

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: General NEMA Premium Efficiency Three-Phase	Product code :	10015871				
Frame	: 184T	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>	: 32.3 kg				
Protection degree	: IP21	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>				
Design	: B						
Output [HP]	5	4	4	4	5	5	5
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	13.0/6.49	6.58	6.58	6.52	7.74	7.63	7.54
L. R. Amperes [A]	94.8/47.4	44.7	46.7	51.5	44.1	46.5	49.8
LRC [A]	7.3x(Code J)	6.8x(Code J)	7.1x(Code K)	7.9x(Code L)	5.7x(Code G)	6.1x(Code H)	6.6x(Code J)
No load current [A]	6.80/3.40	3.30	3.70	4.10	3.30	3.70	4.10
Rated speed [RPM]	1755	1455	1460	1465	1435	1440	1450
Slip [%]	2.50	3.00	2.67	2.33	4.33	4.00	3.33
Rated torque [kgfm]	2.07	2.00	1.99	1.98	2.53	2.52	2.50
Locked rotor torque [%]	210	229	250	290	190	200	229
Breakdown torque [%]	290	290	320	350	229	250	280
Service factor	1.15	1.15	1.15	1.15	1.00	1.15	1.15
Temperature rise	105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time	21s (cold) 12s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level <sup>2</sup>	55.0 dB(A)						
Efficiency (%)	25%						
	50%	88.5	83.3	83.1	82.9	85.5	85.5
	75%	89.5	86.0	86.1	86.1	86.5	86.5
	100%	89.5	87.7	87.7	87.7	87.5	87.5
Power Factor	25%						
	50%	0.59	0.60	0.55	0.51	0.67	0.62
	75%	0.72	0.72	0.68	0.64	0.78	0.74
	100%	0.80	0.79	0.75	0.73	0.83	0.80
Bearing type	: Drive end : 6206 ZZ Non drive end : 6205 ZZ	Foundation loads					
Sealing	: Without Bearing Seal	Max. traction : 130 kgf					
	: Without Bearing Seal	Max. compression : 163 kgf					
Lubrication interval	: -						
Lubricant amount	: -						
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 14.2A SF 1.15 SFA 16.3A							
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

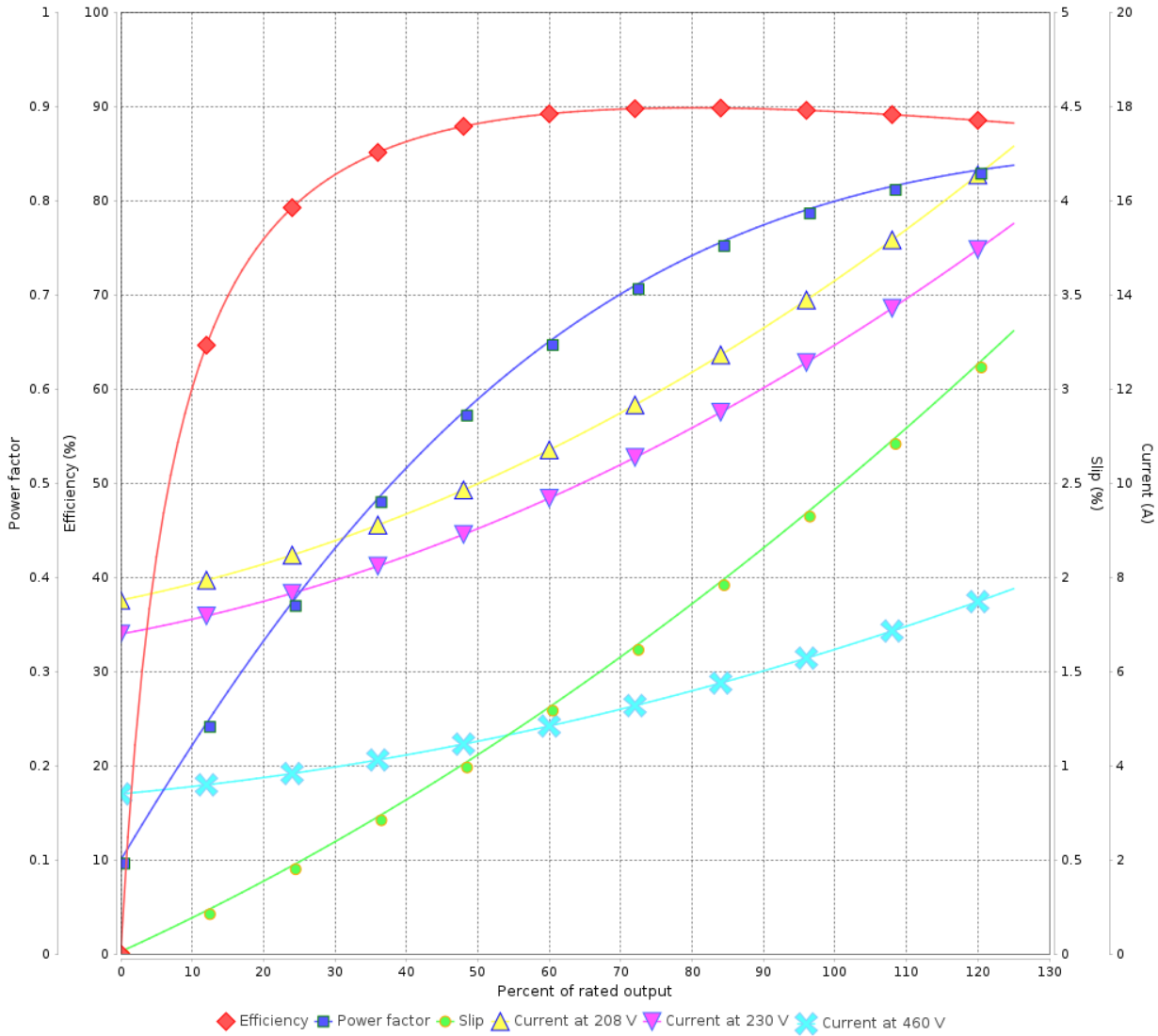
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 13.0/6.49 A  
 LRC : 7.3  
 Rated torque : 2.07 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 290 %  
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0147 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 105 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 8	Revision
Checked by				
Date	05/02/2024			

