DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11529716

Frame	: 364/5TS	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 389 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5023 kgm²
Design	: B		

Output [HP]		75	60	60	60	75	75	75
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]		164/81.9	80.8	78.5	75.7	100	94.8	91.4
L. R. Amperes [A]		1097/549	525	557	598	520	559	594
LRC [A]		6.7x(Code G)	6.5x(Code G)	7.1x(Code H)	7.9x(Code J)	5.2x(Code E)	5.9x(Code F)	6.5x(Code G)
No load current [A]		36.0/18.0	19.0	20.0	21.5	19.0	20.0	21.5
Rated speed [RPM]		3555	2955	2960	2965	2930	2945	2950
Slip [%]		1.25	1.50	1.33	1.17	2.33	1.83	1.67
Rated torque [kgfm]		15.3	14.7	14.7	14.7	18.6	18.5	18.5
Locked rotor torque [%]		200	210	229	250	160	175	190
Breakdown torque [%]		250	260	390	310	200	220	240
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	105 K	105 K	105 K
Locked rotor time		18s (cold) 10s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level²		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
Efficiency (%)	25%							
	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
	75%	93.6	92.5	93.0	93.1	93.0	93.0	93.6
	100%	93.6	94.0	94.0	94.0	92.4	93.0	93.0
Power Factor	25%							
	50%	0.83	0.75	0.72	0.70	0.86	0.84	0.83
	75%	0.88	0.85	0.83	0.82	0.89	0.89	0.88
	100%	0.90	0.90	0.88	0.88	0.90	0.90	0.90

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

Losses (%)	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P4 (0,9;0,5)	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 302 kgf

Max. compression : 692 kgf

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.

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Customer :

Notes
USABLE @208V 181A SF 1.10 SFA 199A

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

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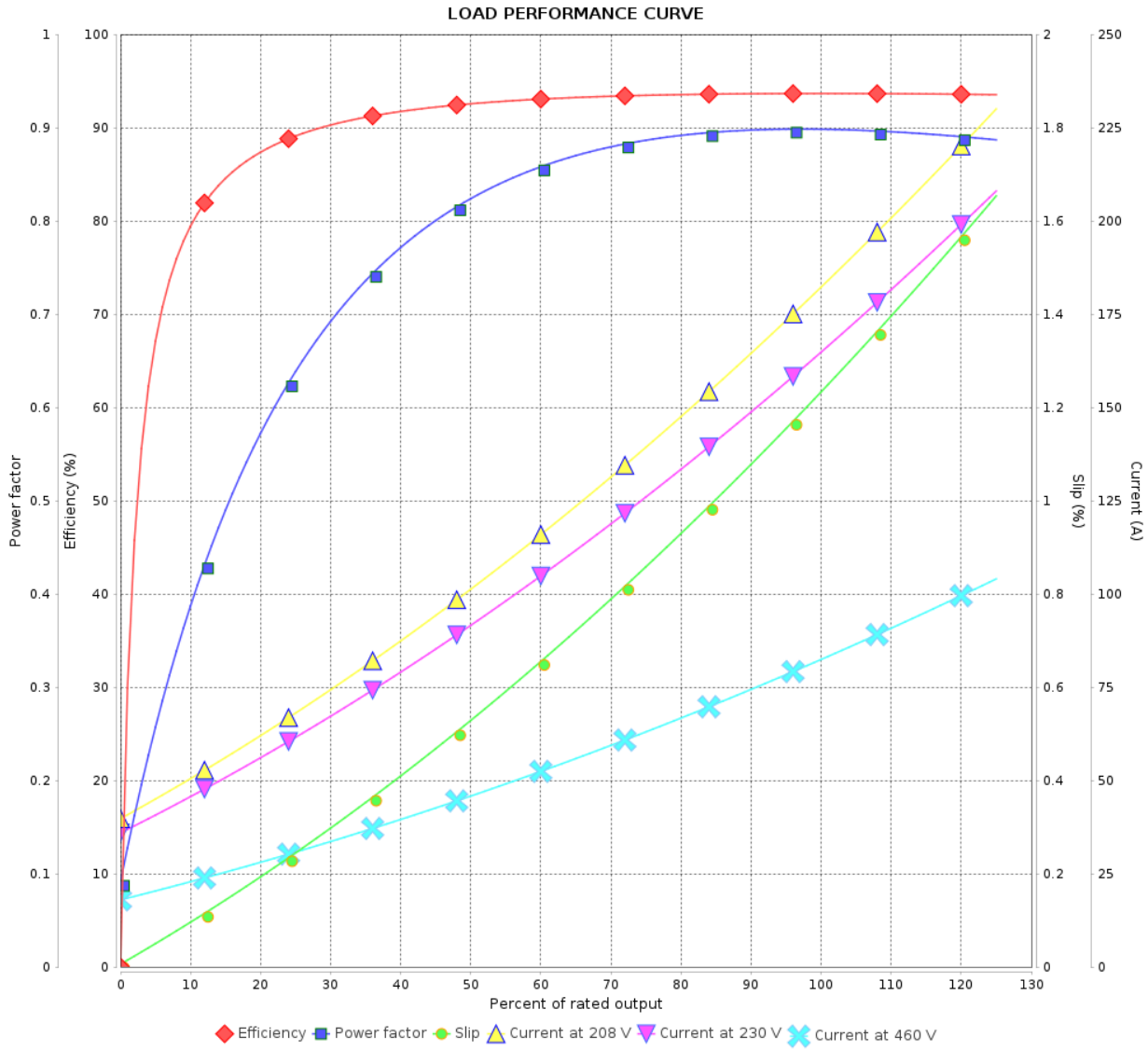
Product code : 11529716



