

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10015862				
Frame	: 213/5T	Cooling method	: IC01 - ODP				
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>2</sup>	: 55.5 kg				
Protection degree	: IP21	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>				
Design	: B						
Output [HP]	10	7.5	7.5	7.5	10	10	10
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]	23.8/11.9	10.6	10.3	10.2	14.1	13.6	13.1
L. R. Amperes [A]	171/85.7	83.7	90.6	96.9	80.4	87.0	90.4
LRC [A]	7.2x(Code H)	7.9x(Code J)	8.8x(Code K)	9.5x(Code L)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)
No load current [A]	7.00/3.50	3.40	3.60	3.80	3.40	3.60	3.80
Rated speed [RPM]	3540	2940	2950	2955	2910	2920	2930
Slip [%]	1.67	2.00	1.67	1.50	3.00	2.67	2.33
Rated torque [kgfm]	2.05	1.85	1.85	1.84	2.49	2.49	2.48
Locked rotor torque [%]	220	229	260	290	170	190	210
Breakdown torque [%]	310	340	390	430	240	270	300
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level <sup>2</sup>	68.0 dB(A)						
Efficiency (%)	25%						
	50%	89.5	87.0	86.2	87.0	88.5	88.5
	75%	90.2	88.3	88.3	88.8	88.5	88.5
	100%	90.2	89.2	89.2	89.6	89.5	89.5
Power Factor	25%						
	50%	0.73	0.71	0.68	0.65	0.80	0.77
	75%	0.83	0.82	0.80	0.77	0.87	0.85
	100%	0.88	0.88	0.86	0.84	0.90	0.89
Bearing type	: Drive end : 6208 ZZ Non drive end : 6206 ZZ	Foundation loads					
Sealing	: Without Bearing Seal	Max. traction	: 109 kgf				
	: Without Bearing Seal	Max. compression	: 165 kgf				
Lubrication interval	: -						
Lubricant amount	: -						
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 26.2A SF 1.15 SFA 30.2A							
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.					
Rev.	Changes Summary	Performed	Checked	Date			
Performed by							
Checked by			Page	Revision			
Date	05/02/2024		1 / 8				

# LOAD PERFORMANCE CURVE

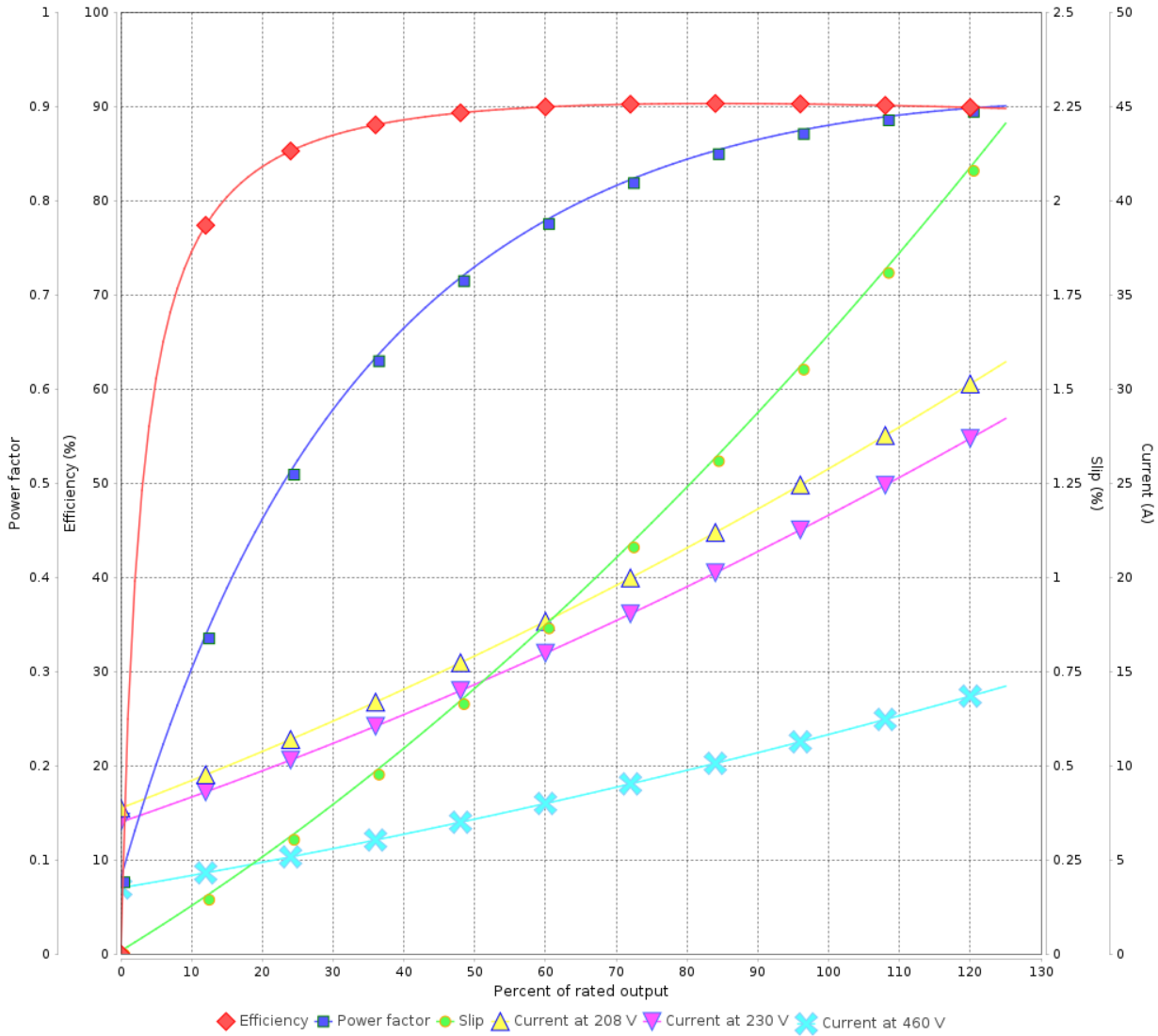
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862

