DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447101

Frame	: 284/6TSC	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]	: 164 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1135 kgm²
Design	: B		

Output [HP]		25	20	20	20	25	25	25
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]		58.2/29.1	28.2	27.1	26.4	35.7	33.6	32.5
L. R. Amperes [A]		367/183	175	187	198	175	185	202
LRC [A]		6.3x(Code G)	6.2x(Code G)	6.9x(Code H)	7.5x(Code J)	4.9x(Code E)	5.5x(Code F)	6.2x(Code G)
No load current [A]		17.2/8.60	8.10	9.00	9.50	8.10	9.00	9.50
Rated speed [RPM]		3550	2945	2955	2960	2925	2930	2940
Slip [%]		1.39	1.83	1.50	1.33	2.50	2.33	2.00
Rated torque [kgfm]		5	4	4	4	6	6	6
Locked rotor torque [%]		200	200	229	240	160	180	190
Breakdown torque [%]		229	220	240	260	170	190	210
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		30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level[2]		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%	0.000						
	50%	91.0	90.2	90.3	89.8	91.0	91.0	91.0
	75%	91.7	90.7	91.1	91.1	90.2	91.0	91.0
	100%	91.7	91.9	91.9	91.9	89.5	90.2	91.0
Power Factor	25%	0.00						
	50%	0.77	0.79	0.76	0.73	0.82	0.80	0.78
	75%	0.84	0.85	0.84	0.82	0.87	0.86	0.85
	100%	0.87	0.88	0.87	0.86	0.88	0.88	0.87

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

Losses (%)	P1 (0,9;1,0)	8.6	8.4	8.4	8.4	11.2	10.4	9.4
	P2 (0,5;1,0)	6.8	6.6	6.6	6.6	8.8	8.1	7.4
	P3 (0,25;1,0)	5.9	5.8	5.8	5.8	7.7	7.1	6.5
	P4 (0,9;0,5)	4.4	4.3	4.3	4.3	5.7	5.3	4.8
	P5 (0,5;0,5)	2.6	2.5	2.5	2.5	3.4	3.1	2.9
	P6 (0,5;0,25)	1.7	1.6	1.6	1.6	2.2	2.0	1.8
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0	1.3	1.2	1.1

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	14000 h	17000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 102 kgf

Max. compression : 268 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 63.0A SF 1.10 SFA 69.3A

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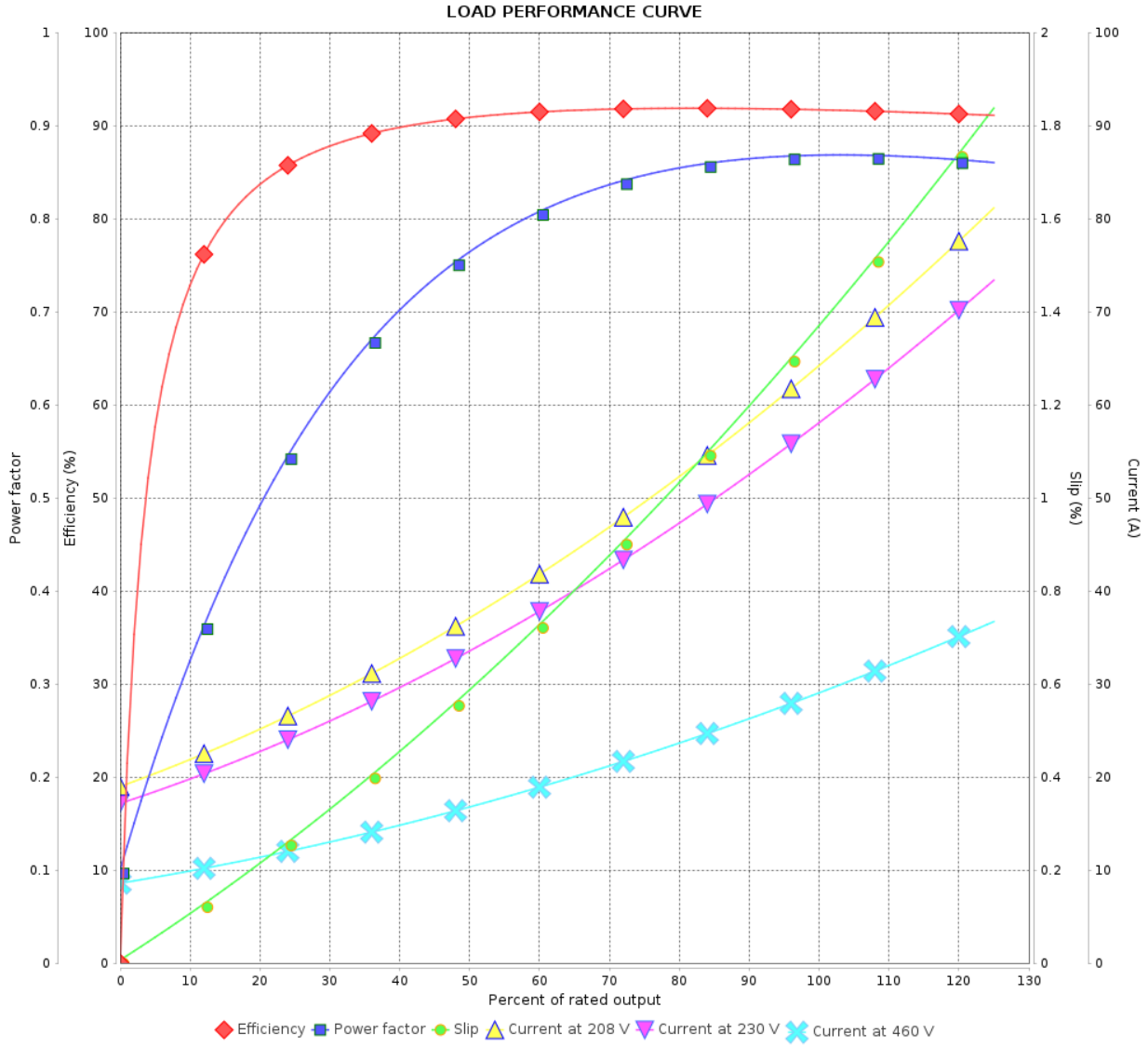
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447101



