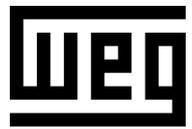


# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :							
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11991851				
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>	: 46.7 kg				
Protection degree	: IP55	Moment of inertia (J)	: 0.0095 kgm <sup>2</sup>				
Design	: A						
Output [HP]	7.5	5.5	5.5	5.5	7.5	7.5	7.5
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]	17.5/8.76	7.84	7.62	7.47	10.9	10.3	10.0
L. R. Amperes [A]	144/71.8	65.1	69.3	71.7	68.7	72.1	74.0
LRC [A]	8.2x(Code J)	8.3x(Code J)	9.1x(Code K)	9.6x(Code L)	6.3x(Code G)	7.0x(Code H)	7.4x(Code H)
No load current [A]	5.80/2.90	2.70	3.00	3.20	2.70	3.00	3.20
Rated speed [RPM]	3485	2900	2910	2915	2810	2840	2860
Slip [%]	3.19	3.33	3.00	2.83	6.33	5.33	4.67
Rated torque [kgfm]	1.56	1.38	1.37	1.37	1.94	1.92	1.90
Locked rotor torque [%]	270	310	350	370	220	250	270
Breakdown torque [%]	330	360	390	430	260	280	310
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>	66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%						
	50%	88.5	85.5	85.9	86.2	87.0	87.5
	75%	89.5	87.0	87.6	88.1	87.0	88.0
	100%	89.5	88.1	88.1	88.7	84.5	86.0
Power Factor	25%						
	50%	0.75	0.70	0.66	0.63	0.80	0.77
	75%	0.84	0.82	0.79	0.77	0.88	0.86
	100%	0.88	0.88	0.86	0.84	0.91	0.90
Losses at normative operating points (speed;torque), in percentage of rated output power							
Losses (%)	P1 (0,9;1,0)	11.4	11.4	11.4	11.4	11.4	11.4
	P2 (0,5;1,0)	9.4	9.4	9.4	9.4	9.4	9.4
	P3 (0,25;1,0)	8.7	8.7	8.7	8.7	8.7	8.7
	P4 (0,9;0,5)	5.3	5.3	5.3	5.3	5.3	5.3
	P5 (0,5;0,5)	3.4	3.4	3.4	3.4	3.4	3.4
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3
Bearing type	: Drive end : 6207 ZZ	Non drive end : 6206 ZZ	Foundation loads				
Sealing	: V'Ring	V'Ring	Max. traction : 100 kgf				
Lubrication interval	: -	-	Max. compression : 147 kgf				
Lubricant amount	: -	-					
Lubricant type	: 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	
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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



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

Notes

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# LOAD PERFORMANCE CURVE

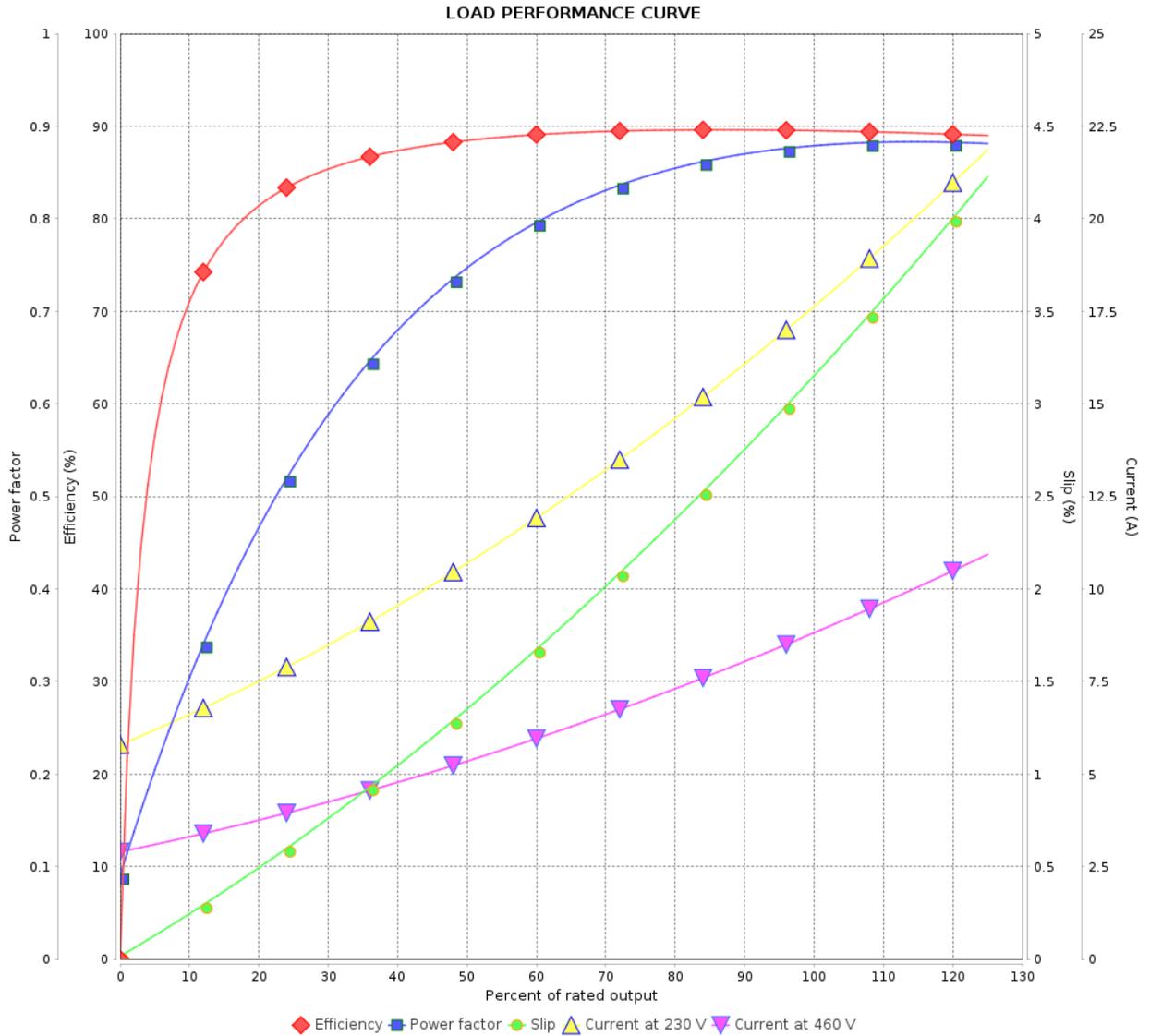
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11991851



