DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11415953

Frame	: 364/5TSC	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]	: 384 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5023 kgm²
Design	: B		

Output [HP]		75	60	60	60	75	75	75
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]		164/81.9	80.8	78.5	75.7	100	94.8	91.4
L. R. Amperes [A]		1097/549	525	557	598	520	559	594
LRC [A]		6.7x(Code G)	6.5x(Code G)	7.1x(Code H)	7.9x(Code J)	5.2x(Code E)	5.9x(Code F)	6.5x(Code G)
No load current [A]		36.0/18.0	19.0	20.0	21.5	19.0	20.0	21.5
Rated speed [RPM]		3555	2955	2960	2965	2930	2945	2950
Slip [%]		1.25	1.50	1.33	1.17	2.33	1.83	1.67
Rated torque [kgfm]		15	14	14	14	18	18	18
Locked rotor torque [%]		200	210	229	250	160	175	190
Breakdown torque [%]		250	260	390	310	200	220	240
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	105 K	105 K	105 K
Locked rotor time		18s (cold) 10s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level[2]		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
Efficiency (%)	25%							
	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
	75%	93.6	92.5	93.0	93.1	93.0	93.0	93.6
	100%	93.6	94.0	94.0	94.0	92.4	93.0	93.0
Power Factor	25%							
	50%	0.83	0.75	0.72	0.70	0.86	0.84	0.83
	75%	0.88	0.85	0.83	0.82	0.89	0.89	0.88
	100%	0.90	0.90	0.88	0.88	0.90	0.90	0.90

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

Losses (%)	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P4 (0,9;0,5)	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	Oil Seal	Oil Seal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 303 kgf

Max. compression : 691 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	28/09/2026		1 / 9	

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 181A SF 1.10 SFA 199A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		2 / 9	

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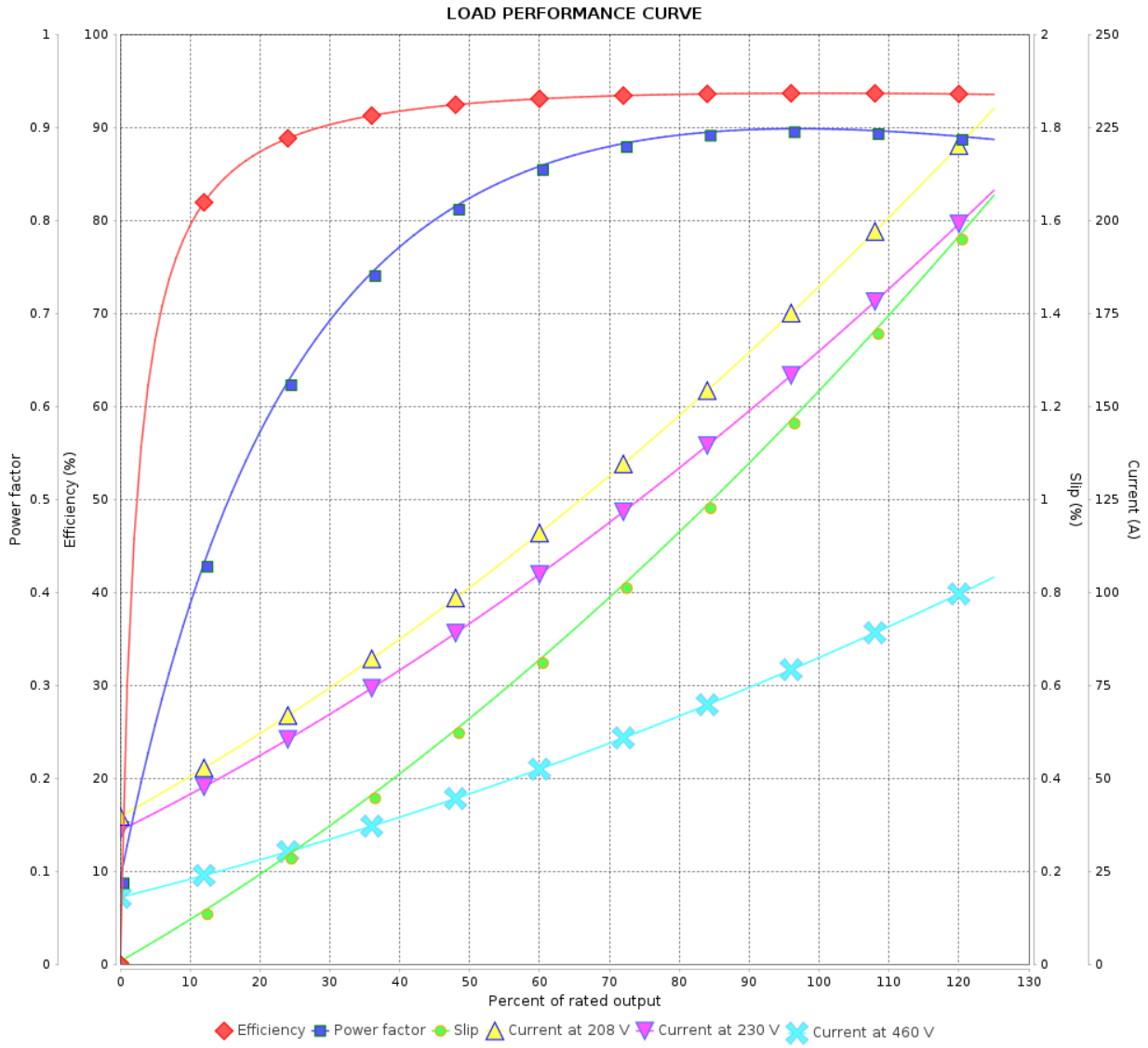
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11415953



