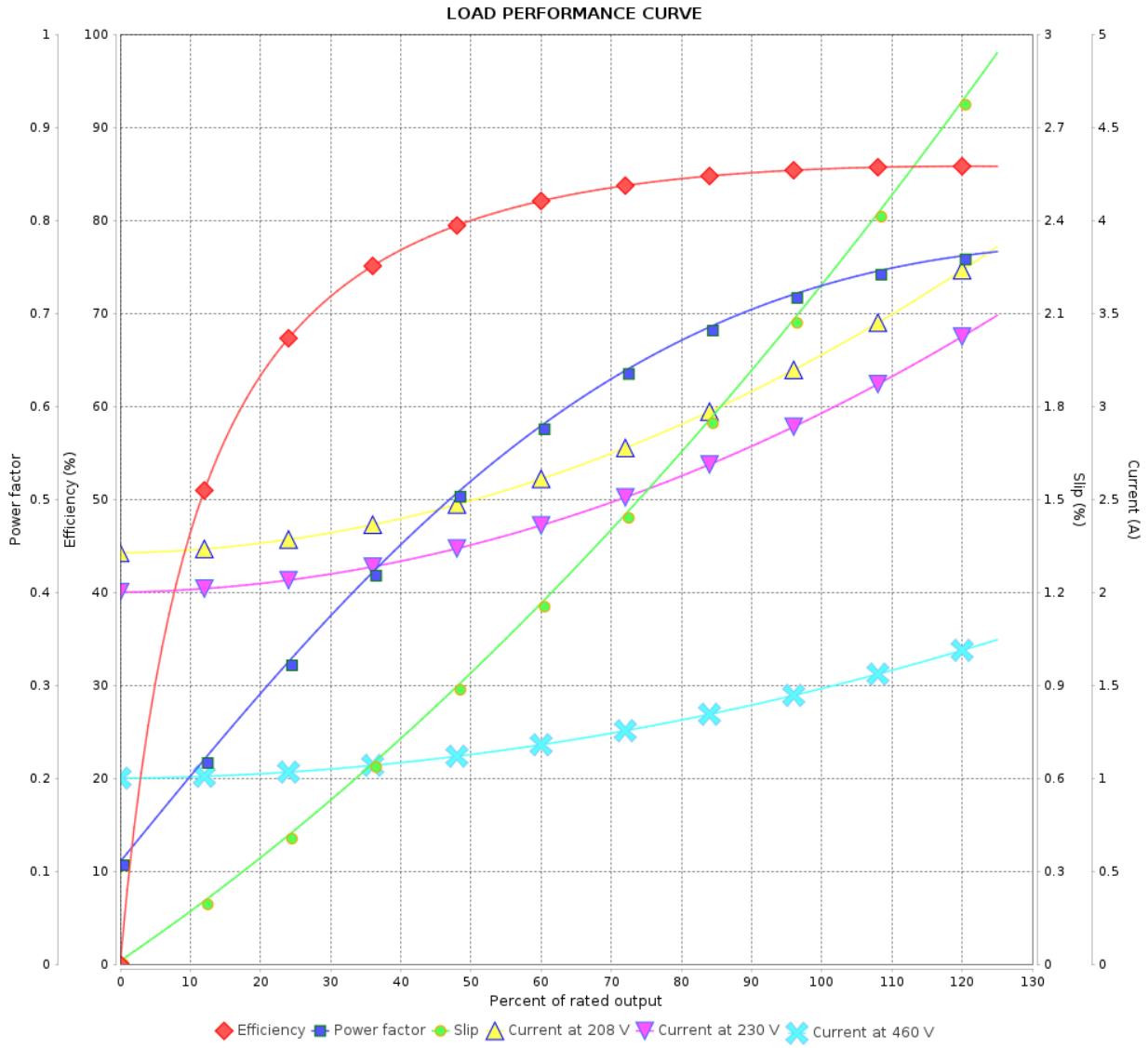
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Three Phase Induction Motor - Squirrel Cage