Performance : 230/460 V 60 Hz 2P

Rated current : 17.5/8.76 A  
 LRC : 8.2  
 Rated torque : 1.56 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 330 %  
 Rated speed : 3485 rpm

Moment of inertia (J) : 0.0095 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : A

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

# LOAD PERFORMANCE CURVE

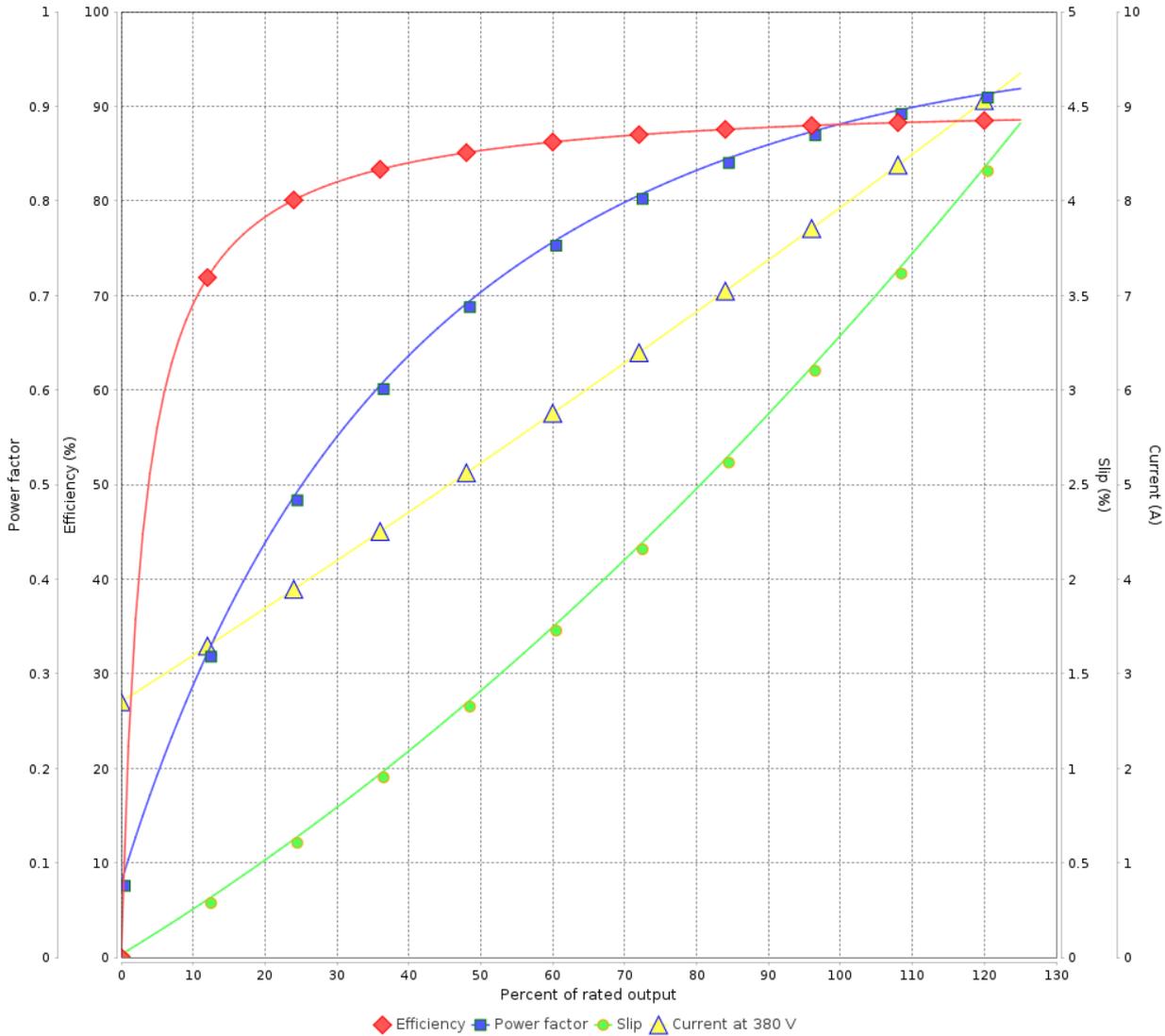
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11991851

