

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : ODP NEMA Premium Efficiency Three-Phase	Product code : 13870307						
Frame : 444/5T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP23 Design : B	Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 705 kg Moment of inertia (J) : 2.41 kgm ²						
Output [HP]	150 125 125 125 150 150 150						
Poles	6 6 6 6 6 6 6						
Frequency [Hz]	60 50 50 50 50 50 50						
Rated voltage [V]	230/460 380 400 415 380 400 415						
Rated current [A]	366/183 182 178 176 219 210 208						
L. R. Amperes [A]	2416/1208 1401 1371 1338 1445 1386 1373						
LRC [A]	6.6x(Code H) 7.7x(Code J) 7.7x(Code J) 7.6x(Code J) 6.6x(Code H) 6.6x(Code H) 6.6x(Code H)						
No load current [A]	170/85.0 83.6 92.8 100 83.6 92.8 100						
Rated speed [RPM]	1185 980 985 985 980 985 985						
Slip [%]	1.25 2.00 1.50 1.50 2.00 1.50 1.50						
Rated torque [kgfm]	91.9 92.6 92.1 92.1 111 111 111						
Locked rotor torque [%]	220 200 229 250 170 190 210						
Breakdown torque [%]	240 229 250 280 190 210 229						
Service factor	1.15 1.15 1.15 1.15 1.00 1.00 1.00						
Temperature rise	105 K 105 K 105 K 105 K 105 K 105 K 105 K						
Locked rotor time	32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot)						
Noise level ²	79.0 dB(A) 79.0 dB(A) 79.0 dB(A) 79.0 dB(A) 79.0 dB(A) 79.0 dB(A) 79.0 dB(A)						
Efficiency (%)	25%						
	50%	94.5	92.5	92.3	91.5	94.1	93.6
	75%	95.0	94.4	94.4	94.2	94.1	94.1
	100%	95.4	94.9	94.9	94.9	94.3	94.5
Power Factor	25%						
	50%	0.62	0.62	0.58	0.54	0.68	0.60
	75%	0.73	0.74	0.70	0.67	0.77	0.72
	100%	0.79	0.79	0.77	0.75	0.81	0.78
Bearing type	Drive end : NU-319 C3	Non drive end : 6316 C3	Foundation loads				
Sealing	Without	Without	Max. traction : 1871 kgf				
	Bearing Seal	Bearing Seal	Max. compression : 2576 kgf				
Lubrication interval	: 20000 h	: 20000 h					
Lubricant amount	: 45 g	: 34 g					
Lubricant type	: Mobil Polyrex EM						
Notes USABLE @208V 405A SF 1.00 SFA 405A							
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	06/02/2024					1 / 8	

