DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717200

Frame	: 182/4TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 41.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0143 kgm²
Design	: B		

Output [HP]		3	3	3	3
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		8.02/4.01	4.78	4.54	4.43
L. R. Amperes [A]		65.8/32.9	30.1	32.2	33.7
LRC [A]		8.2x(Code K)	6.3x(Code H)	7.1x(Code J)	7.6x(Code K)
No load current [A]		4.00/2.00	2.10	2.20	2.35
Rated speed [RPM]		1765	1455	1460	1465
Slip [%]		1.94	3.00	2.67	2.33
Rated torque [kgfm]		1	1	1	1
Locked rotor torque [%]		220	220	220	220
Breakdown torque [%]		320	250	270	290
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level²		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%				
	50%	87.5	87.5	87.5	87.5
	75%	88.5	87.5	87.5	87.5
	100%	89.5	87.5	87.5	87.5
Power Factor	25%				
	50%	0.58	0.65	0.62	0.59
	75%	0.69	0.77	0.73	0.71
	100%	0.77	0.80	0.80	0.79

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

Losses (%)	P1 (0,9;1,0)	12.7	12.9	13.7	13.8
	P2 (0,5;1,0)	11.2	11.3	12.0	12.1
	P3 (0,25;1,0)	10.8	11.0	11.7	11.7
	P4 (0,9;0,5)	6.7	6.8	7.2	7.3
	P5 (0,5;0,5)	5.0	5.1	5.4	5.4
	P6 (0,5;0,25)	3.7	3.7	4.0	4.0
	P7 (0,25;0,25)	2.8	2.9	3.1	3.1

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 67 kgf

Max. compression : 113 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 8.65A SF 1.15 SFA 9.95A

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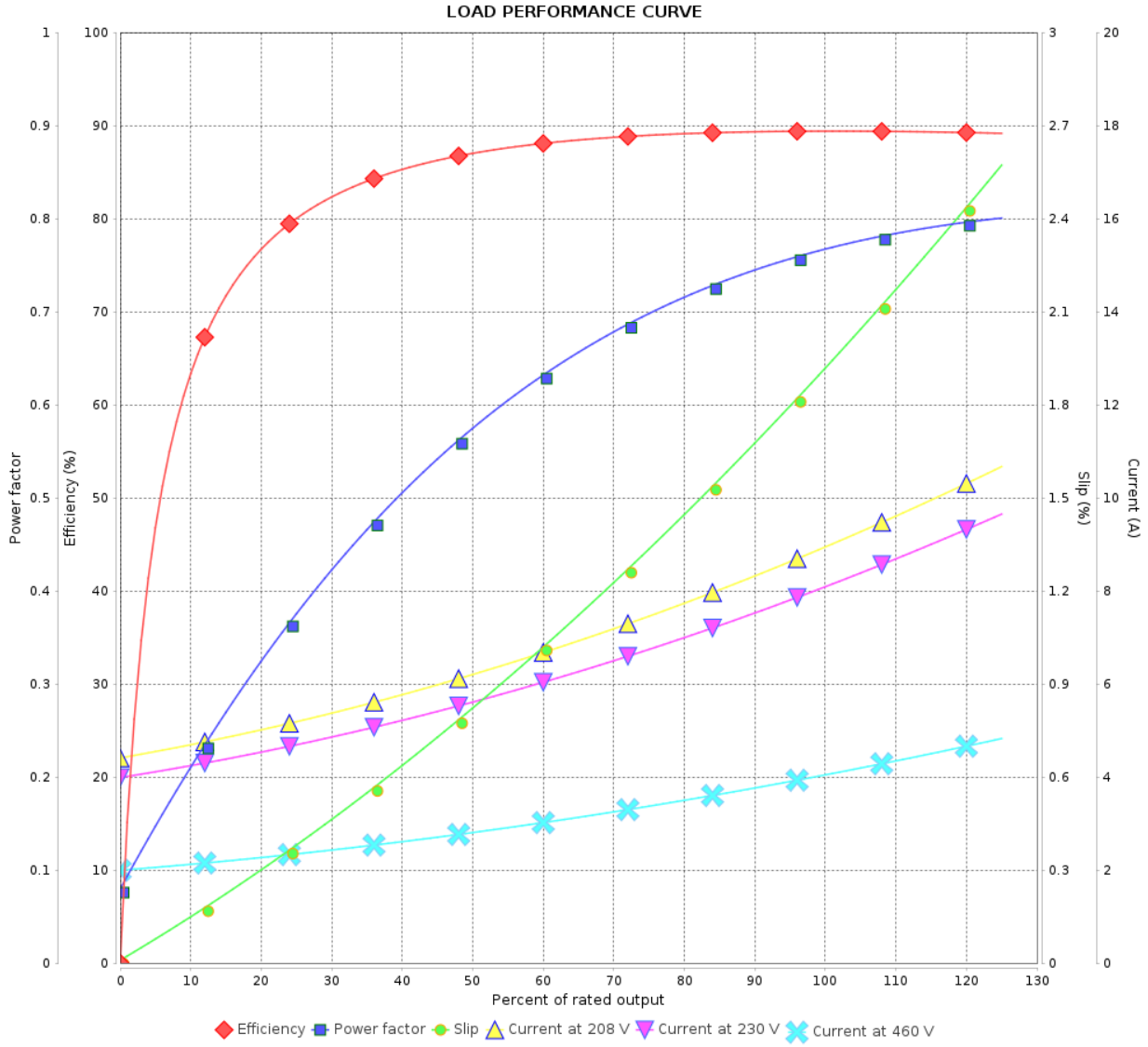
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717200