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Performance : 230/460 V 60 Hz 2P

Rated current : 23.8/11.9 A  
 LRC : 7.2  
 Rated torque : 2.05 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 310 %  
 Rated speed : 3540 rpm

Moment of inertia (J) : 0.0206 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

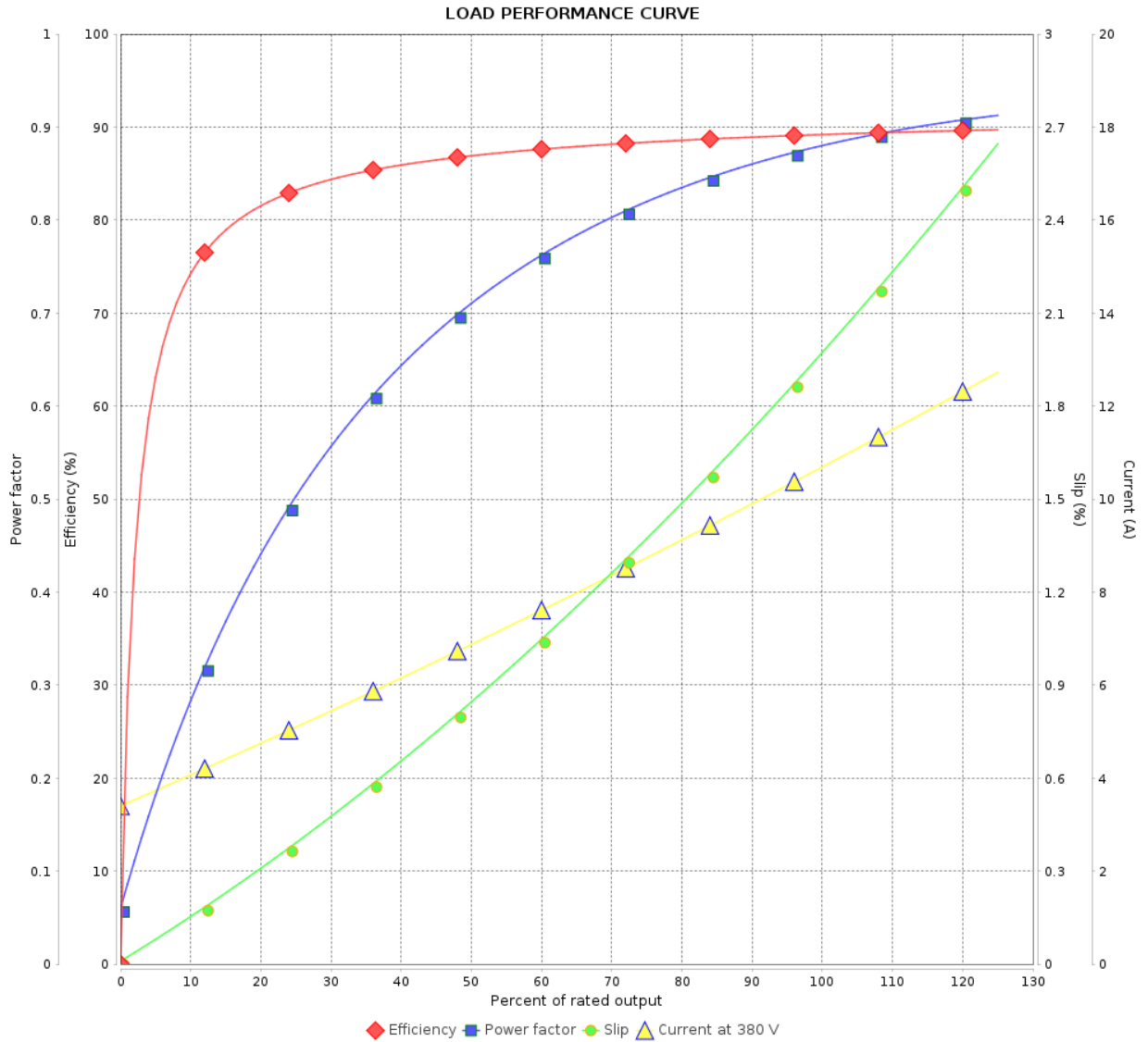
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## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862