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 164/81.9 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 15 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		3 / 9	

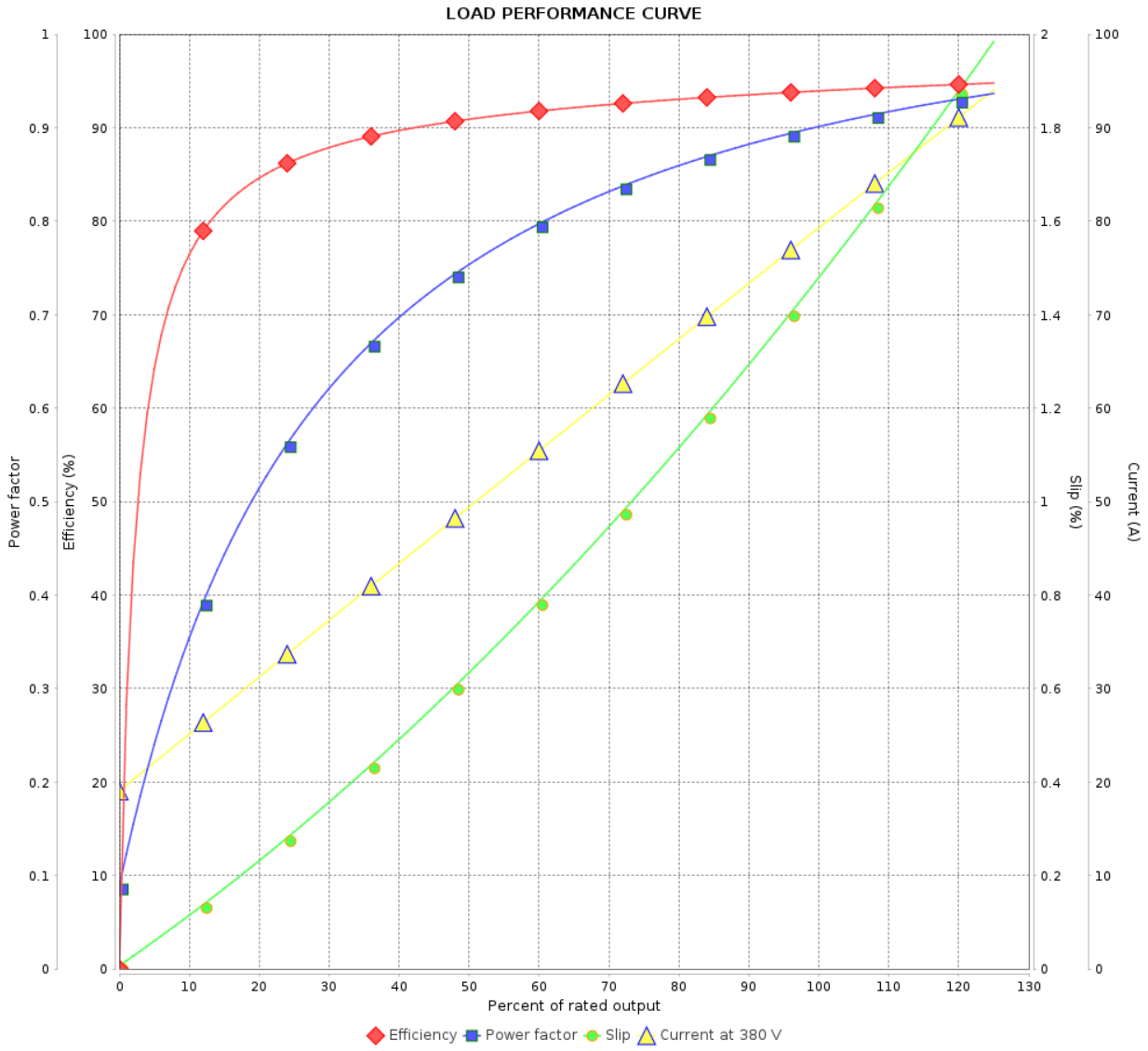
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11415953