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 164/81.9 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 15.3 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

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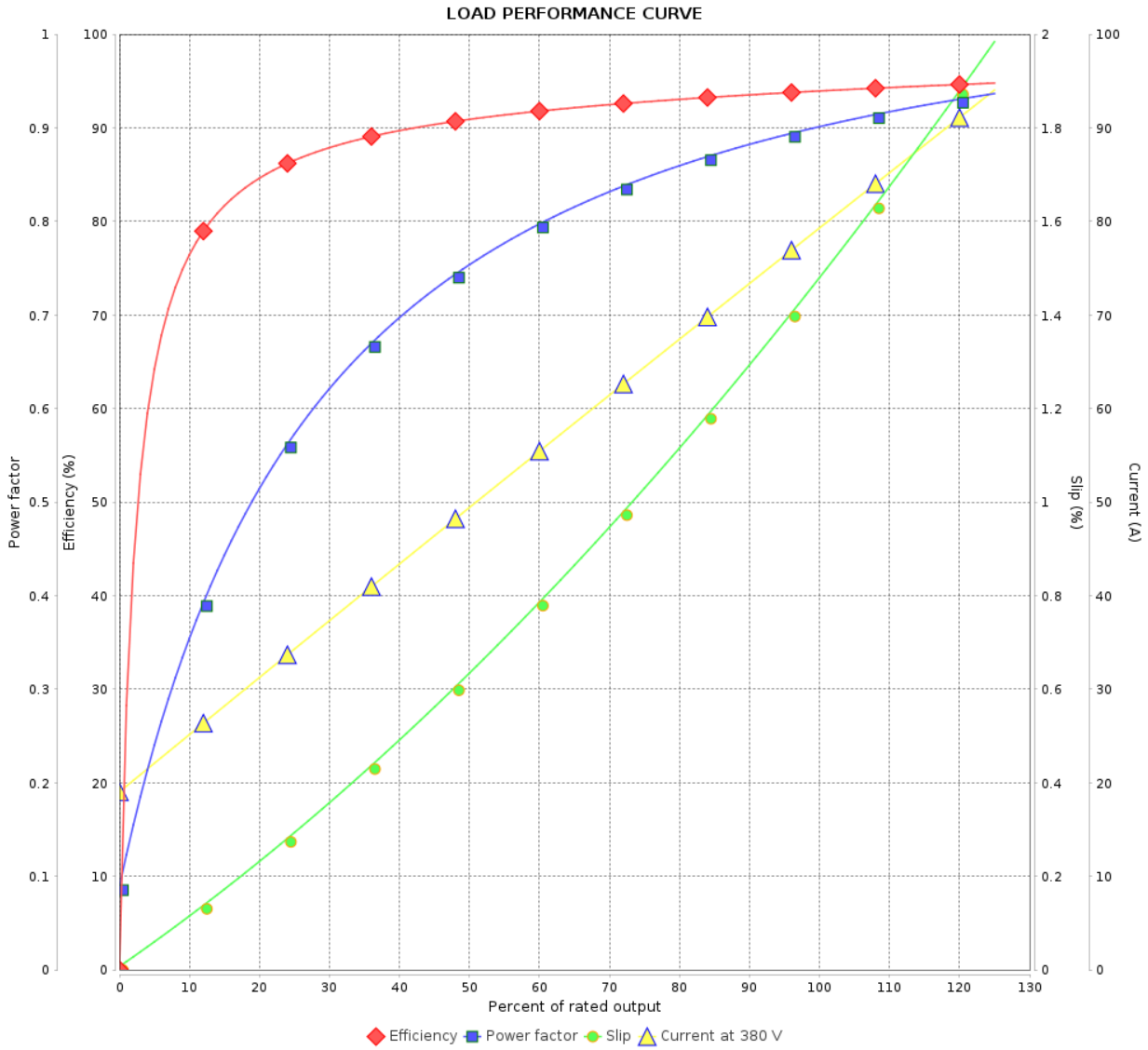

Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 80.8 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 14.7 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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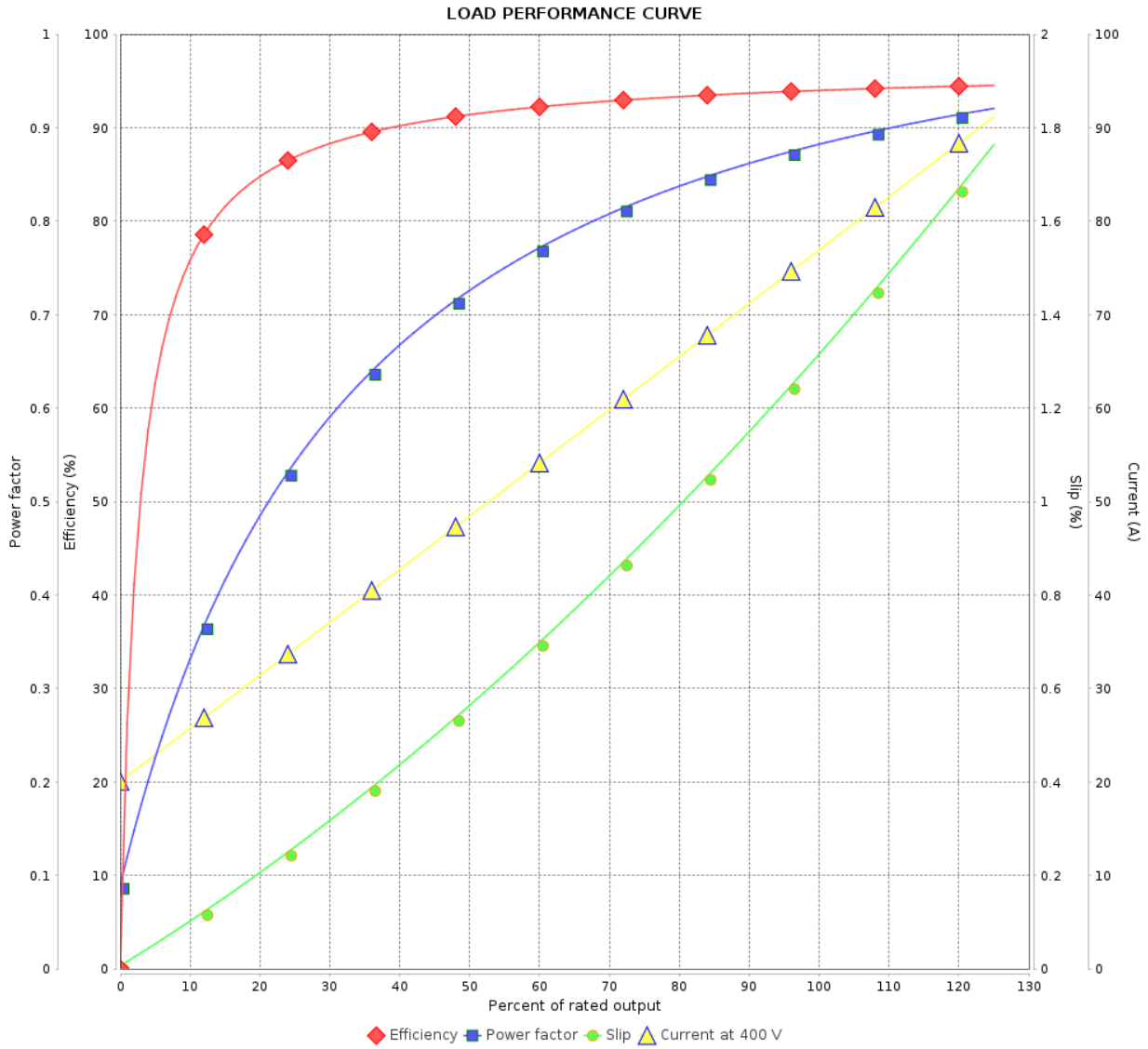

