DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717267

Frame	: 213/5TC	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]	: 63.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0197 kgm²
Design	: B		

Output [HP]		7.5	5.5	5.5	5.5	7.5	7.5	7.5
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		17.5/8.76	7.83	7.60	7.49	10.6	10.2	9.82
L. R. Amperes [A]		126/63.1	60.3	57.8	62.2	60.5	65.2	67.8
LRC [A]		7.2x(Code H)	7.7x(Code J)	7.6x(Code J)	8.3x(Code K)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]		5.80/2.90	2.90	3.15	3.30	2.90	3.15	3.30
Rated speed [RPM]		3530	2940	2945	2950	2910	2920	2925
Slip [%]		1.94	2.00	1.83	1.67	3.00	2.67	2.50
Rated torque [kgfm]		1	1	1	1	1	1	1
Locked rotor torque [%]		210	220	250	270	170	180	200
Breakdown torque [%]		300	310	350	370	229	260	280
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level[2]		68.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%							
	50%	87.5	86.7	86.4	86.1	88.5	87.5	87.5
	75%	89.5	88.2	88.3	88.5	88.5	87.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	87.5	88.5
Power Factor	25%							
	50%	0.75	0.74	0.70	0.67	0.80	0.77	0.74
	75%	0.84	0.83	0.81	0.78	0.87	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.90	0.89	0.88

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

Losses (%)	P1 (0,9;1,0)	11.3	12.9	12.8	12.5	13.8	13.8	12.5
	P2 (0,5;1,0)	9.2	10.5	10.4	10.2	11.2	11.2	10.2
	P3 (0,25;1,0)	8.5	9.7	9.6	9.4	10.4	10.4	9.4
	P4 (0,9;0,5)	5.8	6.6	6.5	6.4	7.0	7.0	6.4
	P5 (0,5;0,5)	3.6	4.1	4.0	4.0	4.3	4.3	4.0
	P6 (0,5;0,25)	2.3	2.7	2.6	2.6	2.8	2.8	2.6
	P7 (0,25;0,25)	1.5	1.7	1.7	1.6	1.8	1.8	1.6

		Drive end	Non drive end
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 63 kgf

Max. compression : 130 kgf

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.

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 19.4A SF 1.15 SFA 22.3A

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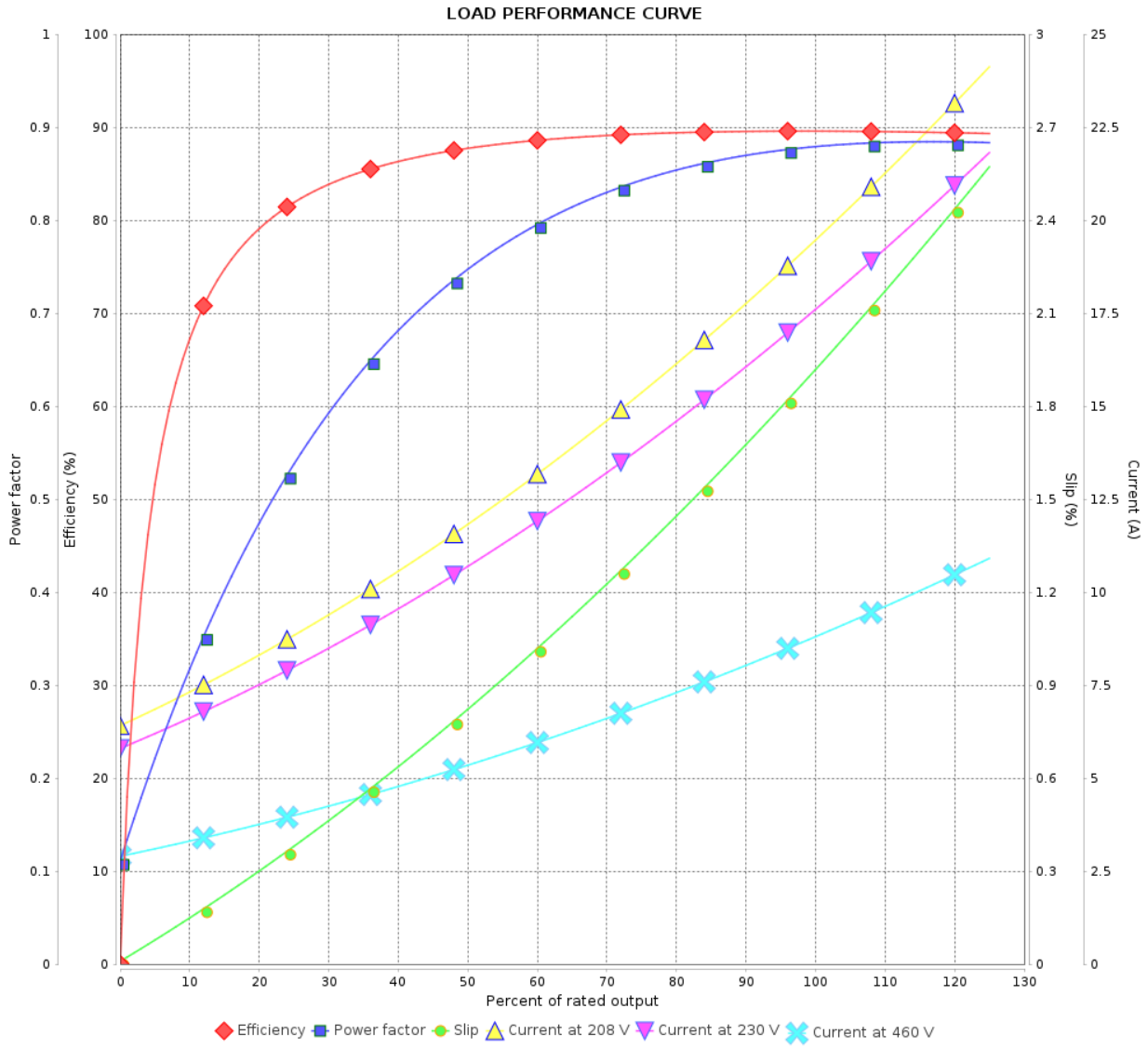
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717267