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	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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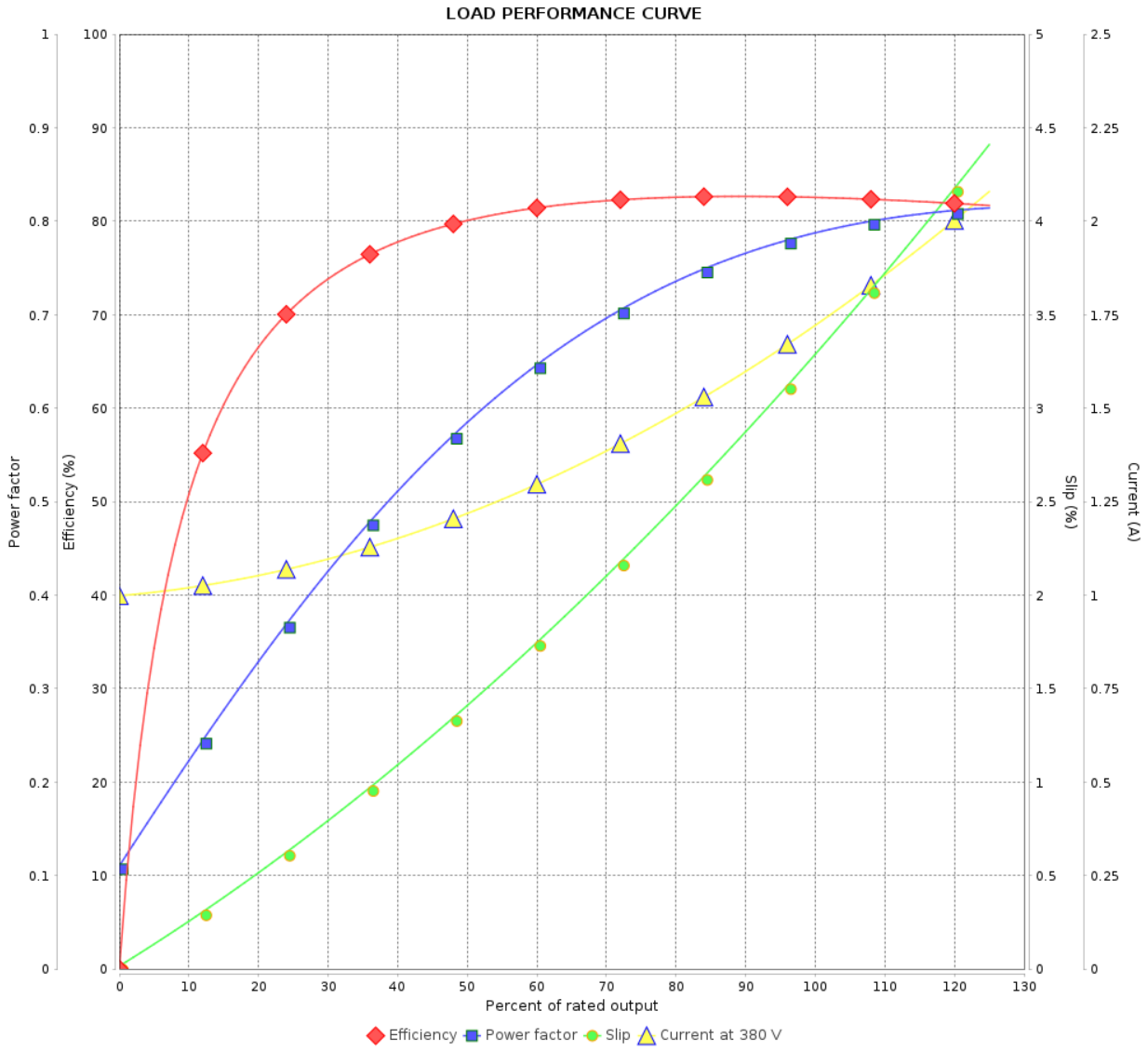
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Three Phase Induction Motor - Squirrel Cage

Customer	:

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



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 1.75 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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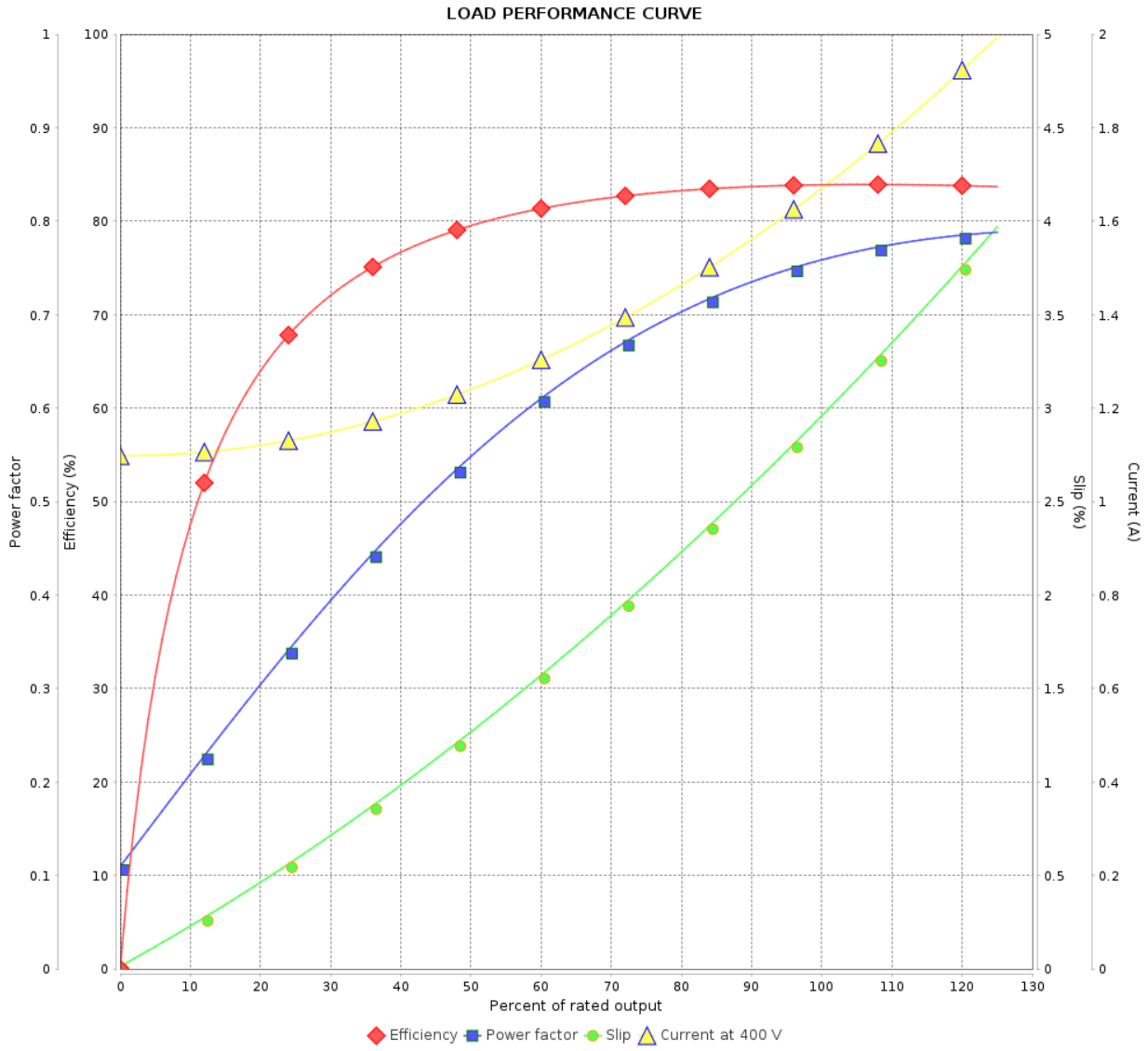
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Three Phase Induction Motor - Squirrel Cage

