

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	10341106					
Frame	: 444/5T	Cooling method	: IC01 - ODP					
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 ²	: 673 kg					
Protection degree	: IP23	Moment of inertia (J)	: 2.09 kgm ²					
Design	: B							
Output [HP]	150	125	125	125	150	150	150	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	166	165	159	155	201	193	188	
L. R. Amperes [A]	1096	1271	1336	1442	1307	1370	1466	
LRC [A]	6.6x(Code G)	7.7x(Code H)	8.4x(Code J)	9.3x(Code K)	6.5x(Code G)	7.1x(Code H)	7.8x(Code H)	
No load current [A]	52.0	61.8	66.9	71.9	61.8	66.9	71.9	
Rated speed [RPM]	1785	1485	1485	1485	1485	1485	1485	
Slip [%]	0.83	1.00	1.00	1.00	1.00	1.00	1.00	
Rated torque [kgfm]	61.0	61.1	61.1	61.1	73.3	73.3	73.3	
Locked rotor torque [%]	200	240	250	260	200	210	220	
Breakdown torque [%]	240	290	310	350	240	260	290	
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	34s (cold) 19s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)	
Noise level ²	78.0 dB(A)							
Efficiency (%)	25%	95.3	91.0	90.9	90.7	92.8	92.8	92.8
	50%	95.4	92.3	92.2	92.0	93.4	93.4	93.4
	75%	95.8	93.9	93.9	94.0	94.0	94.0	94.0
	100%	95.8	95.2	95.2	95.2	94.5	94.5	94.5
Power Factor	25%	0.52	0.48	0.44	0.41	0.53	0.50	0.47
	50%	0.77	0.73	0.70	0.67	0.78	0.75	0.72
	75%	0.84	0.83	0.81	0.79	0.86	0.85	0.84
	100%	0.87	0.87	0.86	0.85	0.88	0.87	0.86
Bearing type	: 6319 C3	Drive end	Non drive end	Foundation loads				
Sealing	: Without	Without	Without	Max. traction	: 1523 kgf			
		Bearing Seal	Bearing Seal	Max. compression	: 2196 kgf			
Lubrication interval	: 20000 h	20000 h	20000 h					
Lubricant amount	: 45 g	34 g	34 g					
Lubricant type	: Mobil Polyrex EM							
Notes								
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

