DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11991851

Frame	: 182/4TC	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]	: 42.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0095 kgm²
Design	: A		

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	7.84	7.62	7.47	10.9	10.3	10.0
L. R. Amperes [A]		144/71.8	65.1	69.3	71.7	68.7	72.1	74.0
LRC [A]		8.2x(Code J)	8.3x(Code J)	9.1x(Code K)	9.6x(Code L)	6.3x(Code G)	7.0x(Code H)	7.4x(Code H)
No load current [A]		5.80/2.90	2.70	3.00	3.20	2.70	3.00	3.20
Rated speed [RPM]		3485	2900	2910	2915	2810	2840	2860
Slip [%]		3.19	3.33	3.00	2.83	6.33	5.33	4.67
Rated torque [kgfm]		1	1	1	1	1	1	1
Locked rotor torque [%]		270	310	350	370	220	250	270
Breakdown torque [%]		330	360	390	430	260	280	310
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level[2]		66.0 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%	88.5	85.5	85.9	86.2	87.0	87.5	88.0
	75%	89.5	87.0	87.6	88.1	87.0	88.0	88.5
	100%	89.5	88.1	88.1	88.7	84.5	86.0	87.0
Power Factor	25%							
	50%	0.75	0.70	0.66	0.63	0.80	0.77	0.74
	75%	0.84	0.82	0.79	0.77	0.88	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.91	0.90	0.88

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

Losses (%)	P1 (0,9;1,0)	11.4	11.4	11.4	11.4	11.4	11.4	11.4
	P2 (0,5;1,0)	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P3 (0,25;1,0)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P4 (0,9;0,5)	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	P5 (0,5;0,5)	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3	1.3

		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 : 100 kgf

Max. compression : 147 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.

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		1 / 9	

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		2 / 9	

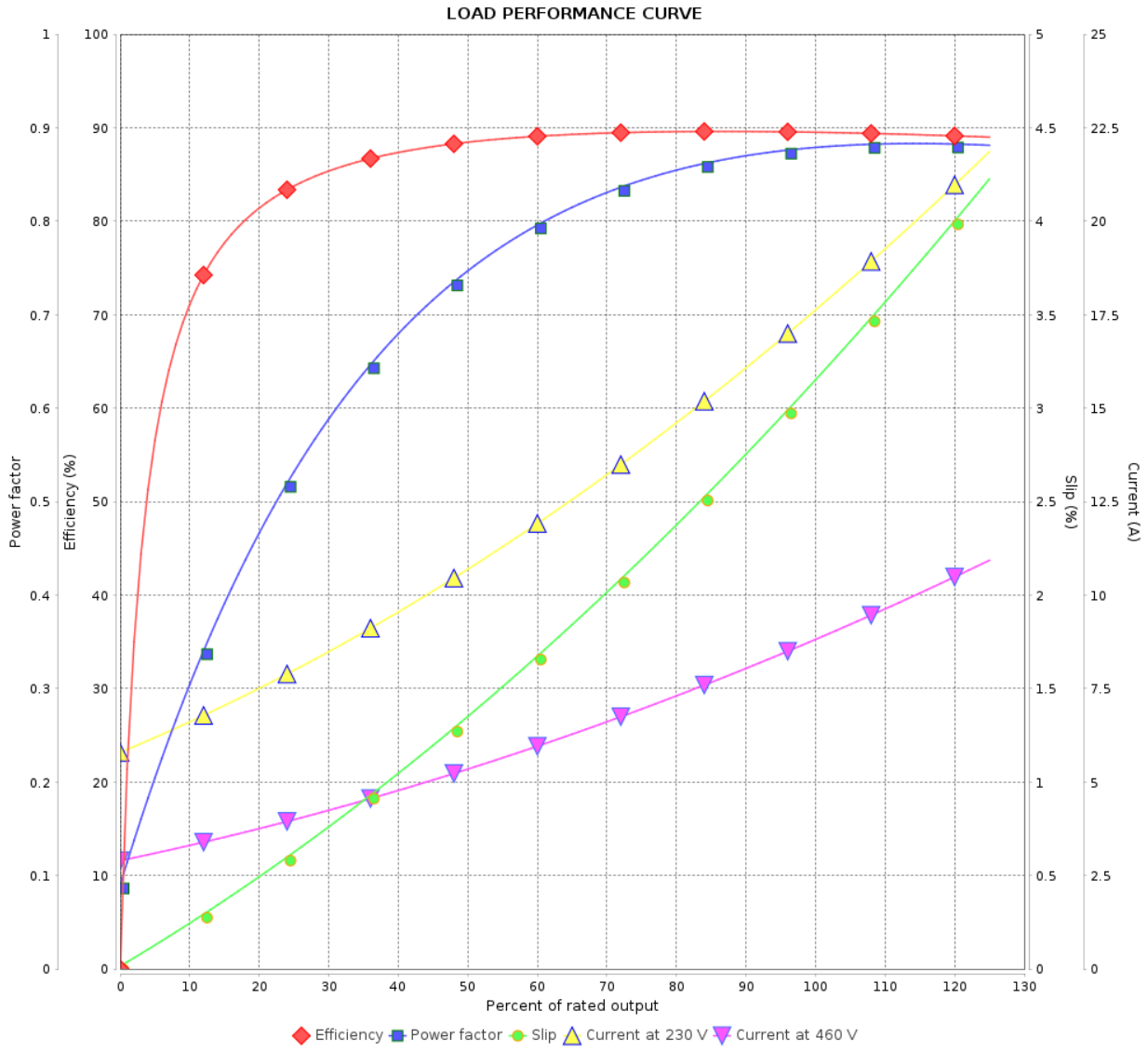
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11991851



