

# DATA SHEET

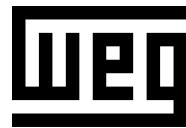
## Three Phase Induction Motor - Squirrel Cage



Customer :												
Product line		: W22 NEMA Premium Efficiency		Product code :		12447060						
Three-Phase												
Frame : 254/6TC		Cooling method : IC411 - TEFC										
Insulation class : F		Mounting : F-1										
Duty cycle : Cont.(S1)		Rotation <sup>1</sup> : Both (CW and CCW)										
Ambient temperature : -20°C to +40°C		Starting method : Direct On Line										
Altitude : 1000 m.a.s.l.		Approx. weight <sup>3</sup> : 124 kg										
Protection degree : IP55		Moment of inertia (J) : 0.0530 kgm <sup>2</sup>										
Design : B												
Output [HP]	15	10	10	10	15	15	15					
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]	34.5/17.2	14.5	14.0	13.7	21.0	19.9	19.3					
L. R. Amperes [A]	231/116	109	117	116	107	112	118					
LRC [A]	6.7x(Code G)	7.5x(Code J)	8.3x(Code K)	8.5x(Code K)	5.1x(Code E)	5.6x(Code F)	6.1x(Code G)					
No load current [A]	10.0/5.00	4.90	5.30	5.50	4.90	5.30	5.50					
Rated speed [RPM]	3535	2950	2955	2960	2900	2915	2925					
Slip [%]	1.81	1.67	1.50	1.33	3.33	2.83	2.50					
Rated torque [kgfm]	3.08	2.46	2.46	2.45	3.75	3.73	3.72					
Locked rotor torque [%]	200	200	229	250	160	180	200					
Breakdown torque [%]	260	310	350	380	200	229	240					
Service factor	1.25	1.25	1.25	1.25	1.00	1.00	1.15					
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K					
Locked rotor time	36s (cold) 20s (hot)	50s (cold) 28s (hot)	45s (cold) 25s (hot)	41s (cold) 23s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)					
Noise level <sup>2</sup>	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%	0.00										
	50%	89.5	90.3	90.1	89.9	89.5	90.2					
	75%	91.0	90.5	90.7	90.8	90.2	91.0					
	100%	91.0	90.5	90.7	90.8	88.5	89.5					
Power Factor	25%	0.00										
	50%	0.77	0.73	0.69	0.67	0.82	0.80					
	75%	0.85	0.83	0.80	0.78	0.88	0.87					
	100%	0.88	0.87	0.85	0.84	0.90	0.89					
Bearing type : Drive end 6309 C3		Non drive end 6209 C3		Foundation loads								
Sealing : V'Ring		Max. traction : 78 kgf										
Lubrication interval : 19000 h		Max. compression : 202 kgf										
Lubricant amount : 13 g												
Lubricant type : Mobil Polyrex EM												
Notes USABLE @208V 38.0A SF 1.15 SFA 43.7A												
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.								
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