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 58.2/29.1 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 5 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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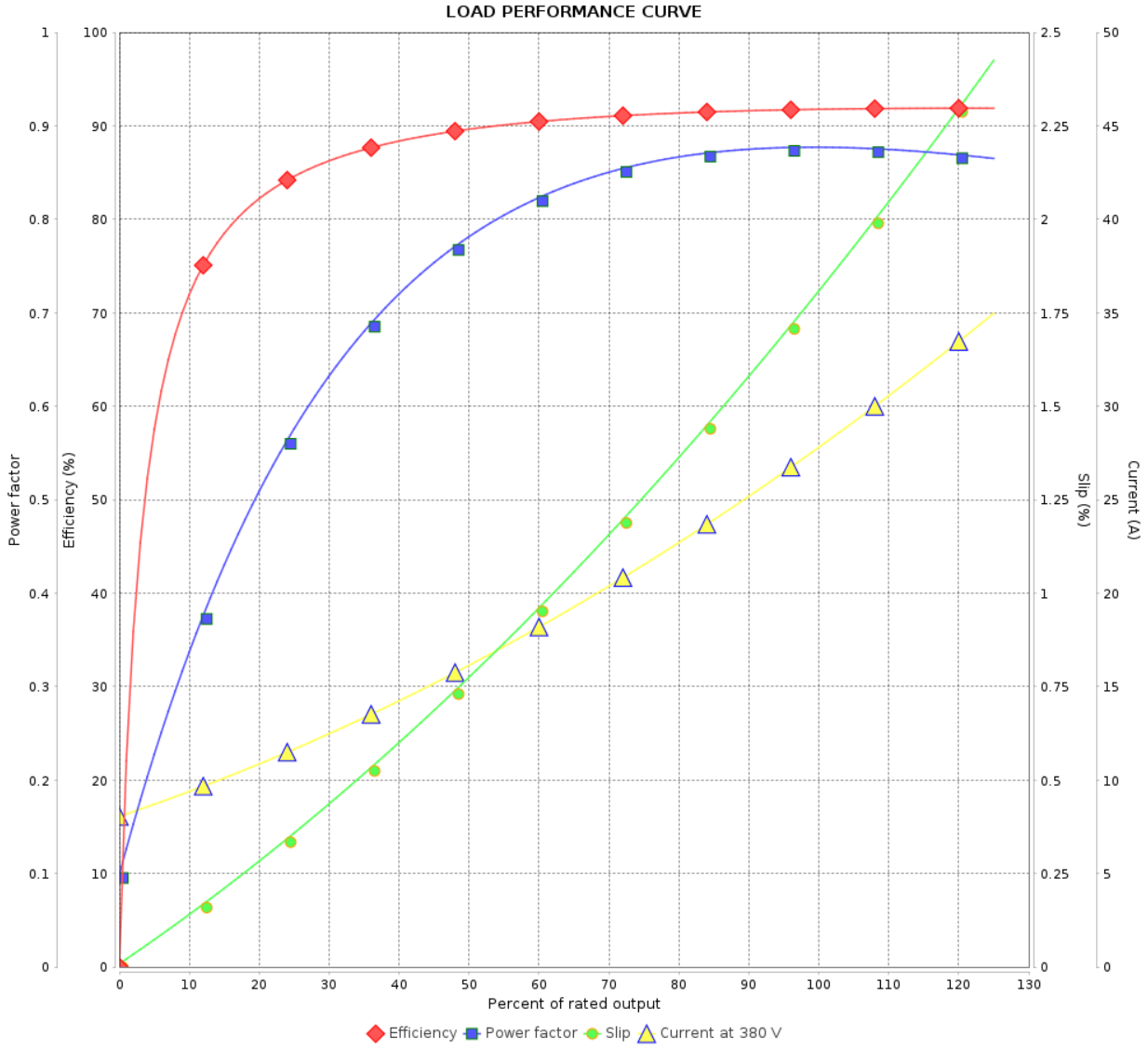
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12447101