Performance	: 230/460 V 60 Hz 2P

Rated current	: 17.5/8.76 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		3 / 9	

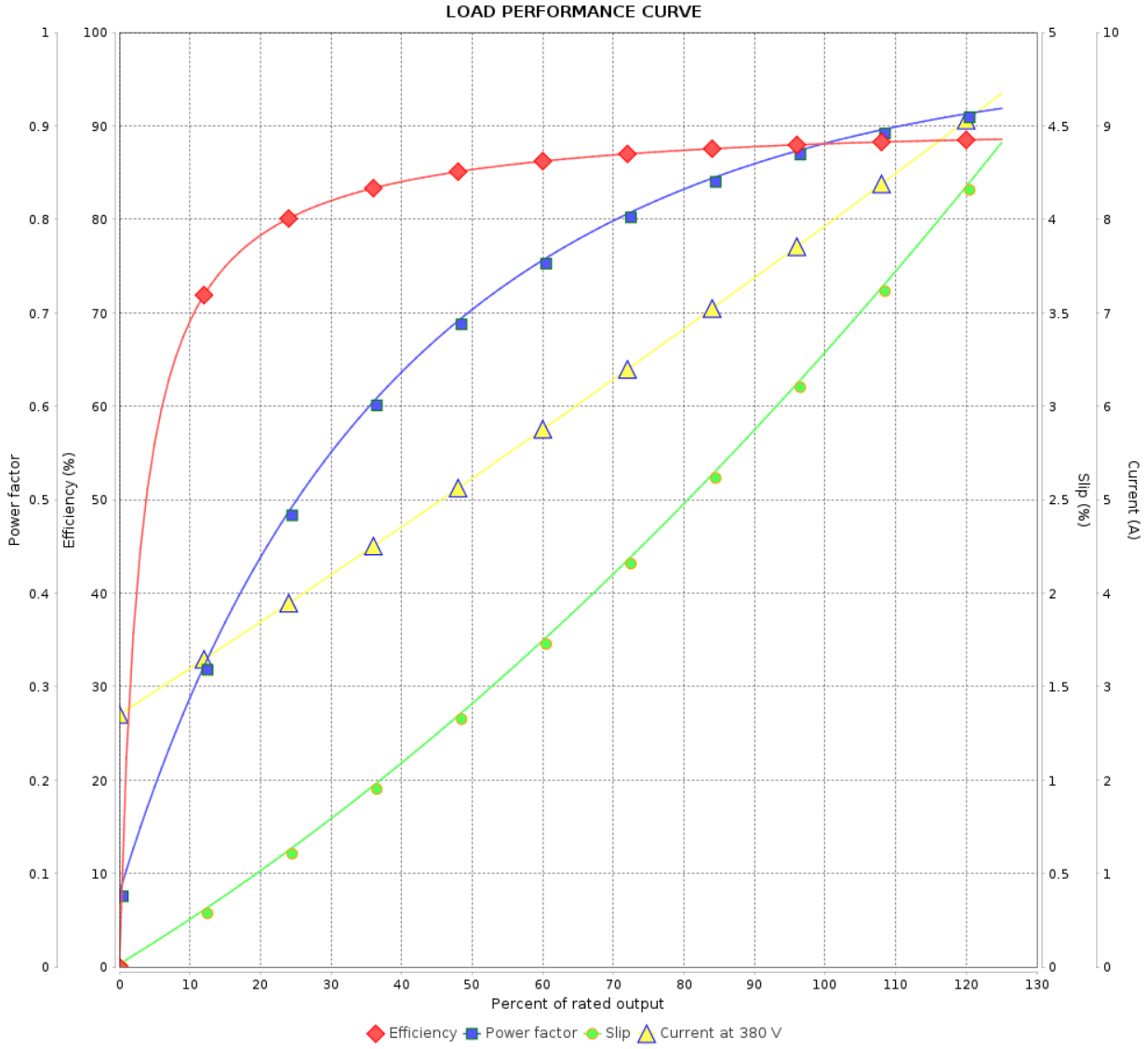
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11991851