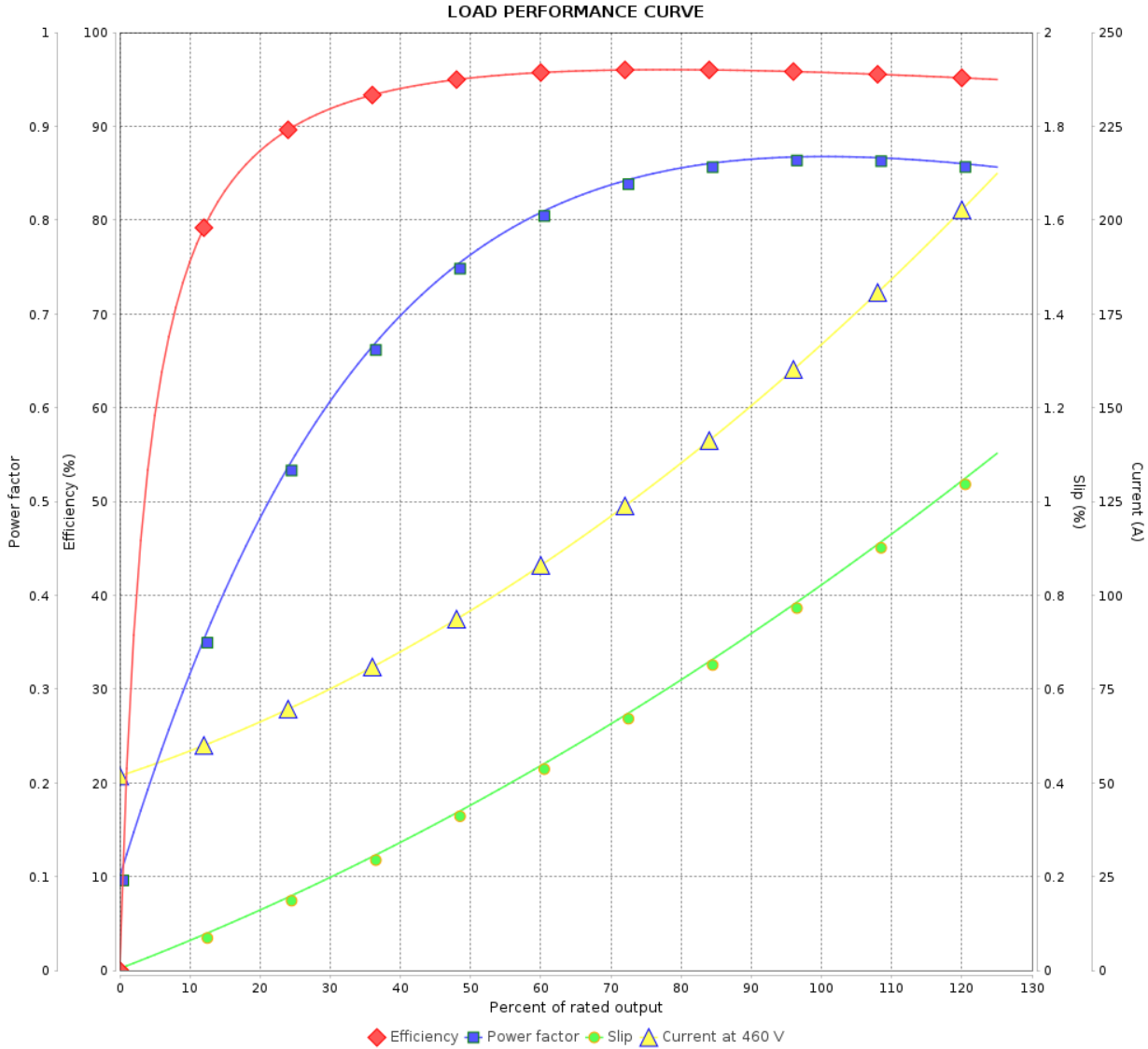
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 460 V 60 Hz 4P

Rated current : 166 A
 LRC : 6.6
 Rated torque : 61.0 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1785 rpm

Moment of inertia (J) : 2.09 kgm²
 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 2 / 8	Revision
Checked by				
Date	05/02/2024			

