DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11606759

Frame	: 254/6TC	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]	: 122 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0647 kgm²
Design	: B		

Output [HP]		20	15	15	15	20	20	20
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]		46.5/23.3	20.6	19.8	19.3	28.9	27.2	26.2
L. R. Amperes [A]		284/142	144	154	156	148	155	160
LRC [A]		6.1x(Code G)	7.0x(Code H)	7.8x(Code J)	8.1x(Code J)	5.1x(Code E)	5.7x(Code F)	6.1x(Code G)
No load current [A]		11.2/5.60	5.50	6.00	6.10	5.50	6.00	6.10
Rated speed [RPM]		3530	2940	2945	2950	2885	2905	2915
Slip [%]		1.94	2.00	1.83	1.67	3.83	3.17	2.83
Rated torque [kgfm]		4	3	3	3	5	4	4
Locked rotor torque [%]		200	220	240	270	160	180	200
Breakdown torque [%]		240	260	280	310	200	210	229
Service factor		1.25	1.15	1.15	1.15	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		25s (cold) 14s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	10s (cold) 6s (hot)	16s (cold) 9s (hot)	18s (cold) 10s (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%	90.7	90.6	90.4	89.8	87.2	89.2	89.2
	75%	91.0	90.9	91.2	91.1	87.5	89.5	89.5
	100%	91.0	91.2	91.2	91.2	87.5	89.5	89.5
Power Factor	25%	0.00						
	50%	0.79	0.78	0.75	0.73	0.85	0.82	0.80
	75%	0.86	0.86	0.84	0.83	0.89	0.88	0.87
	100%	0.89	0.89	0.88	0.87	0.90	0.89	0.89

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

Losses (%)	P1 (0,9;1,0)	9.5	9.3	9.3	9.3	13.8	11.3	11.3
	P2 (0,5;1,0)	7.9	7.7	7.7	7.7	11.4	9.4	9.4
	P3 (0,25;1,0)	7.3	7.2	7.2	7.2	10.6	8.7	8.7
	P4 (0,9;0,5)	4.4	4.3	4.3	4.3	6.3	5.2	5.2
	P5 (0,5;0,5)	2.7	2.6	2.6	2.6	3.9	3.2	3.2
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5	2.2	1.8	1.8
	P7 (0,25;0,25)	1.0	0.9	0.9	0.9	1.4	1.1	1.1

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 h	20000 h
Lubricant amount	:	13 g	9 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 113 kgf

Max. compression : 247 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 51.3A SF 1.15 SFA 59.0A

