DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11783909

Frame	: 143/5T	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]	: 23.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0026 kgm²
Design	: B		

Output [HP]		3	2	2	2	3	3	3
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]		7.42/3.71	3.24	3.17	3.15	4.44	4.26	4.13
L. R. Amperes [A]		60.1/30.1	27.9	29.2	29.9	27.1	28.5	29.3
LRC [A]		8.1x(Code J)	8.6x(Code L)	9.2x(Code M)	9.5x(Code M)	6.1x(Code G)	6.7x(Code H)	7.1x(Code H)
No load current [A]		2.60/1.30	1.28	1.43	1.55	1.28	1.43	1.55
Rated speed [RPM]		3460	2890	2905	2910	2820	2840	2850
Slip [%]		3.89	3.67	3.17	3.00	6.00	5.33	5.00
Rated torque [kgfm]		0	0	0	0	0	0	0
Locked rotor torque [%]		330	400	459	490	260	300	320
Breakdown torque [%]		360	400	459	509	260	300	330
Service factor		1.25	1.25	1.00	1.00	1.25	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level[2]		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%							
	50%	85.5	81.9	82.0	82.2	84.0	84.5	85.0
	75%	86.5	84.0	84.4	84.8	85.0	85.5	86.0
	100%	86.5	84.8	85.3	85.9	84.6	85.6	86.2
Power Factor	25%							
	50%	0.70	0.63	0.58	0.55	0.76	0.72	0.69
	75%	0.81	0.76	0.72	0.69	0.85	0.82	0.80
	100%	0.86	0.83	0.80	0.77	0.89	0.87	0.86

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

Losses (%)	P1 (0,9;1,0)	14.8	14.8	14.8	14.8	14.8	14.8	14.8
	P2 (0,5;1,0)	12.3	12.3	12.3	12.3	12.3	12.3	12.3
	P3 (0,25;1,0)	11.7	11.7	11.7	11.7	11.7	11.7	11.7
	P4 (0,9;0,5)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P5 (0,5;0,5)	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	P6 (0,5;0,25)	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	P7 (0,25;0,25)	1.7	1.7	1.7	1.7	1.7	1.7	1.7

		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 : 60 kgf

Max. compression : 84 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

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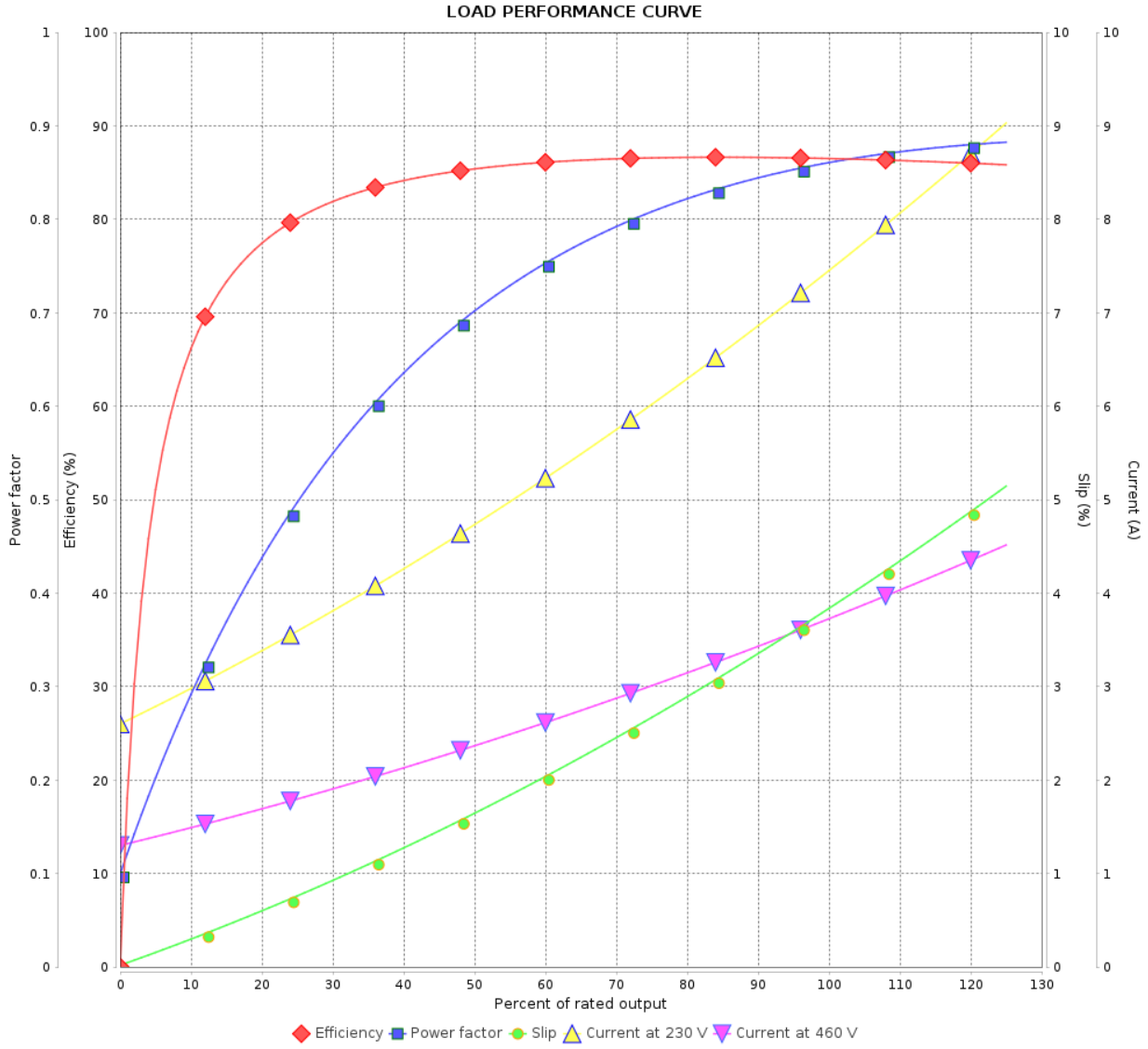
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11783909