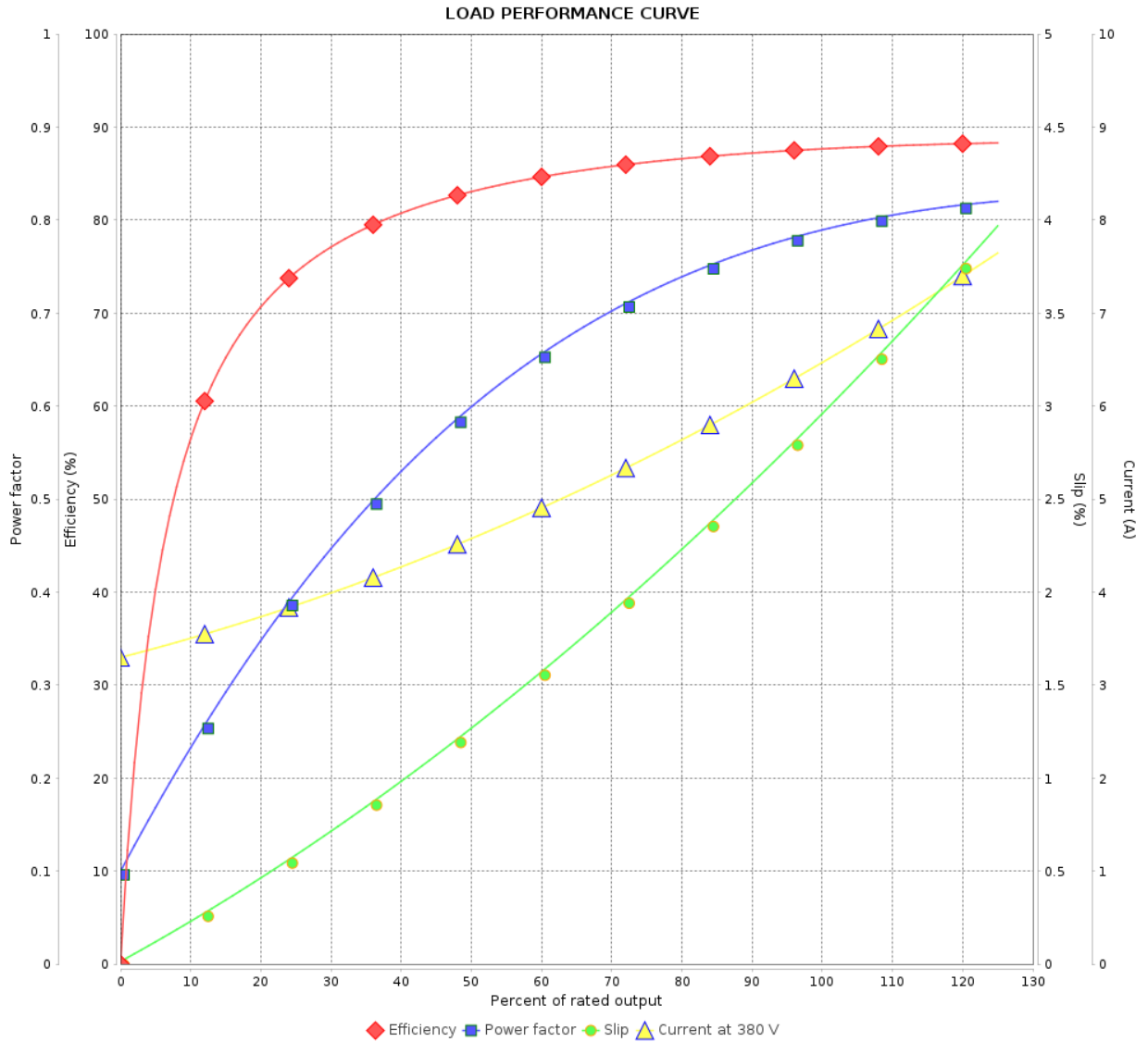
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871