LOAD PERFORMANCE CURVE

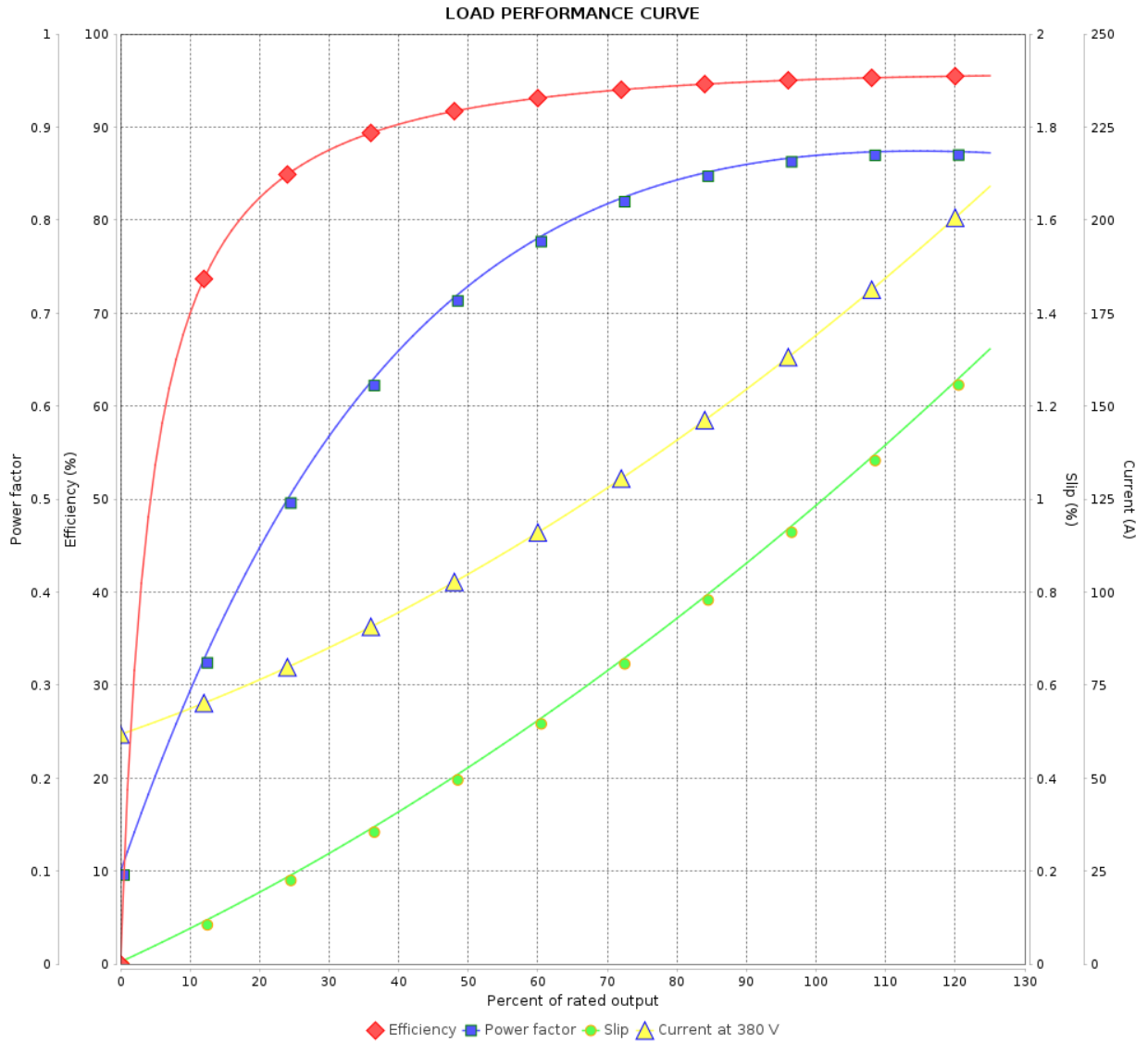
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 380 V 50 Hz 4P IE3

Rated current : 165 A
 LRC : 7.7
 Rated torque : 61.1 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 290 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.09 kgm²
 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				