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 8.02/4.01 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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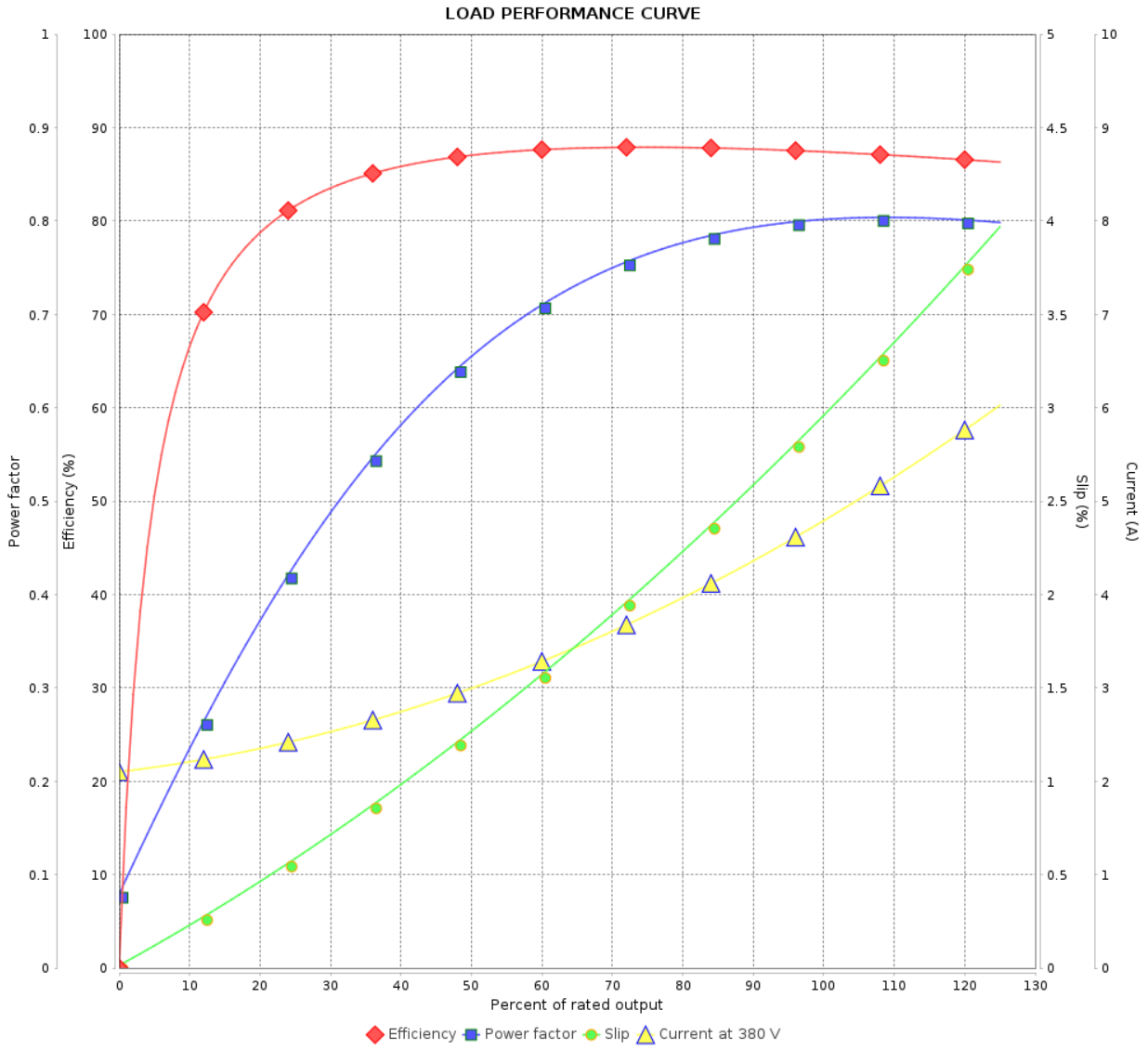
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717200