LOAD PERFORMANCE CURVE

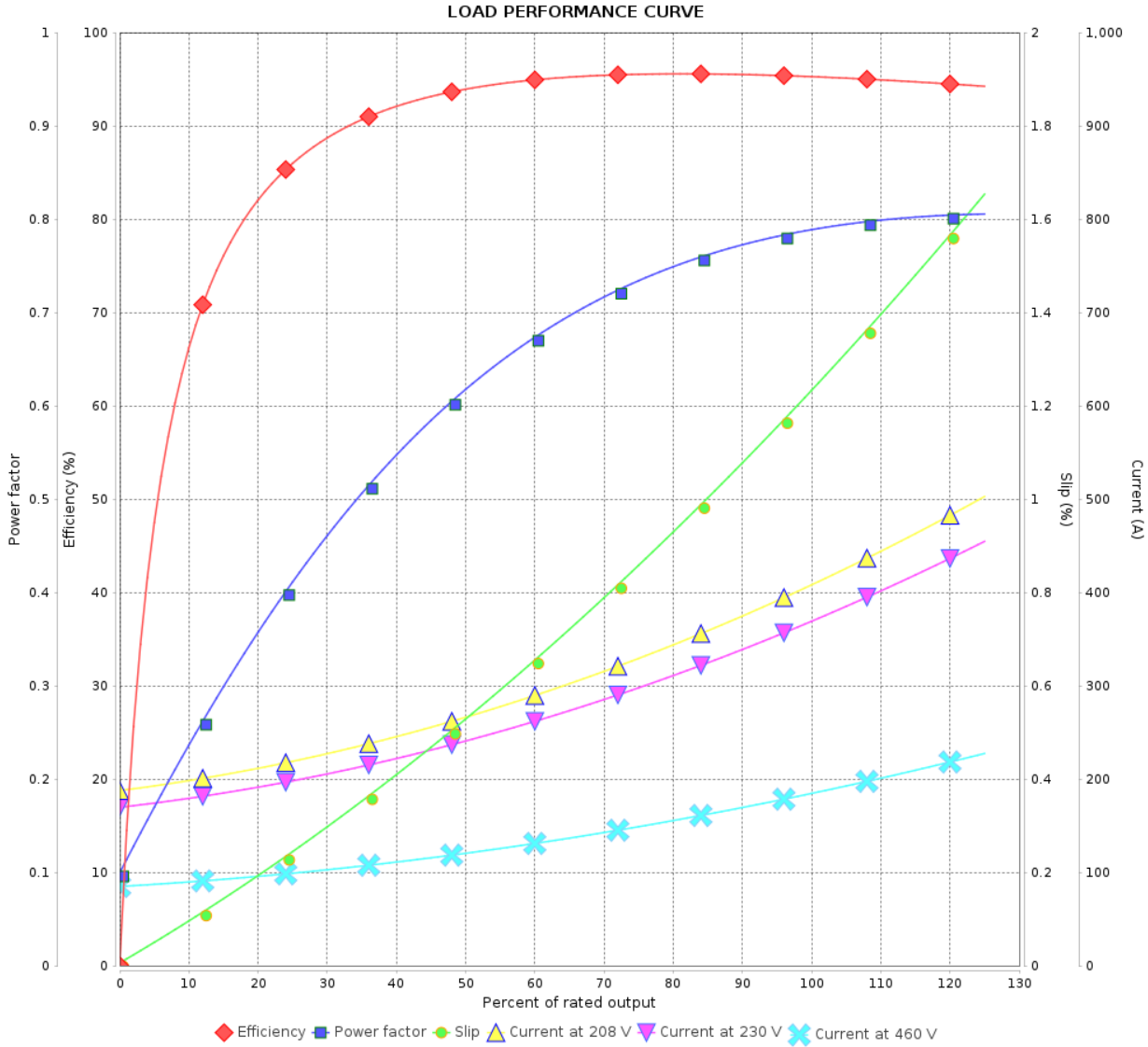
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 230/460 V 60 Hz 6P

Rated current : 366/183 A
 LRC : 6.6
 Rated torque : 91.9 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1185 rpm

Moment of inertia (J) : 2.41 kgm²
 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	Revision
Checked by			2 / 8	
Date	06/02/2024			