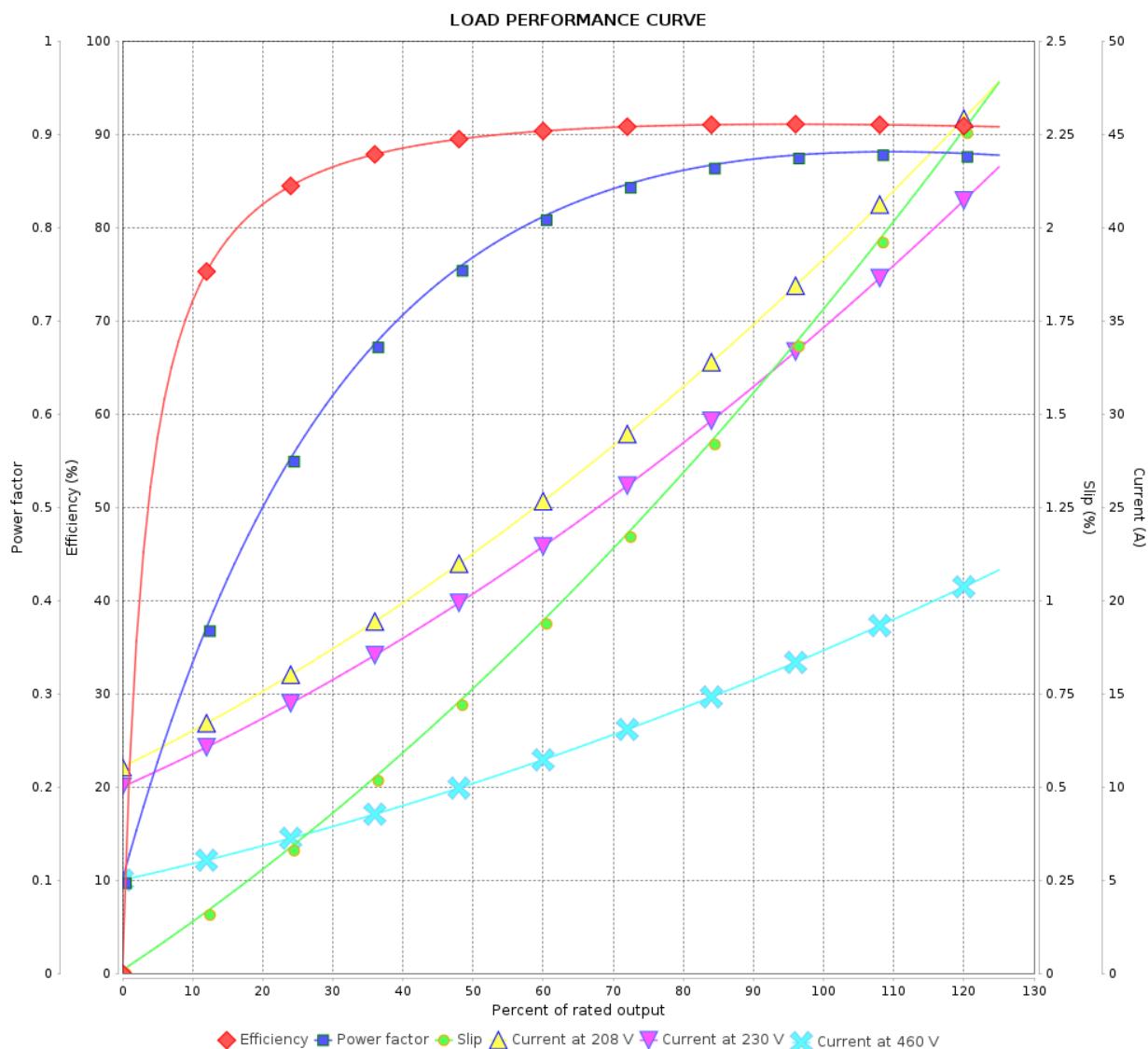
Customer :

Product line

: W22 NEMA Premium Efficiency  
Three-Phase

Product code :

12447060



Performance

: 230/460 V 60 Hz 2P

Rated current

: 34.5/17.2 A

Moment of inertia (J)

: 0.0530 kgm<sup>2</sup>

LRC

: 6.7

Duty cycle

: Cont.(S1)