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 2P IE3

Rated current	: 7.84 A	Moment of inertia (J)	: 0.0095 kgm <sup>2</sup>
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 1.38 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: A

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Date	14/11/2025			

# LOAD PERFORMANCE CURVE

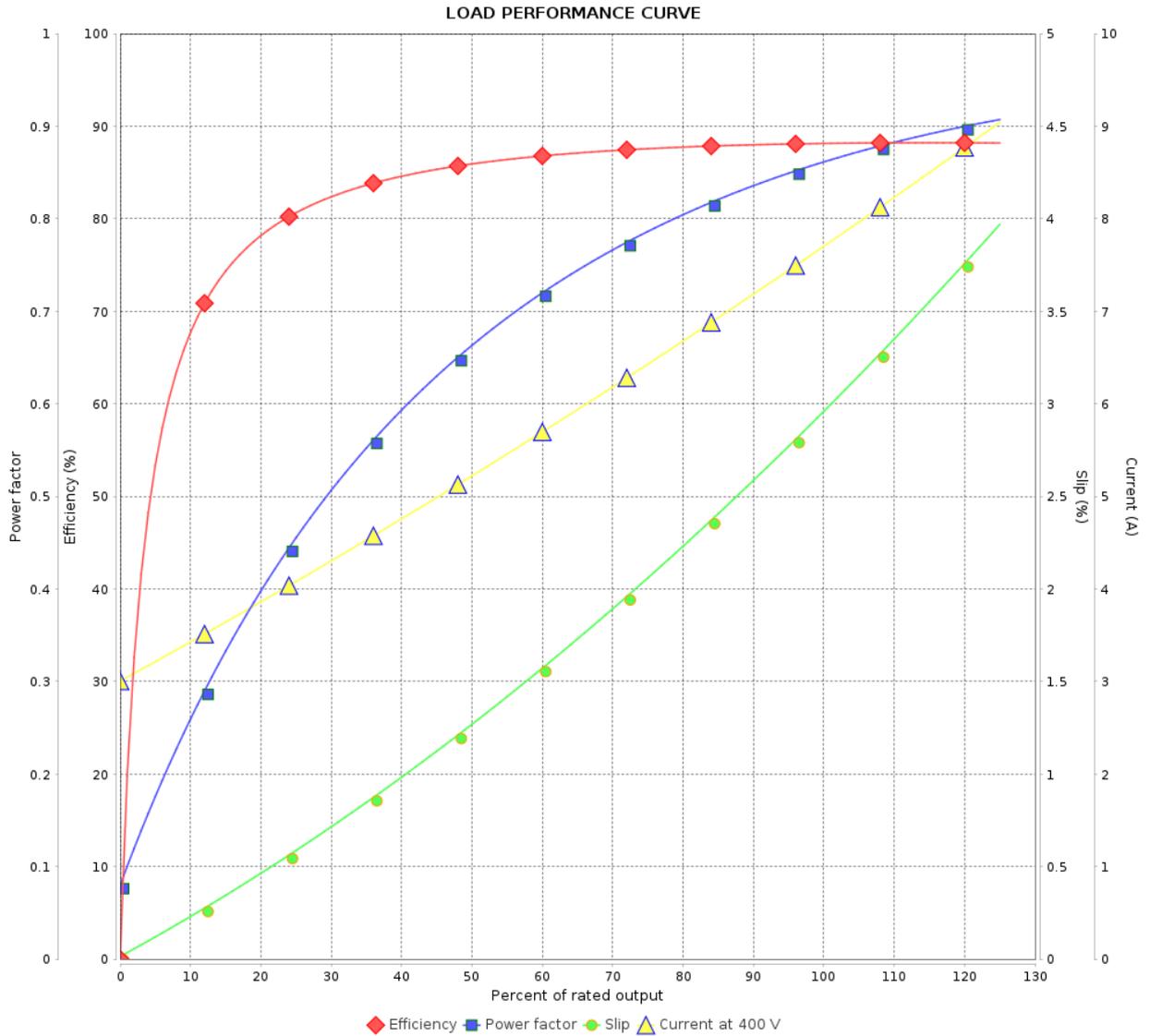
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11991851