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 28.2 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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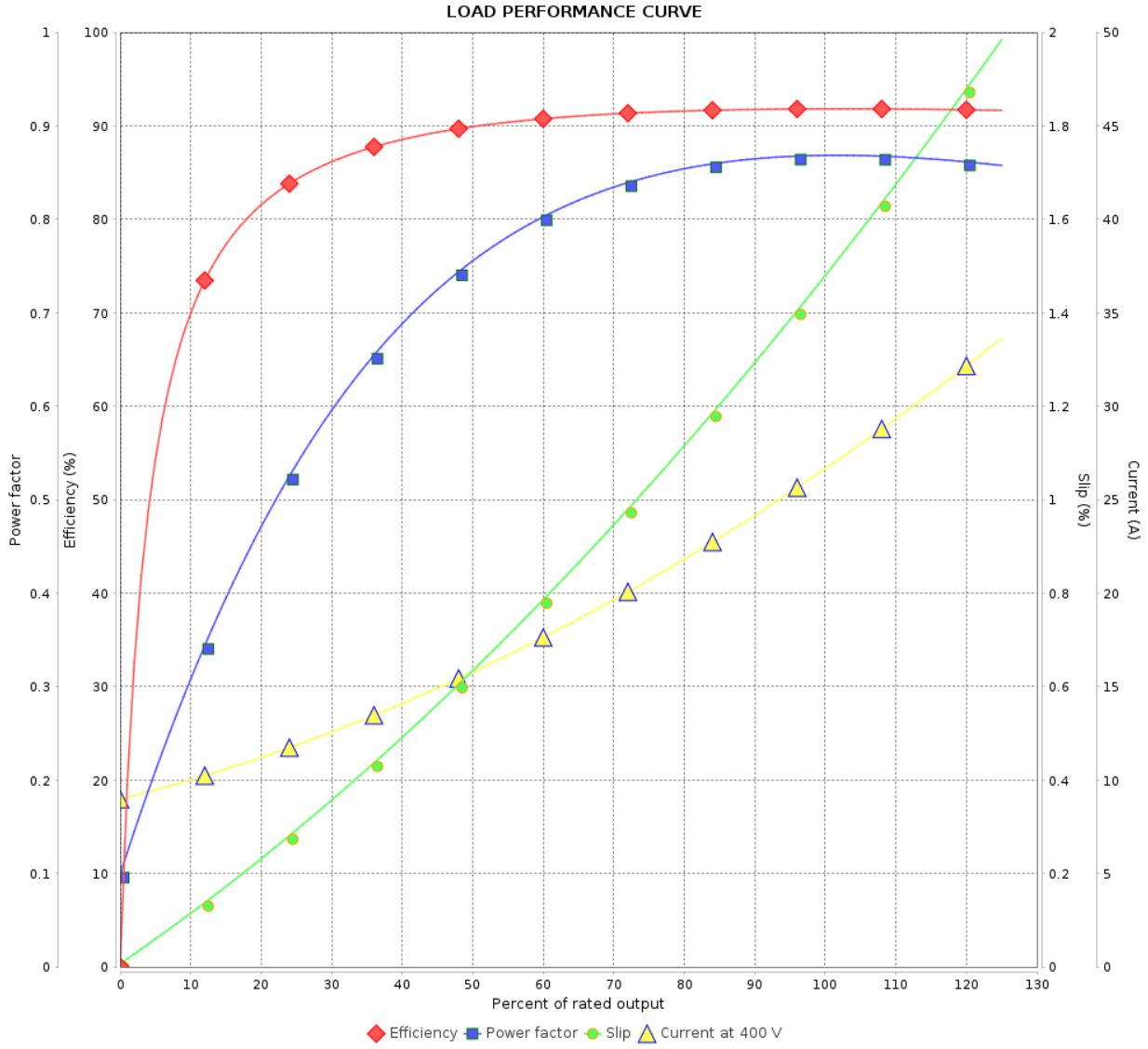
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447101



