

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11441757

Frame : 182/4TC	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> : 43.3 kg
Protection degree : IP55	Moment of inertia (J) : 0.0094 kgm <sup>2</sup>
Design : B	

Output [HP]	5	4	4	4	5	5	5
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]	11.8/5.90	5.85	5.57	5.43	7.14	6.78	6.61
L. R. Amperes [A]	89.7/44.8	44.5	46.8	50.5	42.8	46.1	49.6
LRC [A]	7.6x(Code J)	7.6x(Code J)	8.4x(Code K)	9.3x(Code L)	6.0x(Code G)	6.8x(Code H)	7.5x(Code J)
No load current [A]	4.00/2.00	1.90	2.00	2.10	1.90	2.00	2.10
Rated speed [RPM]	3500	2900	2915	2920	2860	2880	2895
Slip [%]	2.78	3.33	2.83	2.67	4.67	4.00	3.50
Rated torque [kgfm]	1.04	1.00	0.996	0.994	1.27	1.26	1.25
Locked rotor torque [%]	229	220	250	270	180	200	220
Breakdown torque [%]	350	310	350	380	240	270	300
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise	80 K						
Locked rotor time	30s (cold) 17s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level <sup>2</sup>	66.0 dB(A)	62.0 dB(A)					
Efficiency (%)	25%	83.7			85.9		
	50%	86.5	86.3	86.3	86.1	87.5	87.5
	75%	88.3	87.7	88.2	88.2	87.5	88.5
	100%	88.5	87.5	88.3	88.3	86.5	87.5
Power Factor	25%	0.56			0.63		
	50%	0.76	0.74	0.71	0.68	0.81	0.78
	75%	0.85	0.85	0.83	0.81	0.88	0.87
	100%	0.89	0.89	0.88	0.87	0.91	0.90

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	12.4	13.7	12.7	12.7	14.9	13.7	13.7
	P2 (0,5;1,0)	10.3	11.3	10.5	10.5	12.3	11.3	11.3
	P3 (0,25;1,0)	9.8	10.8	10.0	10.0	11.8	10.8	10.8
	P4 (0,9;0,5)	6.2	6.8	6.3	6.3	7.5	6.8	6.8
	P5 (0,5;0,5)	3.9	4.3	4.0	4.0	4.7	4.3	4.3
	P6 (0,5;0,25)	2.5	2.7	2.5	2.5	3.0	2.7	2.7
	P7 (0,25;0,25)	1.6	1.8	1.6	1.6	1.9	1.8	1.8

Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	Drive end	6207 ZZ	Non drive end	6206 ZZ	Foundation loads Max. traction : 57 kgf Max. compression : 100 kgf
		V'Ring		V'Ring	
		-		-	
		-		-	
		00088			

This revision replaces and cancel the previous one, which must be eliminated.

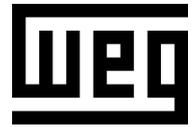
(1) Looking the motor from the shaft end.