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.42/3.71 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 3460 rpm	Design	: B

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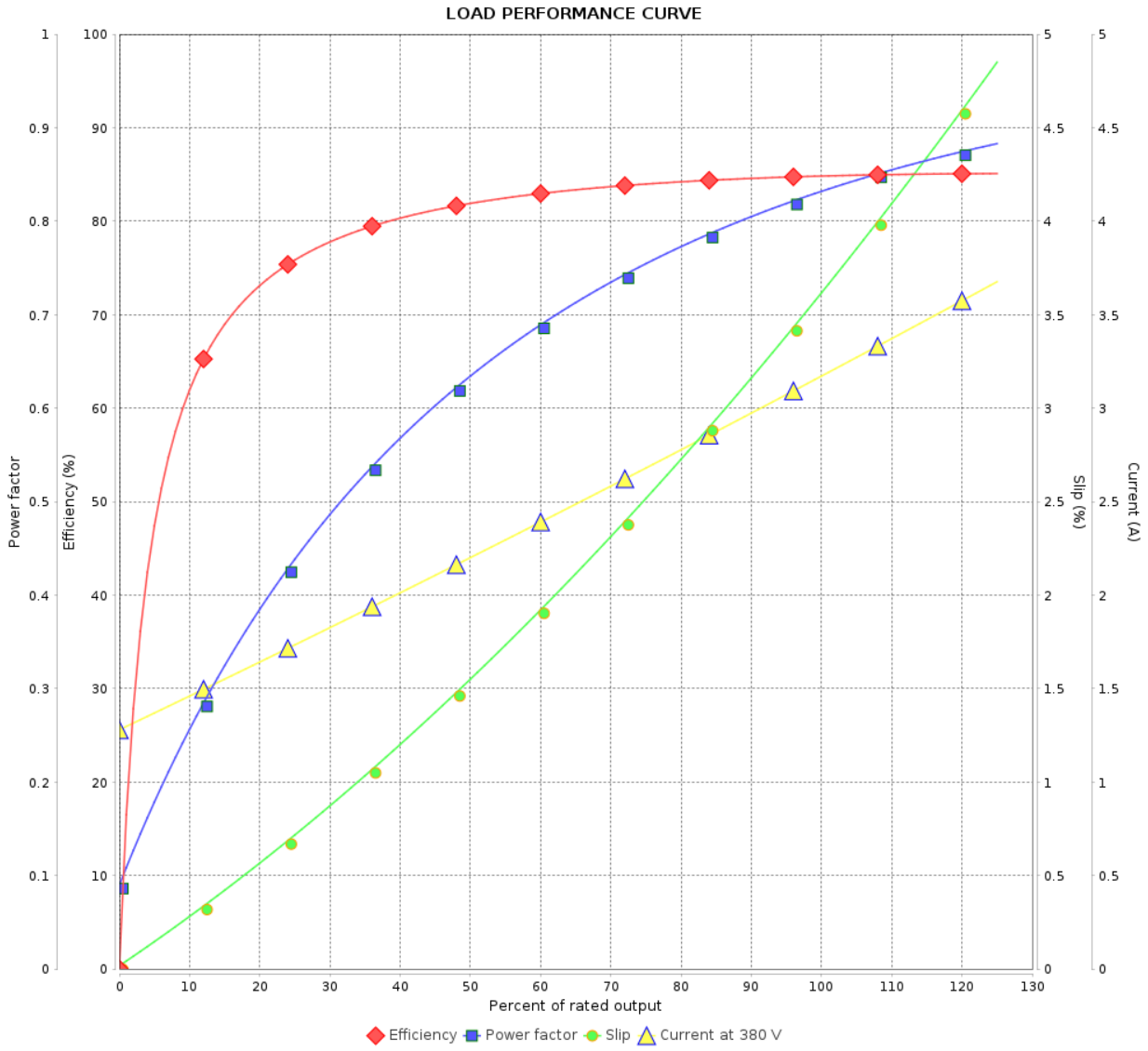
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11783909