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 17.5/8.76 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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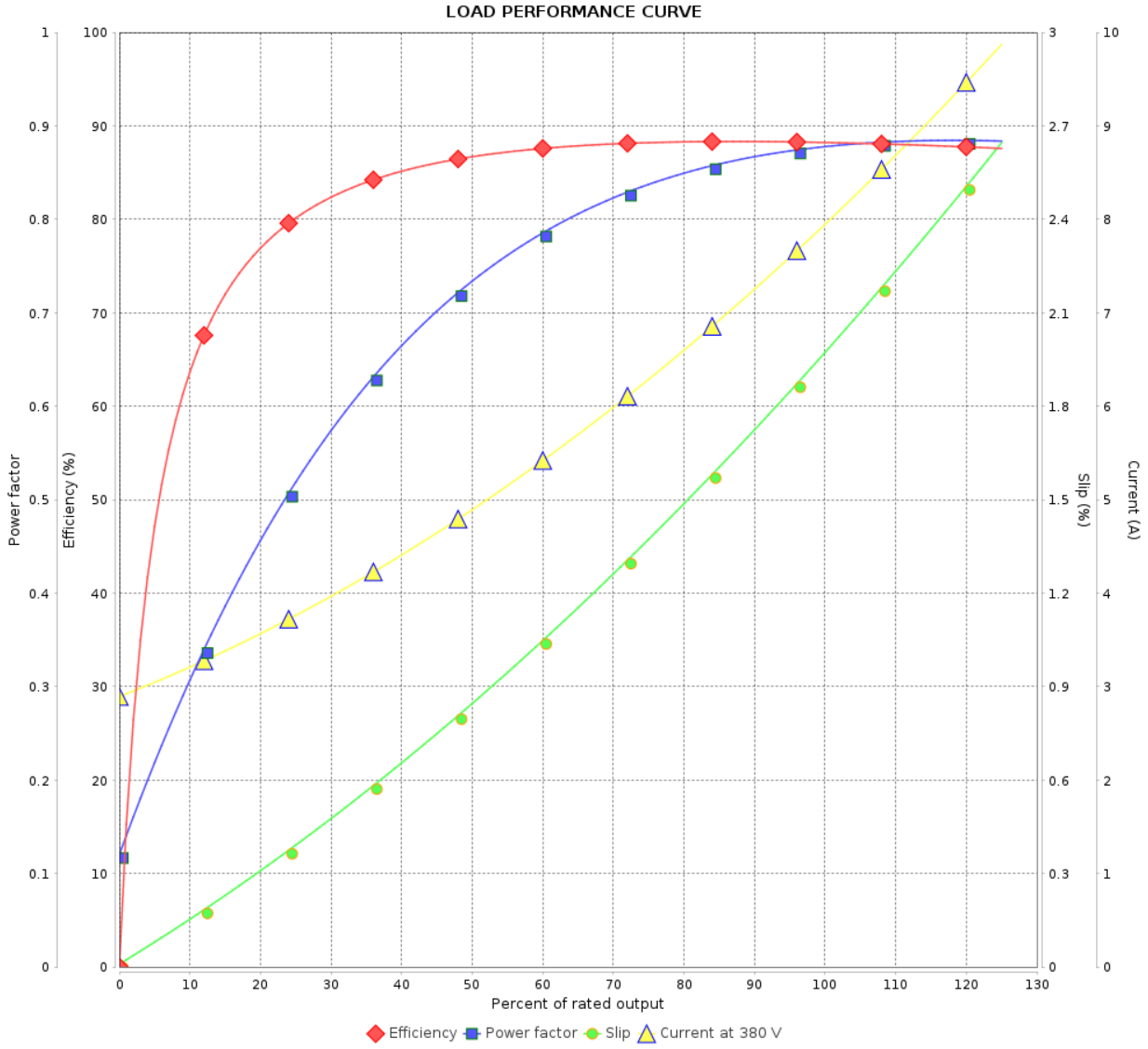
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717267