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	18/03/2026				1 / 9	

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



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

Notes  
USABLE @208V 13.1A SF 1.15 SFA 15.0A

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	18/03/2026		2 / 9	

# LOAD PERFORMANCE CURVE

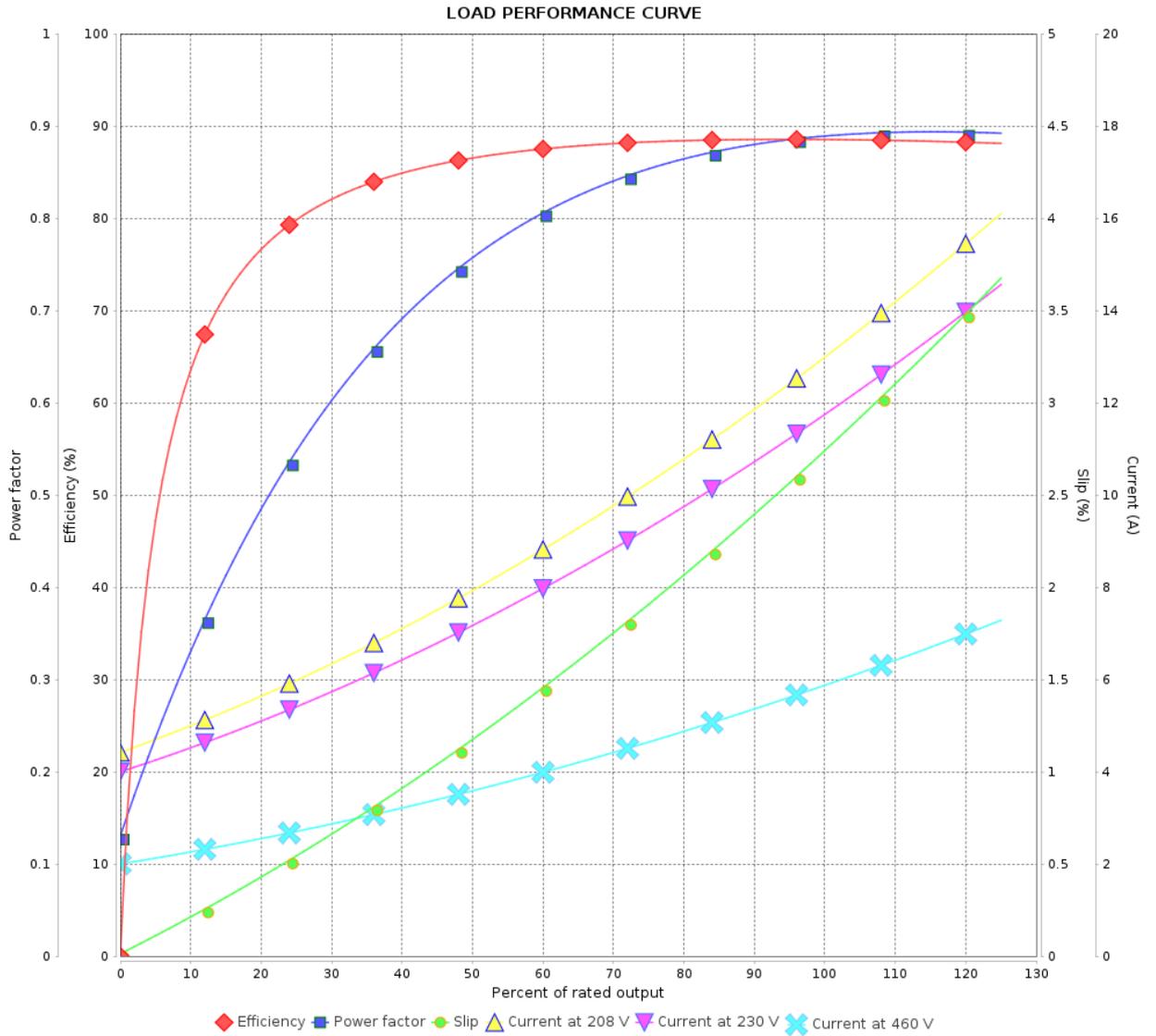
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 9	Revision
Checked by				
Date				