Performance : 400 V 50 Hz 2P IE3

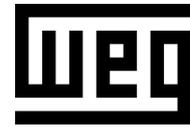
Rated current : 7.62 A  
 LRC : 9.1  
 Rated torque : 1.37 kgfm  
 Locked rotor torque : 350 %  
 Breakdown torque : 390 %  
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.0095 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

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Date				
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# LOAD PERFORMANCE CURVE

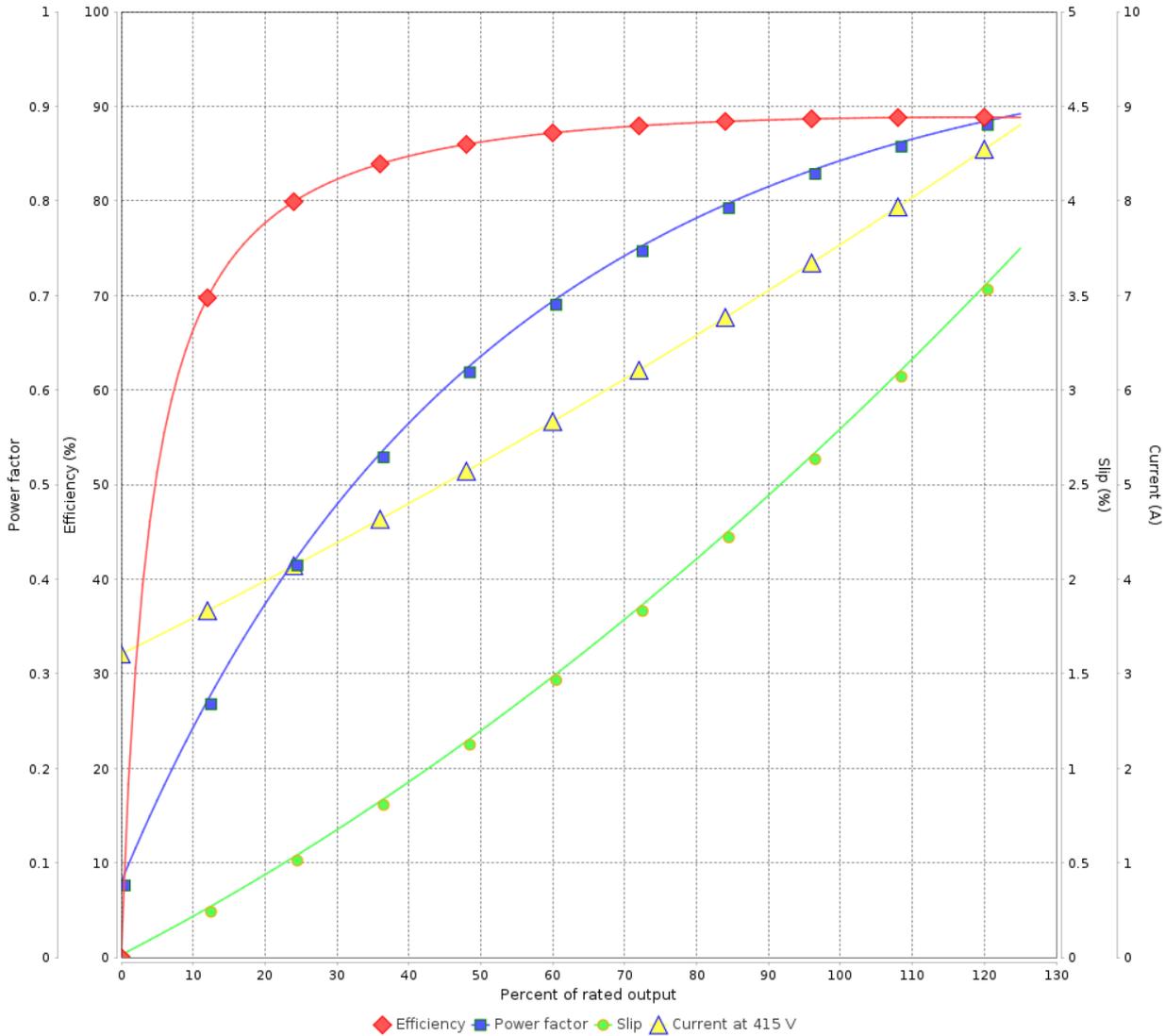
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11991851