Performance : 380 V 50 Hz 4P IE3

Rated current	: 6.58 A	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 8	Revision
Checked by				
Date	05/02/2024			

# LOAD PERFORMANCE CURVE

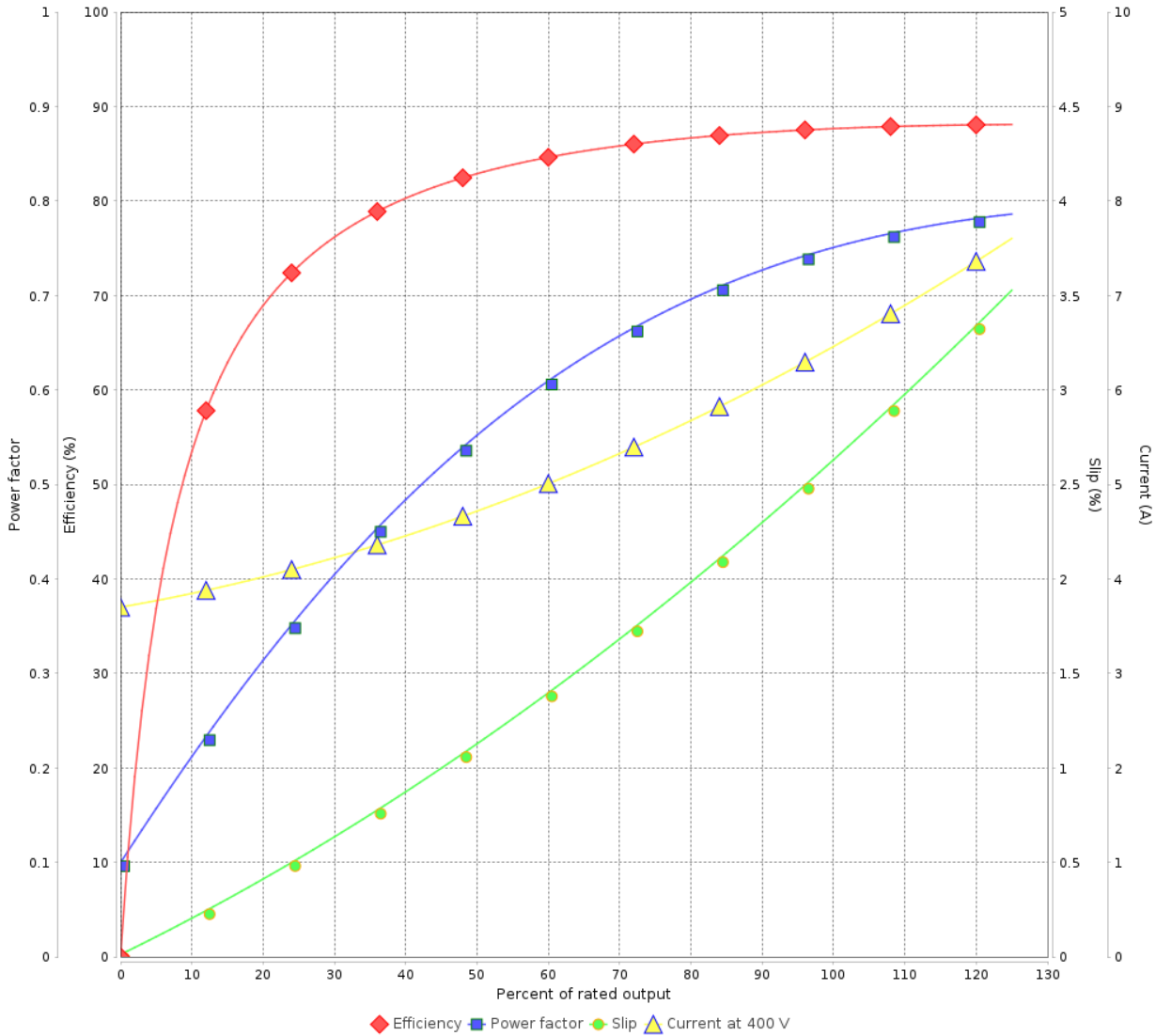
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current	: 6.58 A	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.99 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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