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 80.8 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 14 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		4 / 9	

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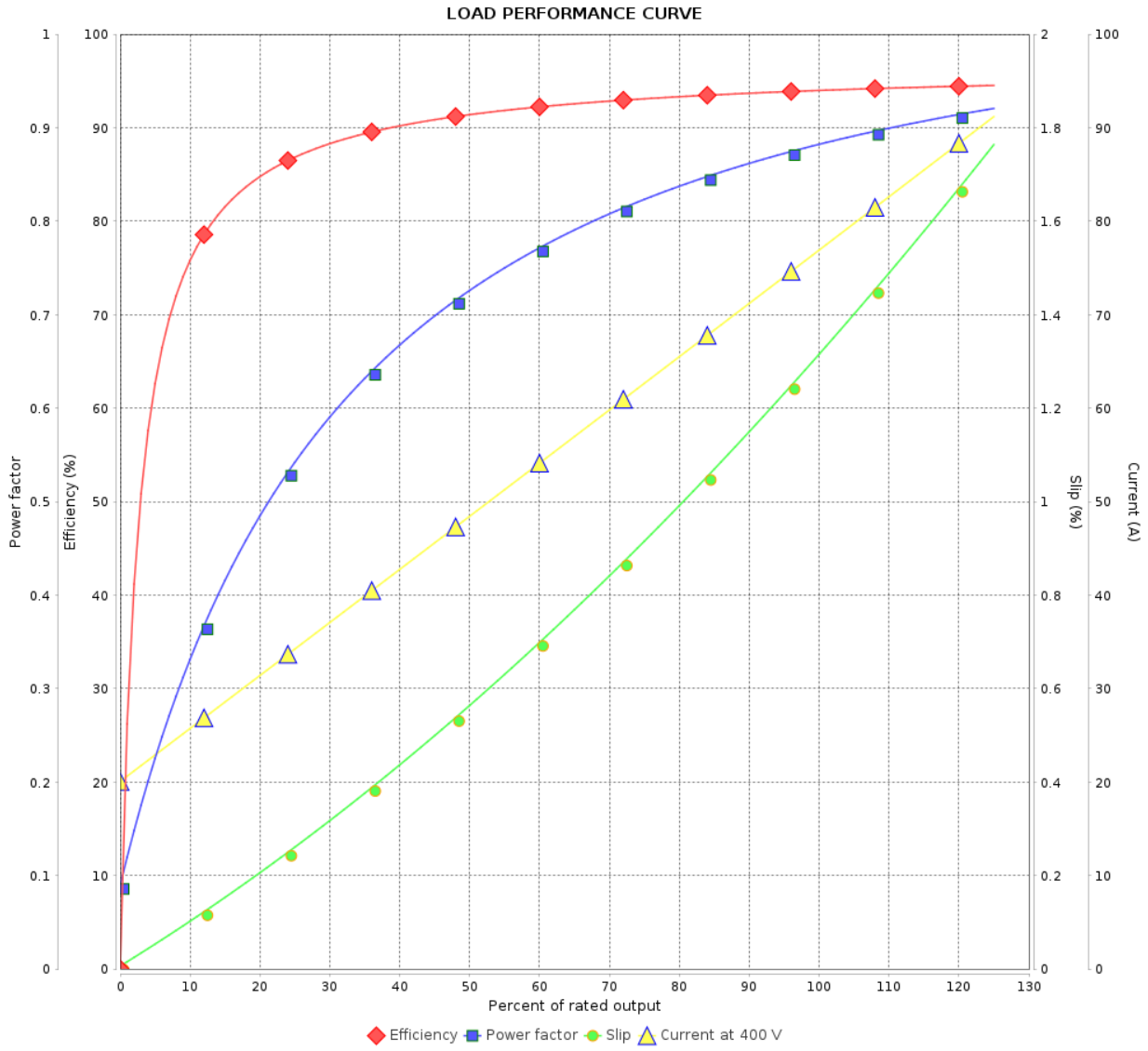
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11415953