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 27.1 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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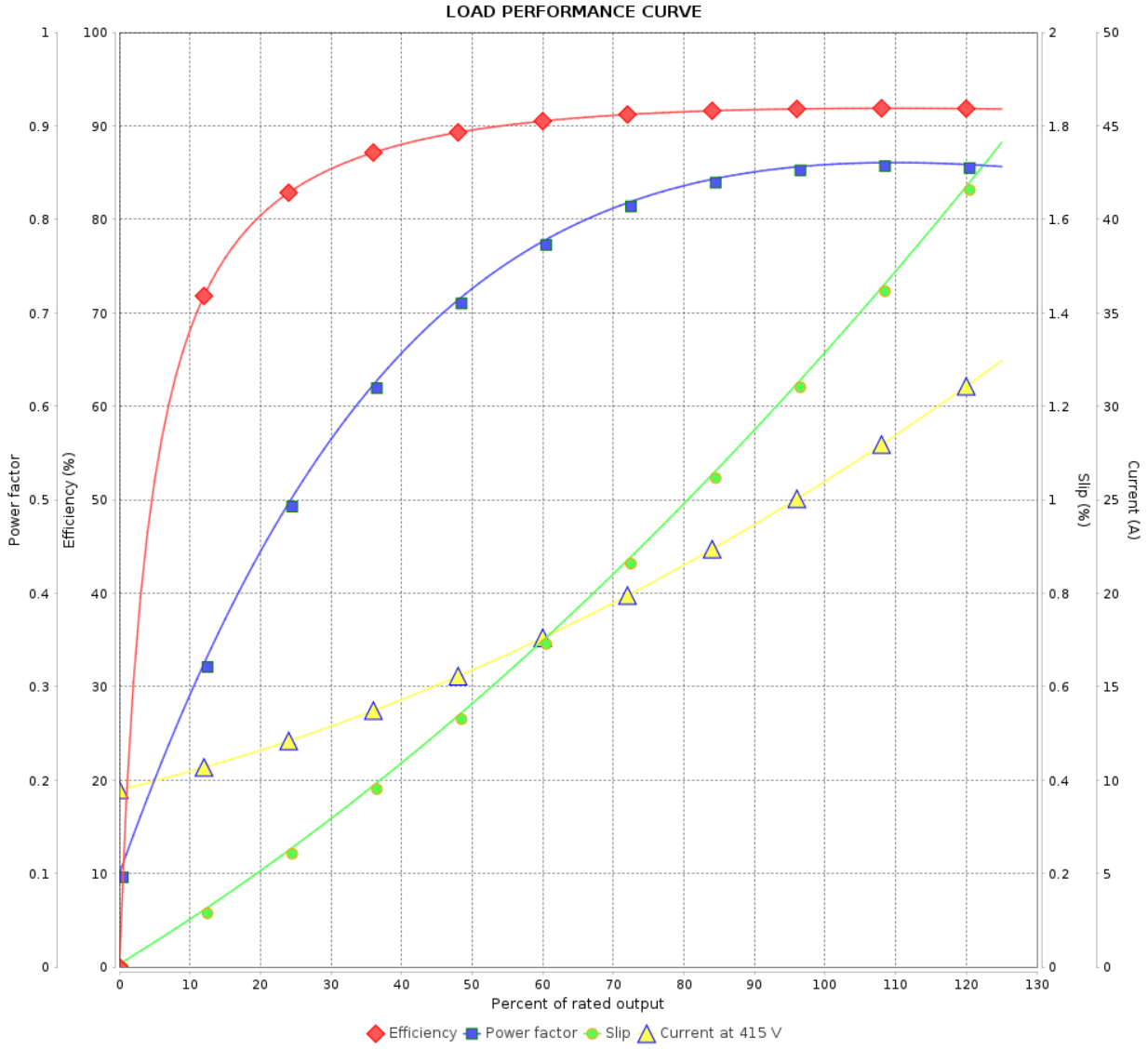
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12447101



