DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442104

Frame	: 145TC	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)	: 0.0060 kgm²
Design	: B		

Output [HP]		1.5	1.5	1.5	1.5
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		4.20/2.10	2.42	2.39	2.39
L. R. Amperes [A]		35.3/17.6	16.2	17.4	17.9
LRC [A]		8.4x(Code L)	6.7x(Code J)	7.3x(Code K)	7.5x(Code K)
No load current [A]		2.40/1.20	1.20	1.40	1.50
Rated speed [RPM]		1755	1440	1450	1450
Slip [%]		2.50	4.00	3.33	3.33
Rated torque [kgfm]		0.620	0.756	0.751	0.751
Locked rotor torque [%]		290	250	250	280
Breakdown torque [%]		350	280	290	320
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level[2]		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%				
	50%	82.5	82.5	82.5	81.0
	75%	85.5	84.0	84.0	84.0
	100%	86.5	84.1	84.1	84.1
Power Factor	25%				
	50%	0.54	0.61	0.57	0.53
	75%	0.67	0.74	0.70	0.67
	100%	0.76	0.82	0.79	0.76

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

Losses (%)	P1 (0,9;1,0)	14.7	17.8	17.8	17.8
	P2 (0,5;1,0)	12.1	14.6	14.6	14.6
	P3 (0,25;1,0)	12.0	14.5	14.5	14.5
	P4 (0,9;0,5)	8.7	10.6	10.6	10.6
	P5 (0,5;0,5)	6.1	7.4	7.4	7.4
	P6 (0,5;0,25)	4.9	5.9	5.9	5.9
	P7 (0,25;0,25)	3.6	4.4	4.4	4.4

		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 : 57 kgf

Max. compression : 80 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 4.36A SF 1.15 SFA 5.01A

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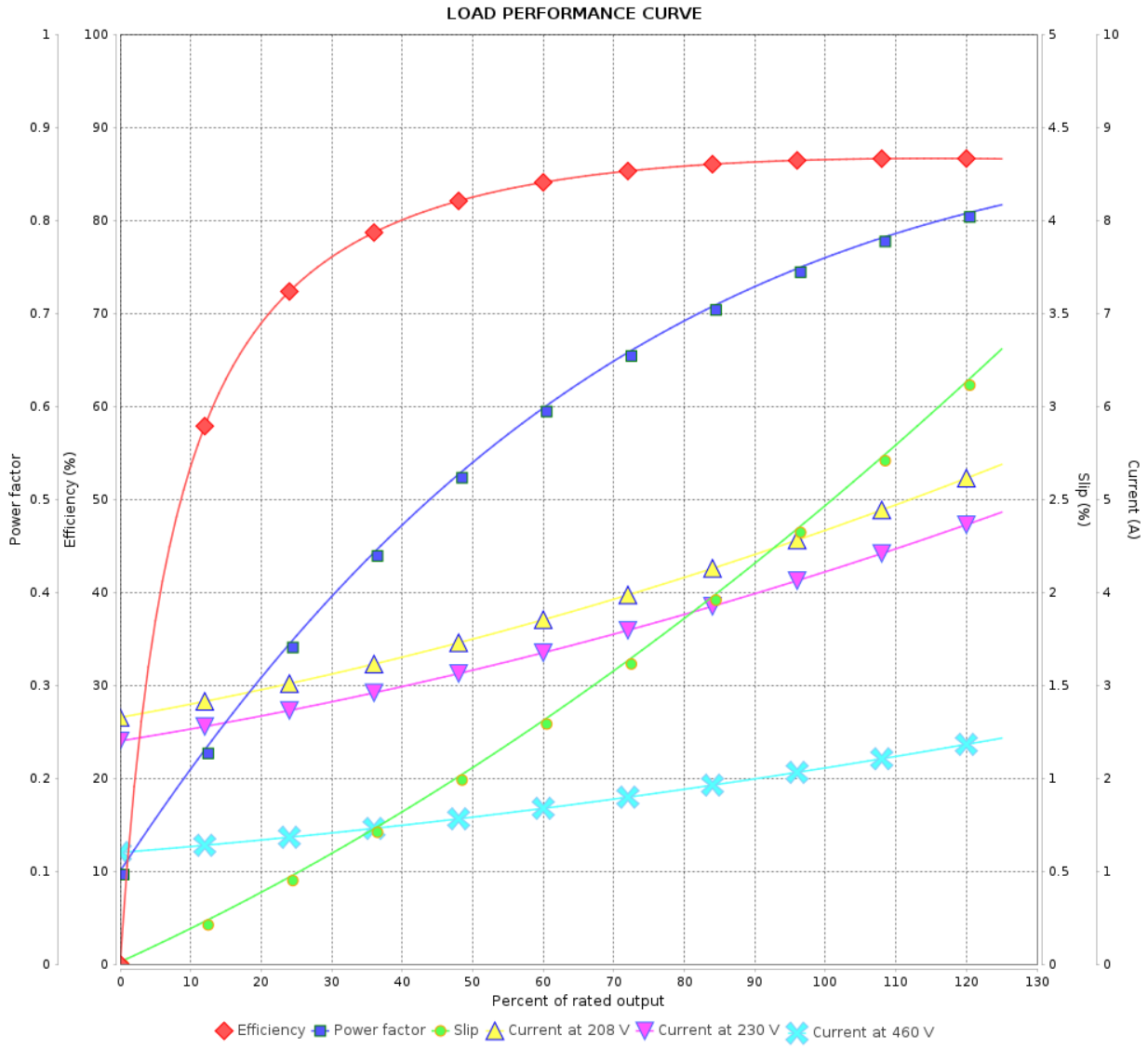
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442104