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 78.5 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 14 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		5 / 9	

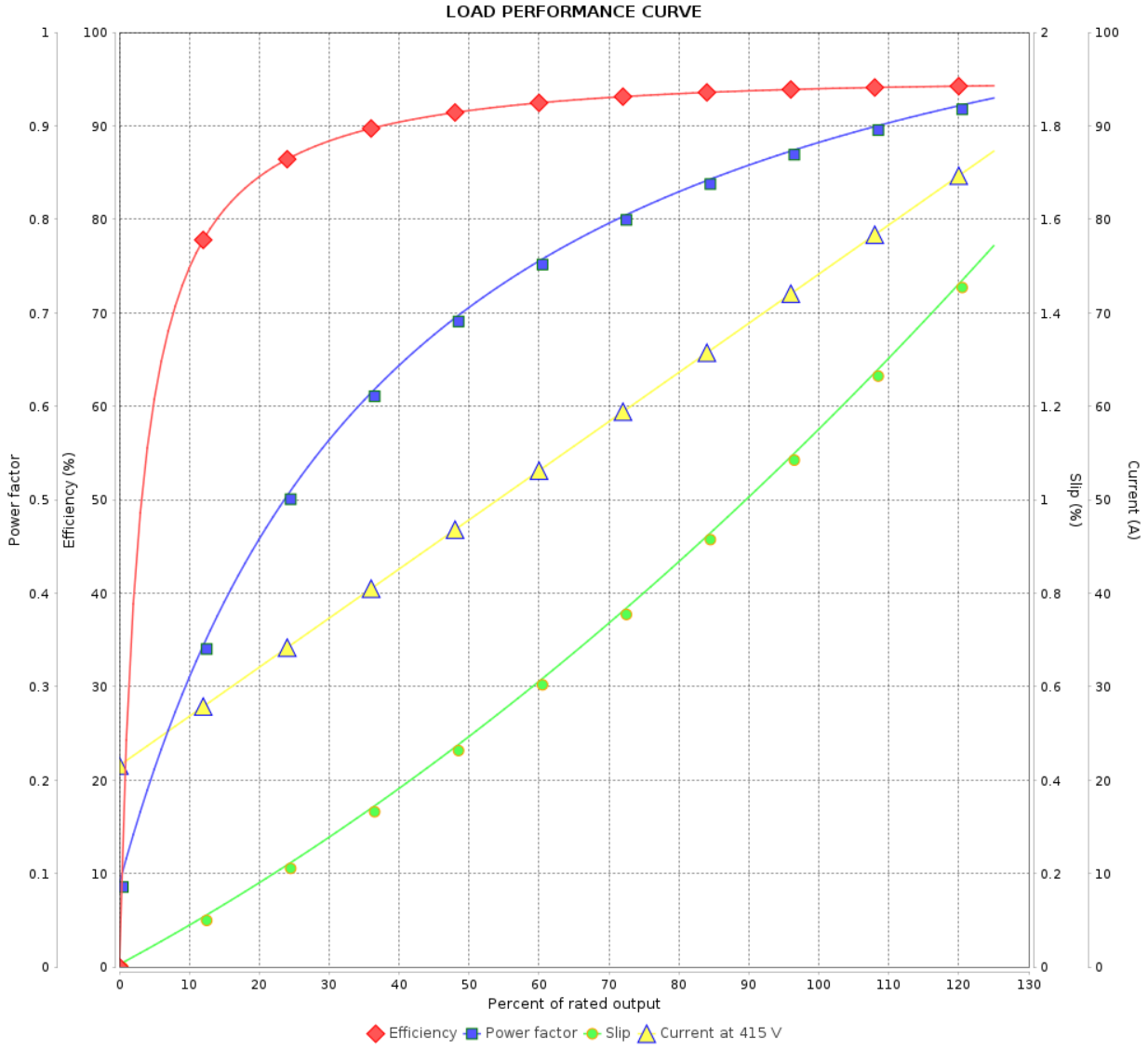
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11415953