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 7.83 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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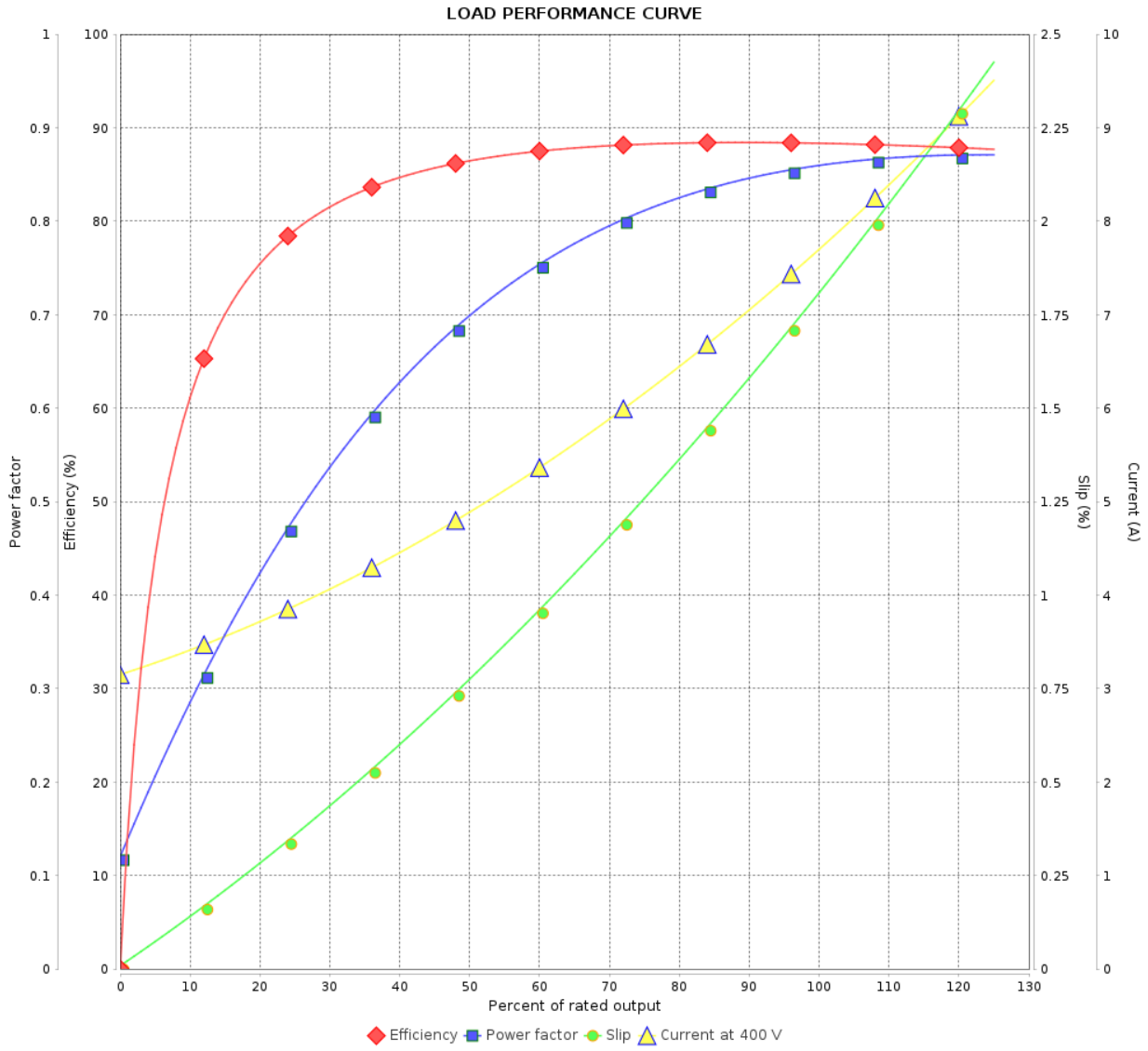
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717267