LOAD PERFORMANCE CURVE

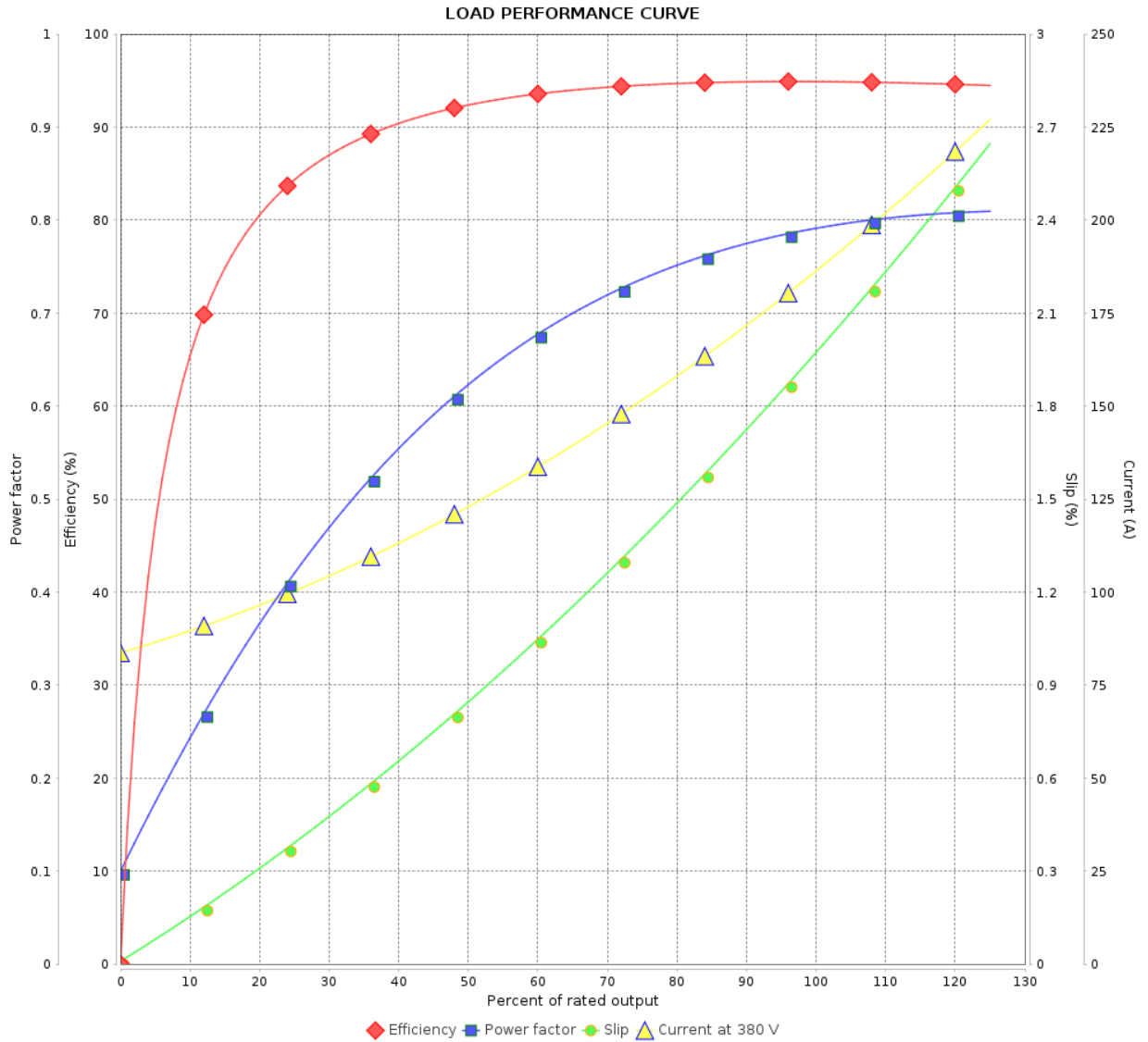
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 380 V 50 Hz 6P IE3

Rated current : 182 A
 LRC : 7.7
 Rated torque : 92.6 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 980 rpm

Moment of inertia (J) : 2.41 kgm²
 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	Revision
Checked by				
Date				