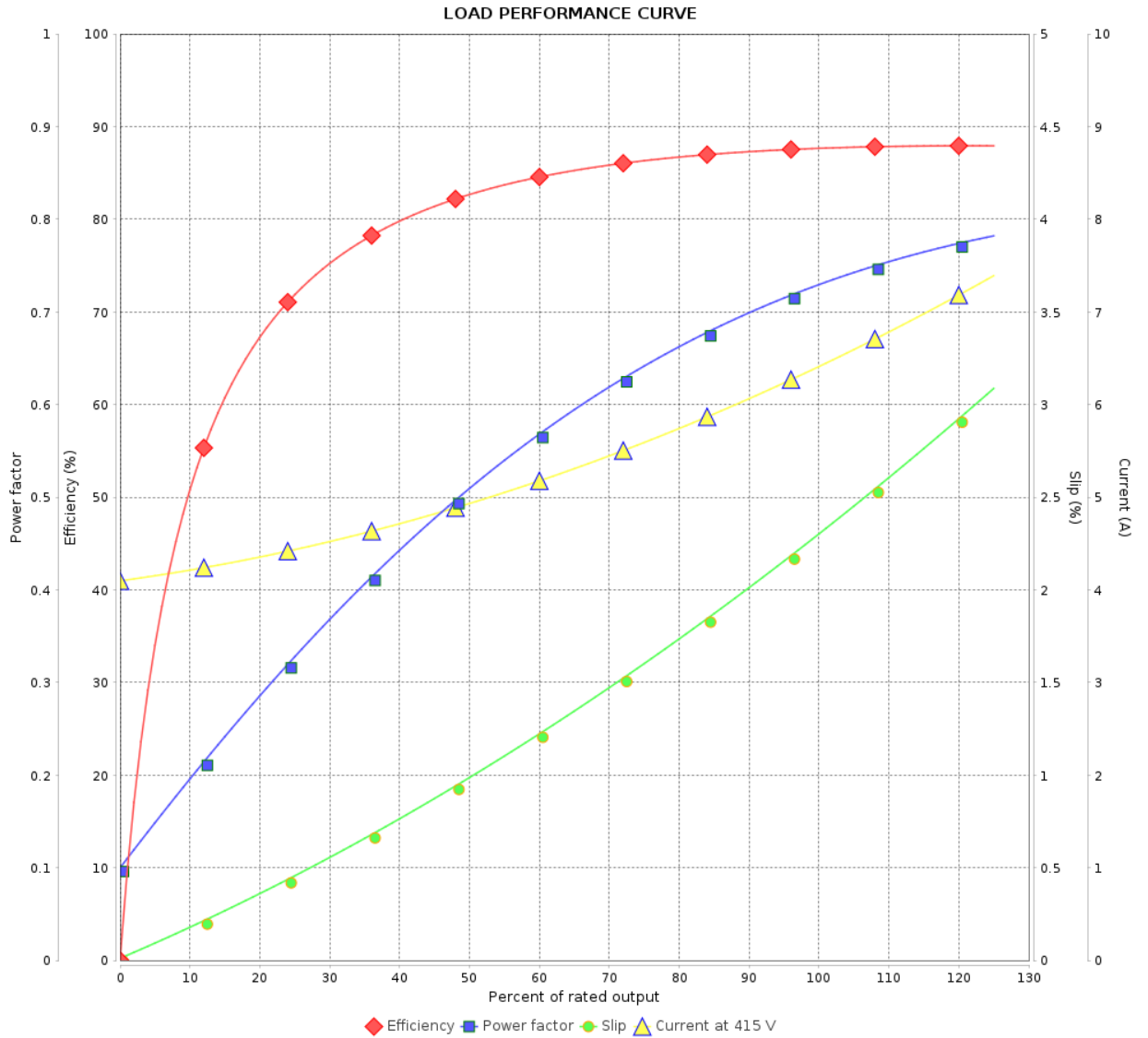
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871