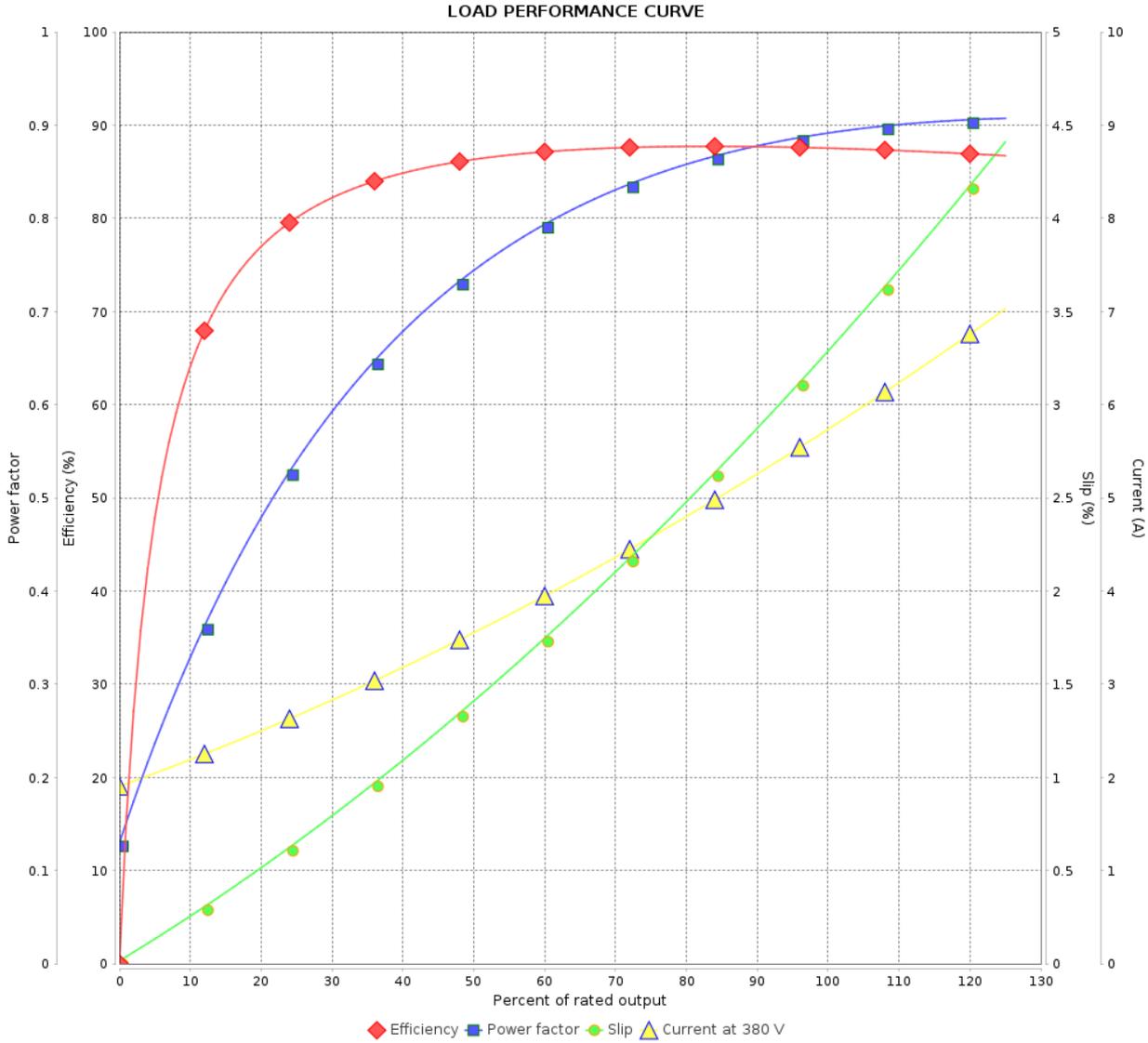
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 9	Revision
Checked by				
Date				