Performance	: 400 V 50 Hz 2P IE3

Rated current	: 78.5 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 14.7 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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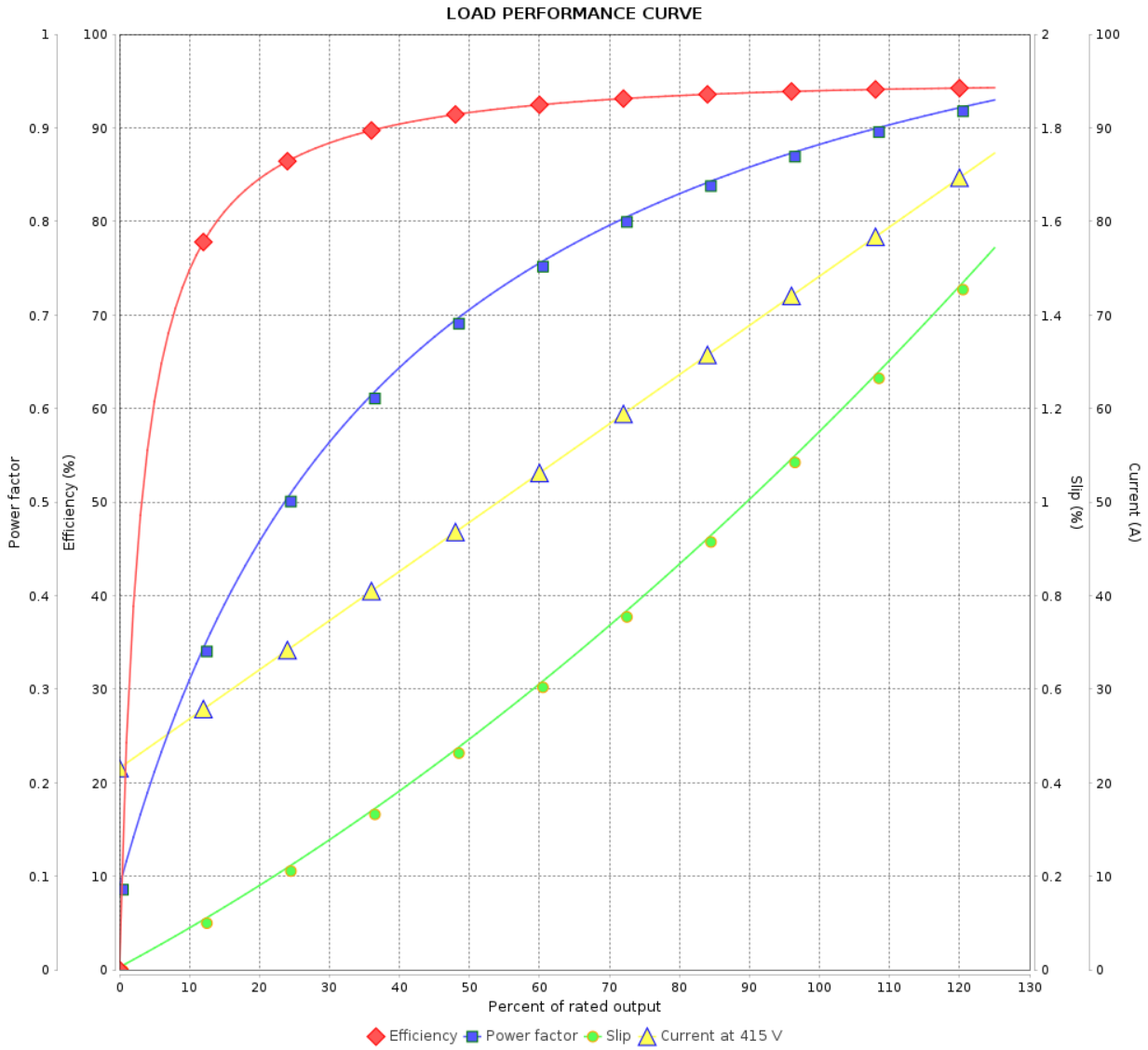

Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 75.7 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 14.7 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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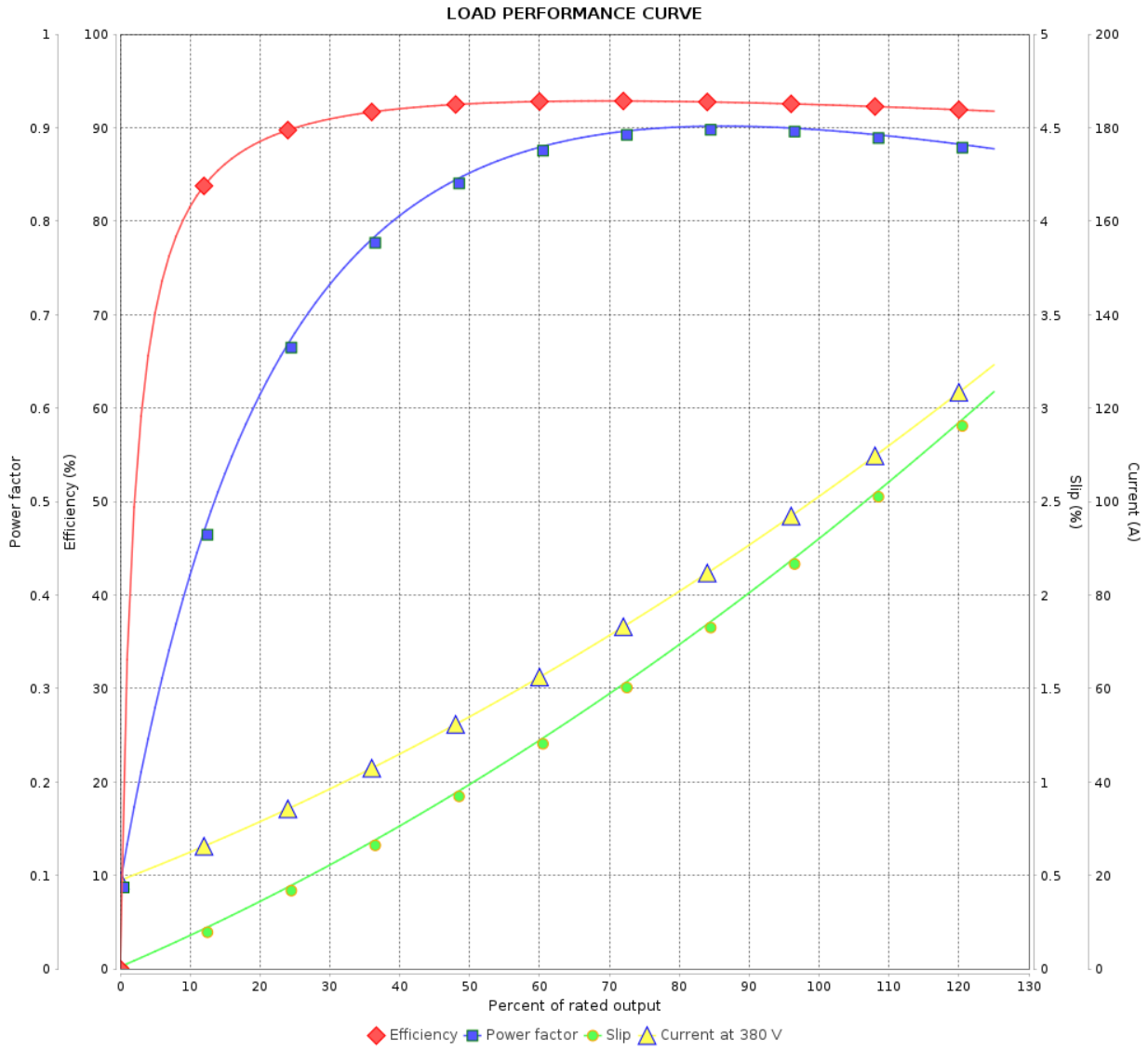