Rated torque

: 3.08 kgfm

Insulation class

: F

Locked rotor torque

: 200 %

Service factor

: 1.25

Breakdown torque

: 260 %

Temperature rise

: 80 K

Rated speed

: 3535 rpm

Design

: B

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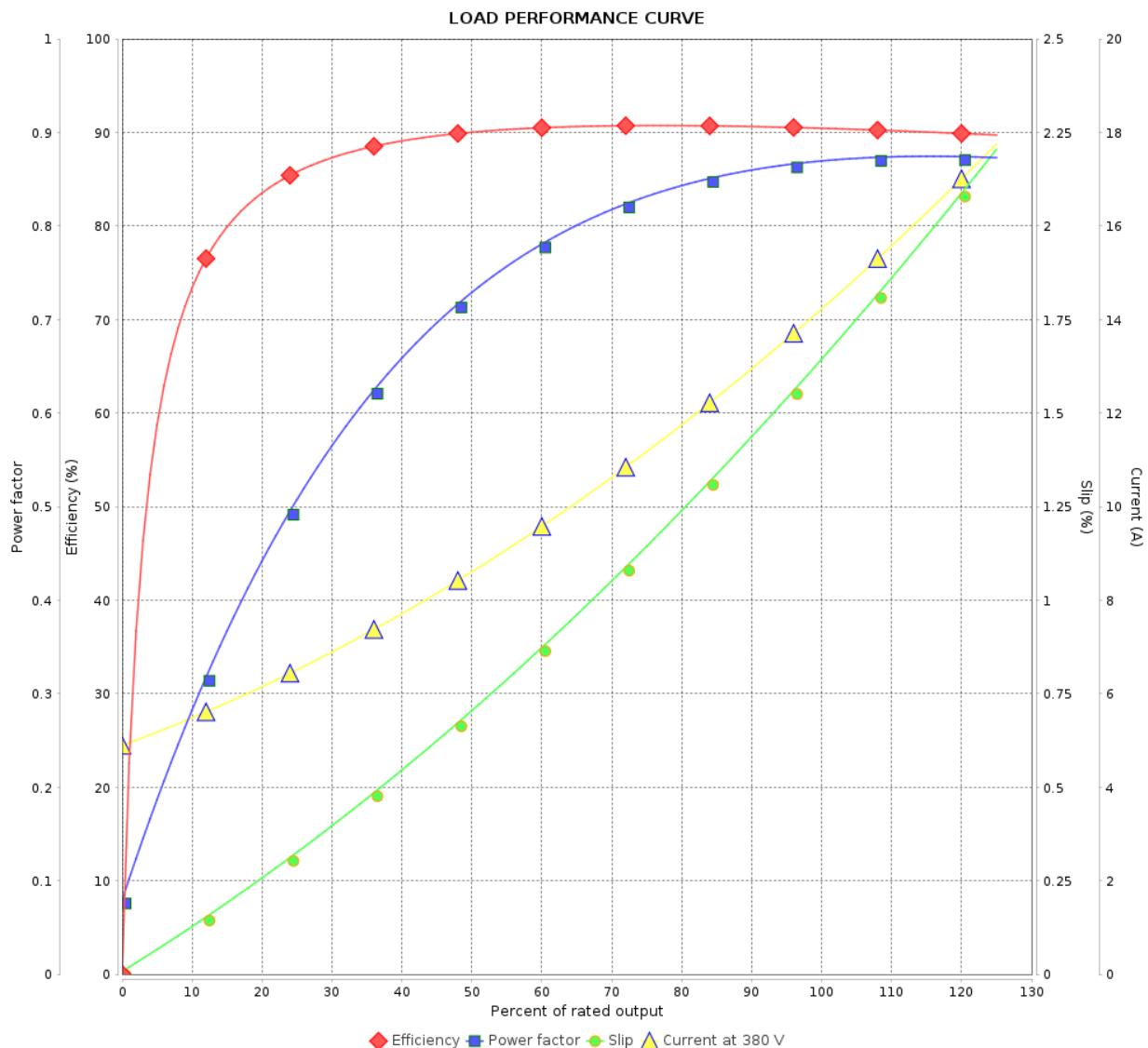
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12447060