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 75.7 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 14 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		6 / 9	

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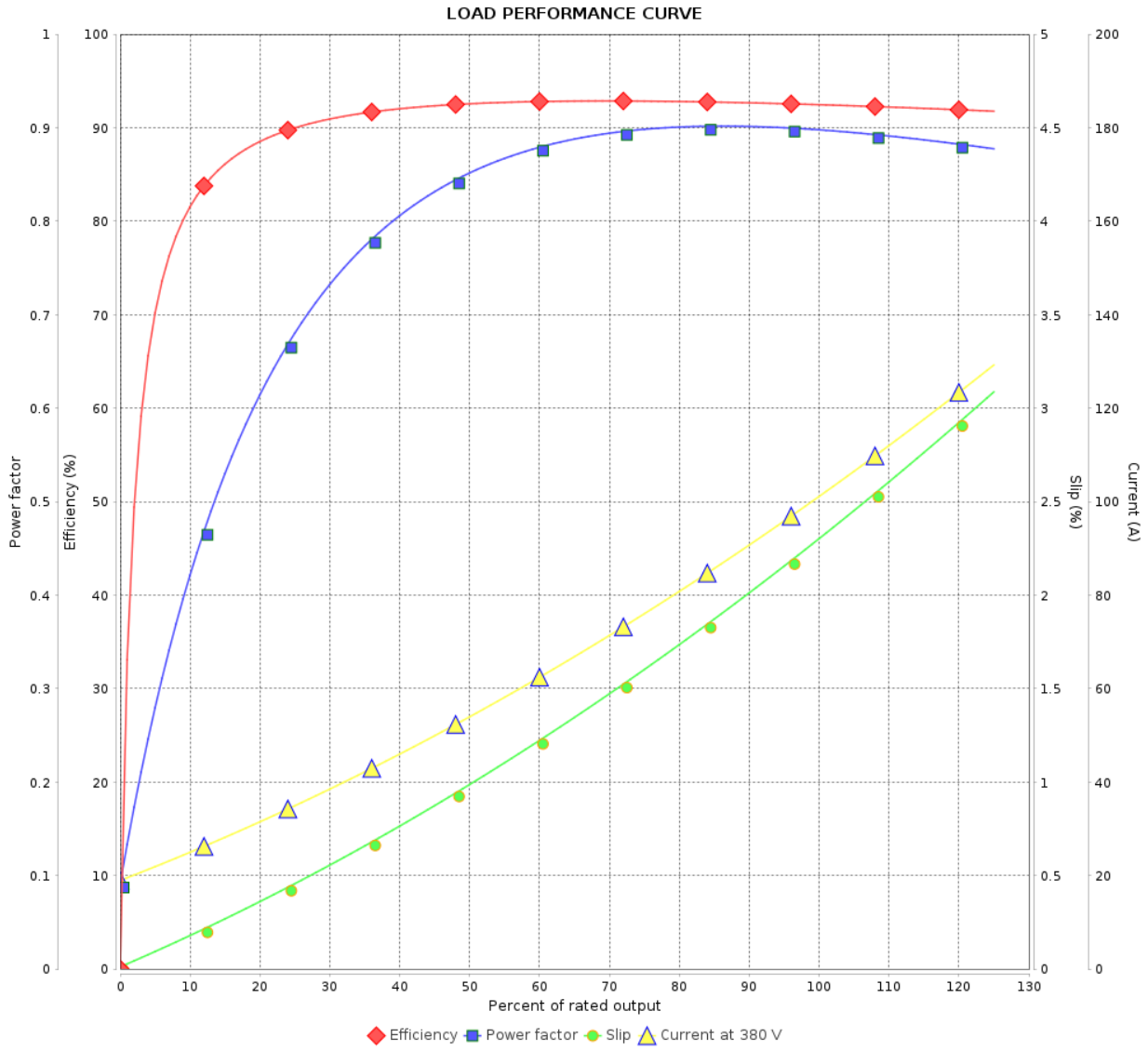
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11415953