LOAD PERFORMANCE CURVE

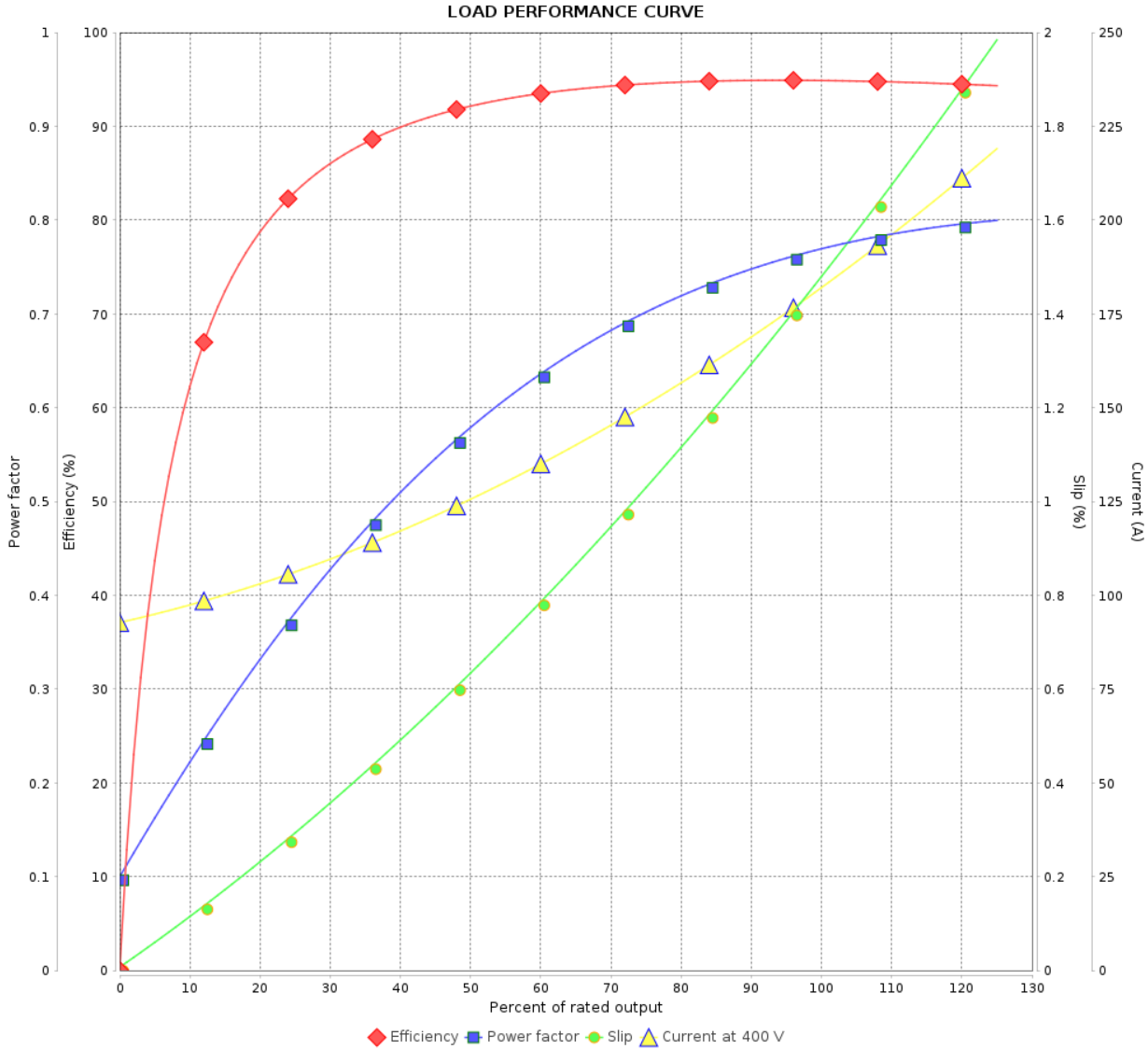
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 400 V 50 Hz 6P IE3

Rated current : 178 A
 LRC : 7.7
 Rated torque : 92.1 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 985 rpm

Moment of inertia (J) : 2.41 kgm²
 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 4 / 8	Revision
Checked by				
Date	06/02/2024			