Performance : 380 V 50 Hz 2P IE3

Rated current	: 14.5 A	Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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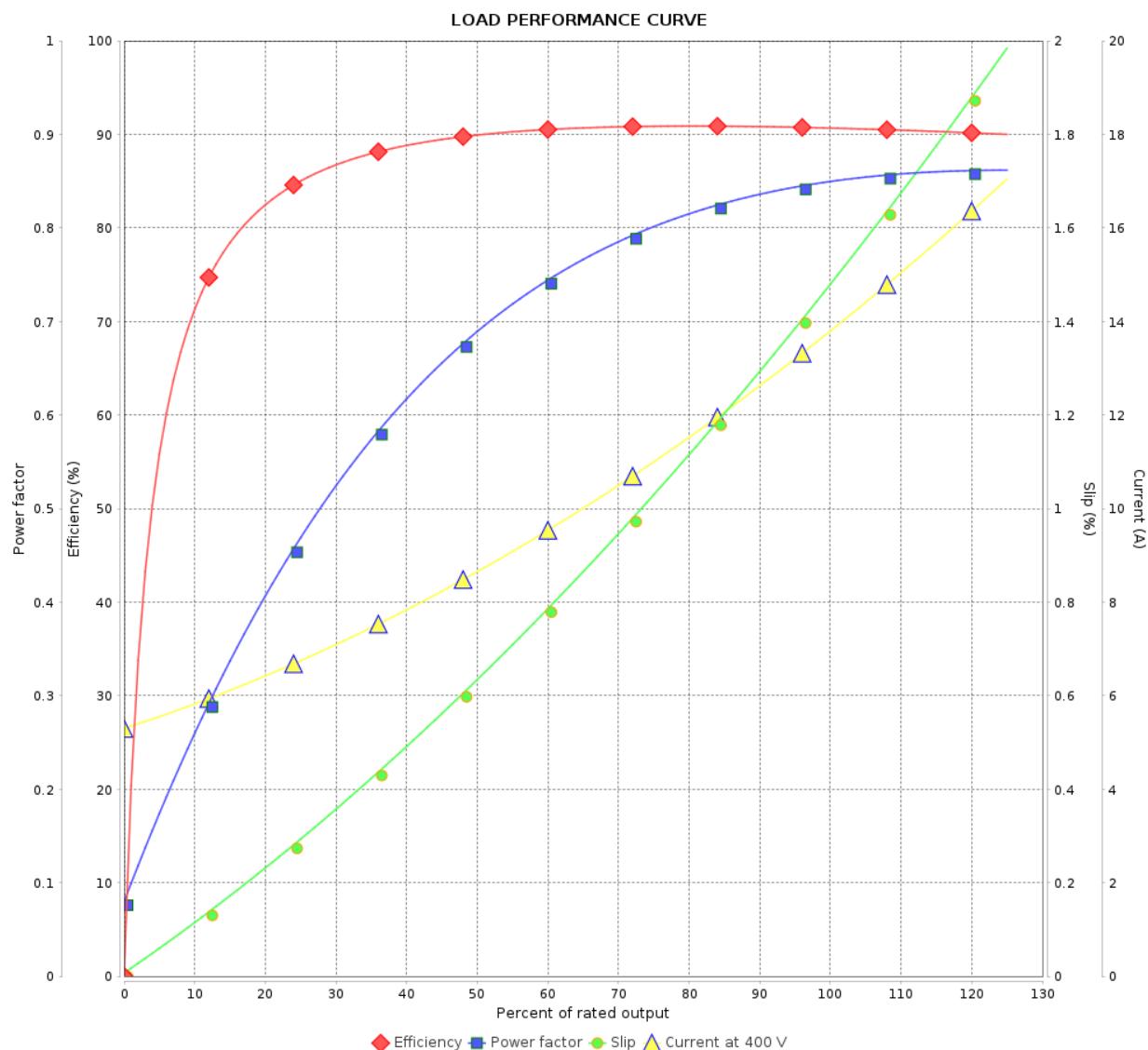
## LOAD PERFORMANCE CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447060  
Three-Phase



Performance : 400 V 50 Hz 2P IE3

Rated current	: 14.0 A
LRC	: 8.3
Rated torque	: 2.46 kgfm
Locked rotor torque	: 229 %
Breakdown torque	: 350 %
Rated speed	: 2955 rpm

Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>
Duty cycle	: Cont.(S1)
Insulation class	: F
Service factor	: 1.25
Temperature rise	: 80 K
Design	: B