# LOAD PERFORMANCE CURVE

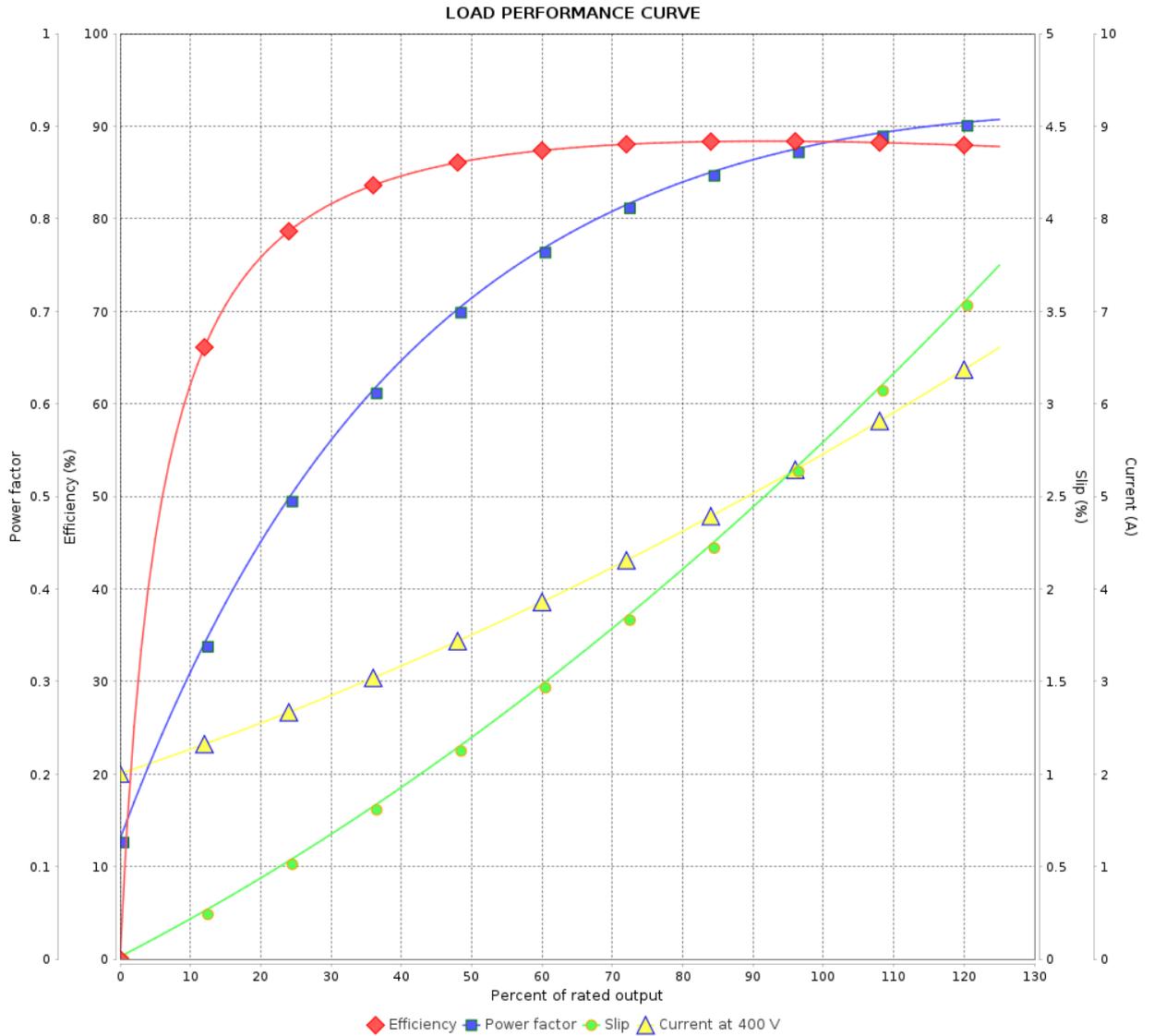
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

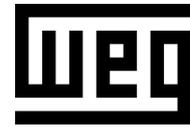
Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page 5 / 9	Revision