Performance	: 380 V 50 Hz 2P IE1		
Rated current	: 100 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 18.6 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B

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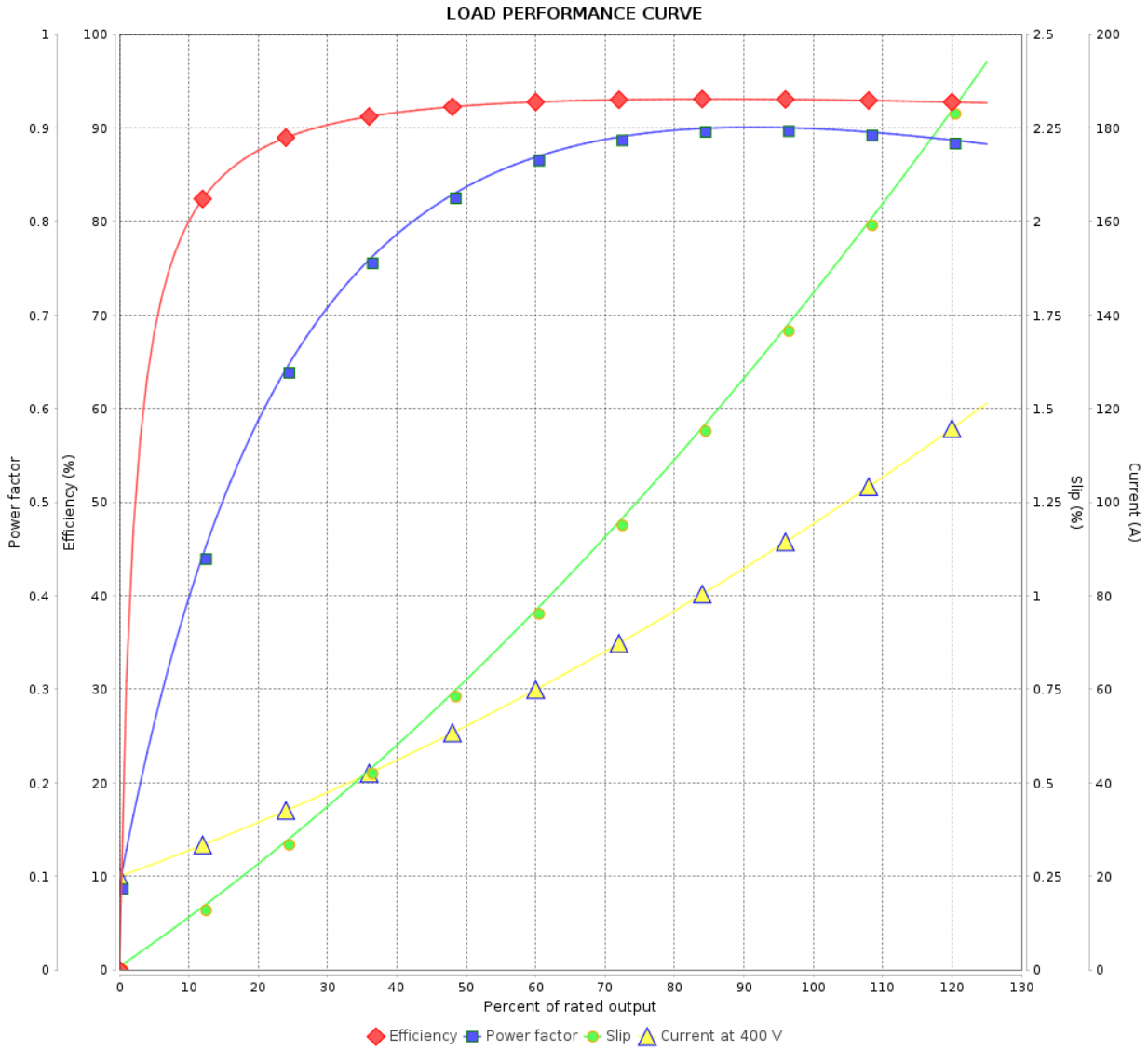

Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 94.8 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 175 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 2945 rpm	Design	: B

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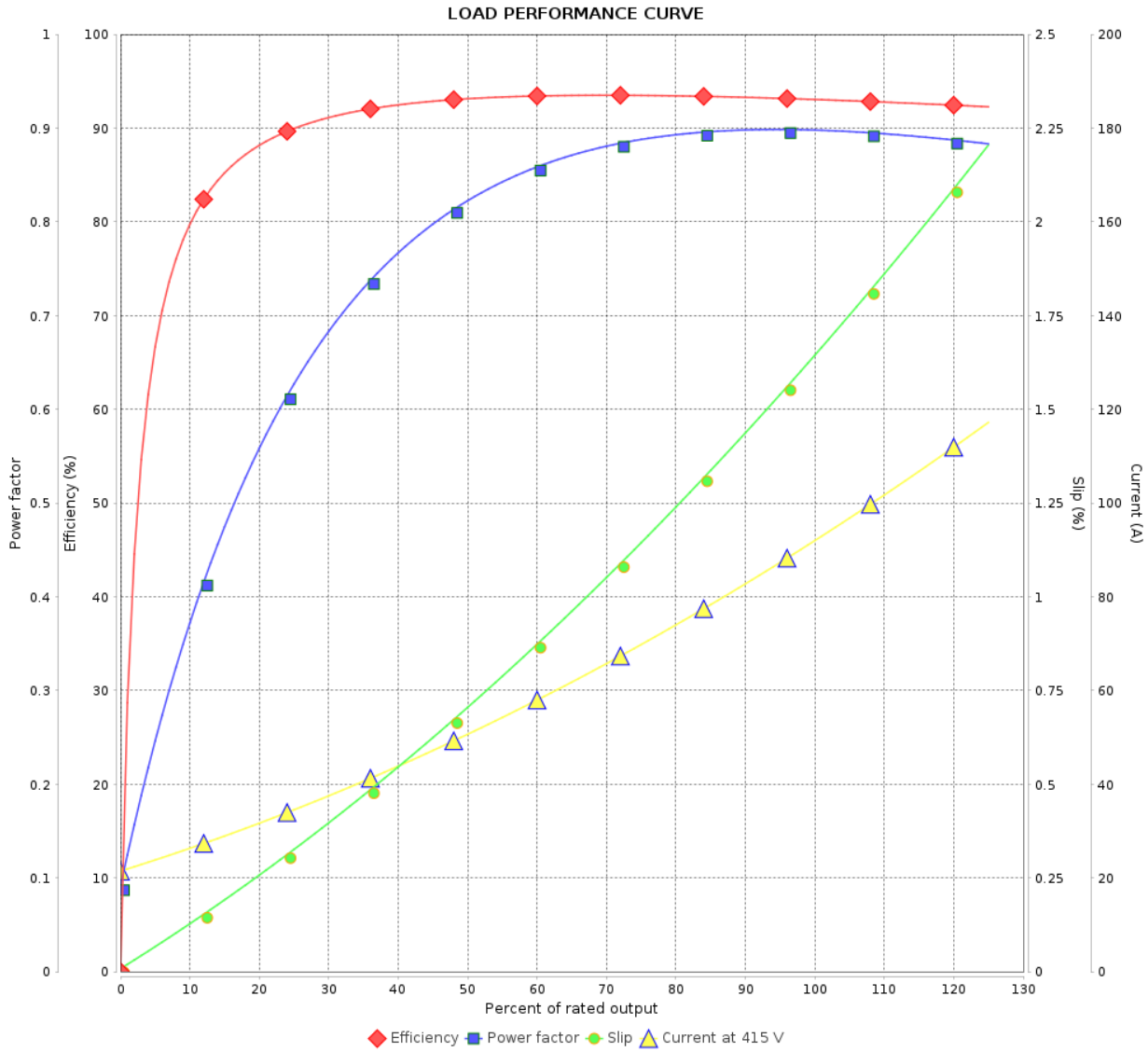