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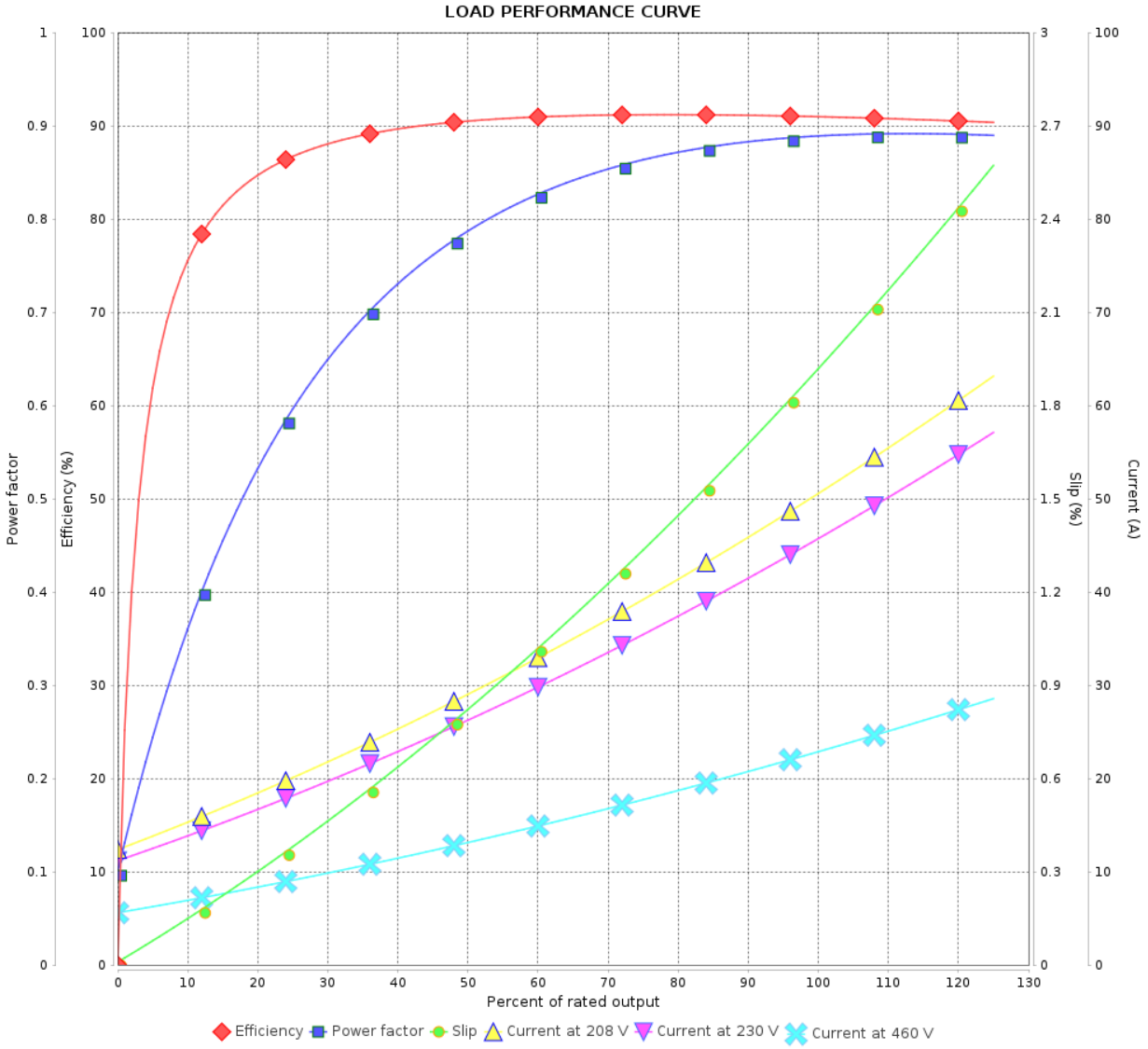
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11606759



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 46.5/23.3 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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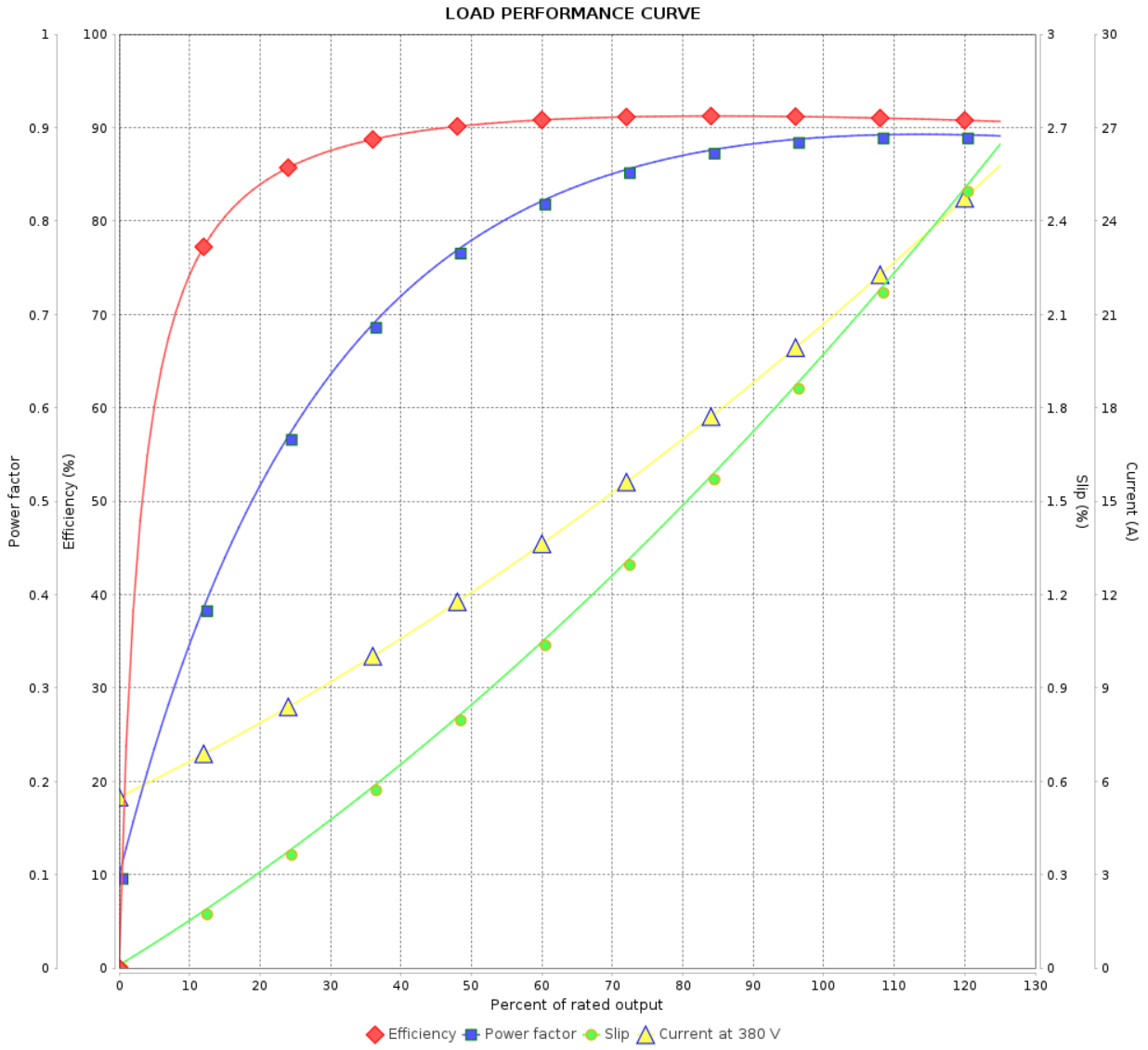
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11606759