LOAD PERFORMANCE CURVE

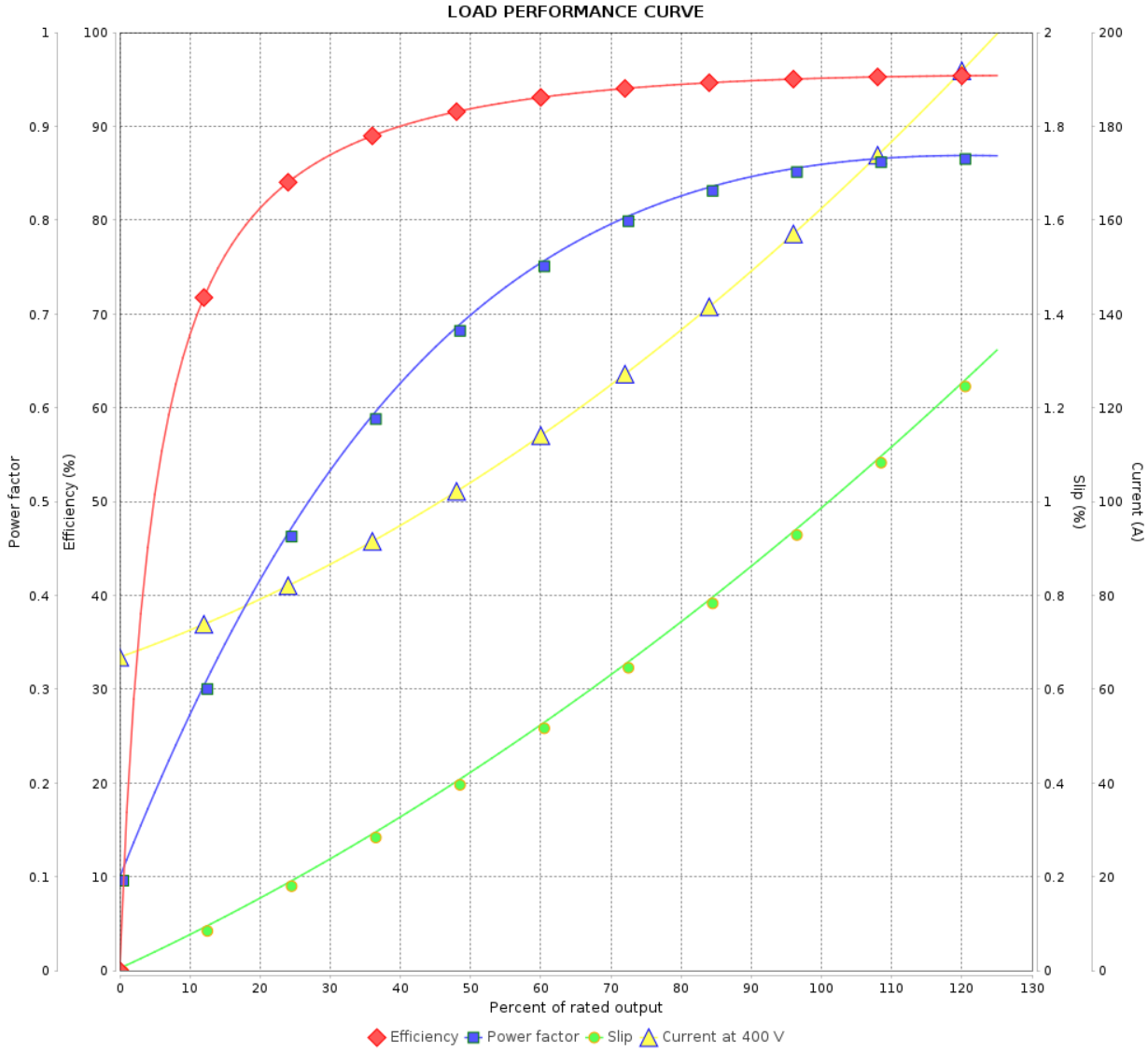
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 400 V 50 Hz 4P IE3

Rated current	: 159 A	Moment of inertia (J)	: 2.09 kgm ²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 61.1 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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