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 7.84 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		4 / 9	

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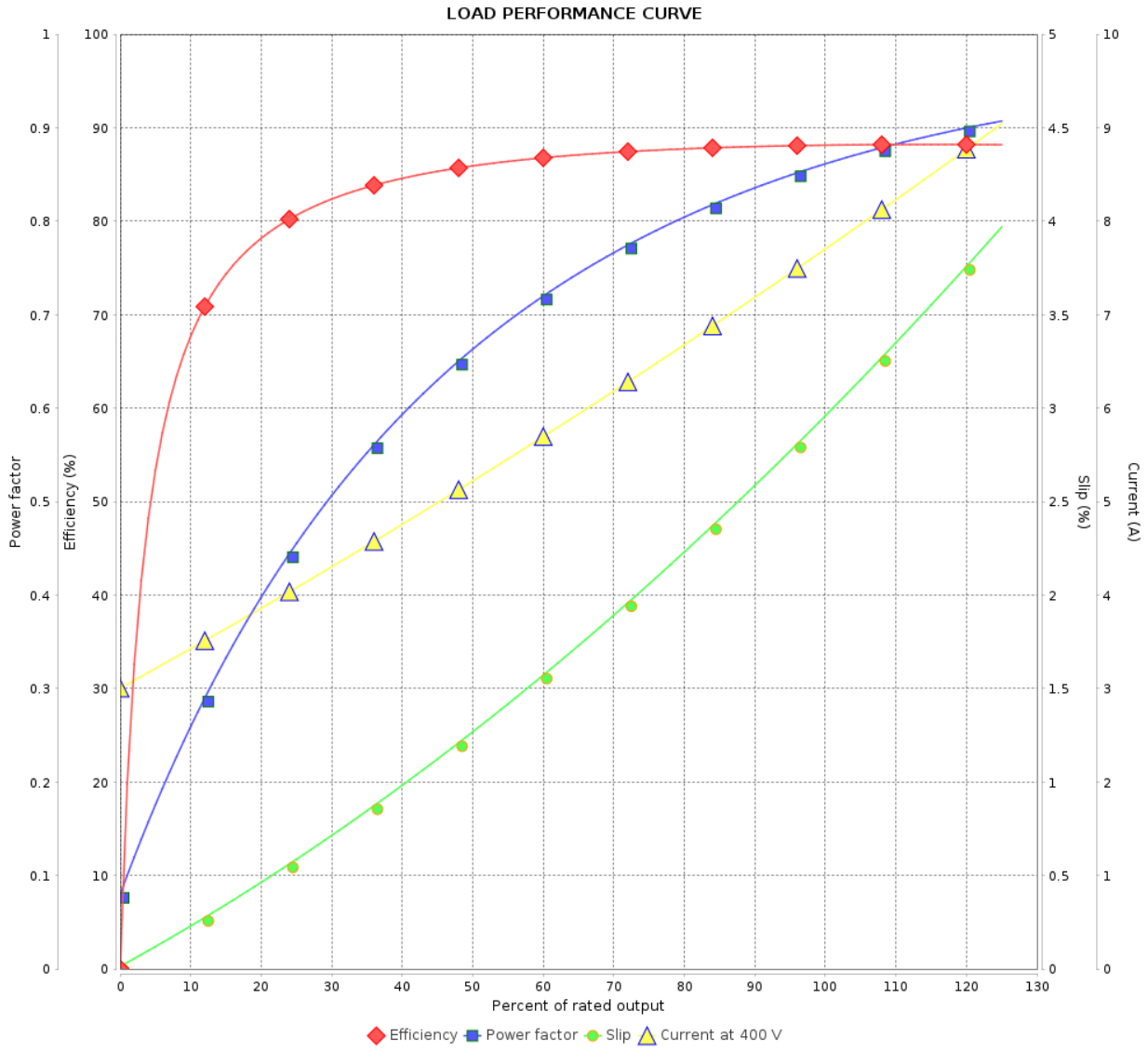
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11991851