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 7.60 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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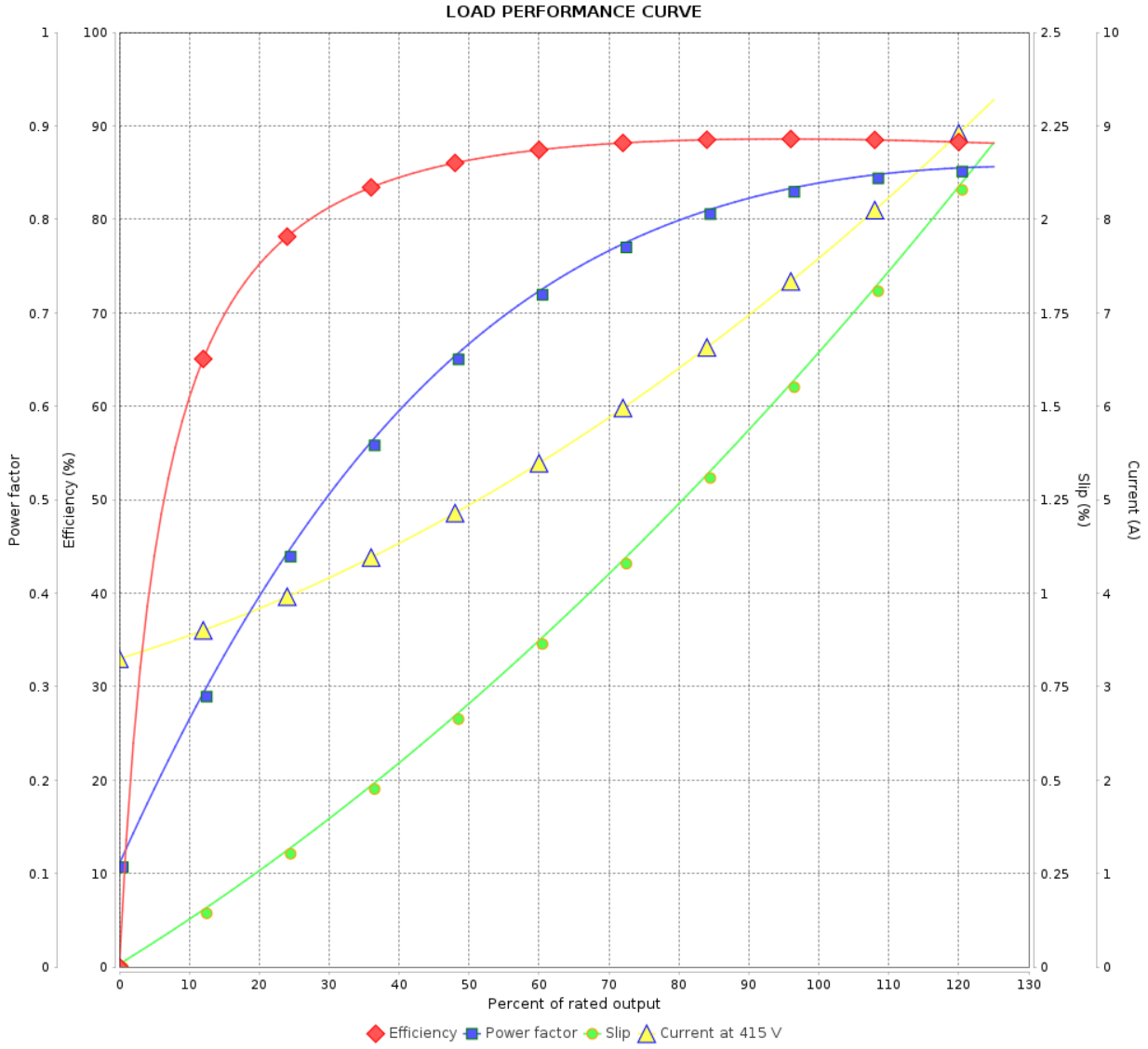
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717267