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 26.4 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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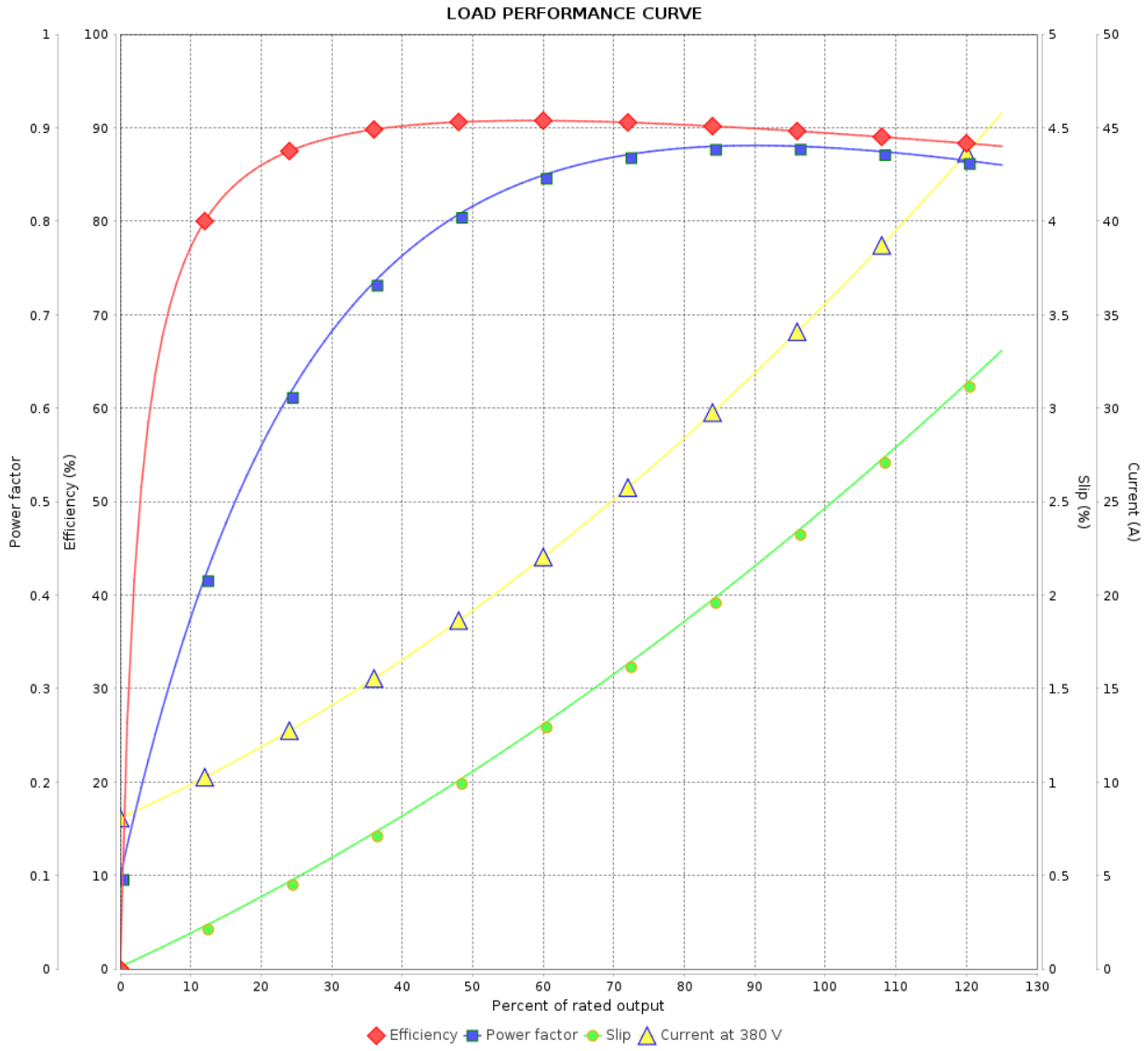
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447101