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 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0 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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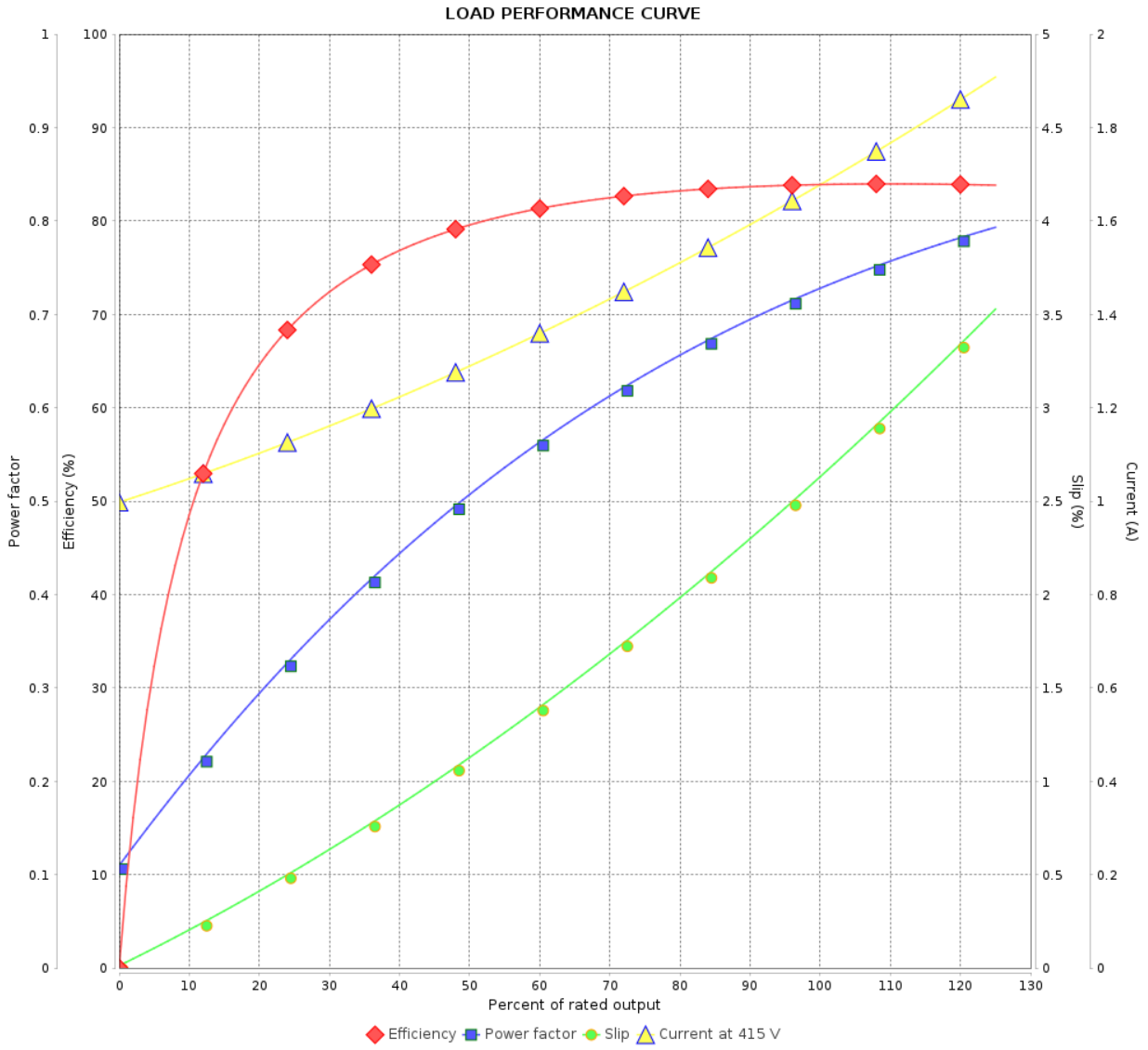
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Three Phase Induction Motor - Squirrel Cage

Customer	:

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



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 1.70 A	Moment of inertia (J)	: 0.0049 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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