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 3.24 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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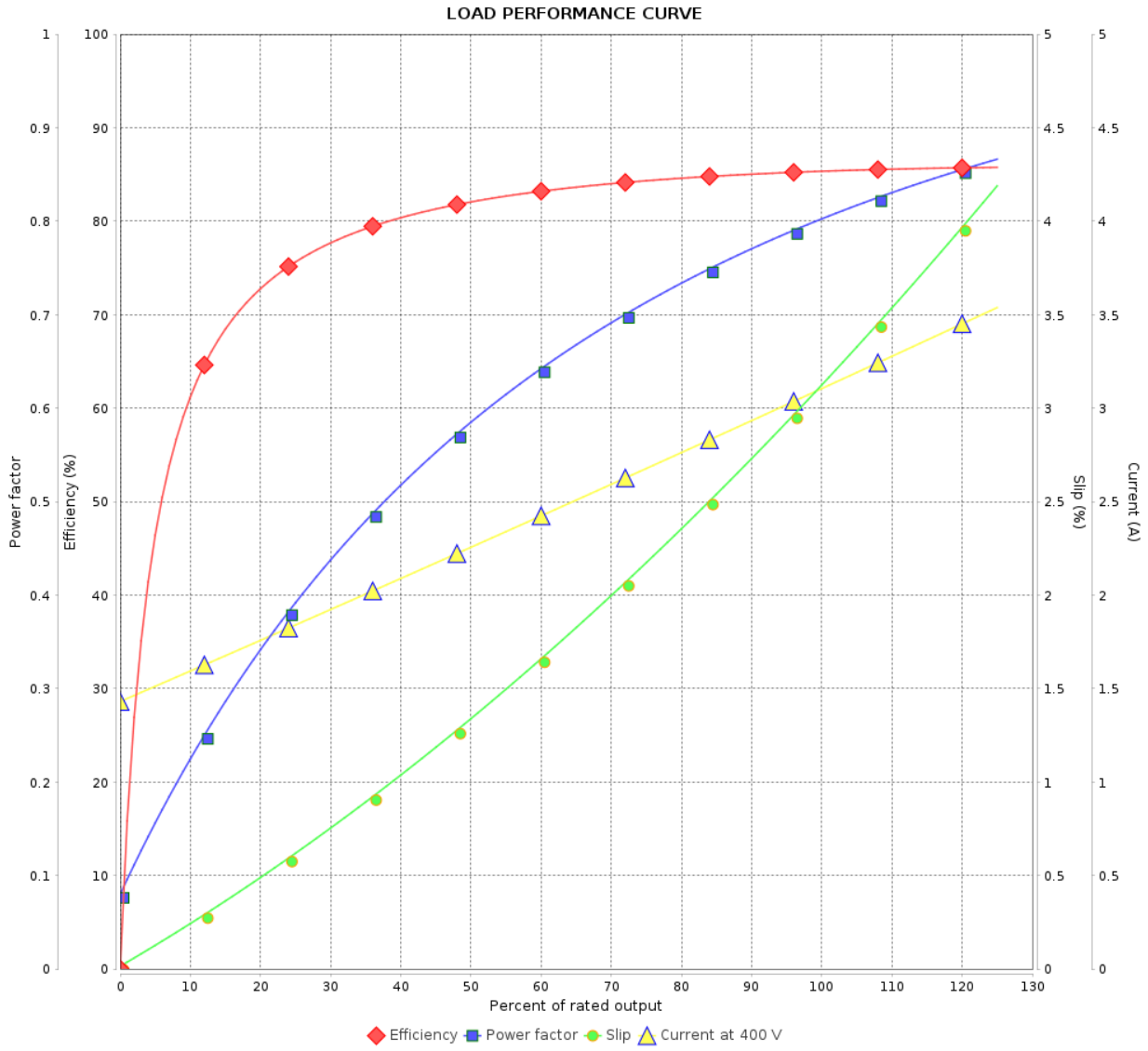
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11783909