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 4.20/2.10 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

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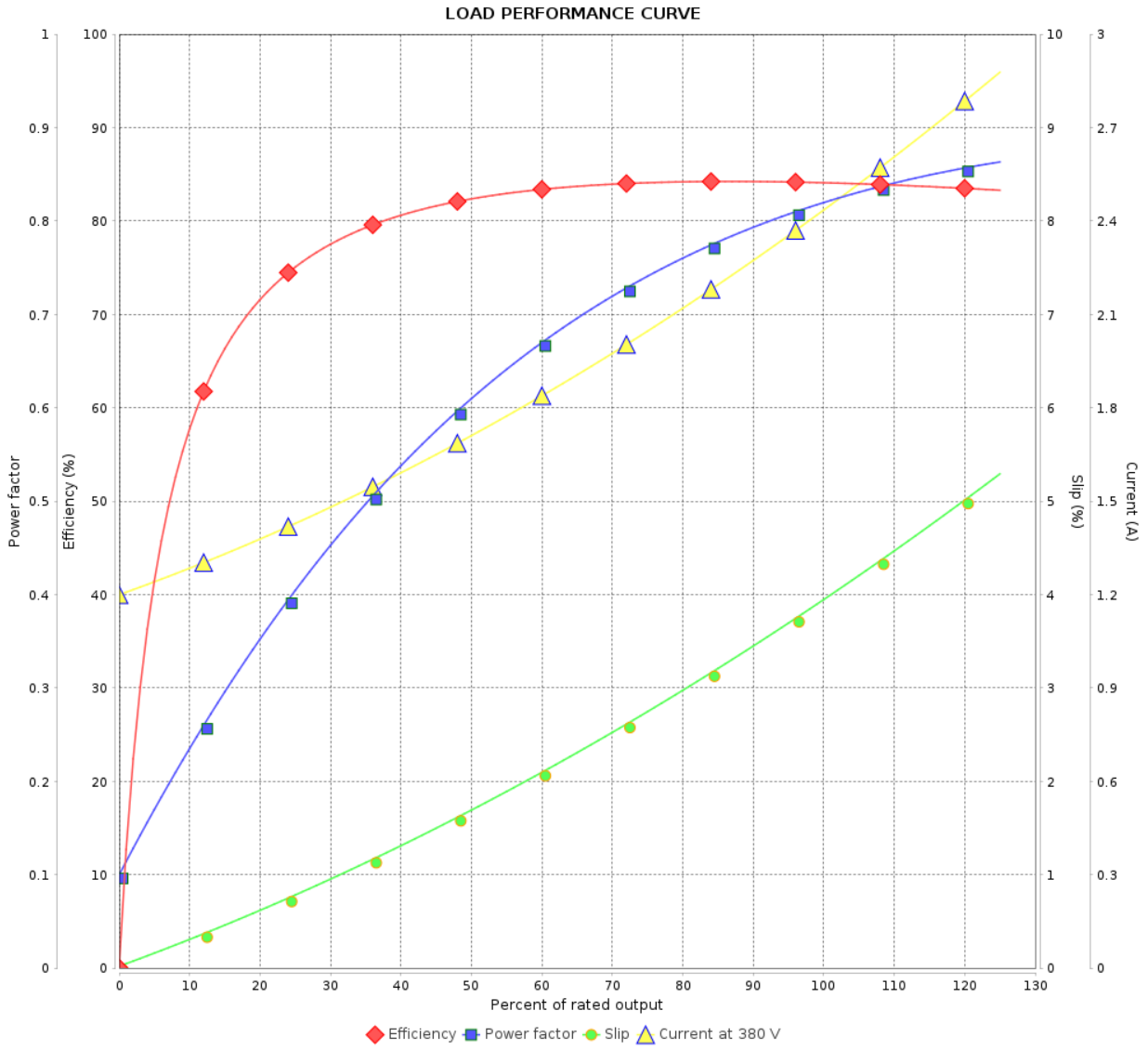
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11442104