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 7.47 A	Moment of inertia (J)	: 0.0095 kgm <sup>2</sup>
LRC	: 9.6	Duty cycle	: Cont.(S1)
Rated torque	: 1.37 kgfm	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.00
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: A

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# LOAD PERFORMANCE CURVE

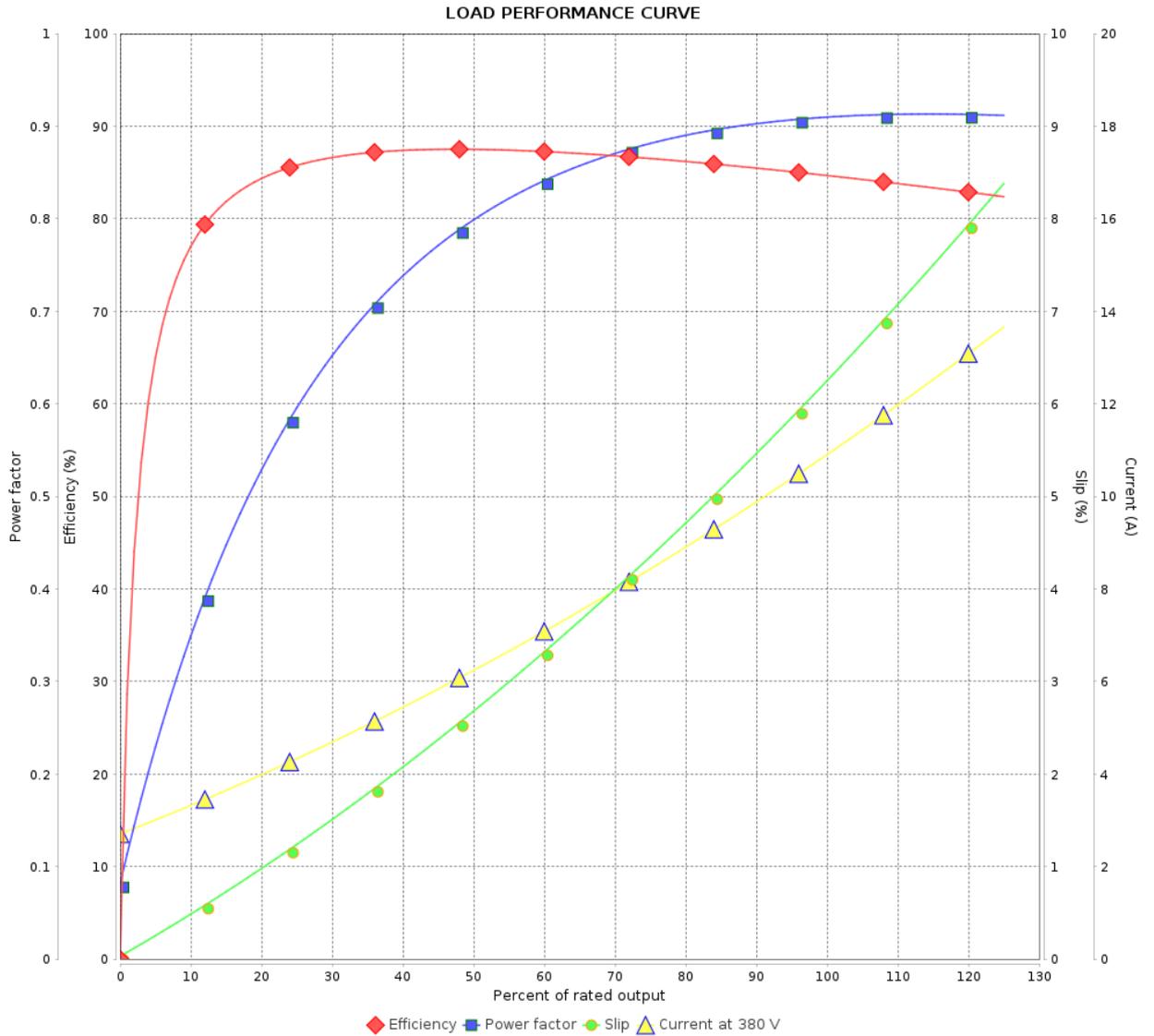
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11991851



Performance : 380 V 50 Hz 2P

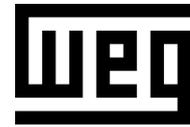
Rated current : 10.9 A  
 LRC : 6.3  
 Rated torque : 1.94 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 260 %  
 Rated speed : 2810 rpm

Moment of inertia (J) : 0.0095 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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Date				