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 20.6 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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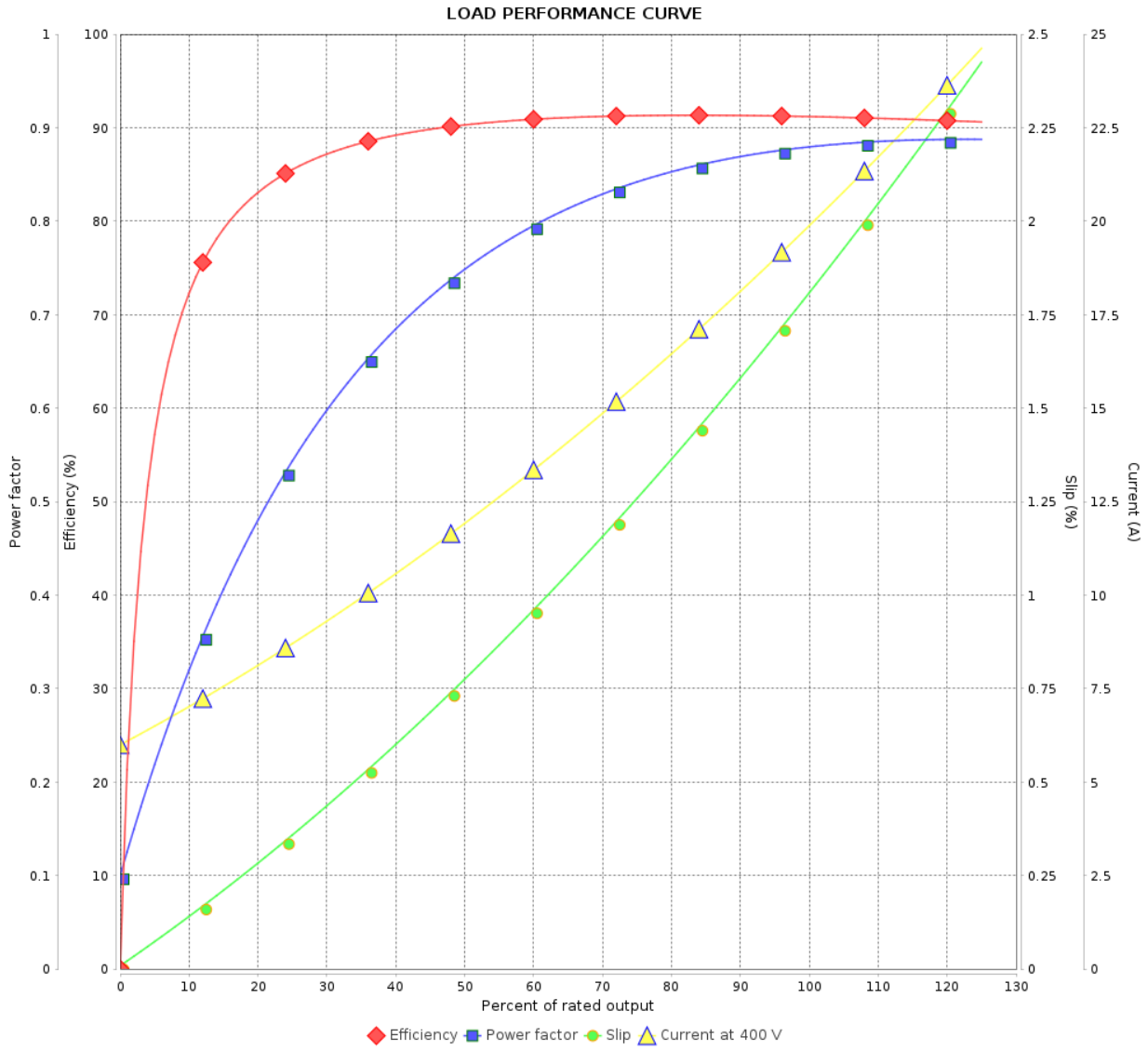
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11606759