LOAD PERFORMANCE CURVE

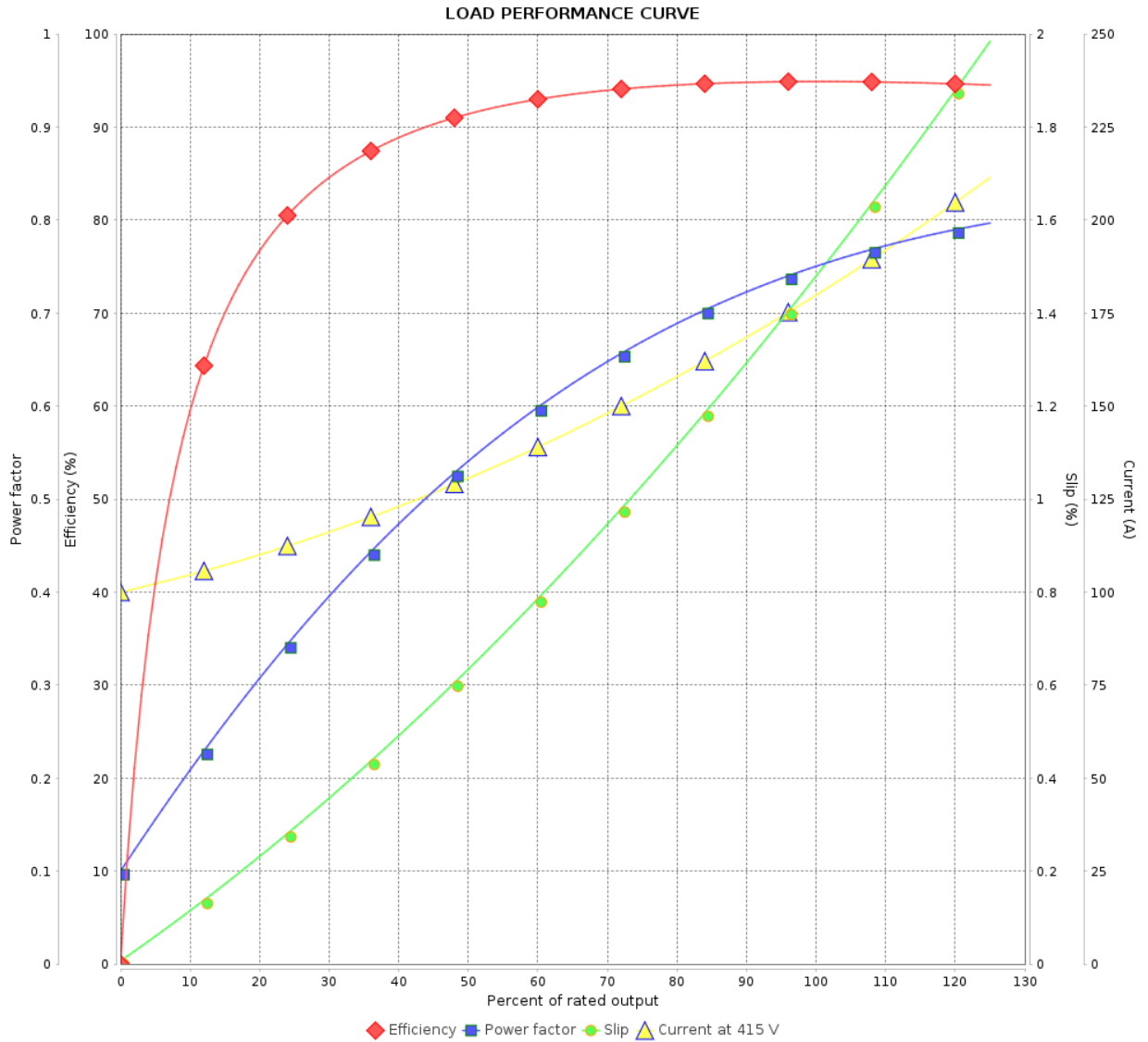
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 415 V 50 Hz 6P IE3

Rated current : 176 A
 LRC : 7.6
 Rated torque : 92.1 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 985 rpm

Moment of inertia (J) : 2.41 kgm²
 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				
Checked by				
Date				
		Page	Revision	
		5 / 8		