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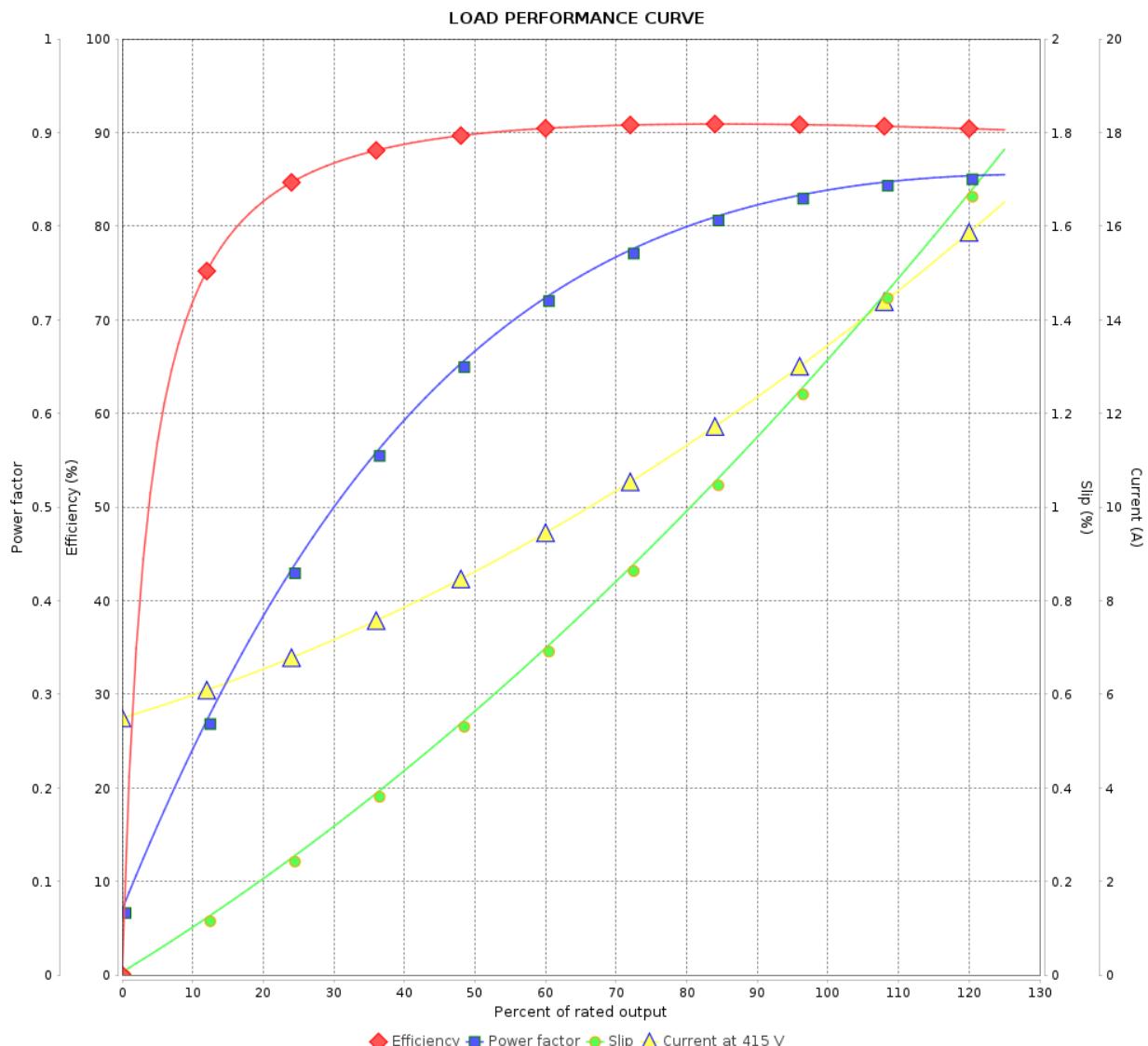
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Three Phase Induction Motor - Squirrel Cage



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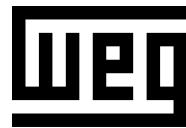
Product line : W22 NEMA Premium Efficiency  
Three-Phase Product code : 12447060



Performance		: 415 V 50 Hz 2P IE3		
Rated current	: 13.7 A	Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>	
LRC	: 8.5	Duty cycle	: Cont.(S1)	
Rated torque	: 2.45 kgfm	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.25	
Breakdown torque	: 380 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	
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Three Phase Induction Motor - Squirrel Cage