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 4.78 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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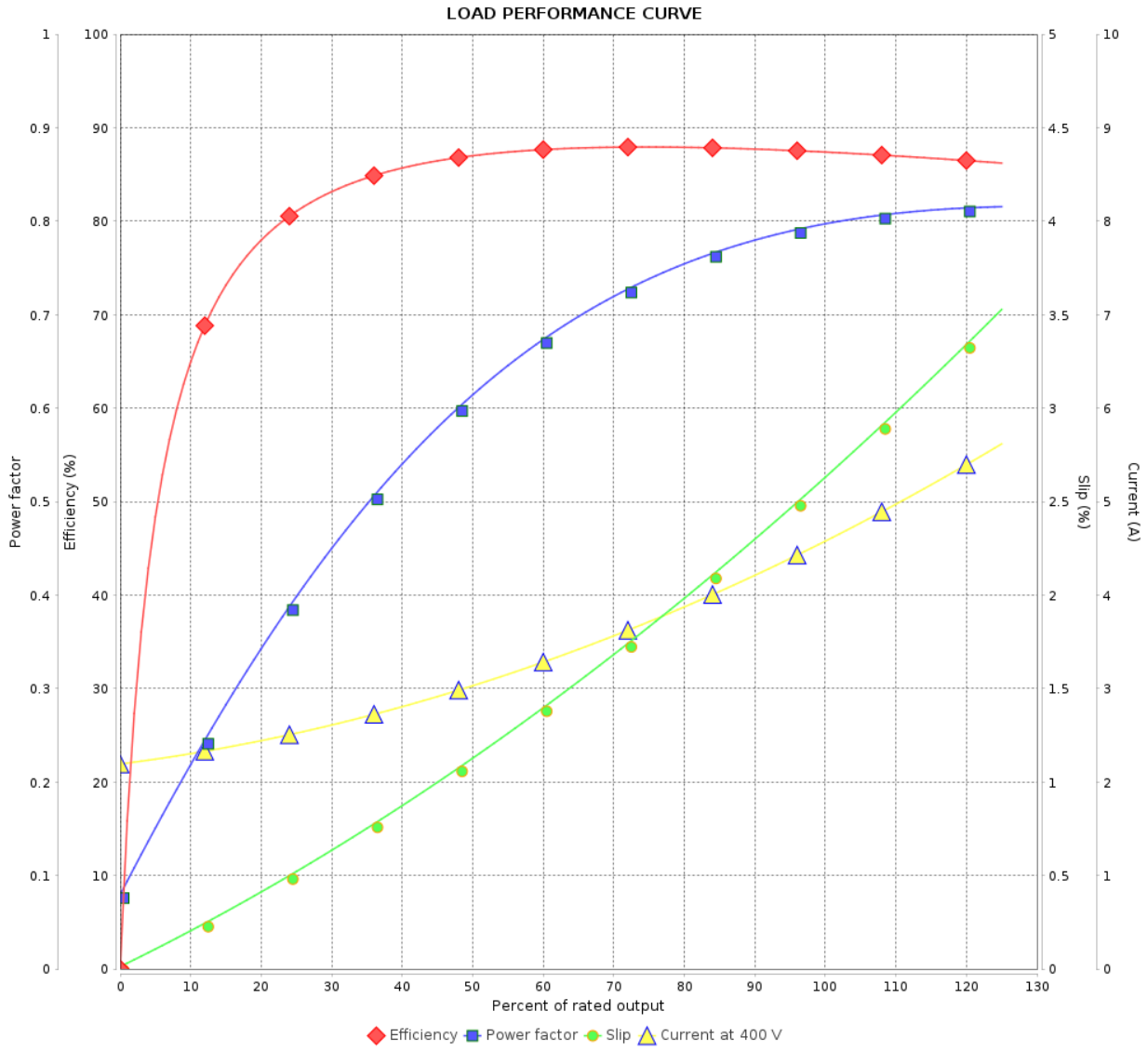
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717200