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 3.17 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 459 %	Service factor	: 1.00
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

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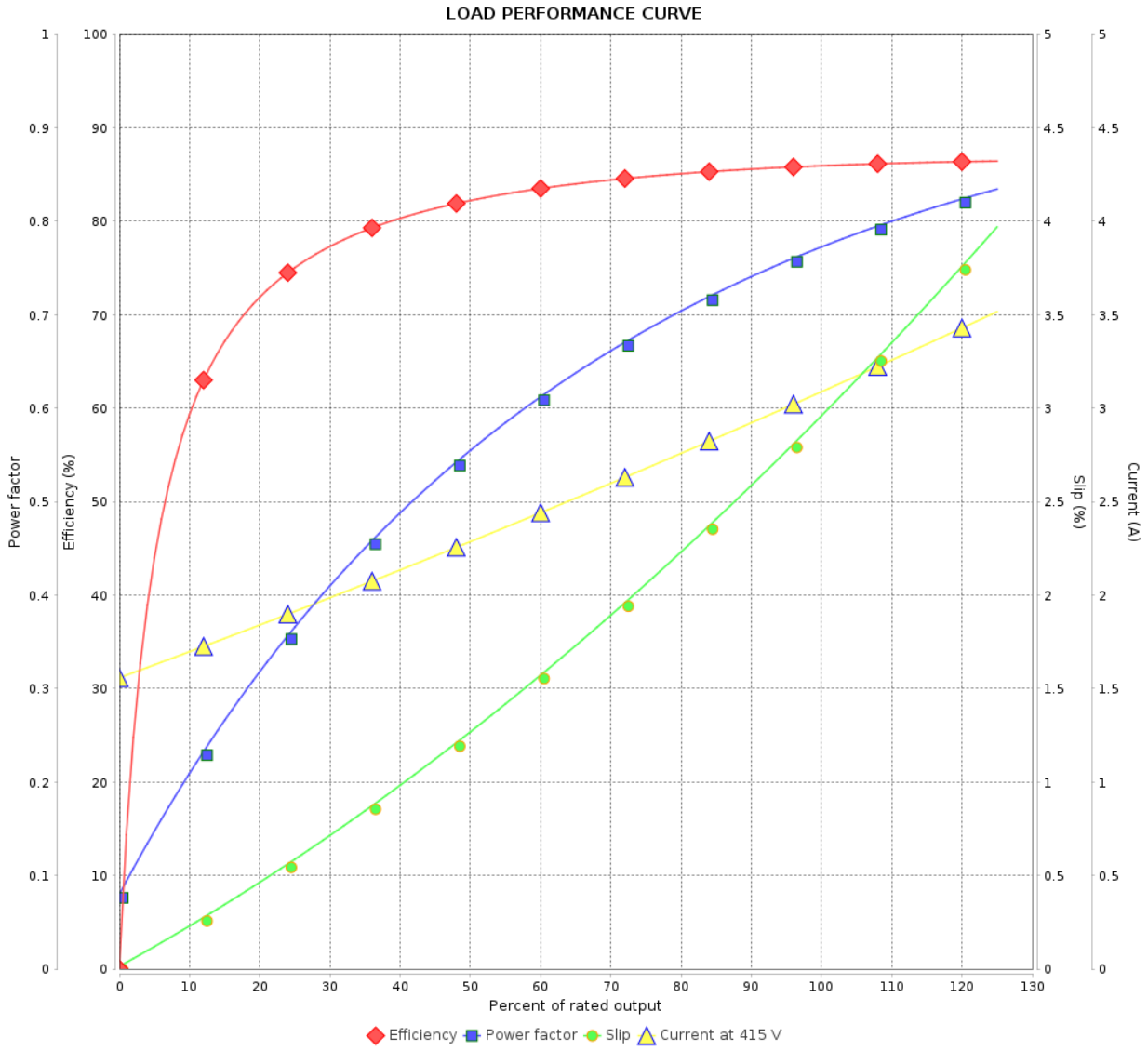
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11783909