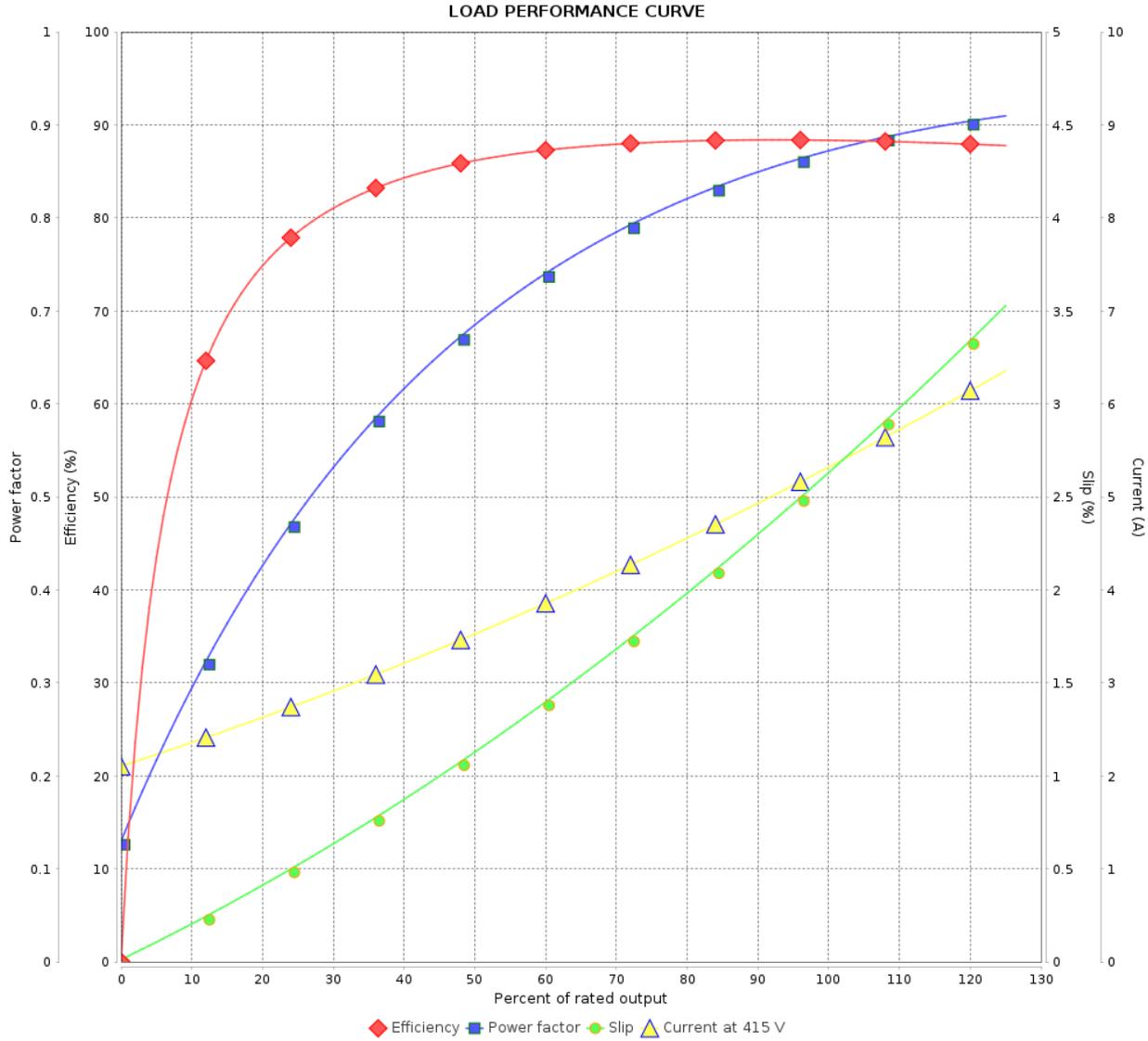
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		6 / 9		
Date		18/03/2026		