# LOAD PERFORMANCE CURVE

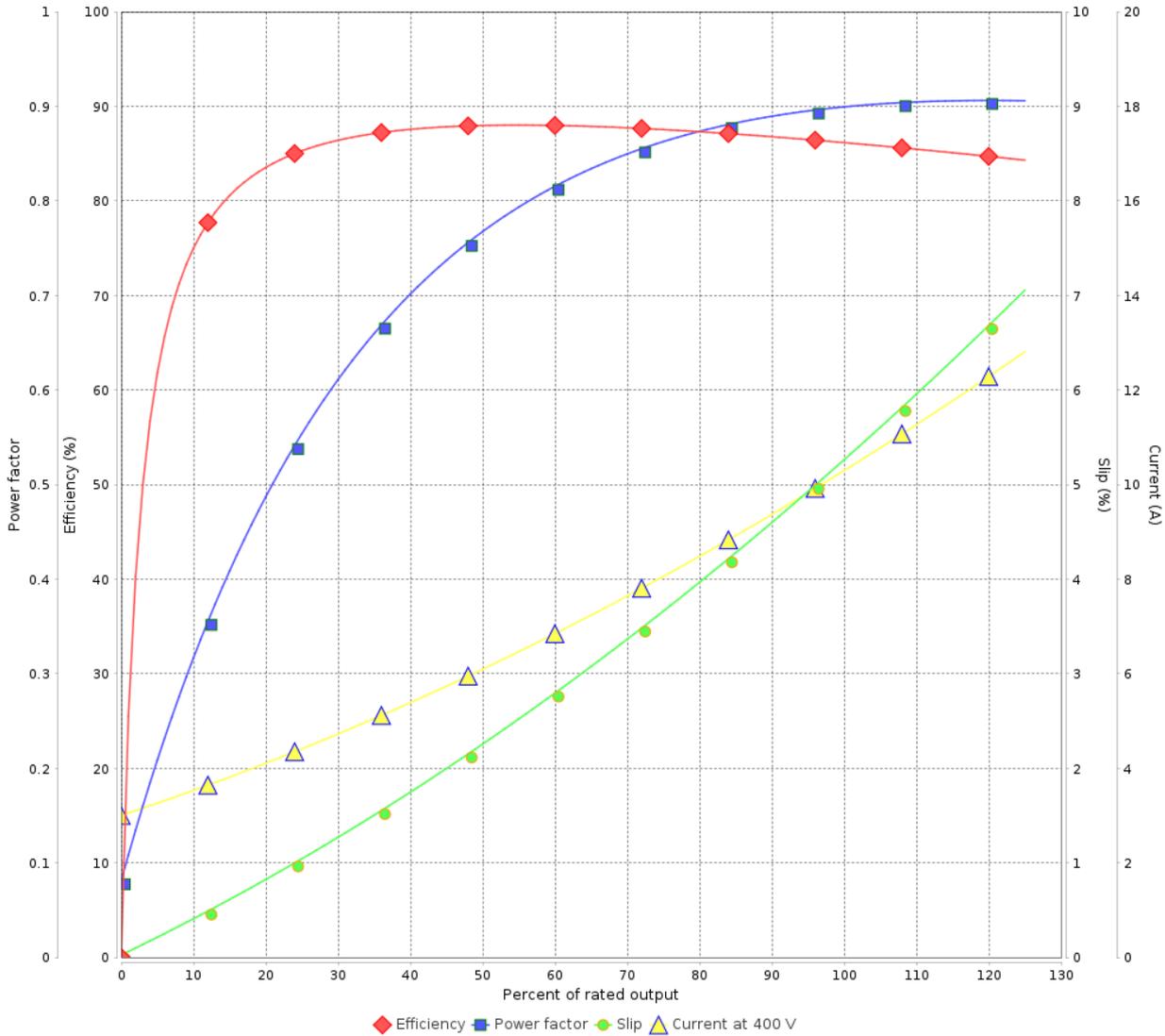
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11991851

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 2P IE1

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0095 kgm <sup>2</sup>
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1.92 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2840 rpm	Design	: A