Performance : 415 V 50 Hz 4P IE3

Rated current	: 6.52 A	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 1.98 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

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

# LOAD PERFORMANCE CURVE

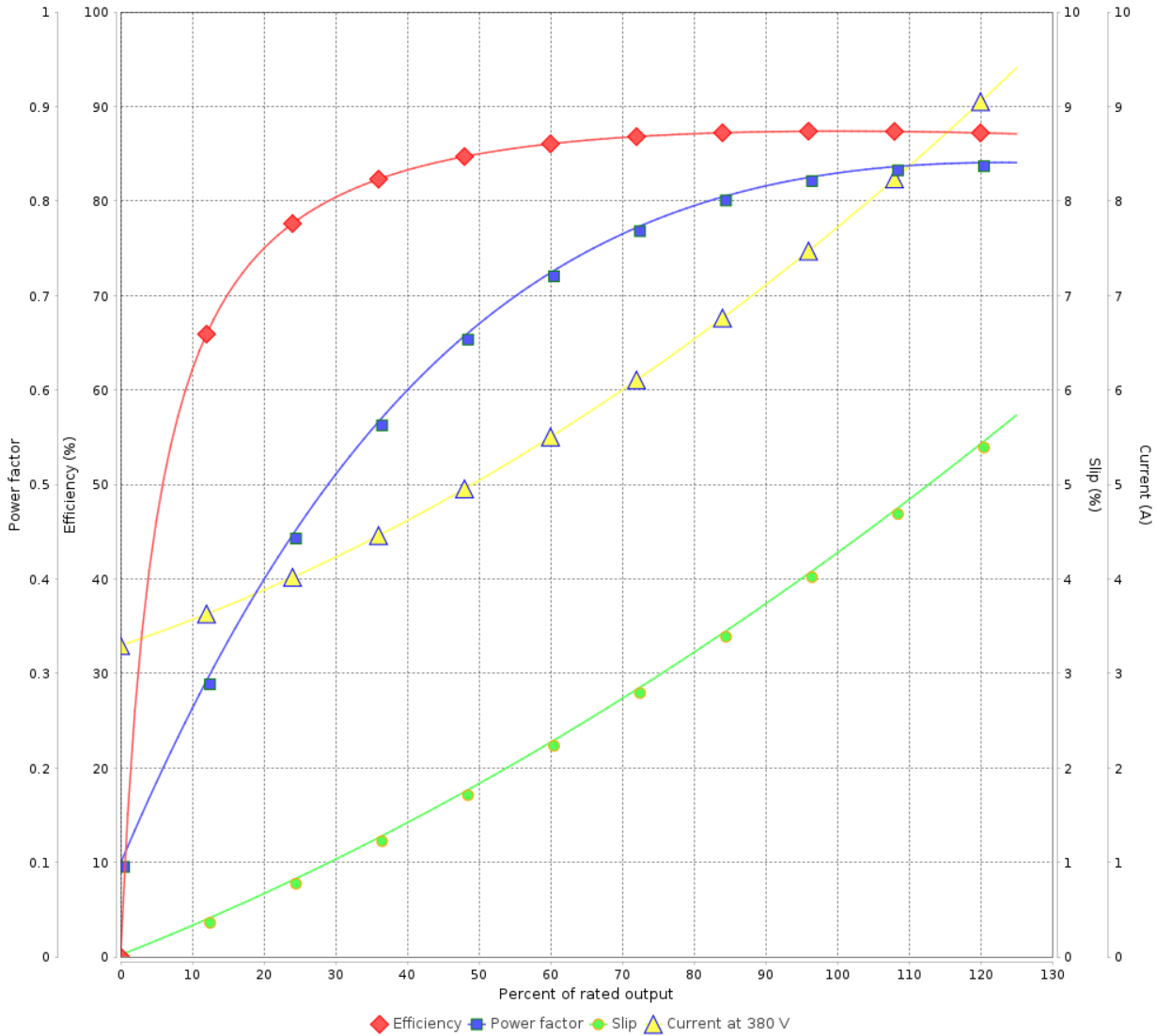
Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current	: 7.74 A	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 2.53 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1435 rpm	Design	: B