LOAD PERFORMANCE CURVE

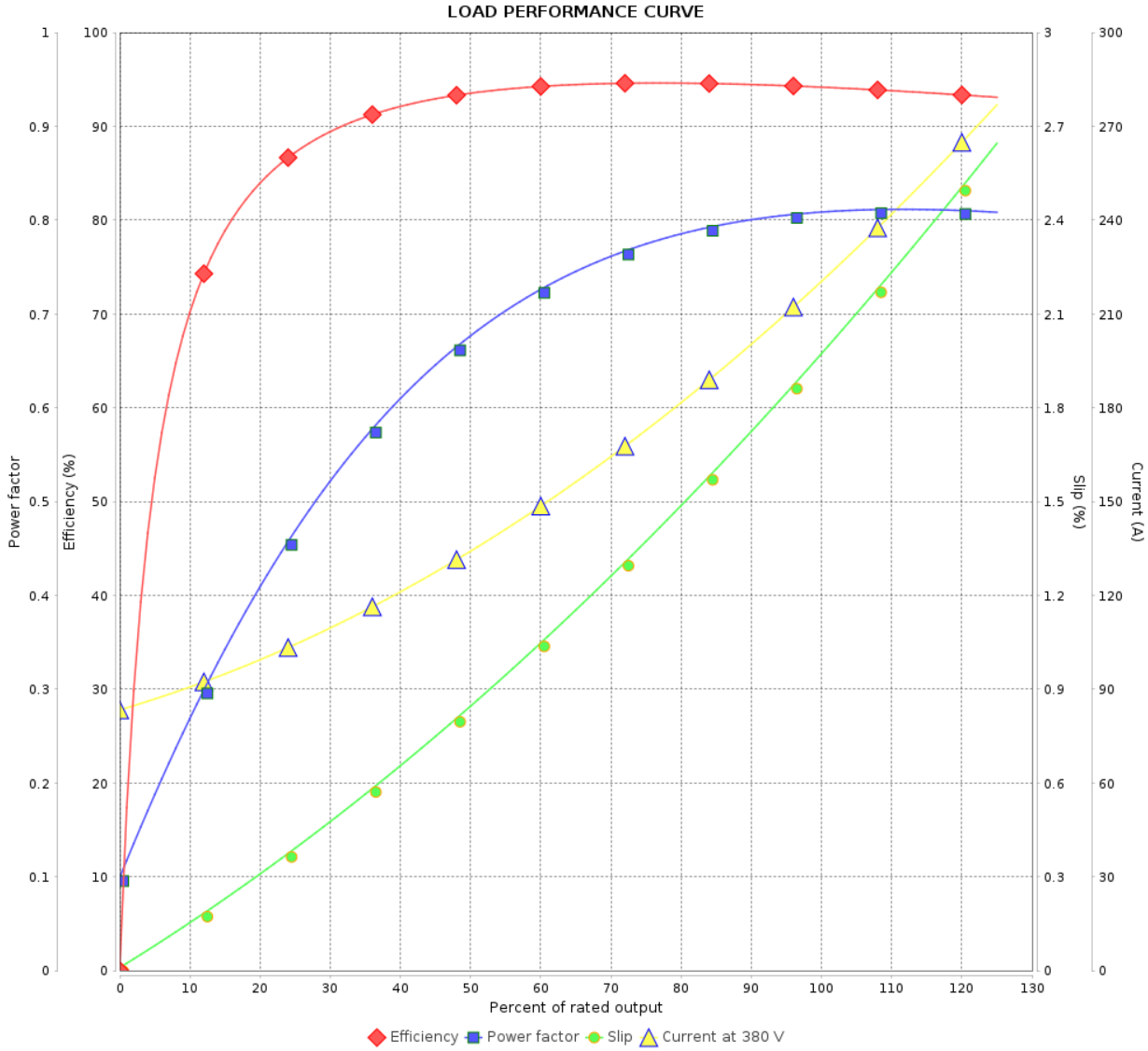
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 380 V 50 Hz 6P IE2

Rated current : 219 A	Moment of inertia (J) : 2.41 kgm ²
LRC : 6.6	Duty cycle : Cont.(S1)
Rated torque : 111 kgfm	Insulation class : F
Locked rotor torque : 170 %	Service factor : 1.00
Breakdown torque : 190 %	Temperature rise : 105 K
Rated speed : 980 rpm	Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 8	Revision
Checked by				
Date	06/02/2024			