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 2.42 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 0.756 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

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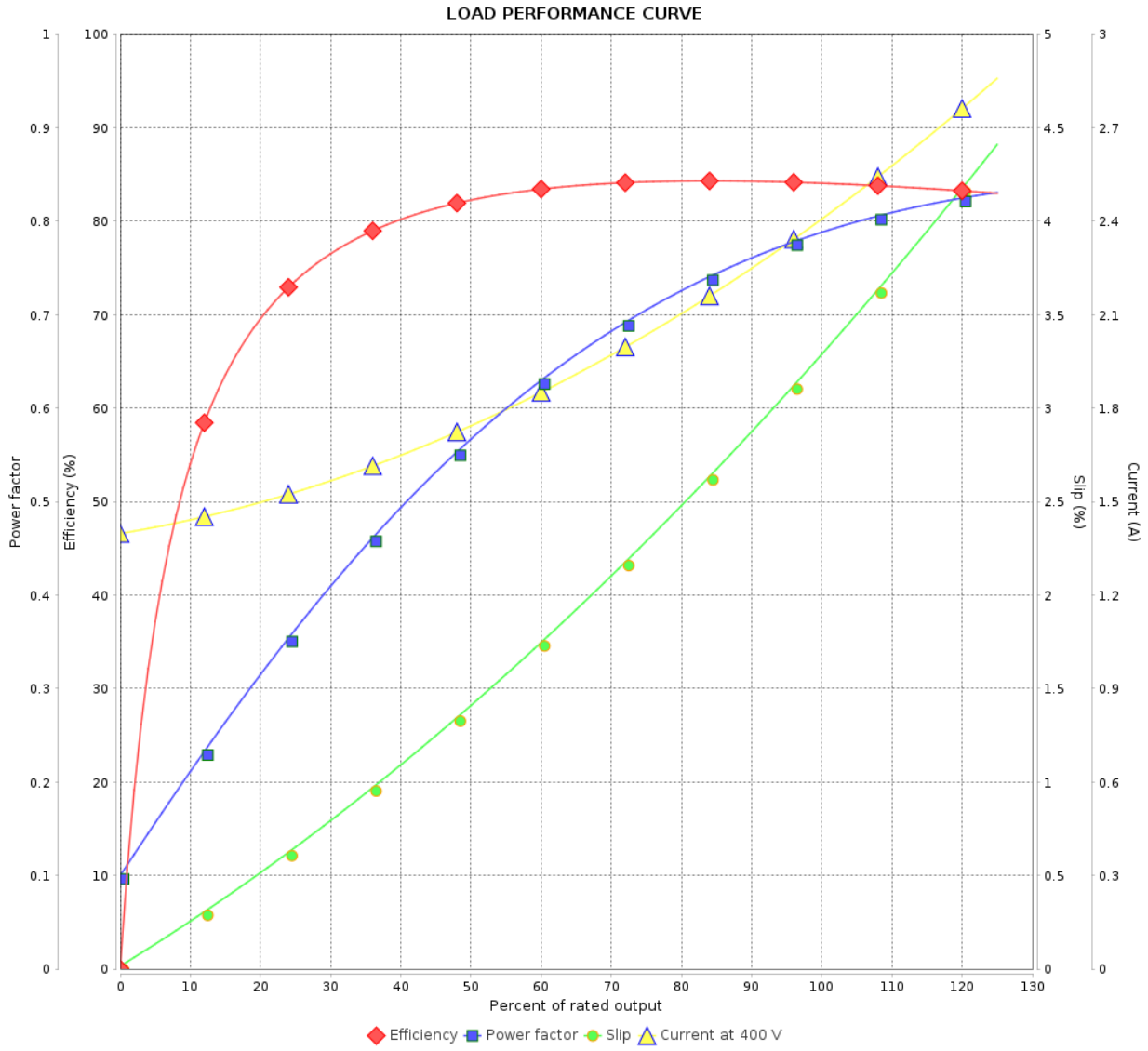
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11442104