Performance : 380 V 50 Hz 2P IE3

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 1.85 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

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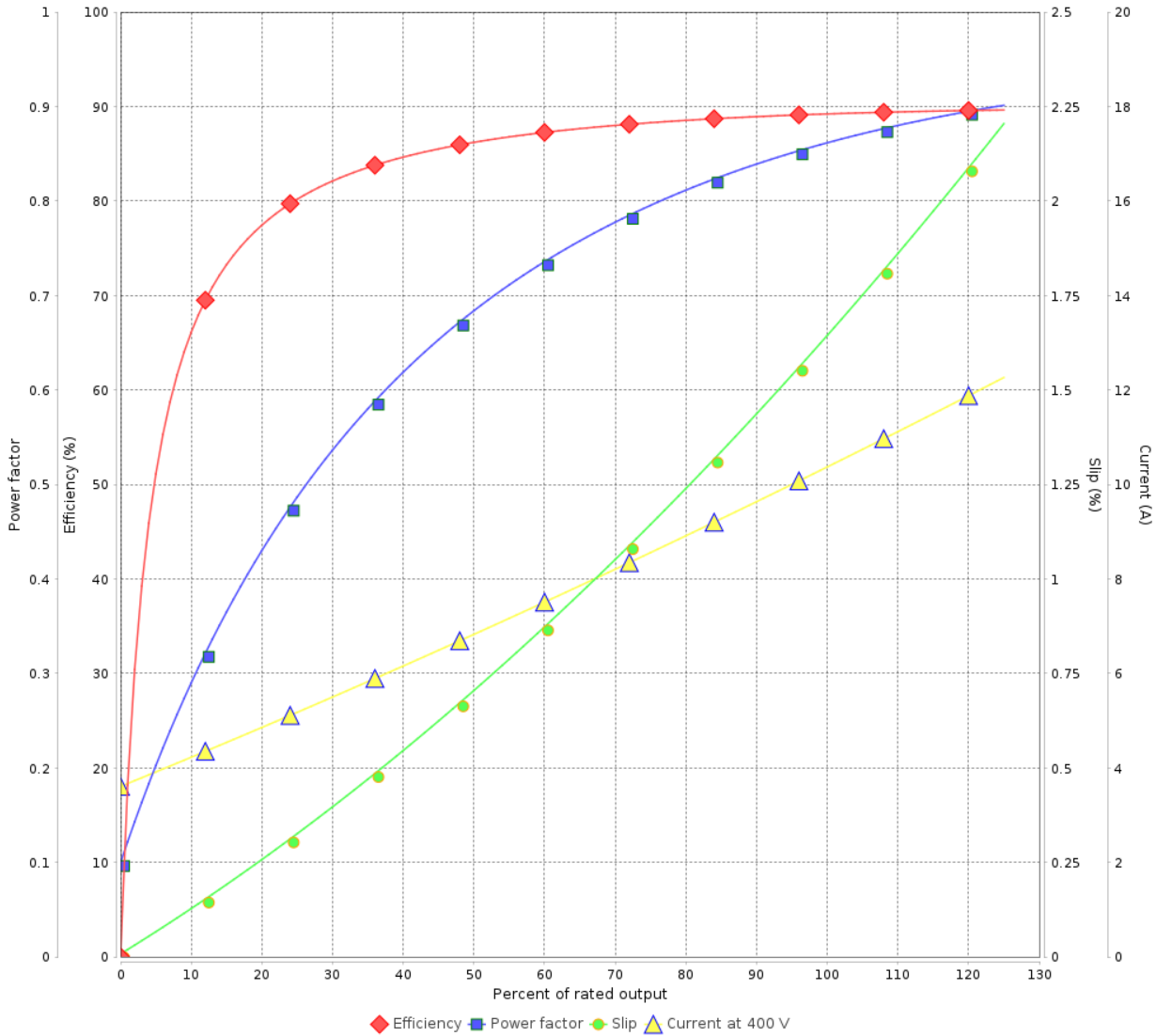
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862