LOAD PERFORMANCE CURVE

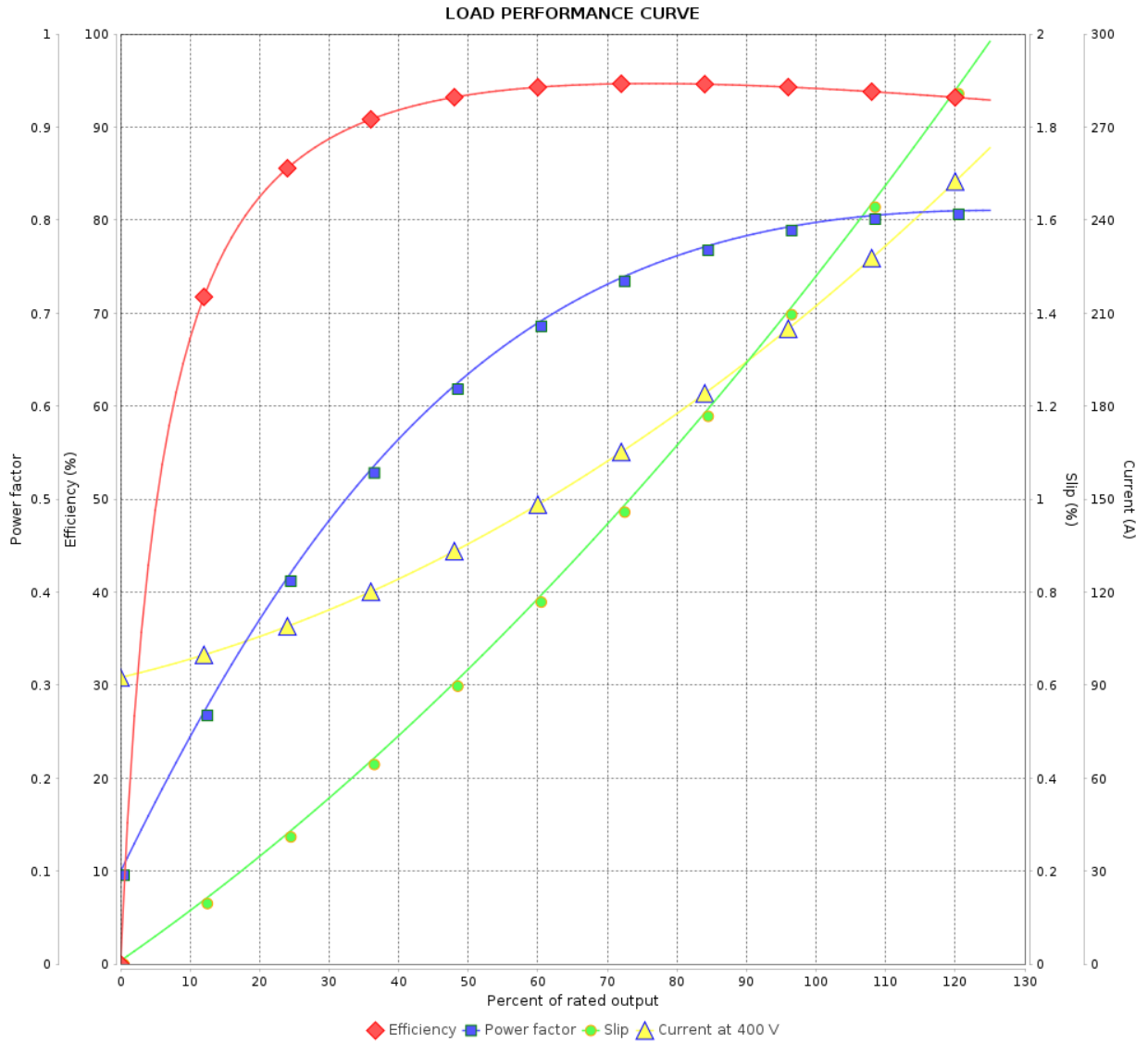
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 400 V 50 Hz 6P IE2

Rated current : 210 A
 LRC : 6.6
 Rated torque : 111 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 985 rpm

Moment of inertia (J) : 2.41 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 7 / 8	Revision
Checked by				
Date	06/02/2024			