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 7.62 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 9.1	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		5 / 9	

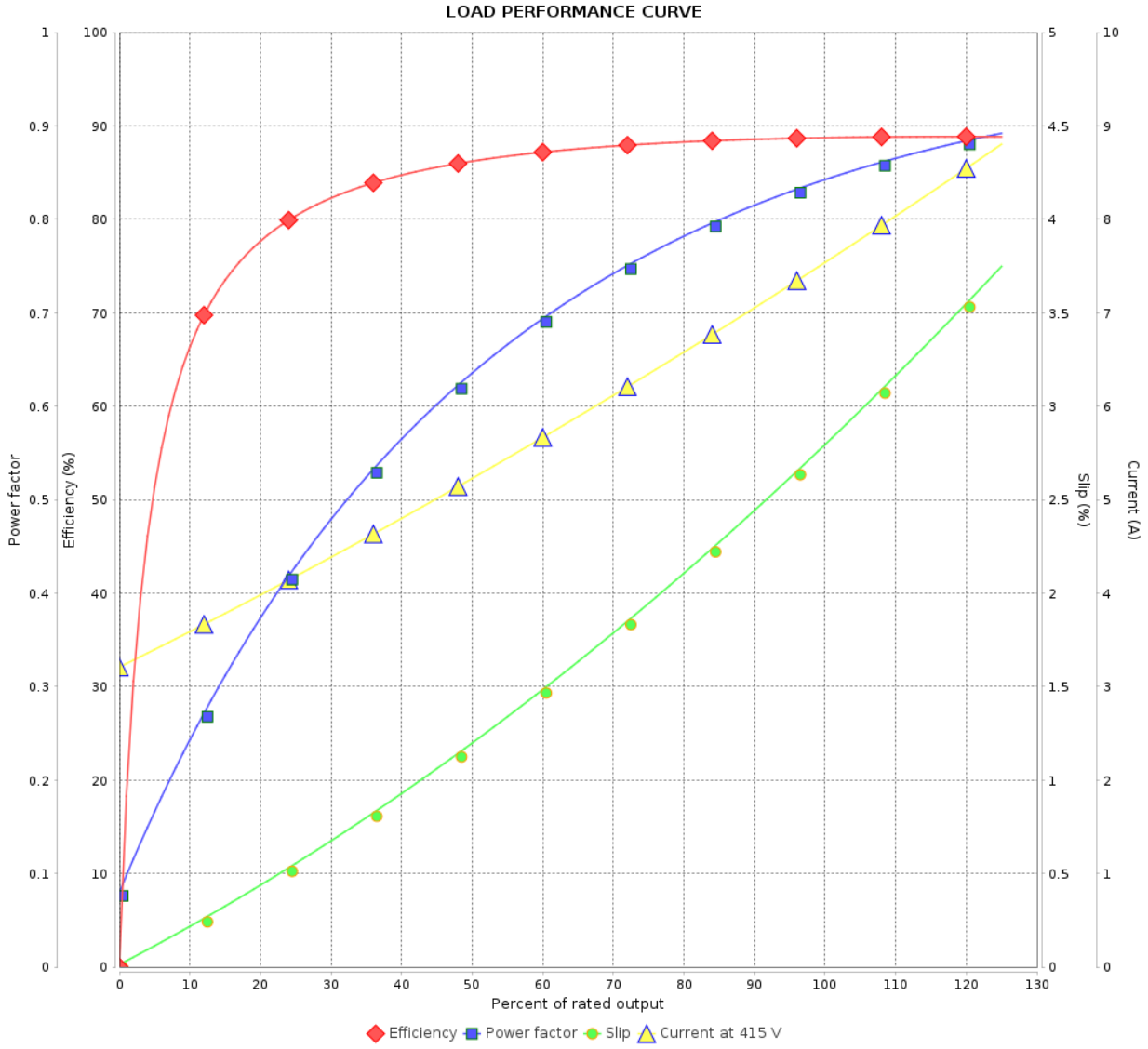
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11991851