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Performance : 400 V 50 Hz 2P IE3

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 1.85 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 8	Revision
Checked by				
Date	05/02/2024			

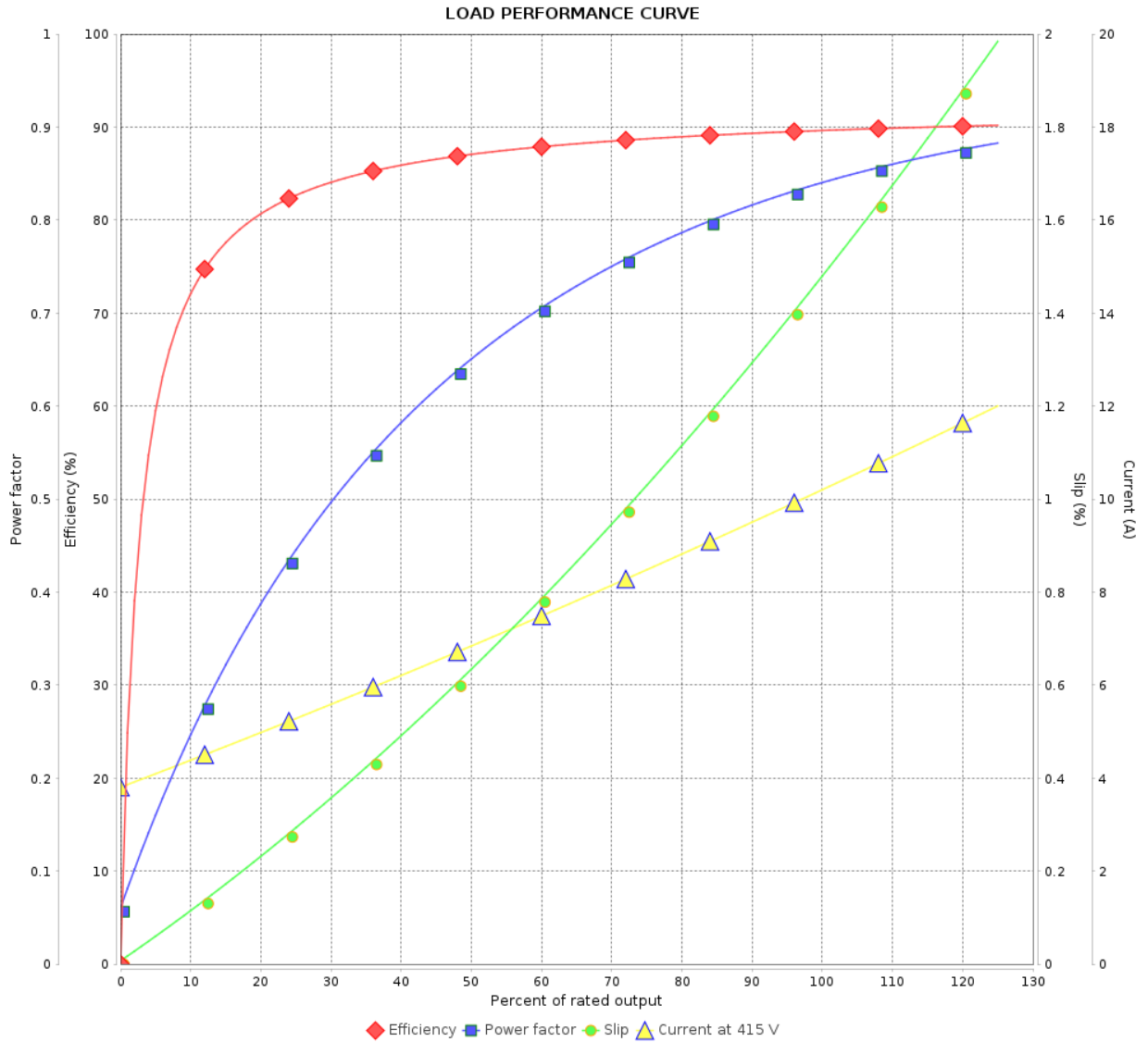
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Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862