LOAD PERFORMANCE CURVE

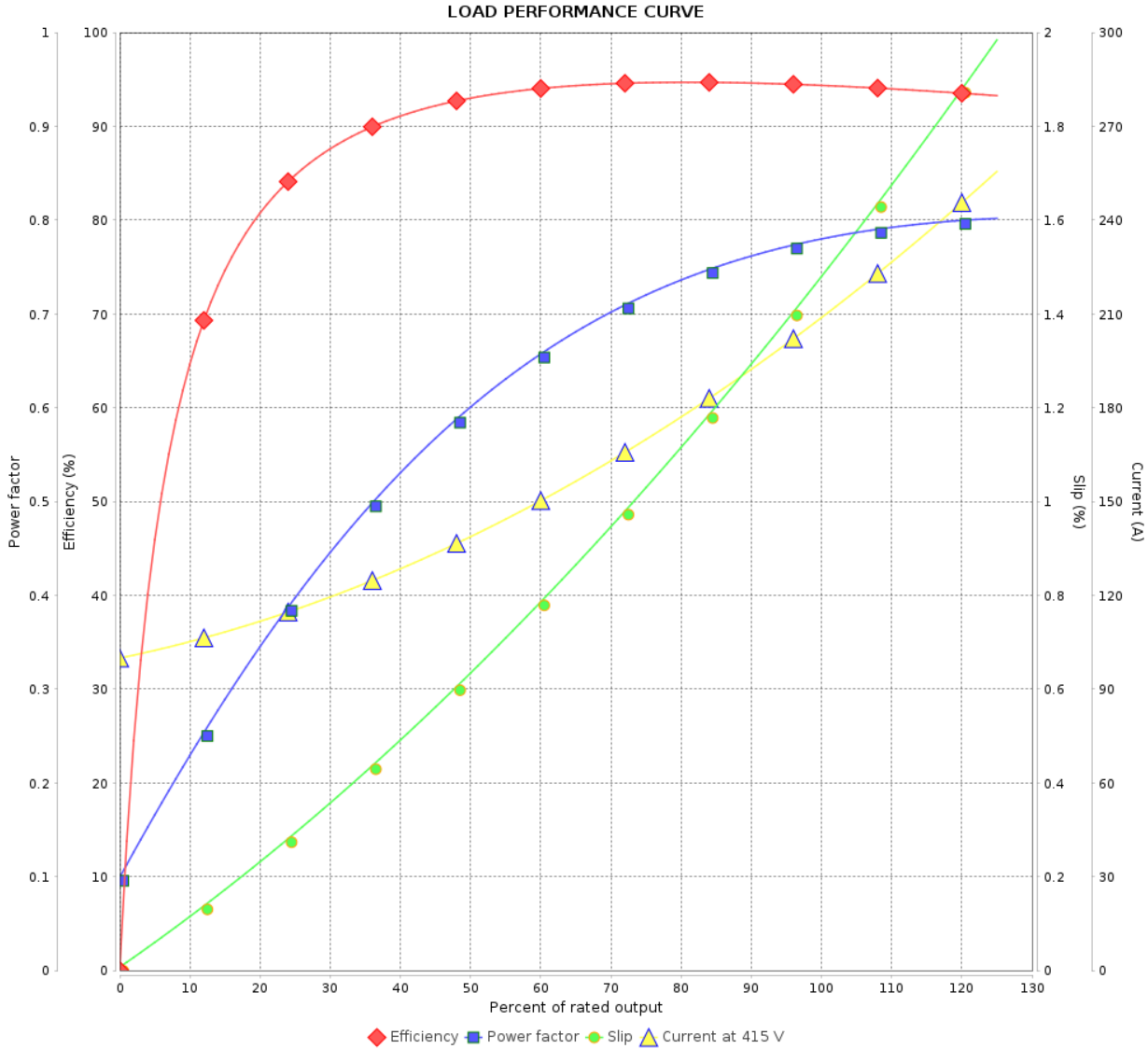
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 13870307



Performance : 415 V 50 Hz 6P IE2

Rated current	: 208 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 111 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 8 / 8	Revision
Checked by				
Date	06/02/2024			