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 7.49 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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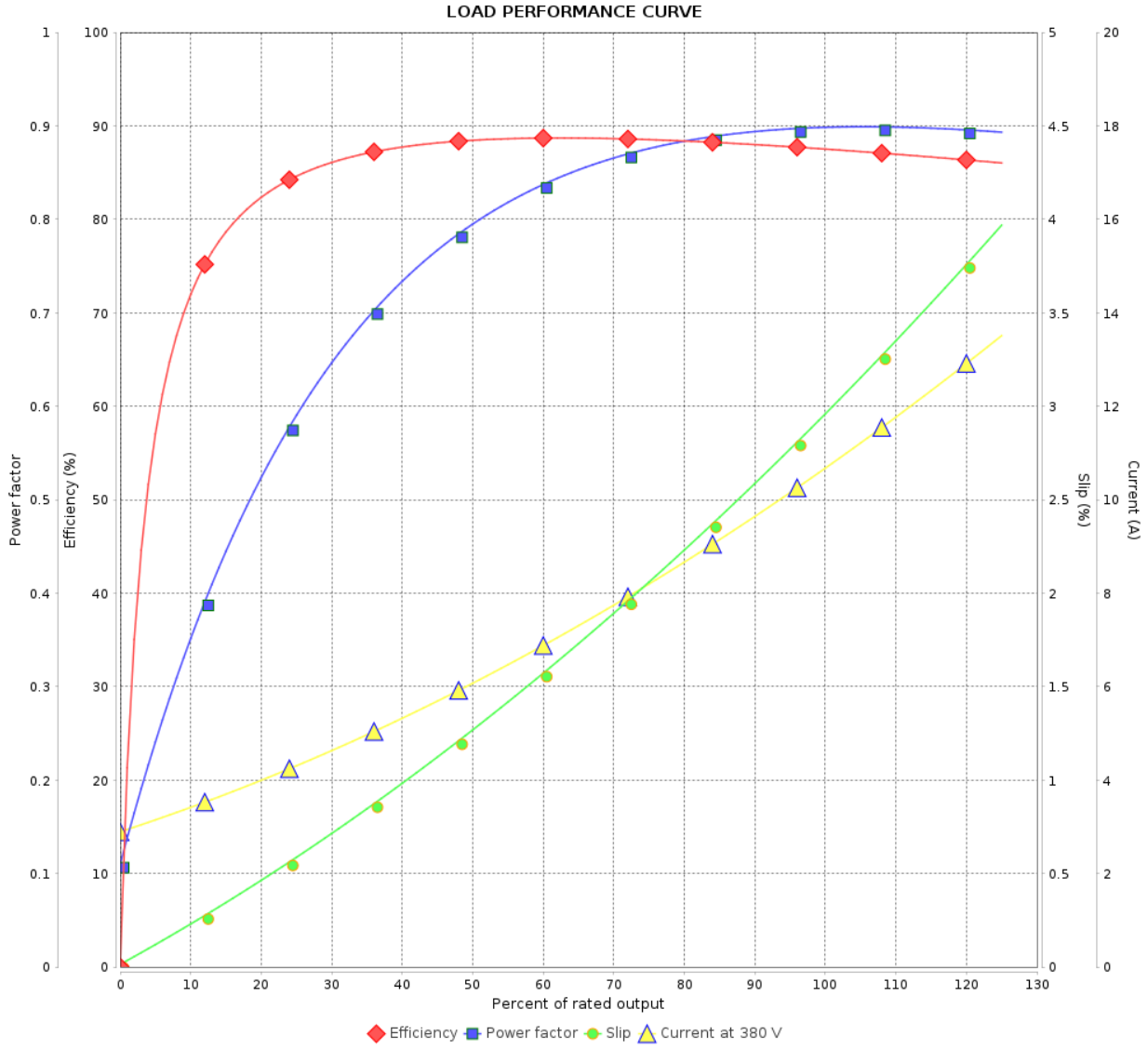
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717267