# LOAD PERFORMANCE CURVE

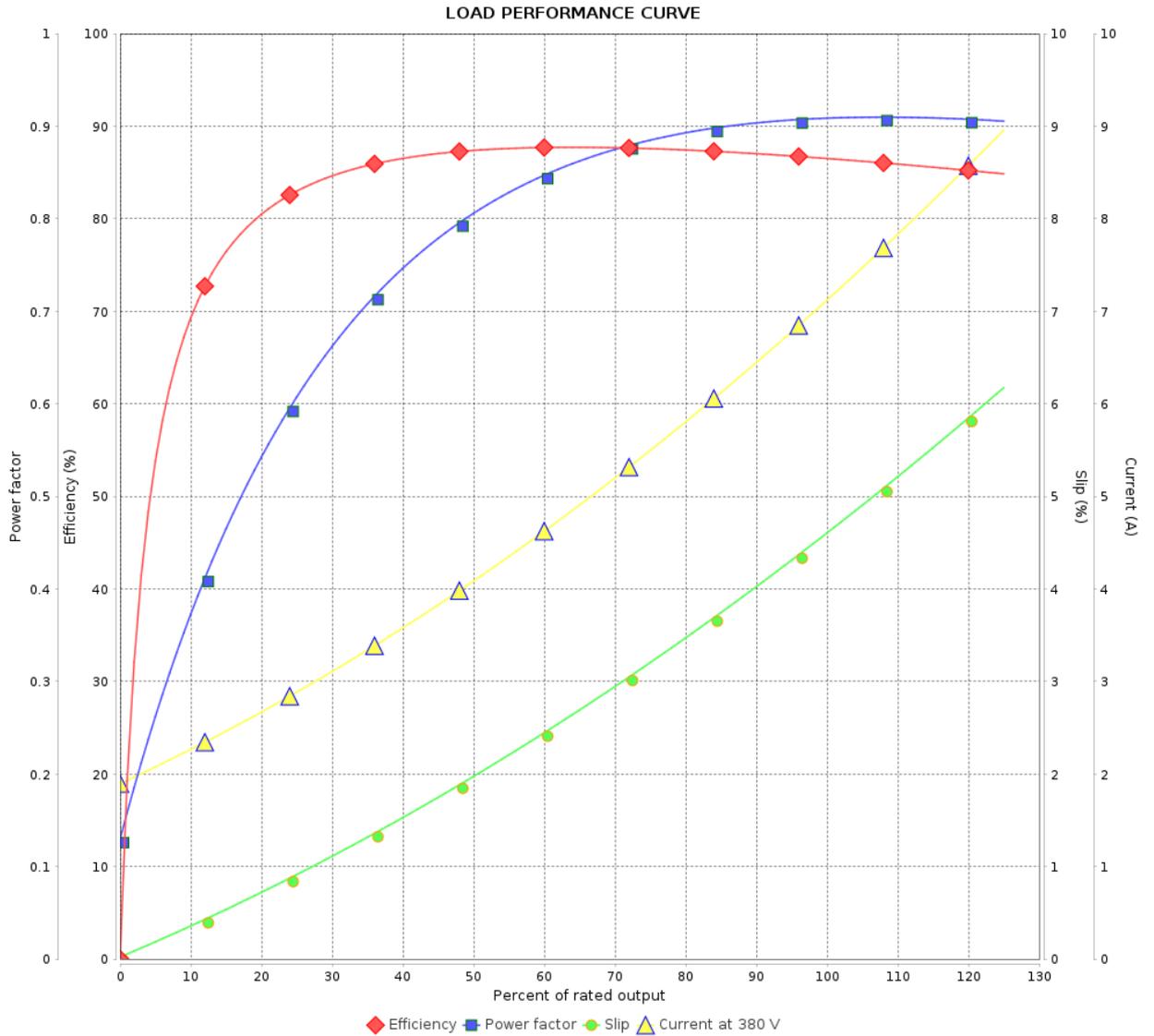
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

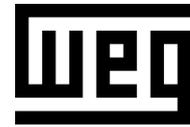
Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page	Revision
			7 / 9	