Performance	: 400 V 50 Hz 2P IE3

Rated current	: 19.8 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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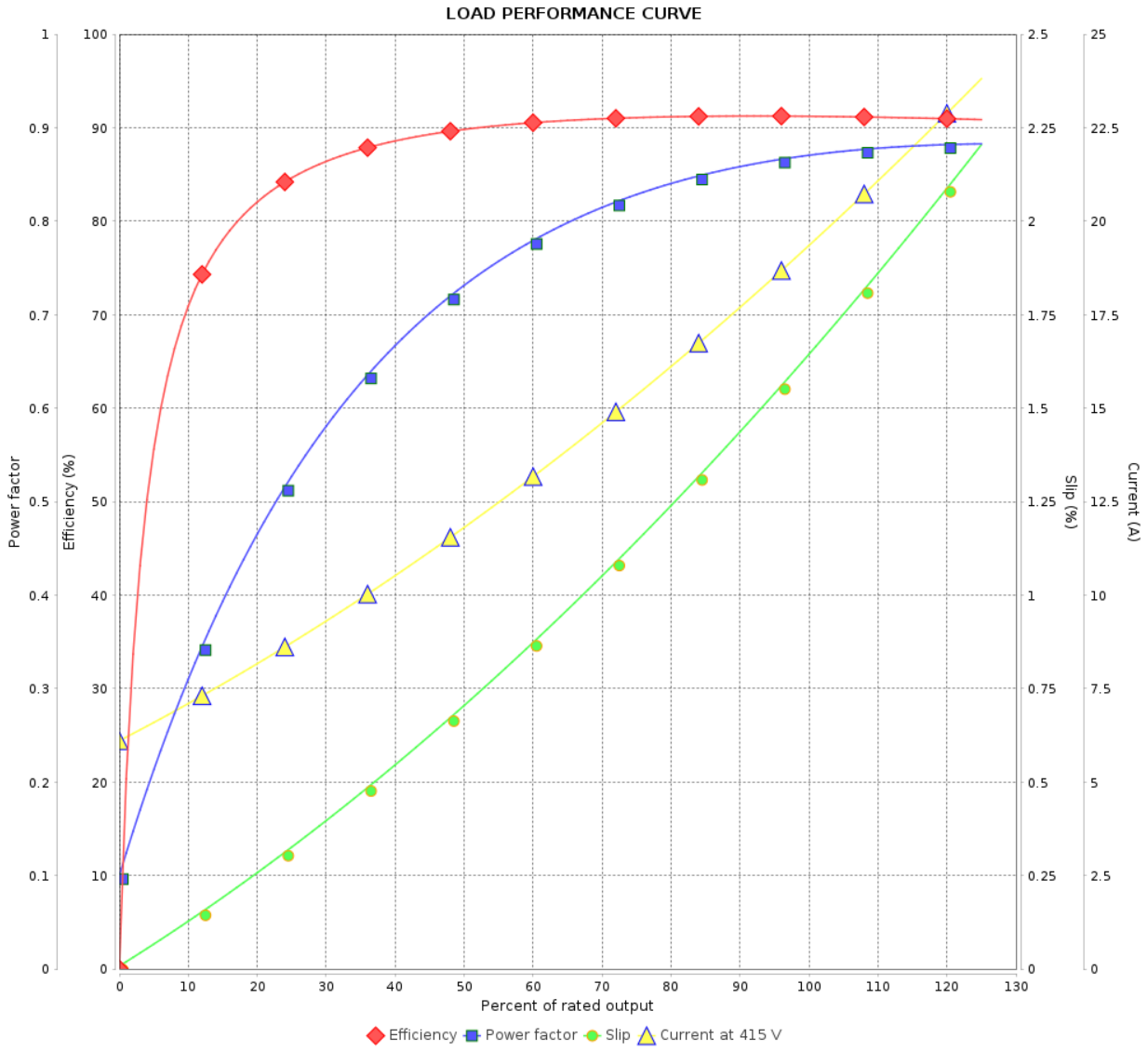
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11606759