Performance	: 380 V 50 Hz 2P IE2

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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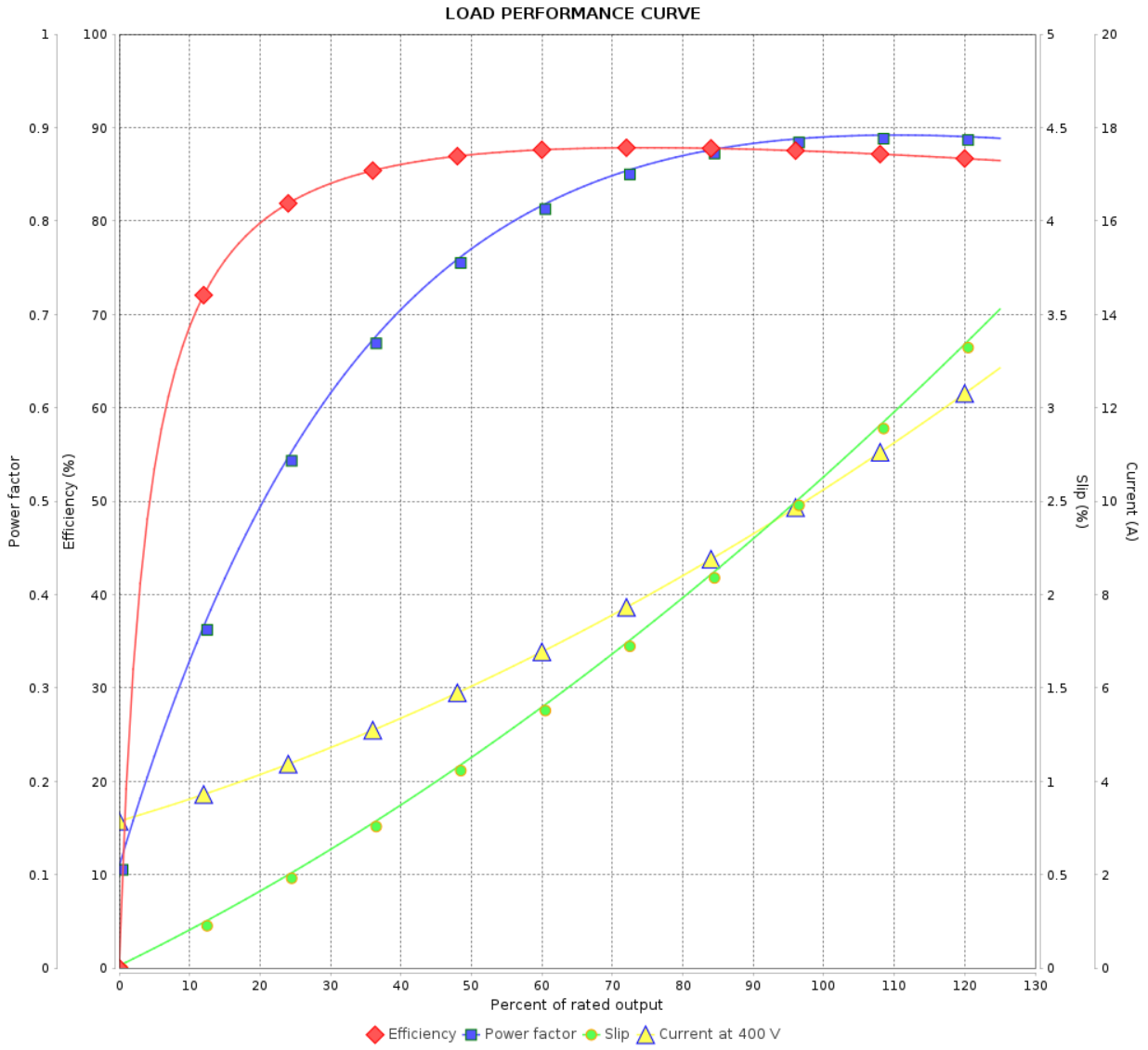
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717267