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

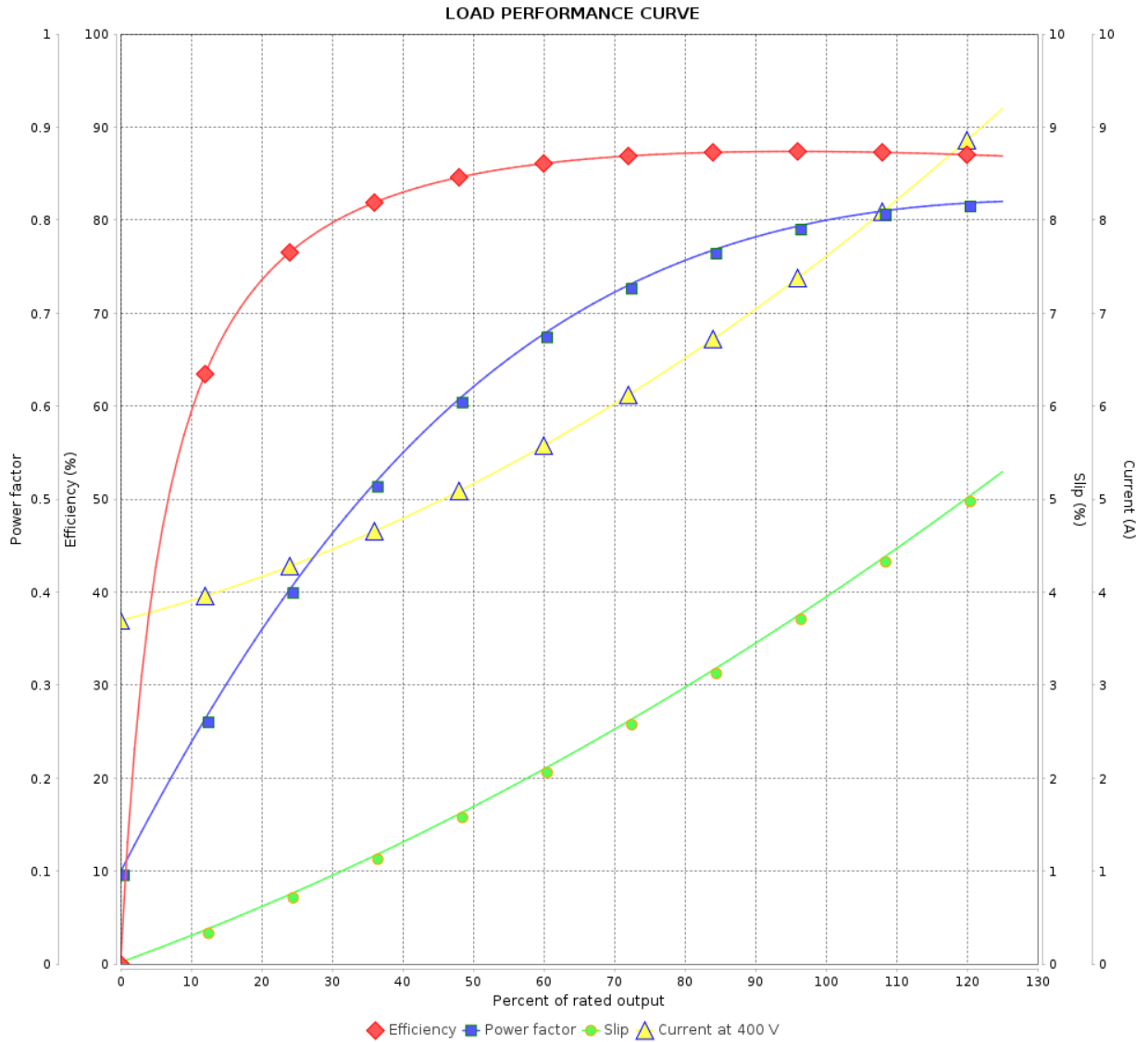
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871