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 19.3 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 8.1	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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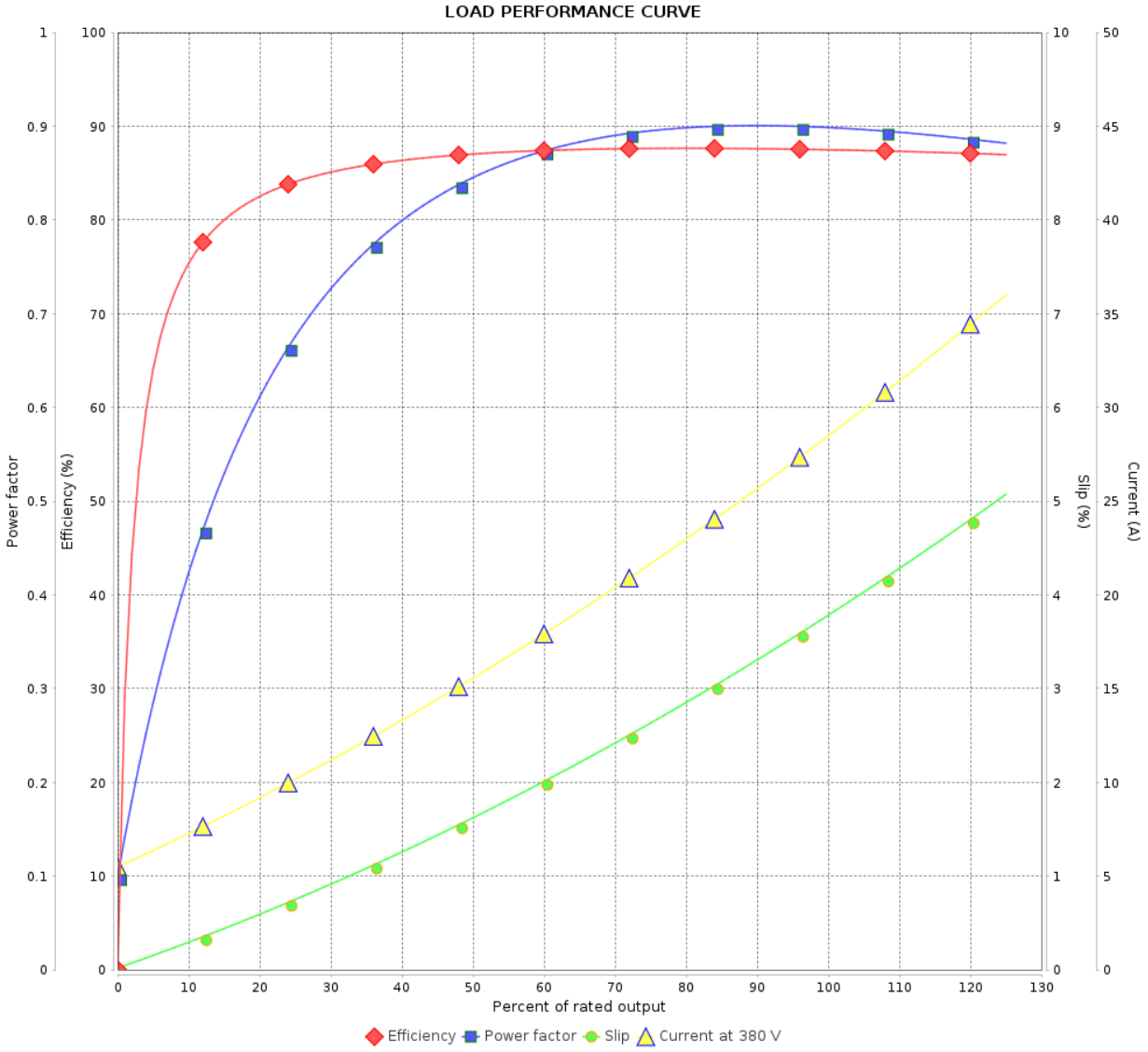
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11606759