Performance : 415 V 50 Hz 2P IE3

Rated current	: 10.2 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 9.5	Duty cycle	: Cont.(S1)
Rated torque	: 1.84 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 8	Revision
Checked by				
Date	05/02/2024			

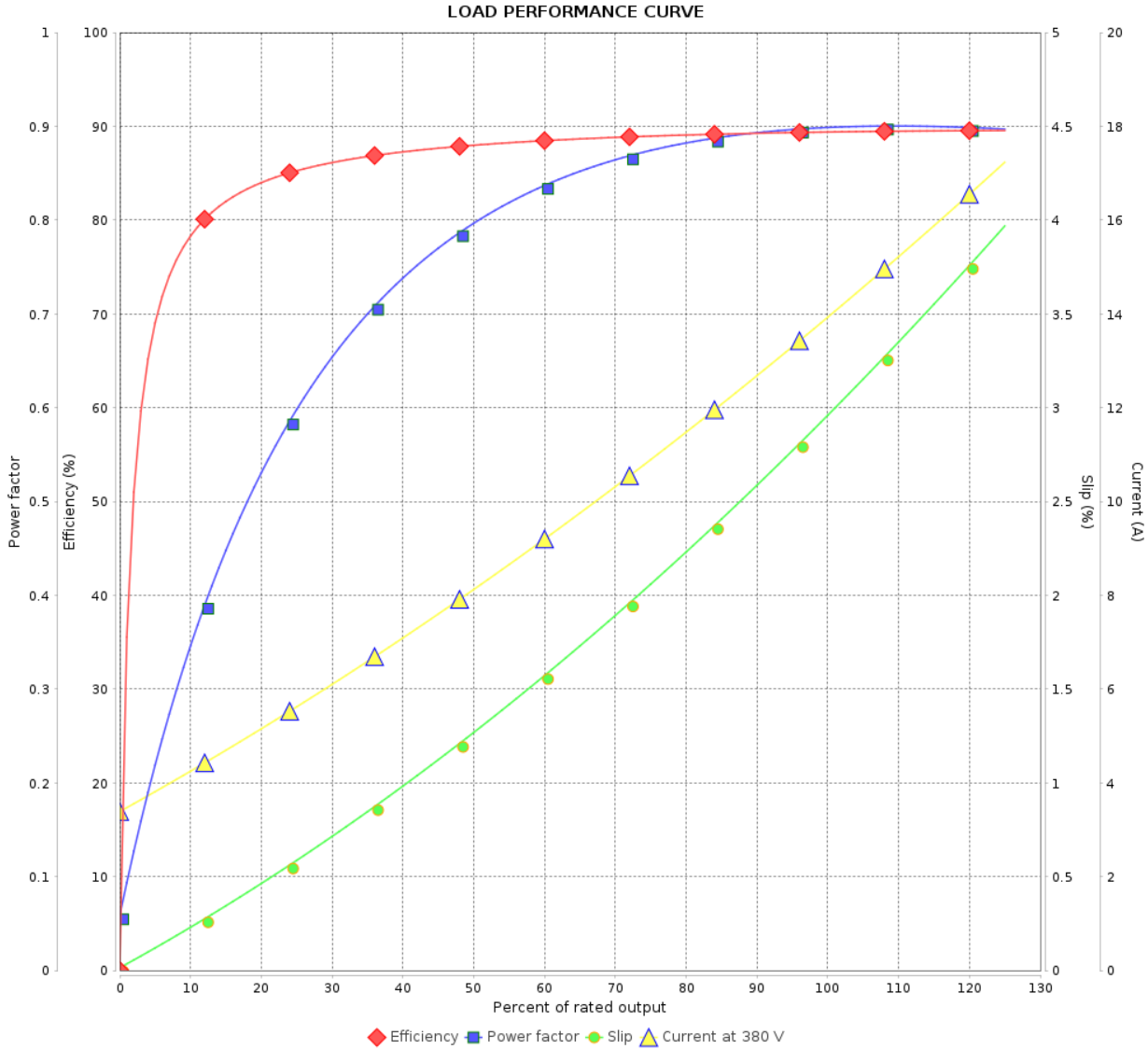
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862