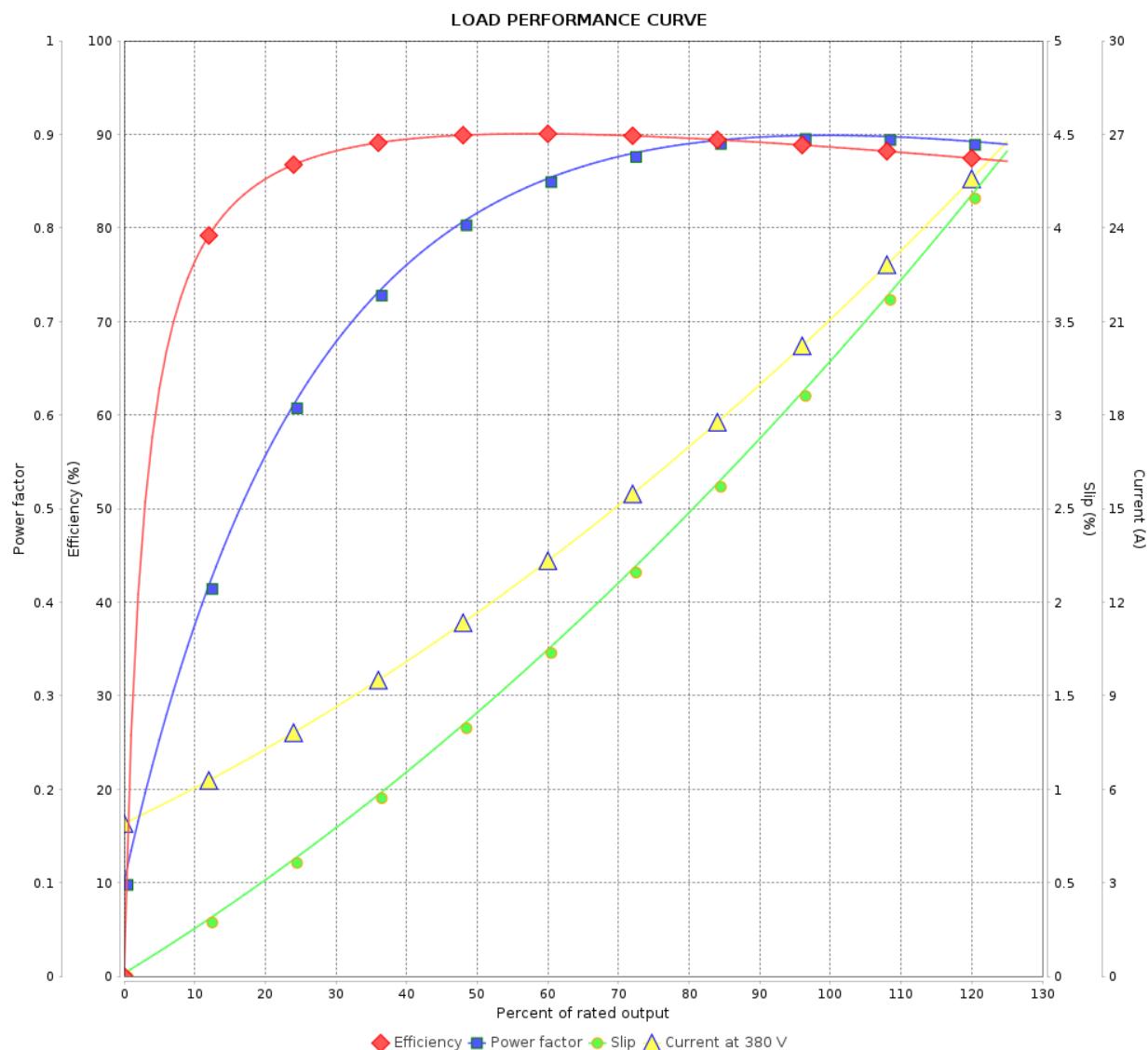
Customer :

Product line

: W22 NEMA Premium Efficiency  
Three-Phase

Product code :

12447060



Performance

: 380 V 50 Hz 2P IE1

Rated current

: 21.0 A

LRC

: 5.1

Rated torque

: 3.75 kgfm

Locked rotor torque

: 160 %

Breakdown torque

: 200 %

Rated speed

: 2900 rpm

Moment of inertia (J)