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 7.47 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 9.6	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.00
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		6 / 9	

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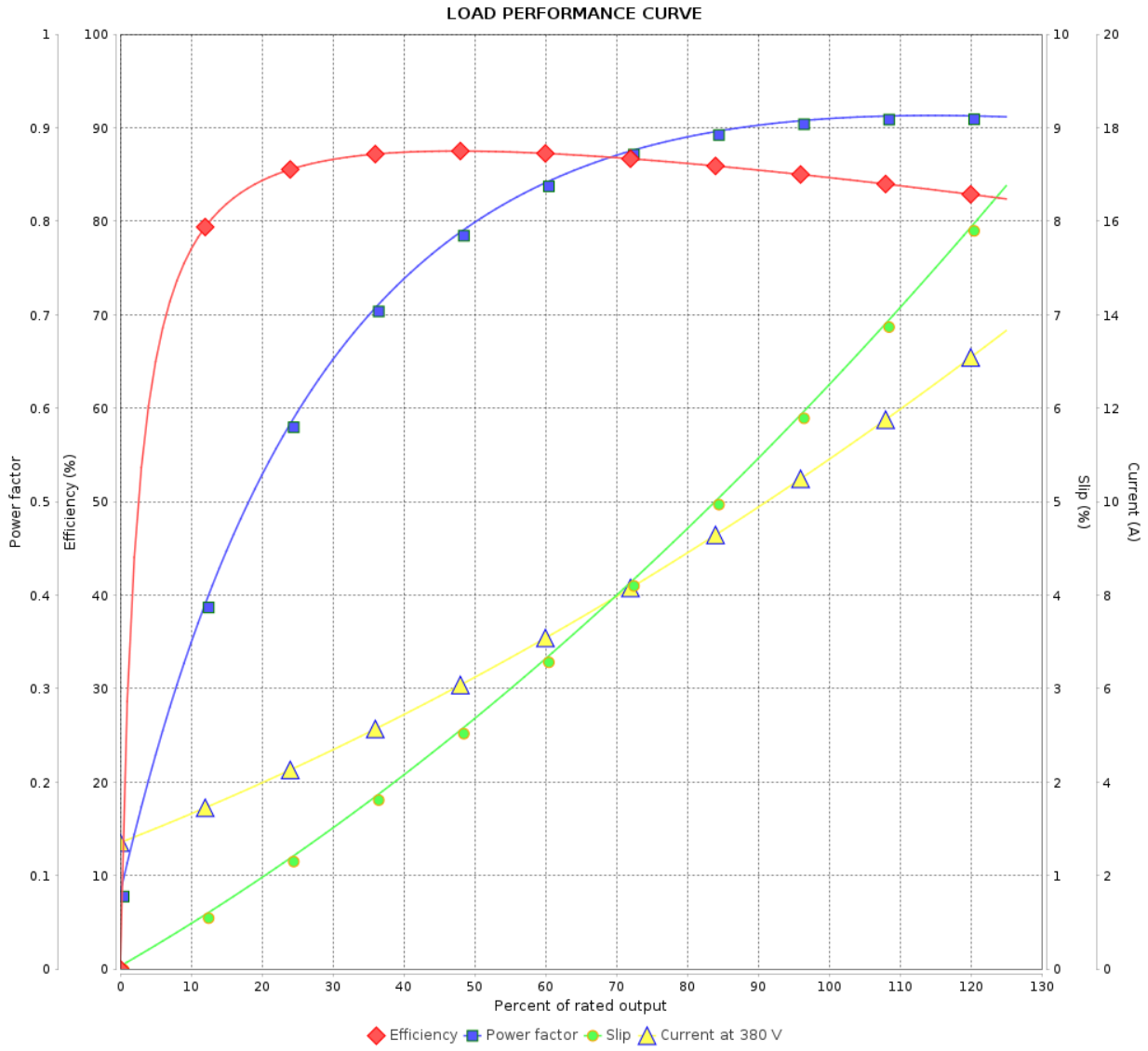
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11991851