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 10.2 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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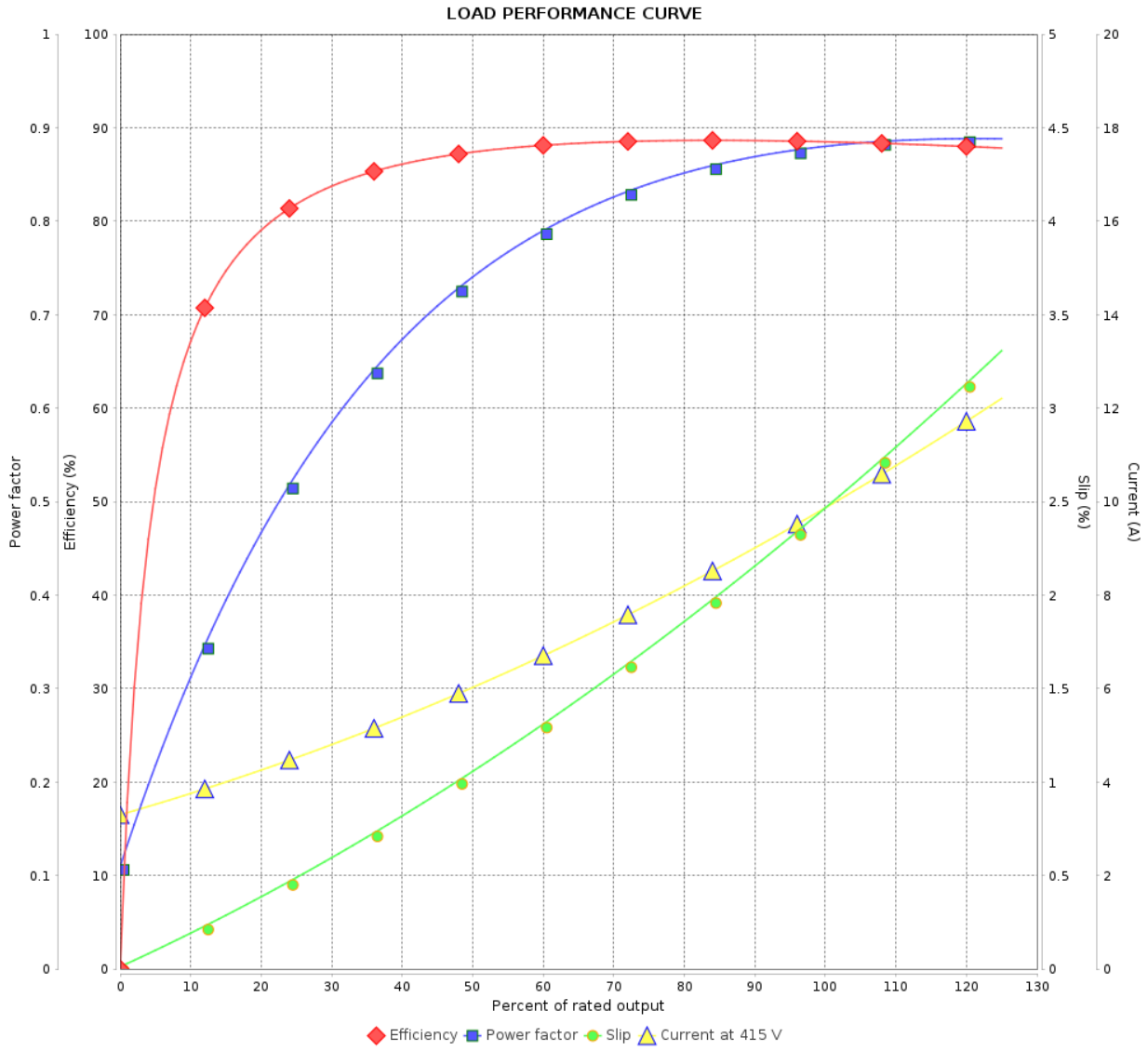
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717267



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 9.82 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

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