Performance	: 400 V 50 Hz 4P IE3

Rated current	: 4.54 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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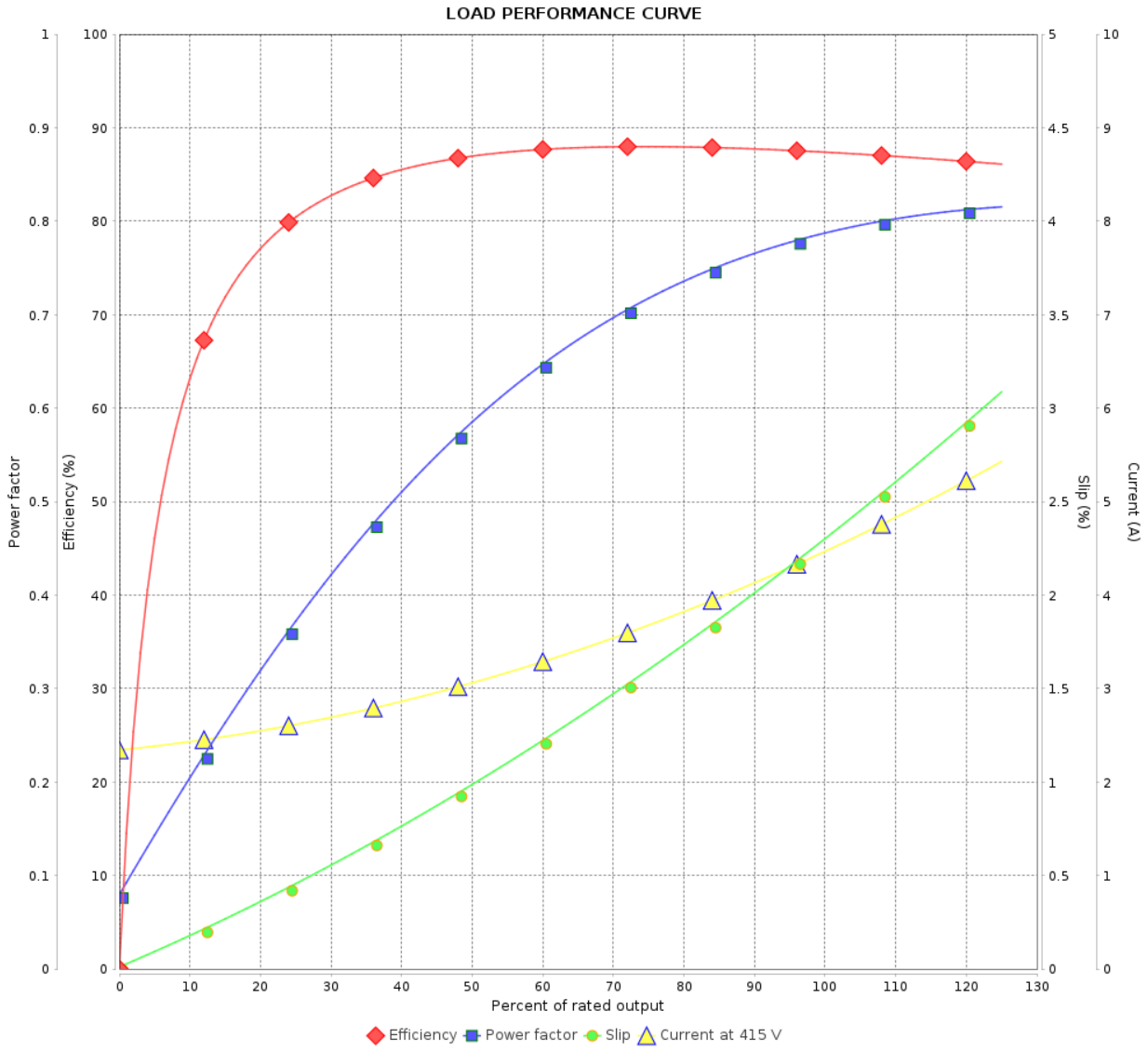
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717200



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 4.43 A	Moment of inertia (J)	: 0.0143 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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