Performance	: 380 V 50 Hz 2P IE1		
Rated current	: 35.7 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

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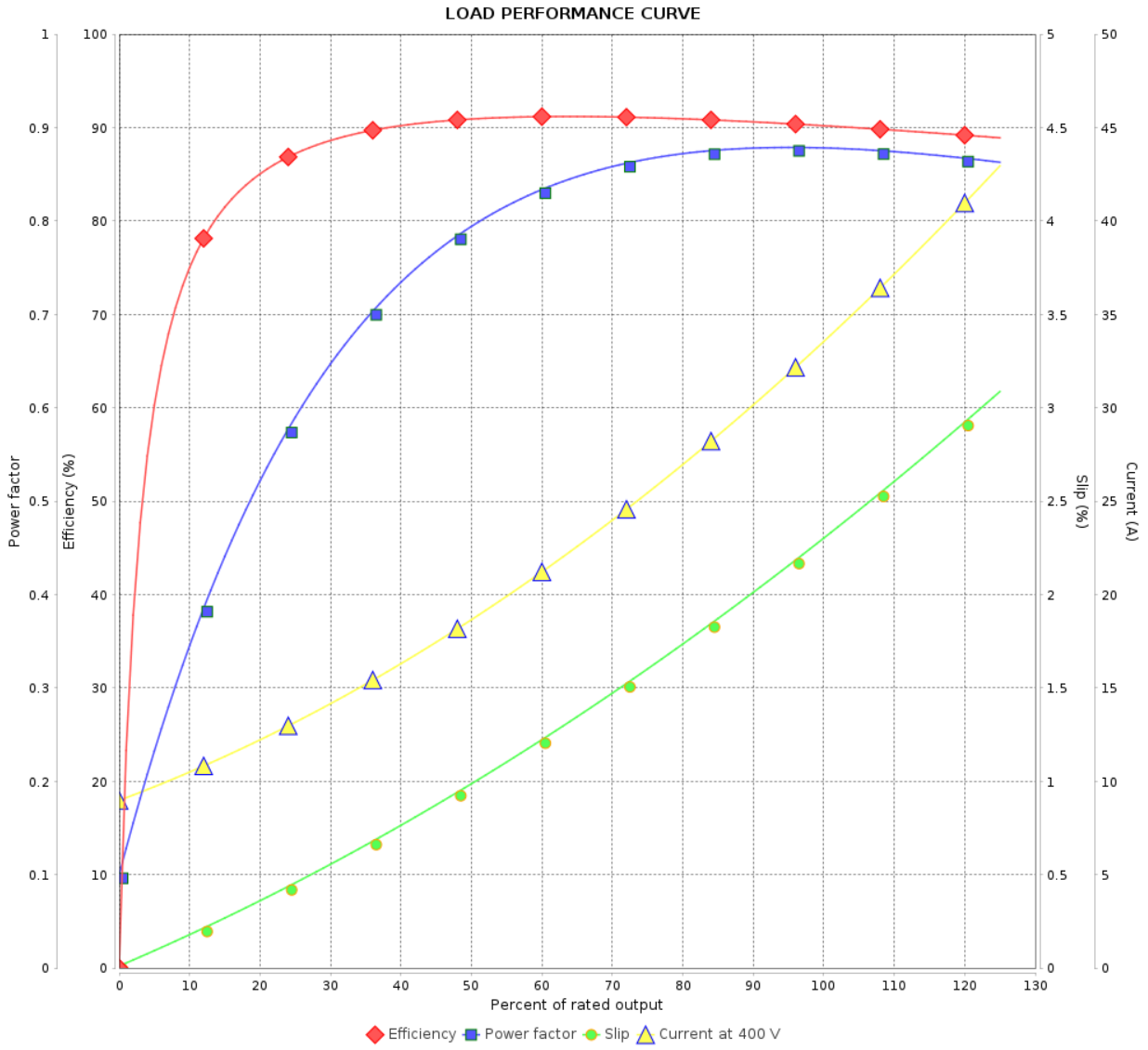
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12447101