Performance	: 380 V 50 Hz 2P		
Rated current	: 10.9 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2810 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		7 / 9	

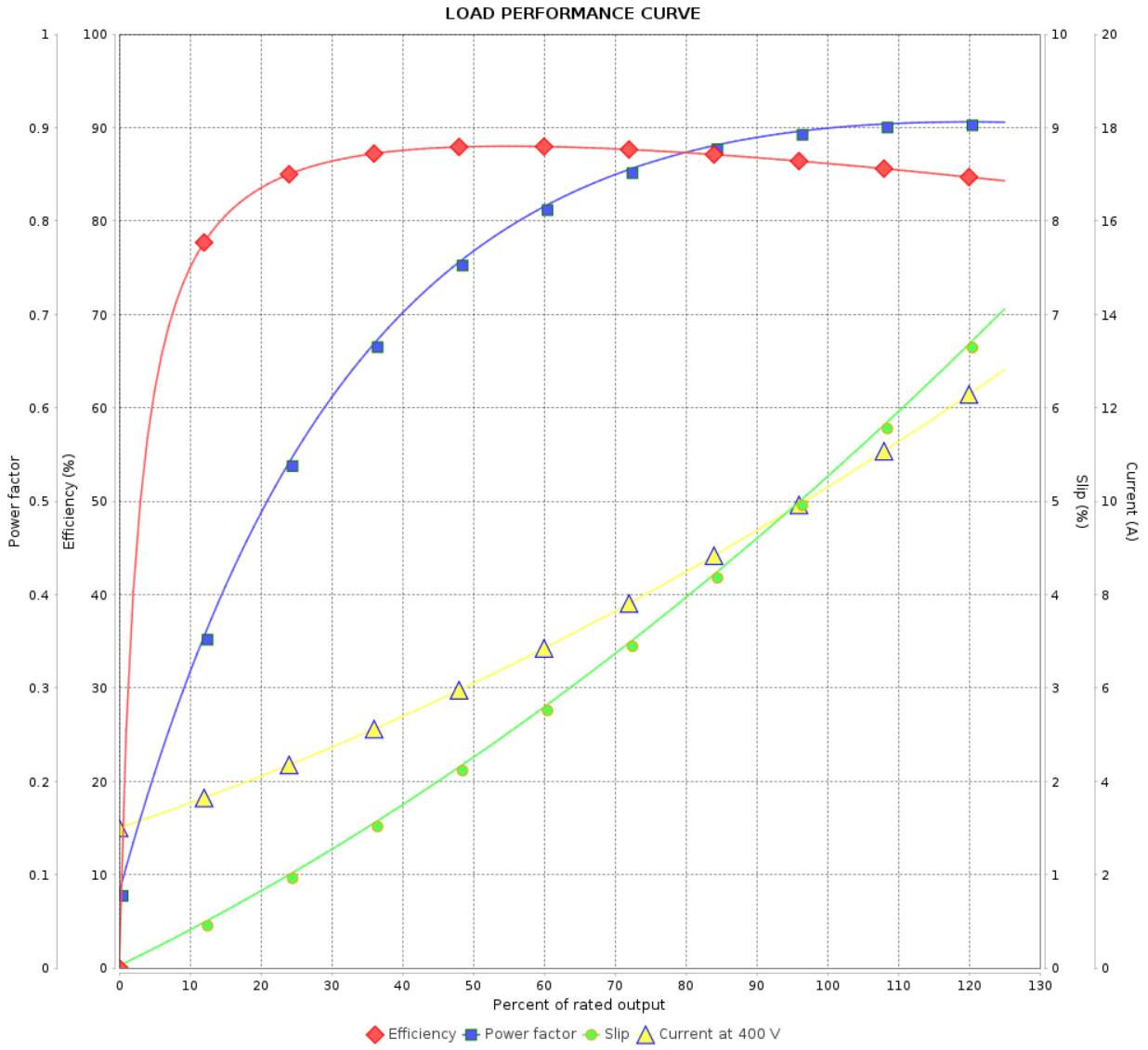
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11991851