Performance : 380 V 50 Hz 2P IE2

Rated current	: 14.1 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 2.49 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 8	Revision
Checked by				
Date	05/02/2024			

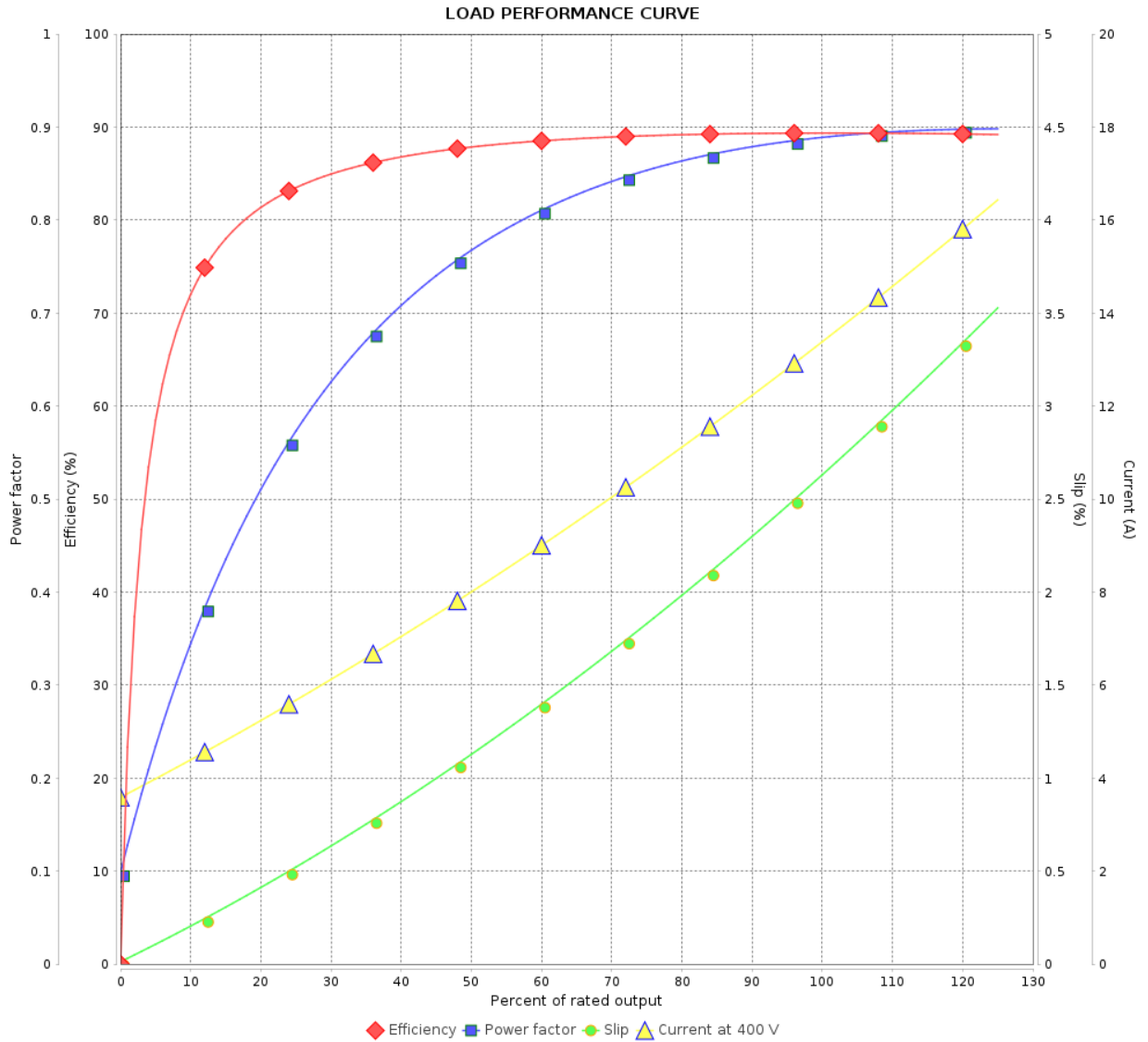
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## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862