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# LOAD PERFORMANCE CURVE

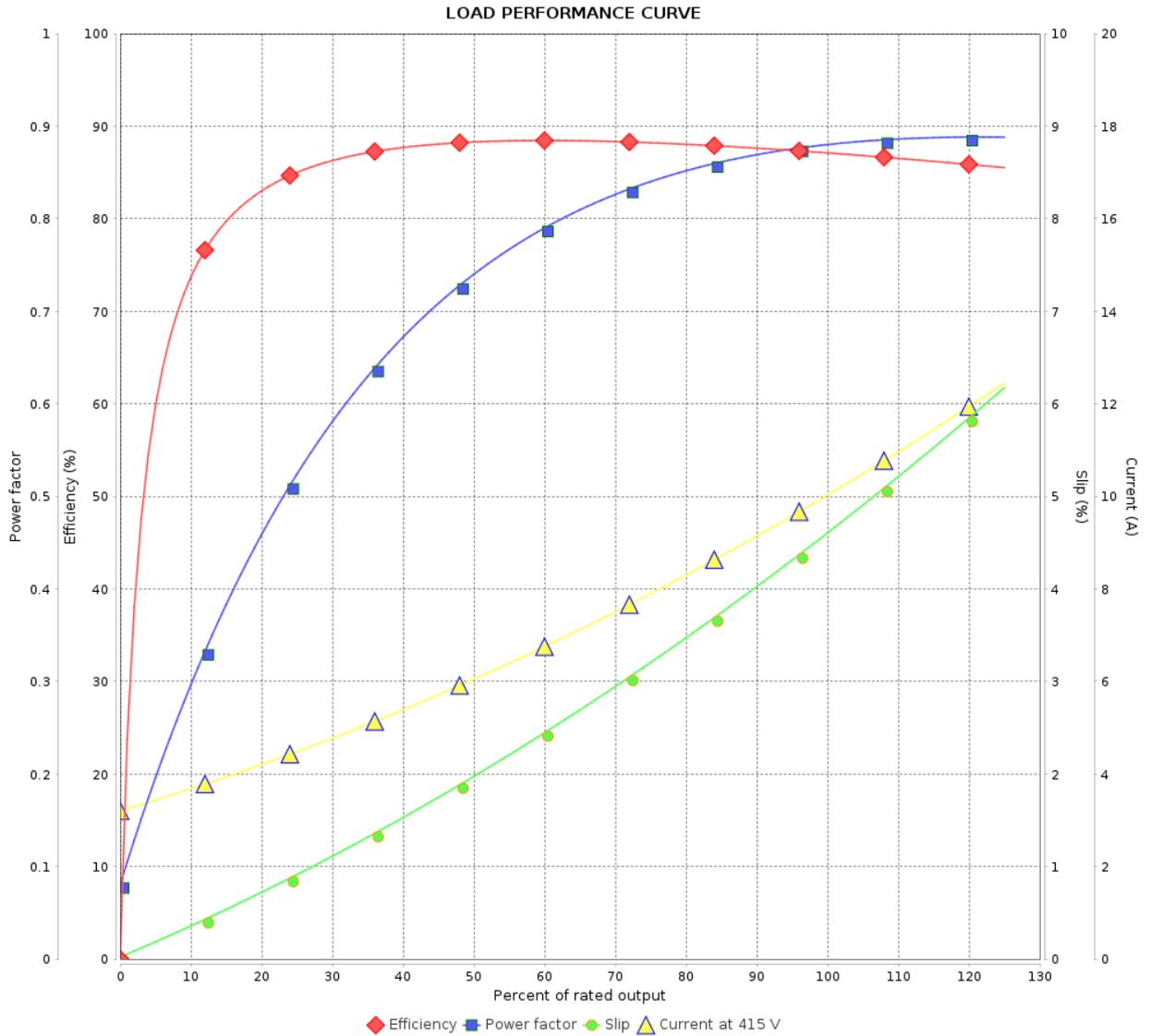
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency  
Three-Phase