Performance	: 415 V 50 Hz 2P IE1

Rated current	: 91.4 A	Moment of inertia (J)	: 0.5023 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B

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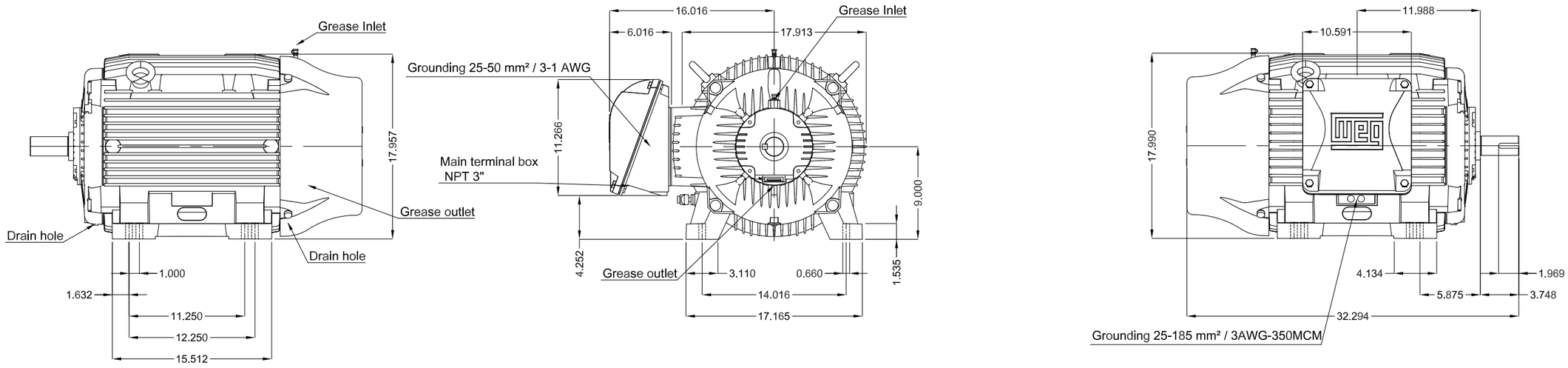
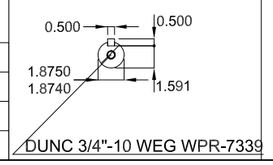


Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3R(D)

DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

75 HP 02 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 NEMA PREM. EFF.
FRAME 364/5TS IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches

A3

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