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 3.15 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 9.5	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 490 %	Service factor	: 1.00
Breakdown torque	: 509 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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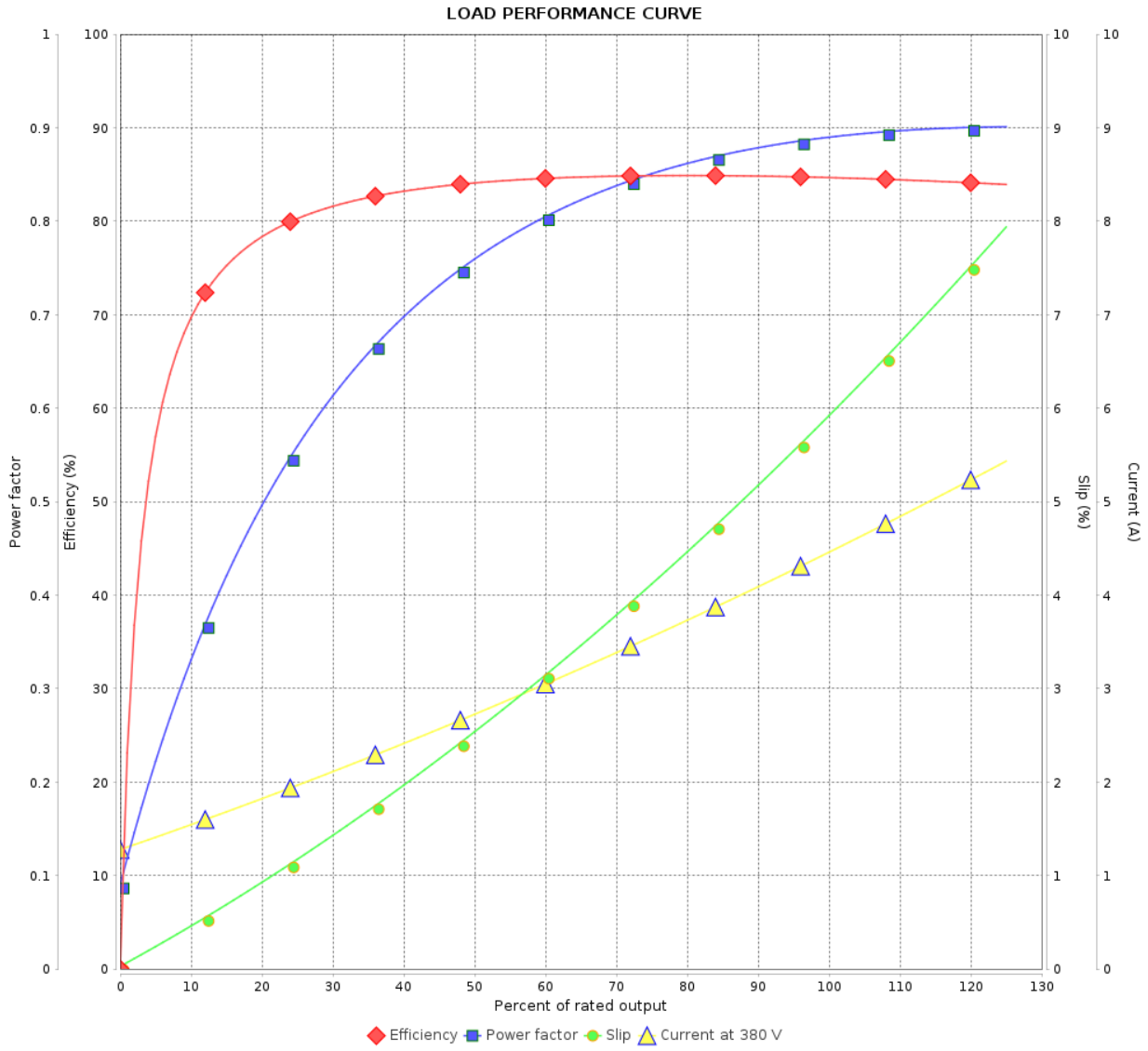
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11783909