LOAD PERFORMANCE CURVE

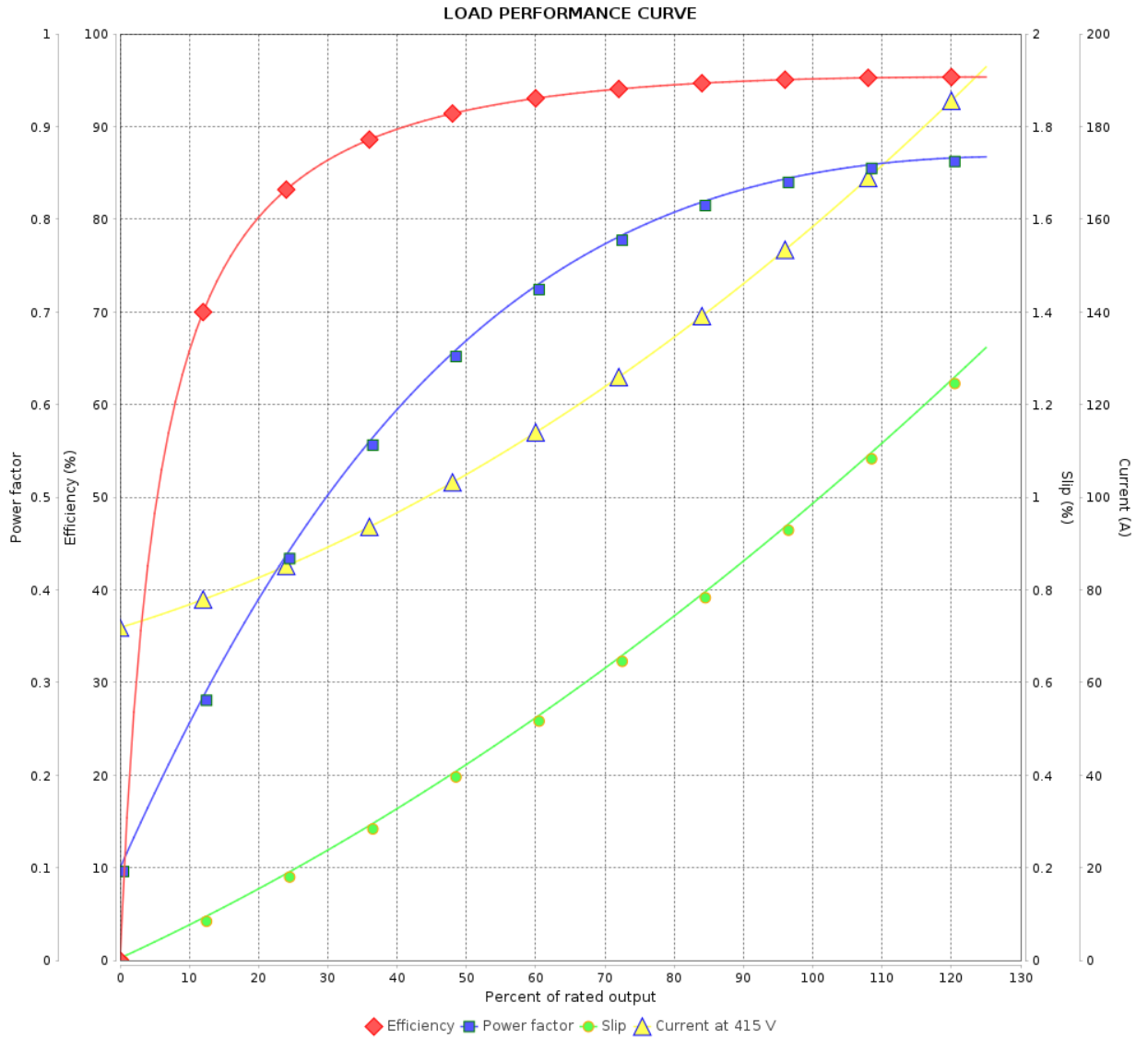
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 415 V 50 Hz 4P IE3

Rated current : 155 A
 LRC : 9.3
 Rated torque : 61.1 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 350 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.09 kgm²
 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					
Checked by					
Date					05/02/2024
		Page	Revision		
		5 / 8			