Performance	: 400 V 50 Hz 4P IE3

Rated current	: 2.39 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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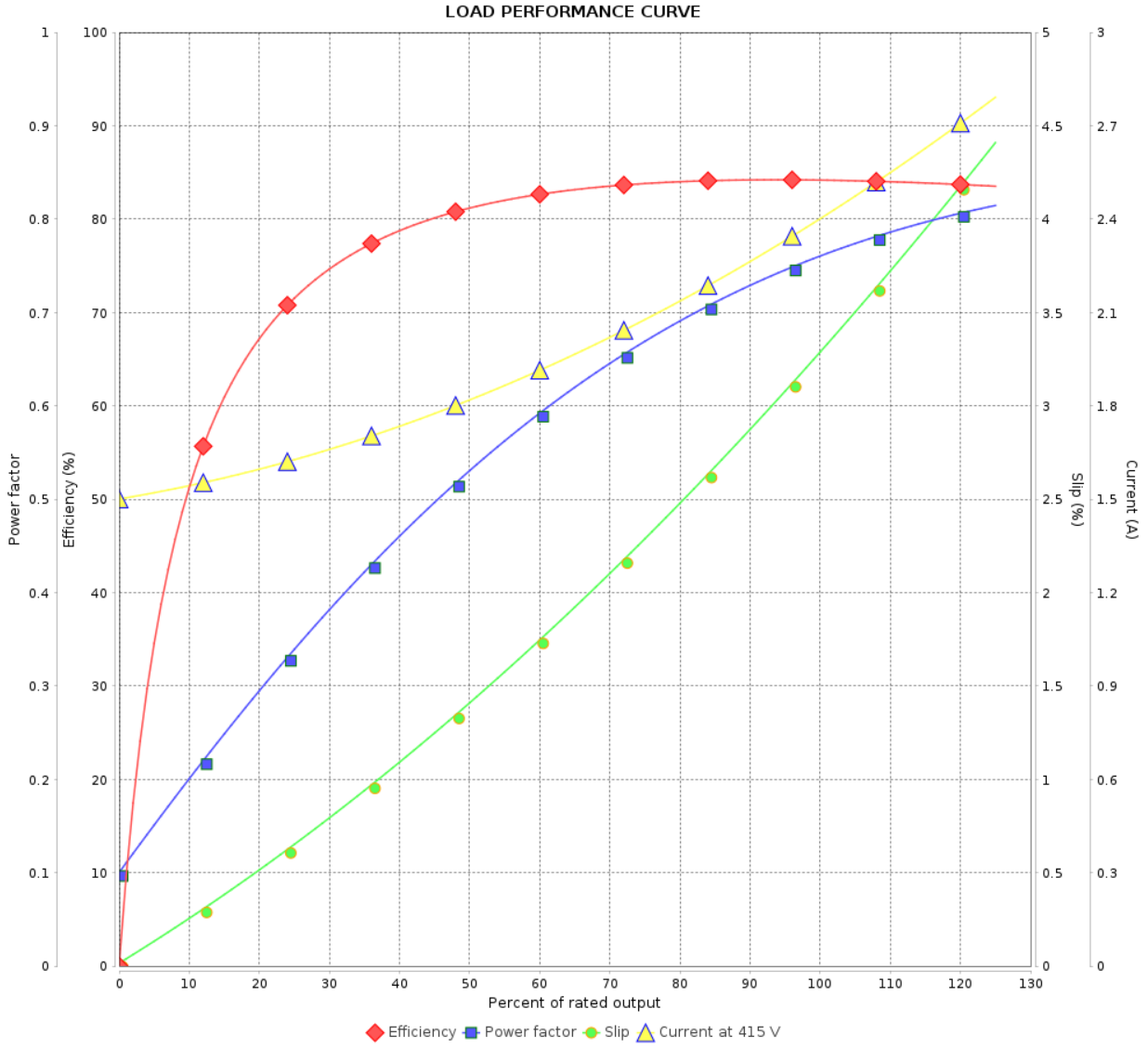
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11442104



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 2.39 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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