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 4.44 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2820 rpm	Design	: B

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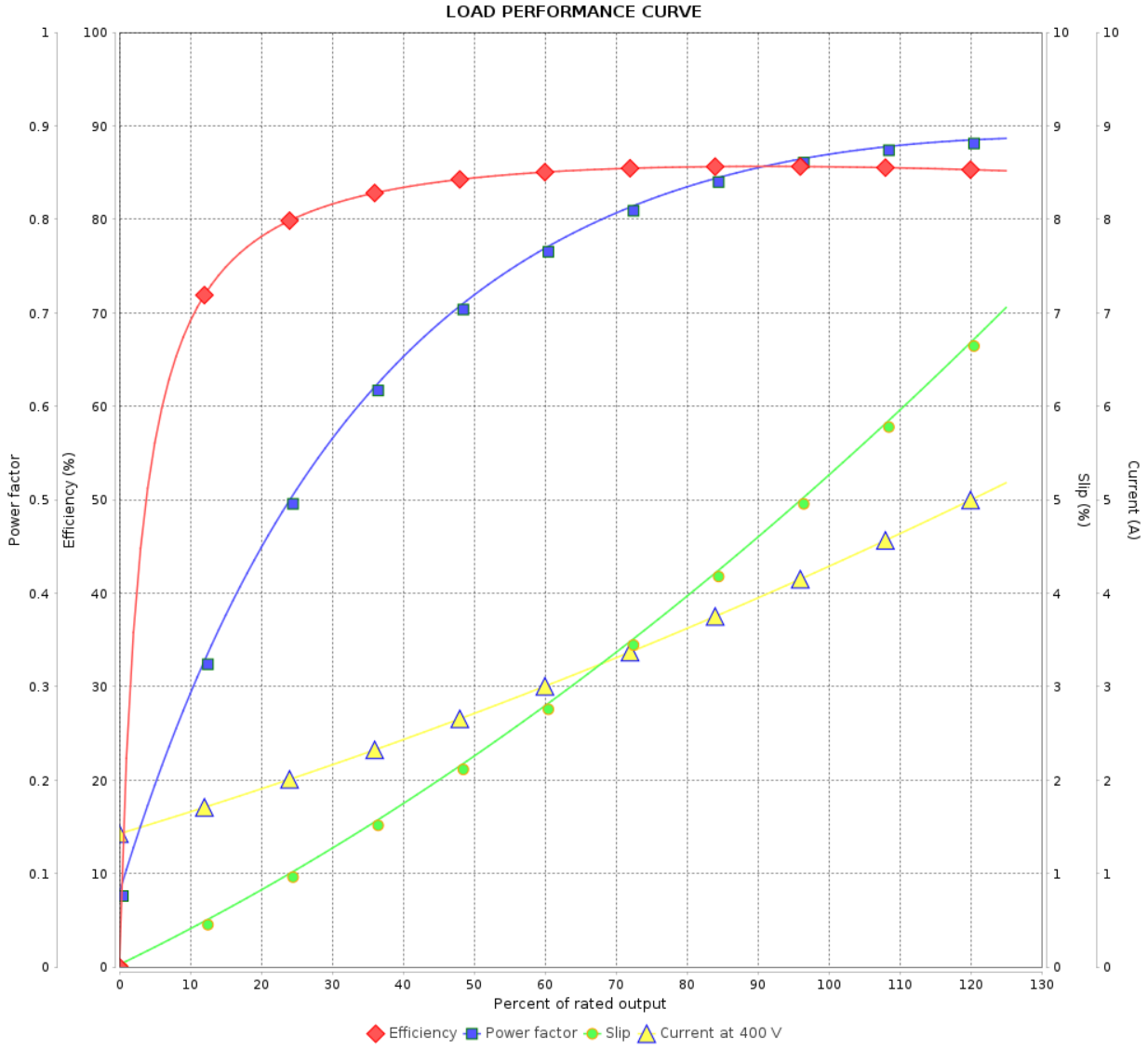
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11783909