Performance	: 400 V 50 Hz 2P IE1

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2840 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		8 / 9	

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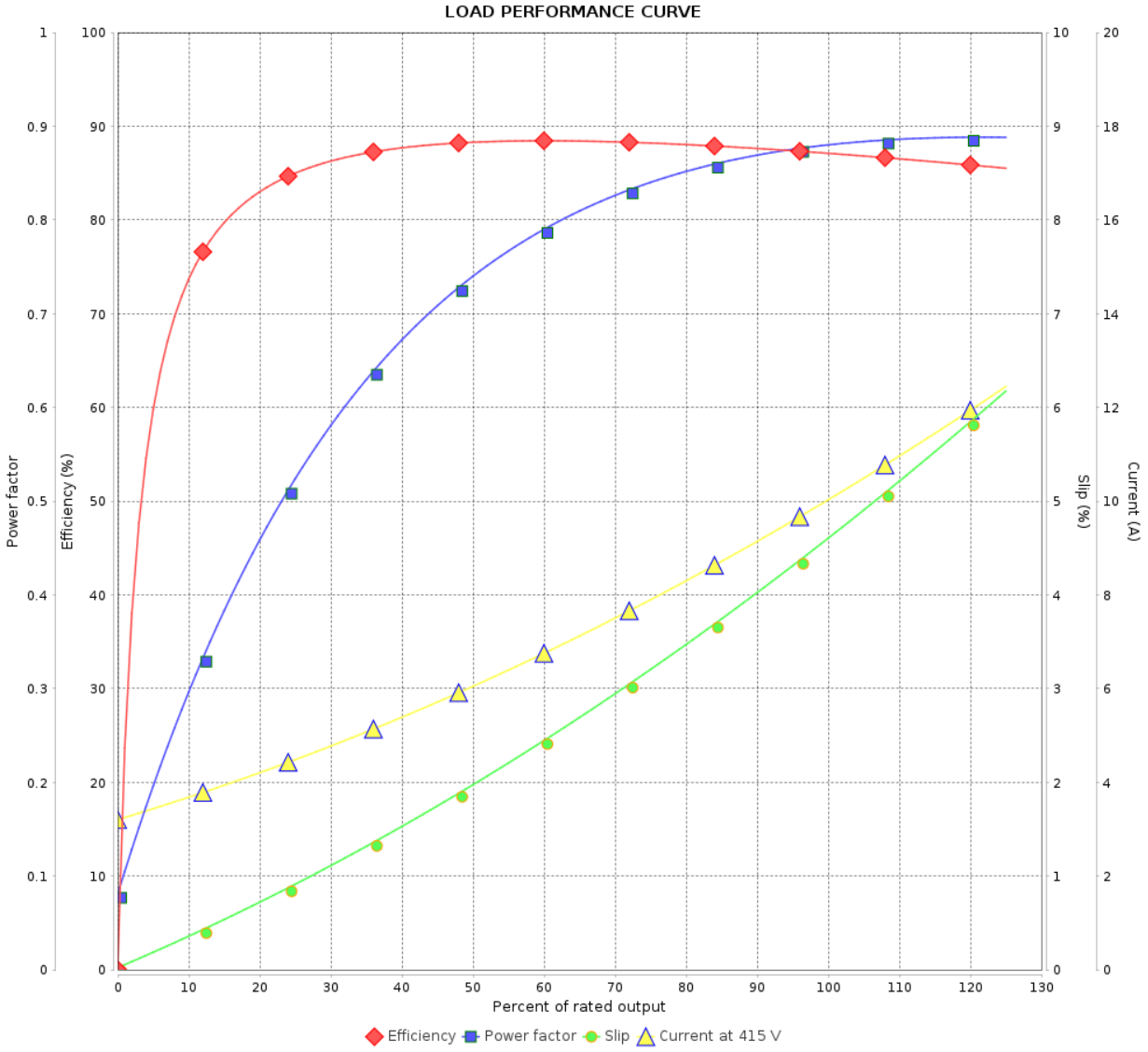
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11991851



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 10.0 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		9 / 9	

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