: 0.0530 kgm<sup>2</sup>

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.00

Temperature rise

: 105 K

Design

: B

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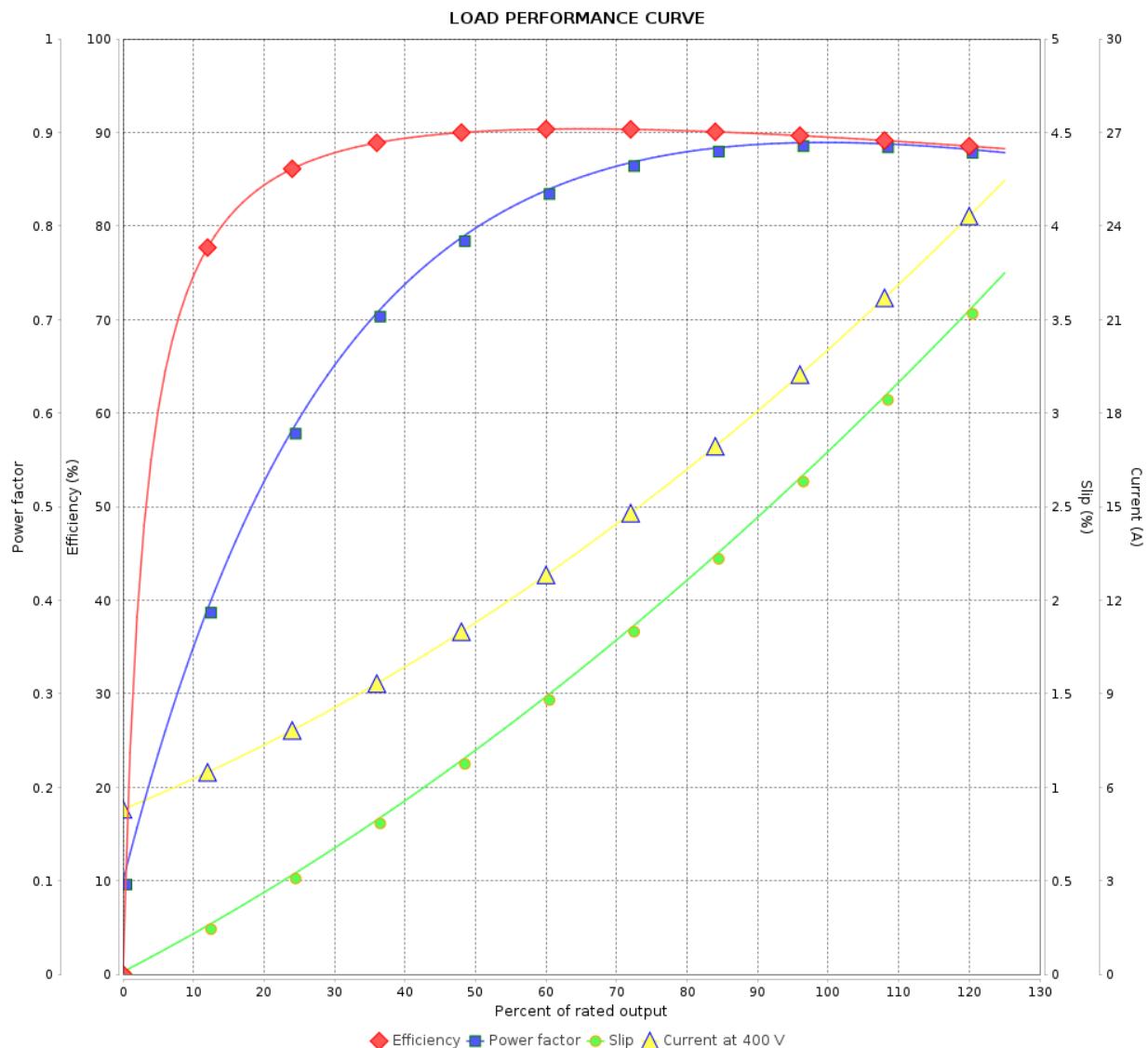
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase Product code : 12447060

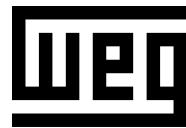


Performance : 400 V 50 Hz 2P IE2

Rated current	: 19.9 A	Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2915 rpm	Design	: B