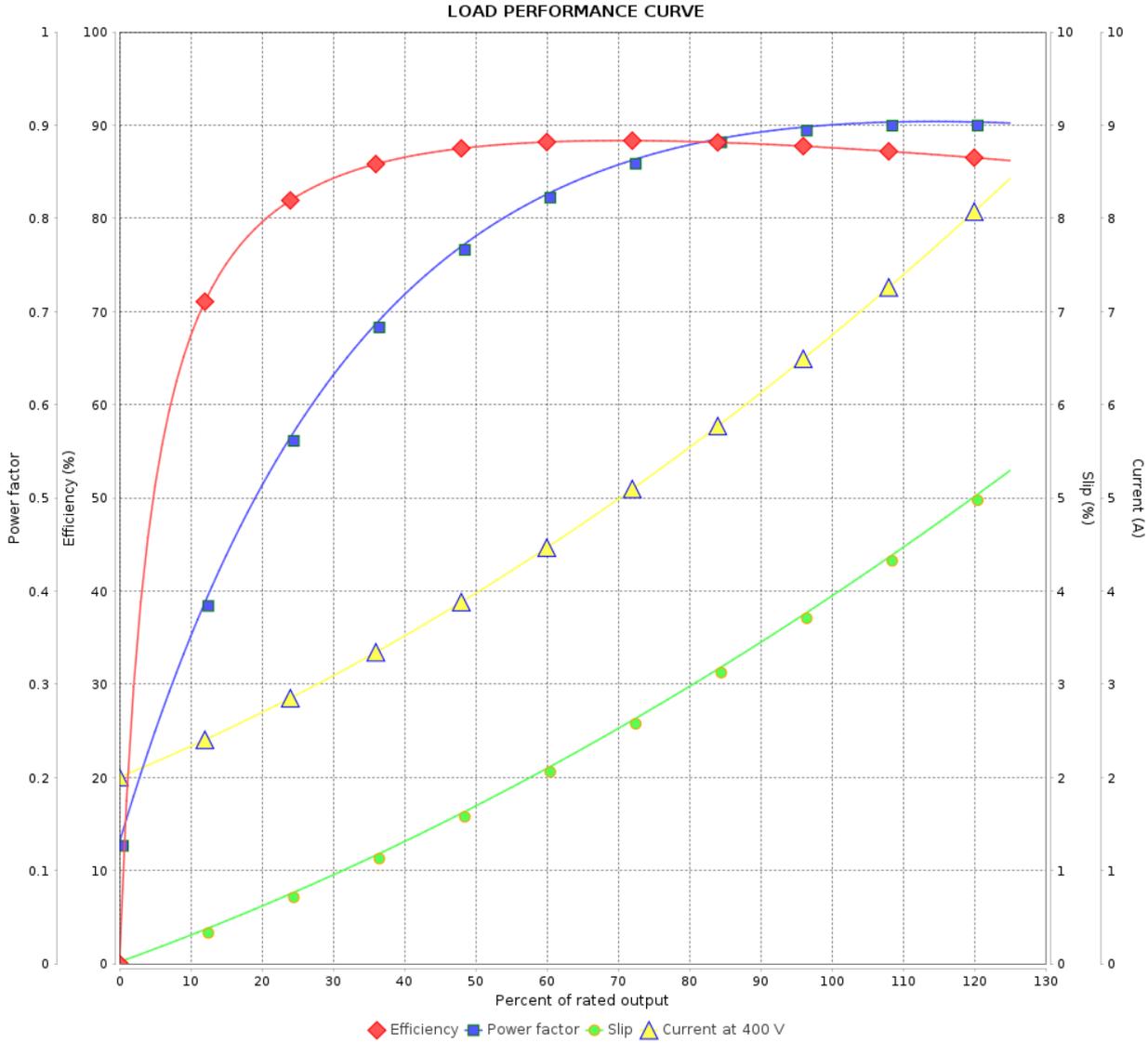
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		8 / 9		
Date		18/03/2026		