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 4.26 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2840 rpm	Design	: B

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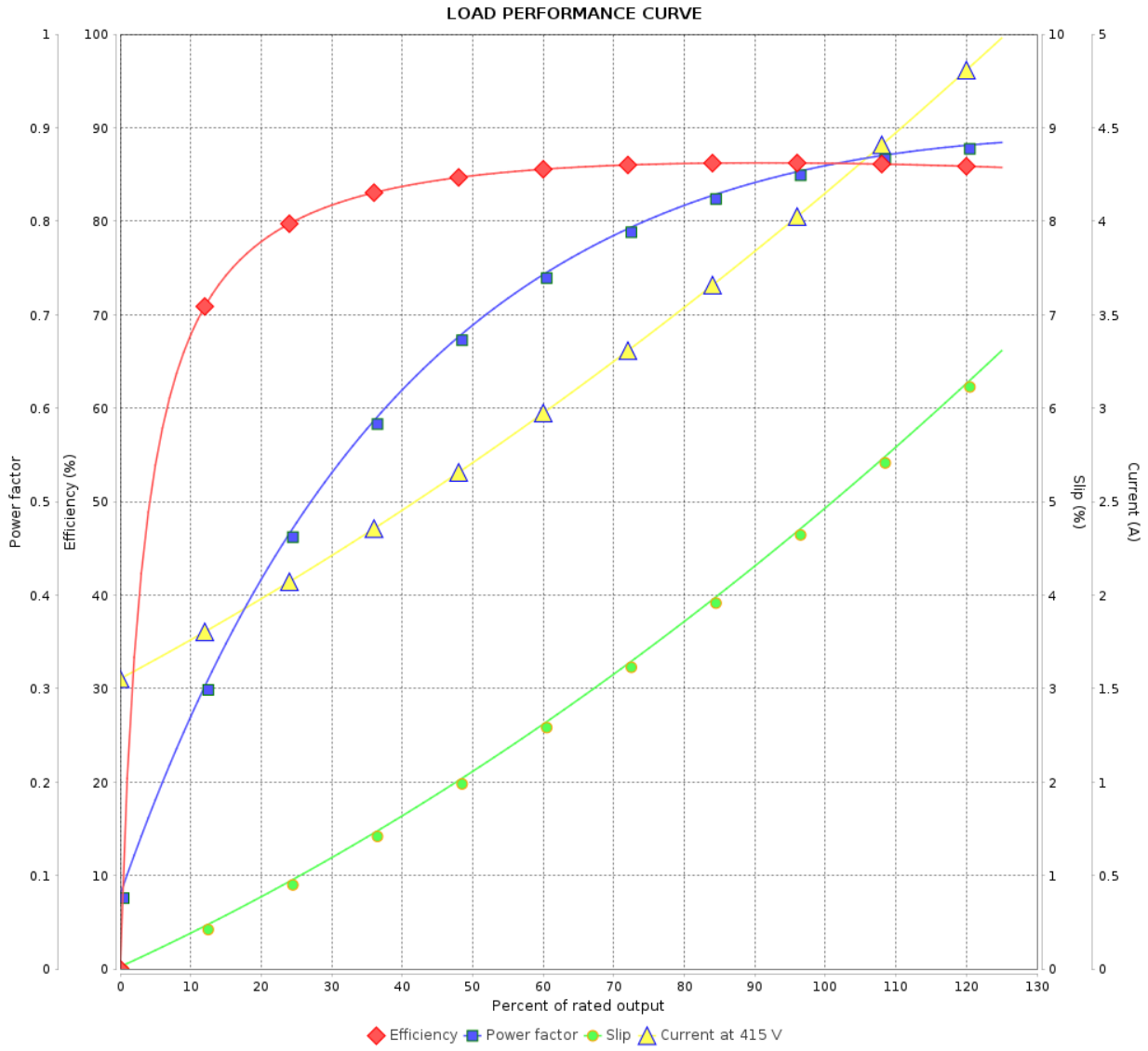
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11783909



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 4.13 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2850 rpm	Design	: B

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