Performance	: 380 V 50 Hz 2P IE1		
Rated current	: 100 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 18 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

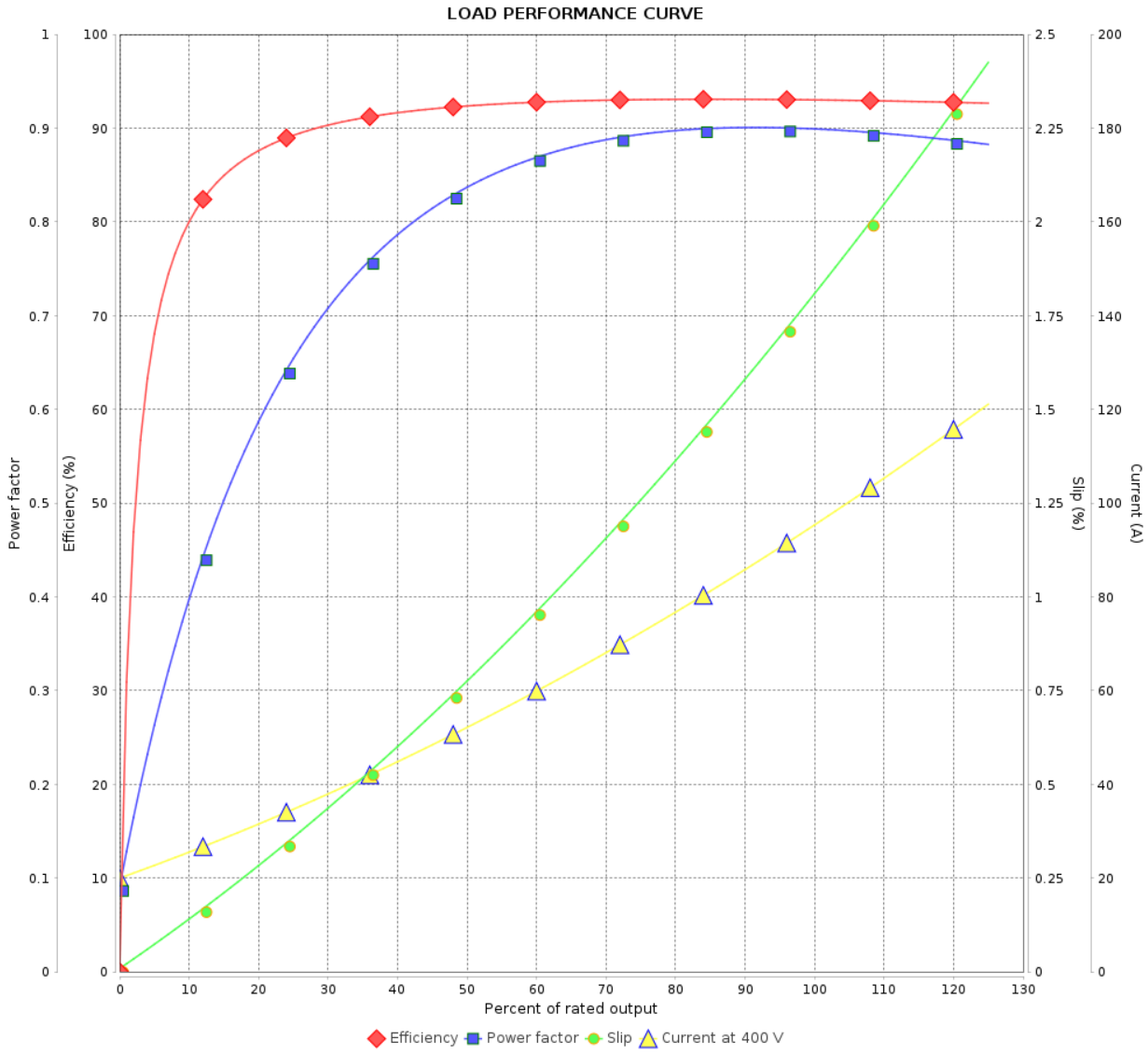
Performed by				
Checked by			Page	Revision
Date	28/09/2026		7 / 9	