Performance	: 400 V 50 Hz 2P IE1

Rated current	: 33.6 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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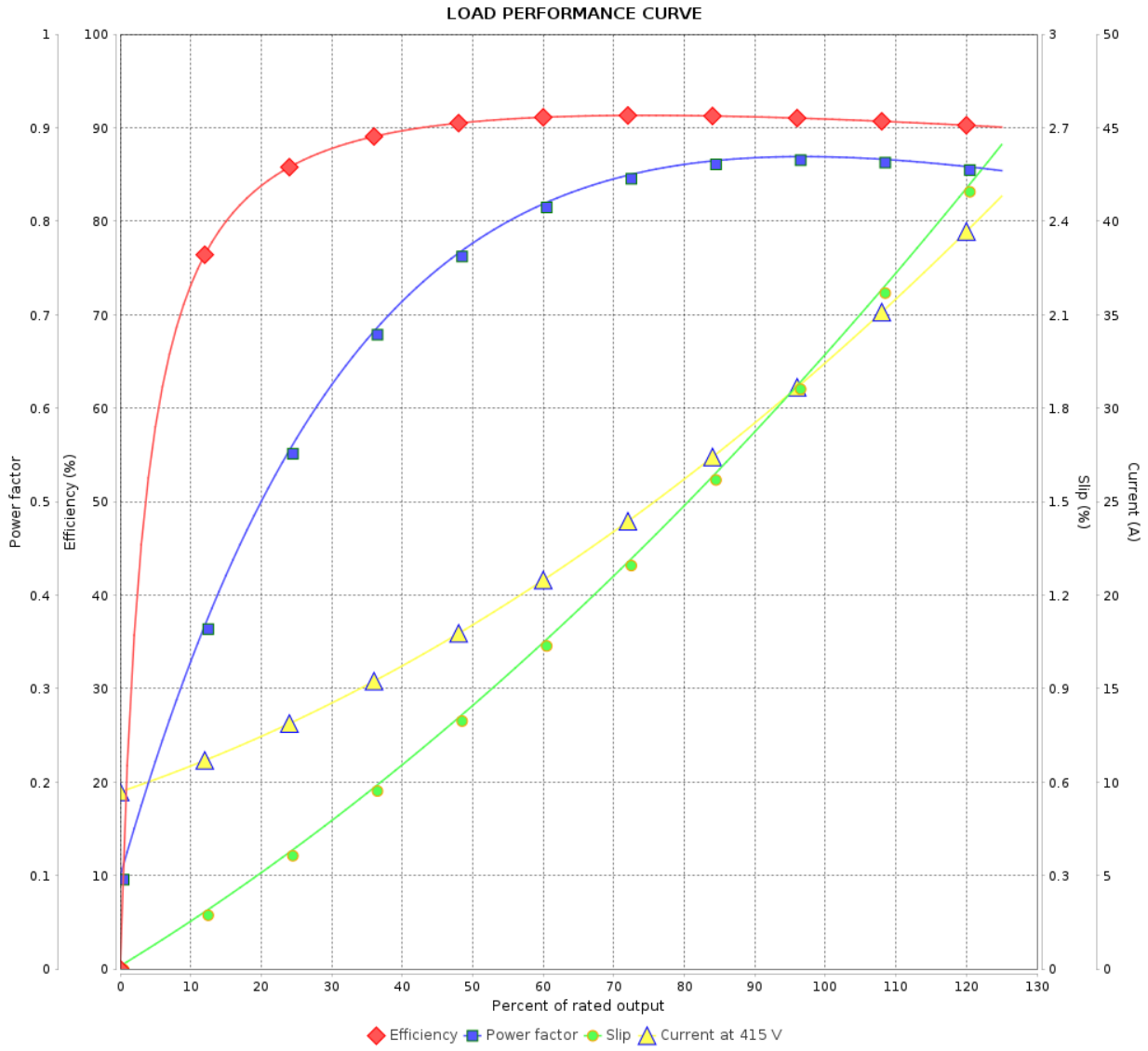
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447101



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 32.5 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 6 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

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