LOAD PERFORMANCE CURVE

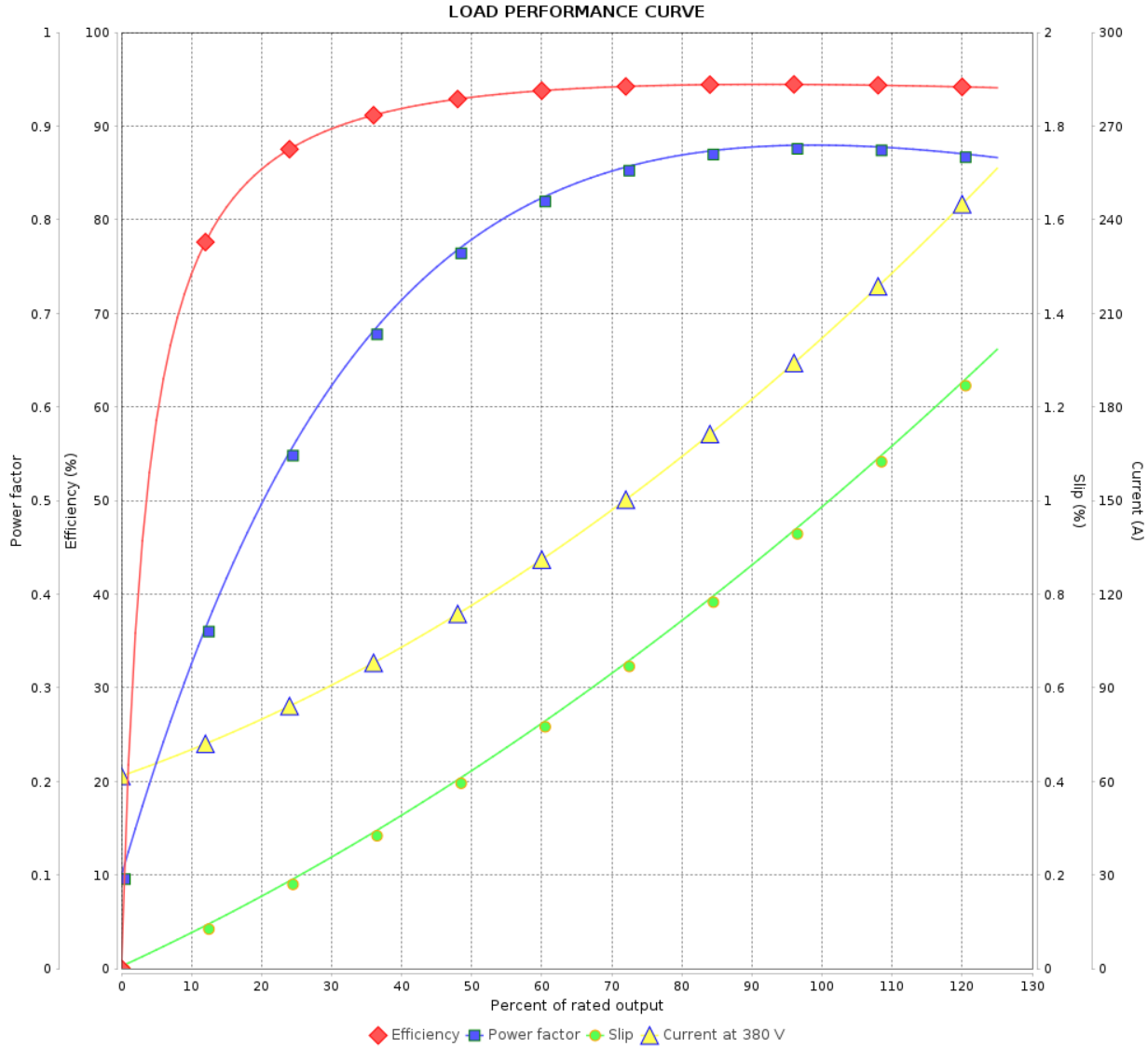
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 380 V 50 Hz 4P IE2

Rated current : 201 A
 LRC : 6.5
 Rated torque : 73.3 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.09 kgm²
 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 6 / 8	Revision
Checked by				
Date	05/02/2024			