Performance : 400 V 50 Hz 4P IE2

Rated current : 7.63 A	Moment of inertia (J) : 0.0147 kgm <sup>2</sup>
LRC : 6.1	Duty cycle : Cont.(S1)
Rated torque : 2.52 kgfm	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 250 %	Temperature rise : 105 K
Rated speed : 1440 rpm	Design : B

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

# LOAD PERFORMANCE CURVE

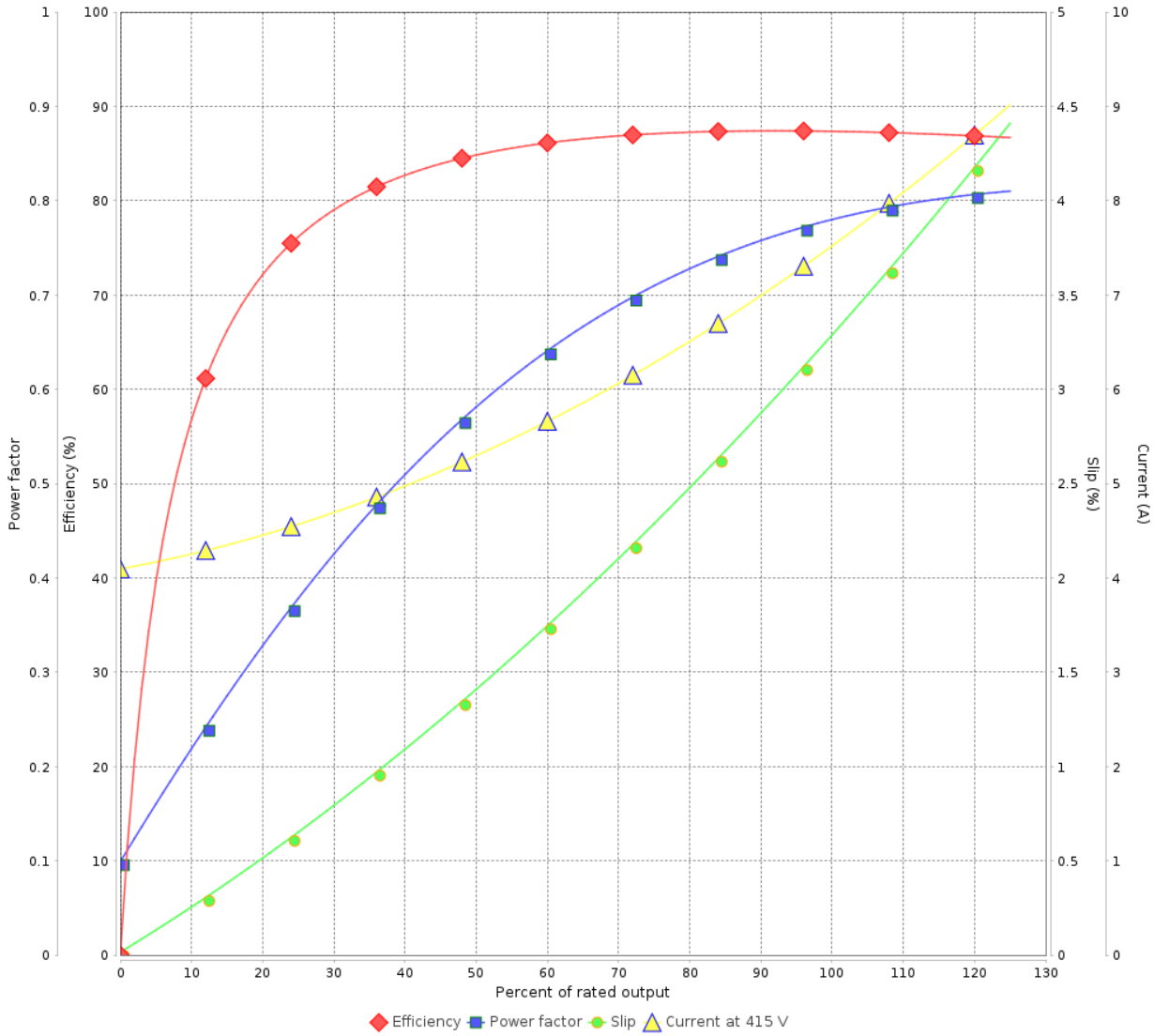
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10015871

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P IE2

Rated current	: 7.54 A	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 2.50 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 105 K
Rated speed	: 1450 rpm	Design	: B

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