Performance	: 380 V 50 Hz 2P		
Rated current	: 28.9 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 5 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2885 rpm	Design	: B

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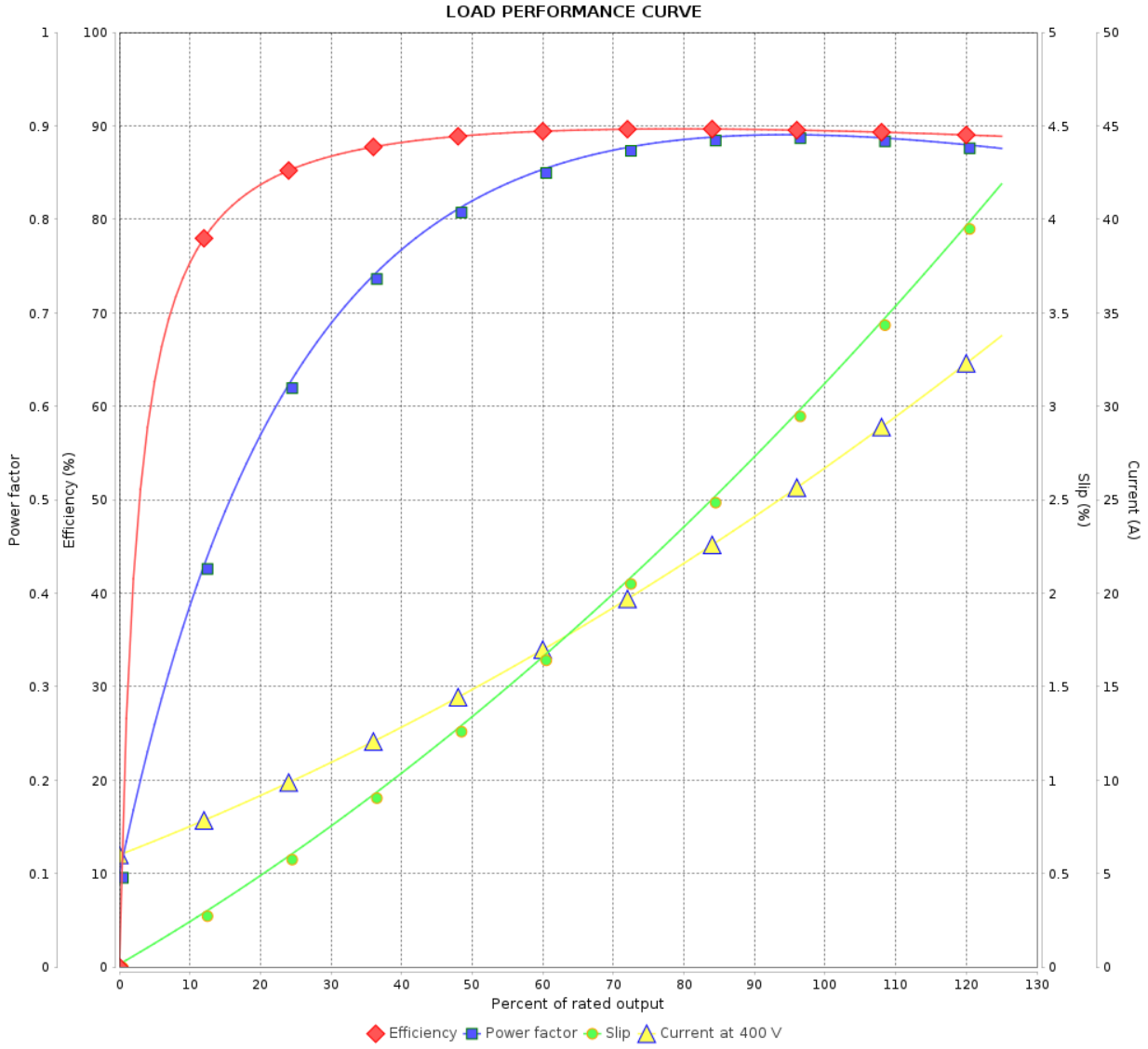
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11606759