Performance : 400 V 50 Hz 2P IE2

Rated current	: 13.6 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 2.49 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 7 / 8	Revision
Checked by				
Date	05/02/2024			

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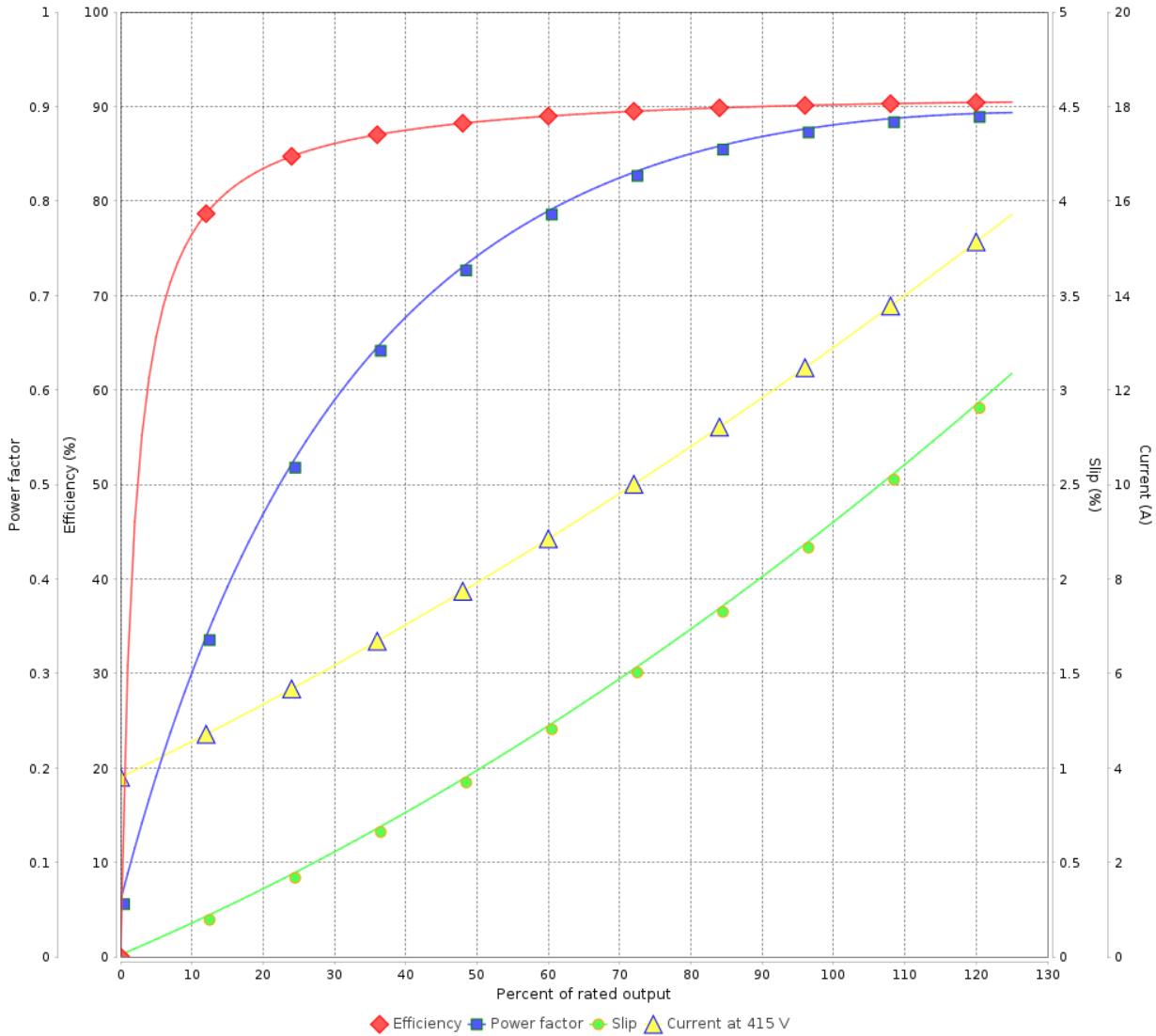
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015862

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 13.1 A	Moment of inertia (J)	: 0.0206 kgm <sup>2</sup>
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 2.48 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		8 / 8		
Date	05/02/2024			