LOAD PERFORMANCE CURVE

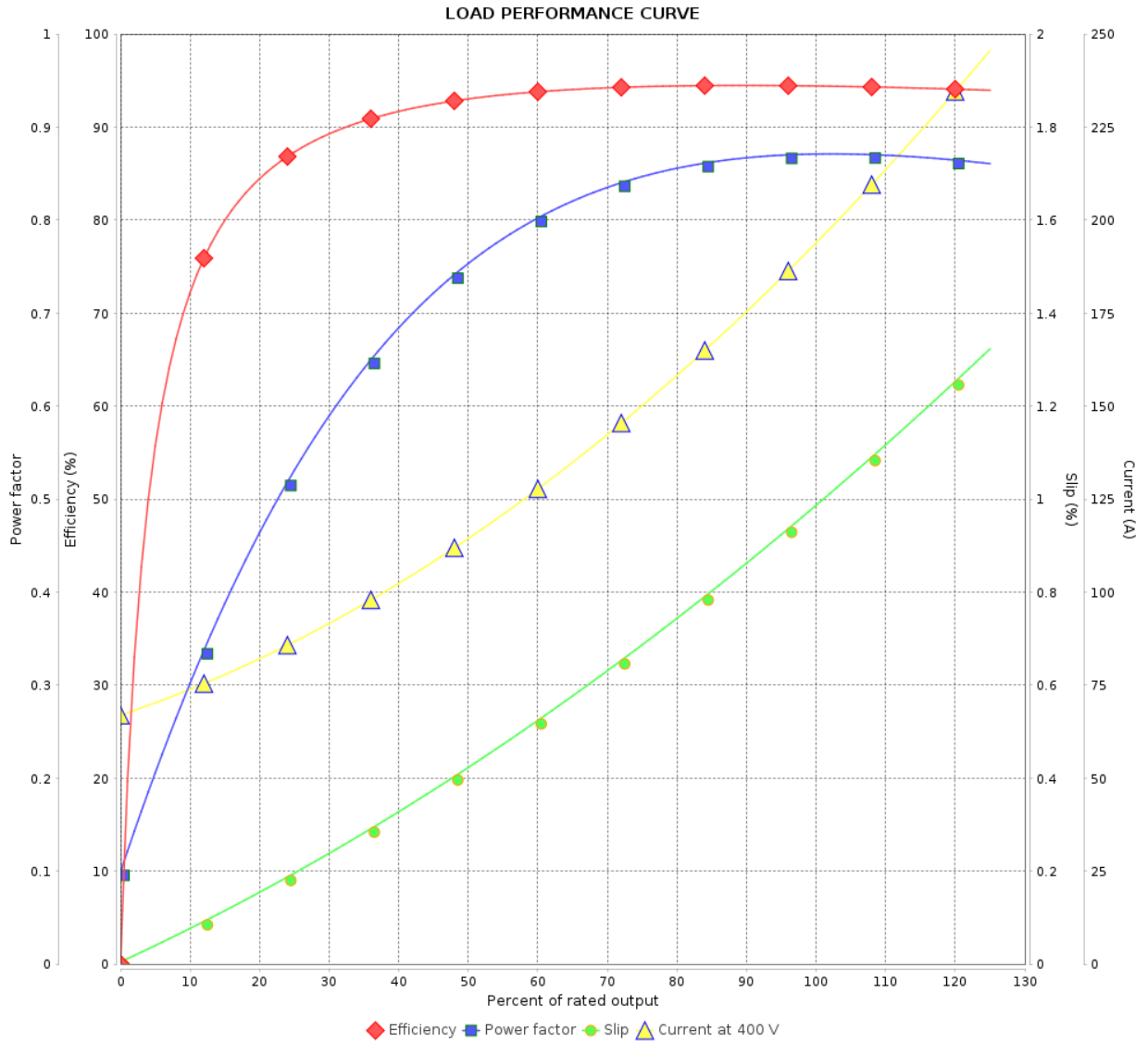
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 400 V 50 Hz 4P IE2

Rated current : 193 A
 LRC : 7.1
 Rated torque : 73.3 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.09 kgm²
 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		7 / 8		
Date		05/02/2024		