Performance	: 400 V 50 Hz 2P IE1

Rated current	: 27.2 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 2905 rpm	Design	: B

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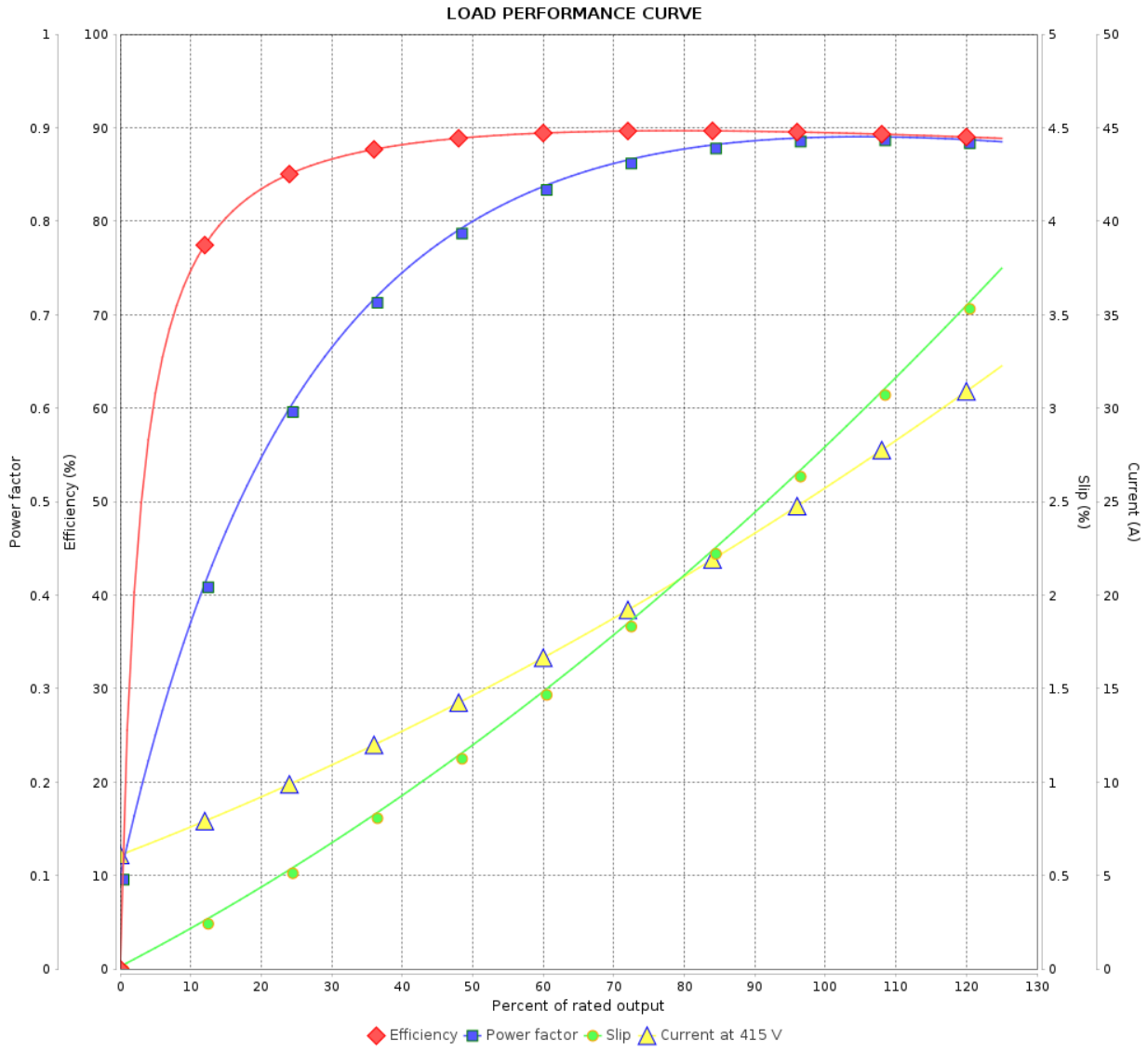
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11606759



Performance	: 415 V 50 Hz 2P IE1		
Rated current	: 26.2 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2915 rpm	Design	: B

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