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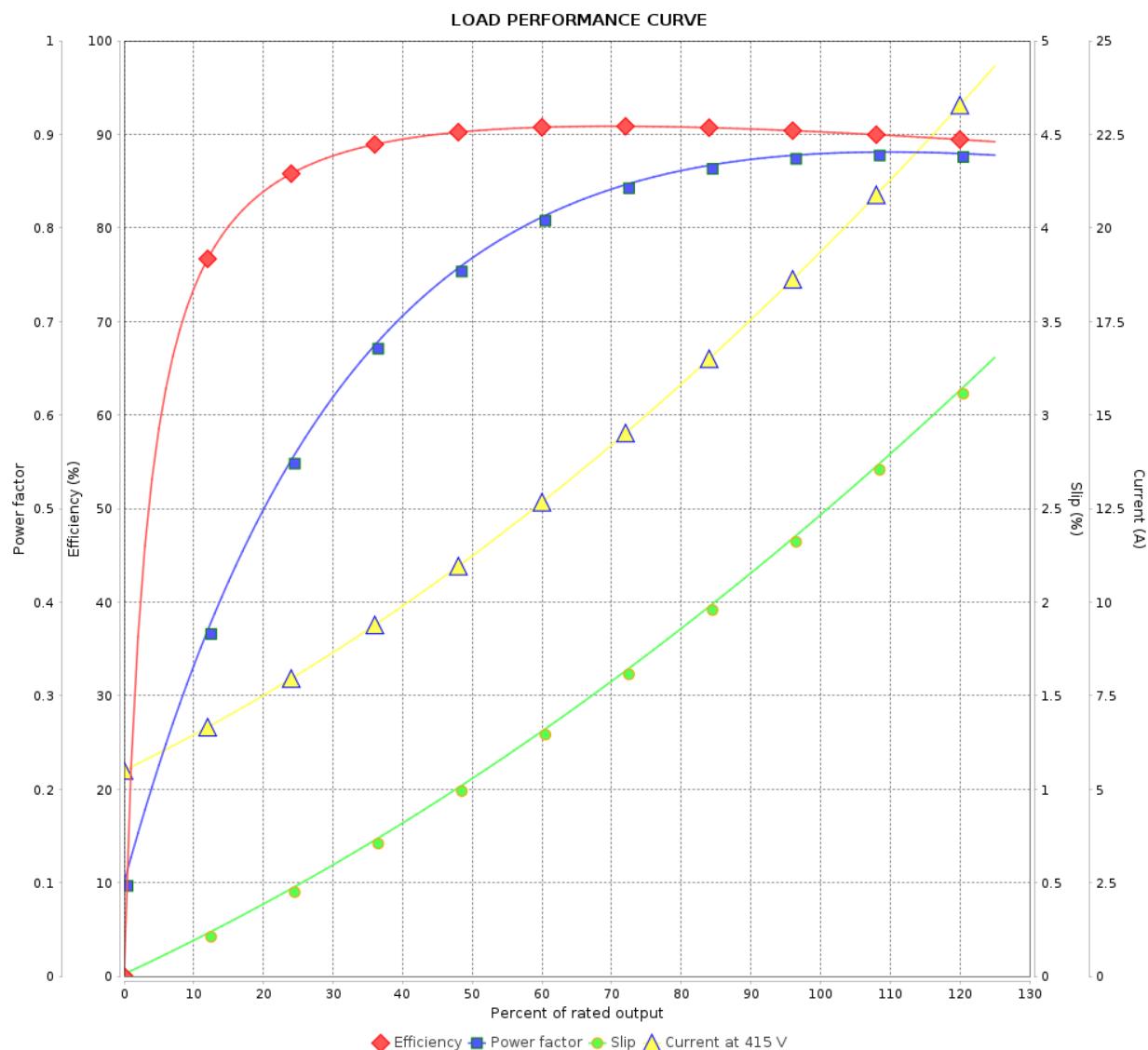
## LOAD PERFORMANCE CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12447060  
Three-Phase



Performance : 415 V 50 Hz 2P IE2

Rated current	: 19.3 A
LRC	: 6.1
Rated torque	: 3.72 kgf m
Locked rotor torque	: 200 %
Breakdown torque	: 240 %
Rated speed	: 2925 rpm

Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>
Duty cycle	: Cont.(S1)
Insulation class	: F
Service factor	: 1.15
Temperature rise	: 105 K
Design	: B

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