Product code : 11991851

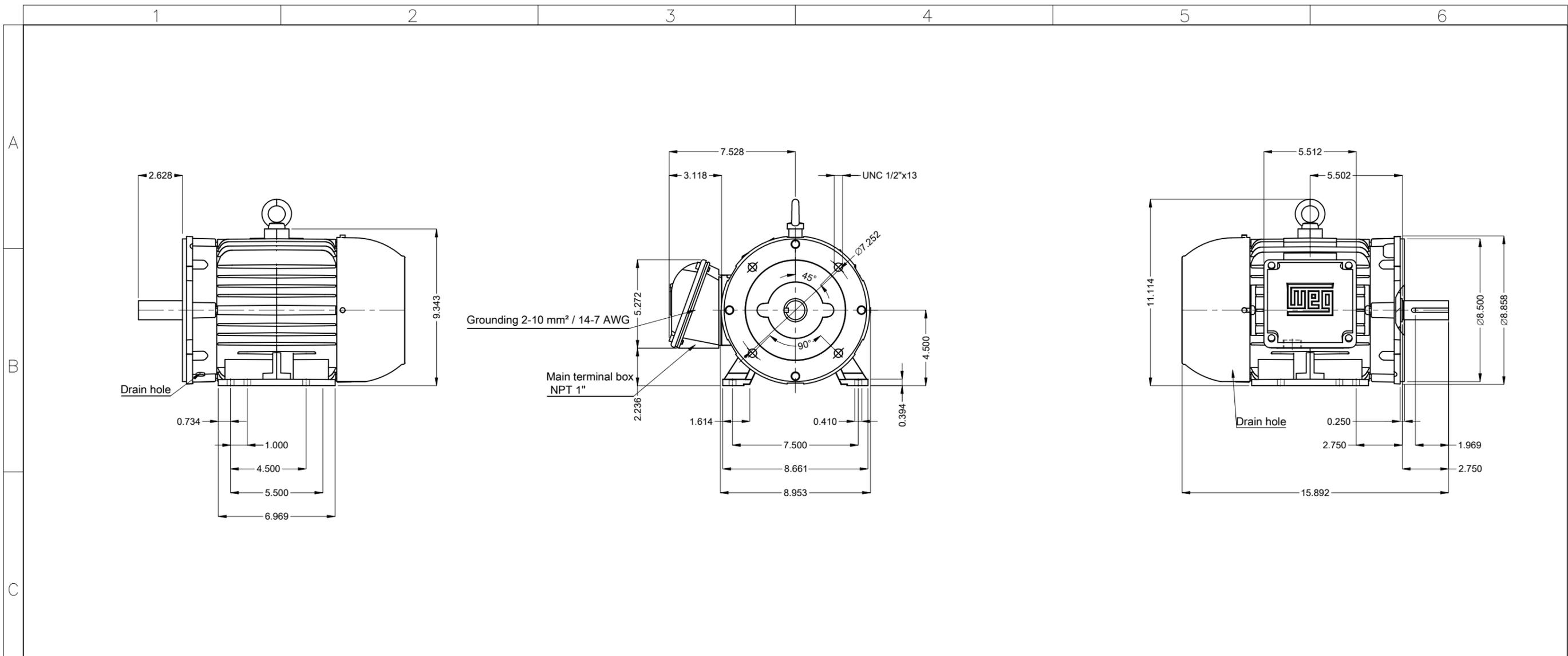


Performance : 415 V 50 Hz 2P IE2

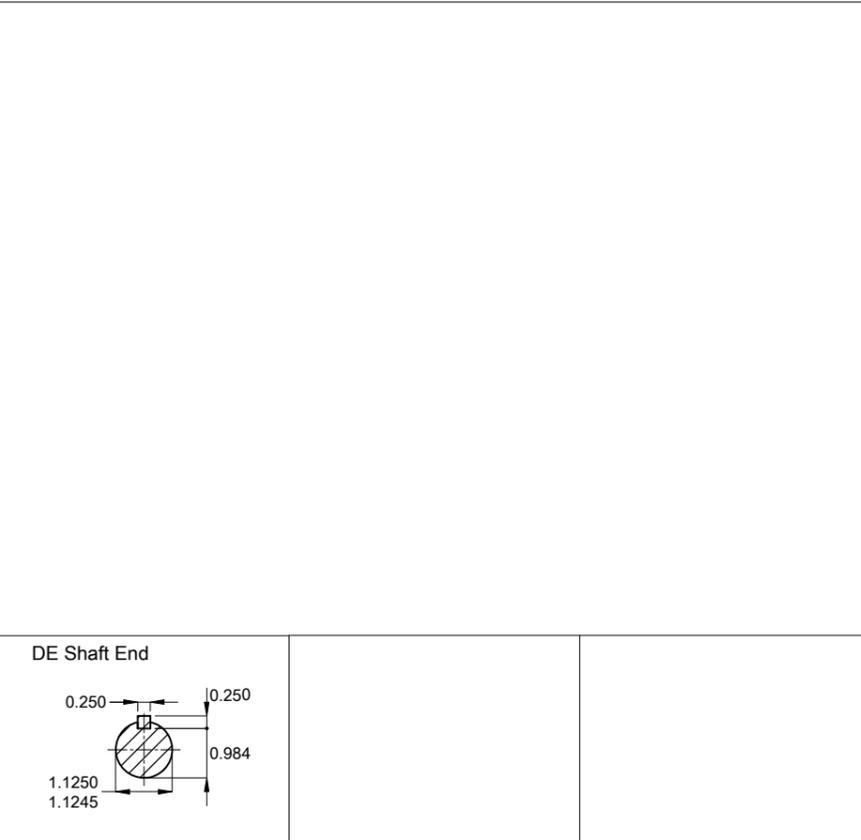
Rated current : 10.0 A  
 LRC : 7.4  
 Rated torque : 1.90 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 310 %  
 Rated speed : 2860 rpm

Moment of inertia (J) : 0.0095 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : A

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Color RAL 5009  
 Painting plan 207A  
 Mounting B34D



7.5 HP 02 Poles 60 Hz										A	
Scale 1 : 6											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.					PREVIEW		WDD 00		
CHECKED		FRAME 182/4TC IP55 TEFC					SHEET 1 / 1				
RELEASED											
REL. DATE											