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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 NEMA Premium Efficiency Three-Phase
Product code :	11415953



Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 94.8 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 18 kgfm	Insulation class	: F
Locked rotor torque	: 175 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		8 / 9	

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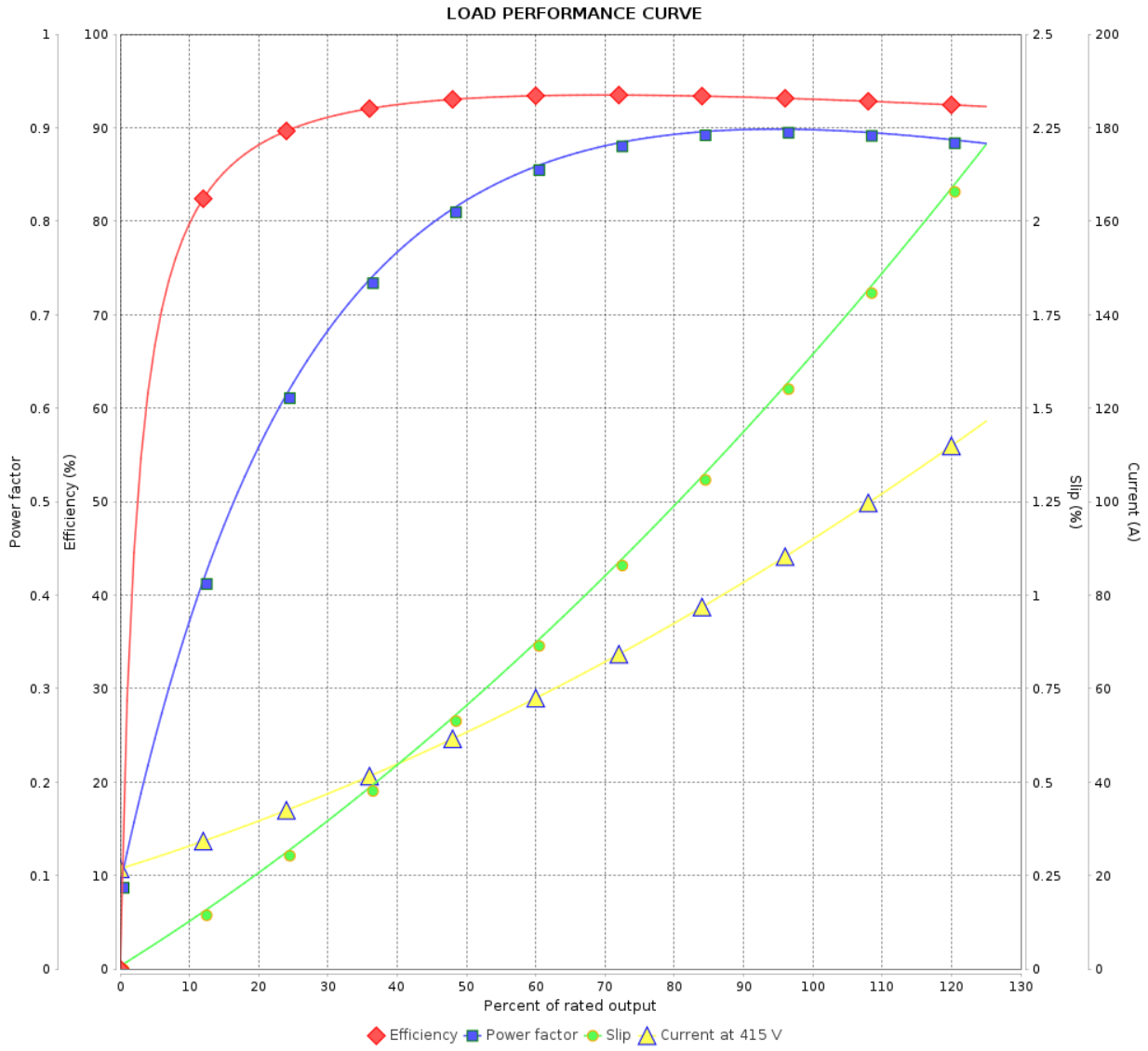
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11415953



Performance	: 415 V 50 Hz 2P IE1		
Rated current	: 91.4 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 18 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	28/09/2026		9 / 9	

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