LOAD PERFORMANCE CURVE

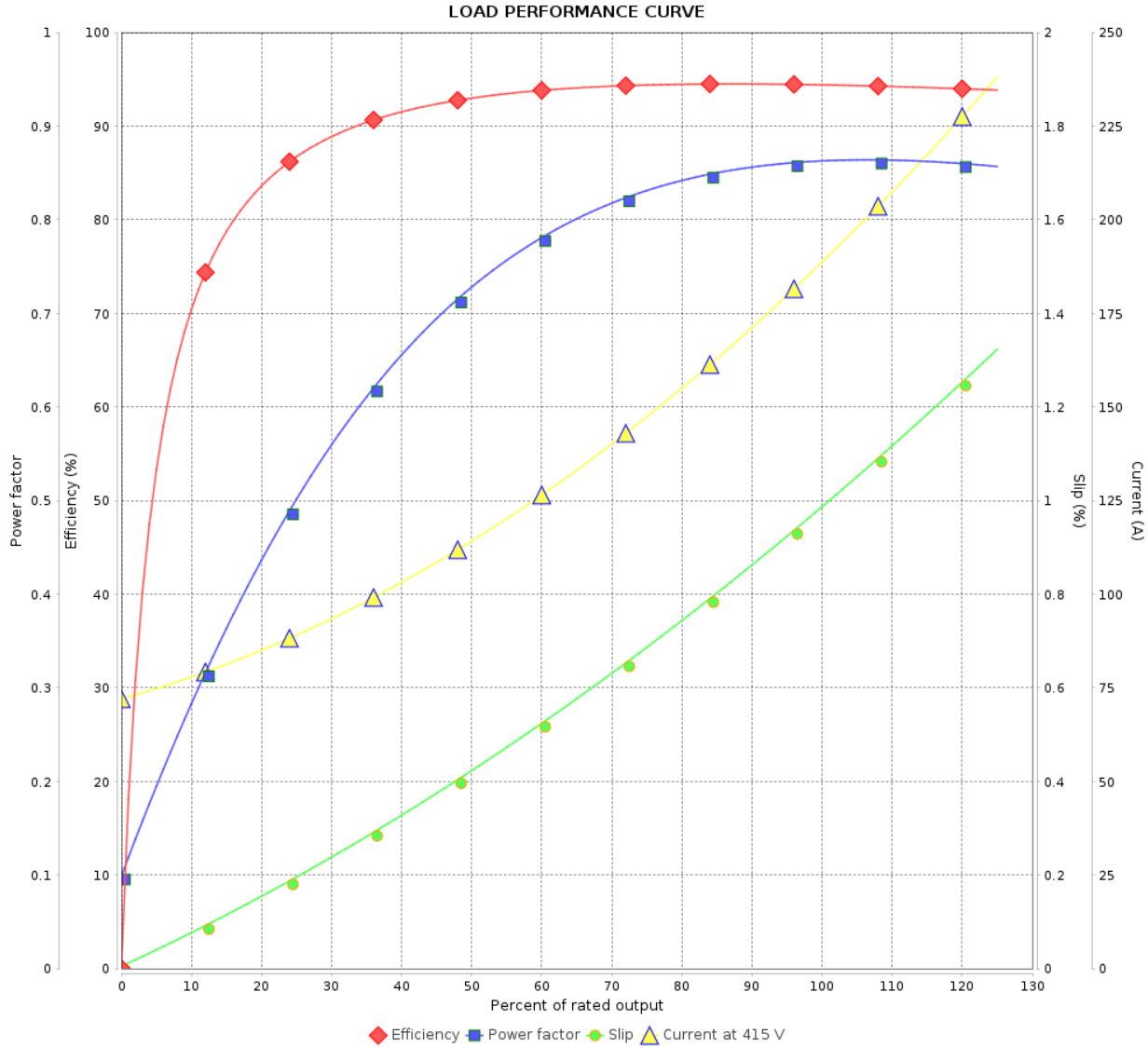
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10341106



Performance : 415 V 50 Hz 4P IE2

Rated current	: 188 A	Moment of inertia (J)	: 2.09 kgm ²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 73.3 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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