# LOAD PERFORMANCE CURVE

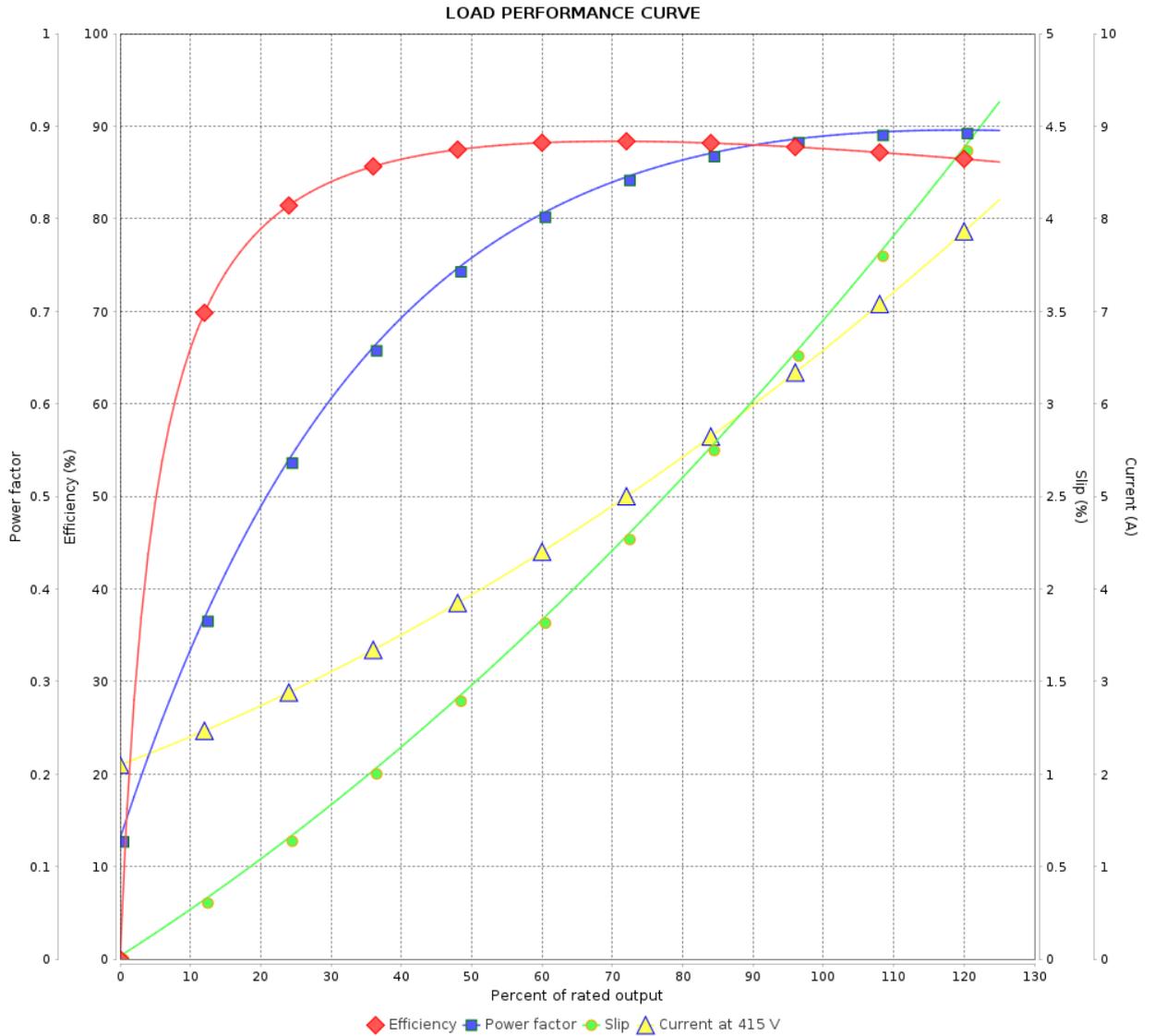
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11441757



Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page	Revision
			9 / 9	