DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595

Frame	: 404/5TSD	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[3]	: 422 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.3708 kgm²
Design	: B		

Output [HP]		150	100	100	100
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		333/167	137	133	130
L. R. Amperes [A]		2201/1100	985	1050	1115
LRC [A]		6.6x(Code G)	7.2x(Code H)	7.9x(Code J)	8.6x(Code K)
No load current [A]		75.4/37.7	37.0	41.3	45.0
Rated speed [RPM]		3550	2960	2965	2965
Slip [%]		1.39	1.33	1.17	1.17
Rated torque [kgfm]		30	24	24	24
Locked rotor torque [%]		200	229	250	270
Breakdown torque [%]		240	270	310	340
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)
Noise level[2]		84.0 dB(A)			
Efficiency (%)	25%				
	50%	93.6	93.7	93.2	92.7
	75%	94.1	94.4	94.2	93.9
	100%	94.1	94.7	94.7	94.7
Power Factor	25%				
	50%	0.79	0.76	0.70	0.72
	75%	0.86	0.85	0.81	0.81
	100%	0.88	0.88	0.86	0.85

		Drive end	Non drive end
Bearing type	:	6314 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	14418 h	20000 h
Lubricant amount	:	27 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 598 kgf

Max. compression : 1039 kgf

Notes

USABLE @208V 369A SF 1.15 SFA 425A

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

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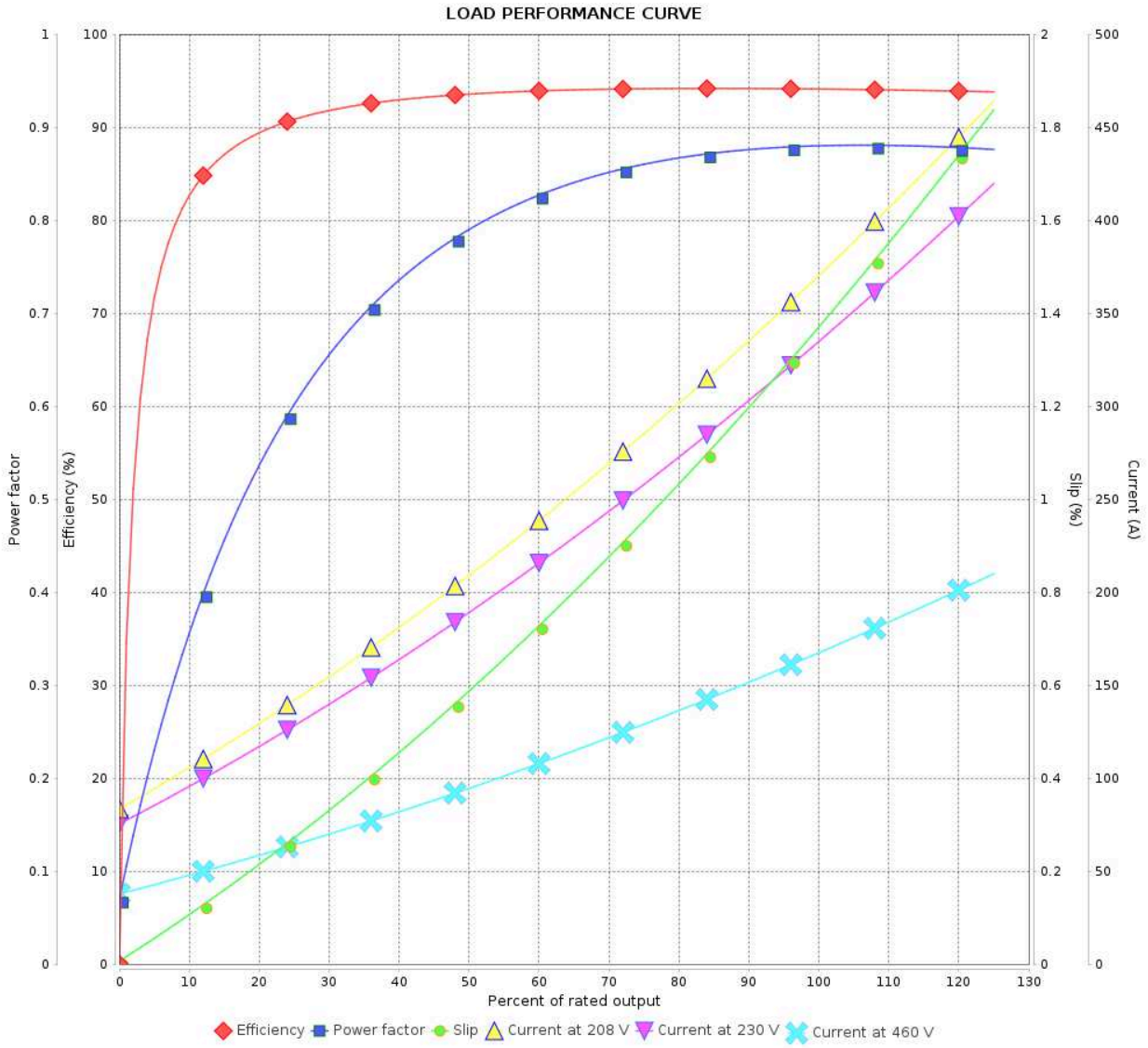
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 333/167 A	Moment of inertia (J)	: 0.3708 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 30 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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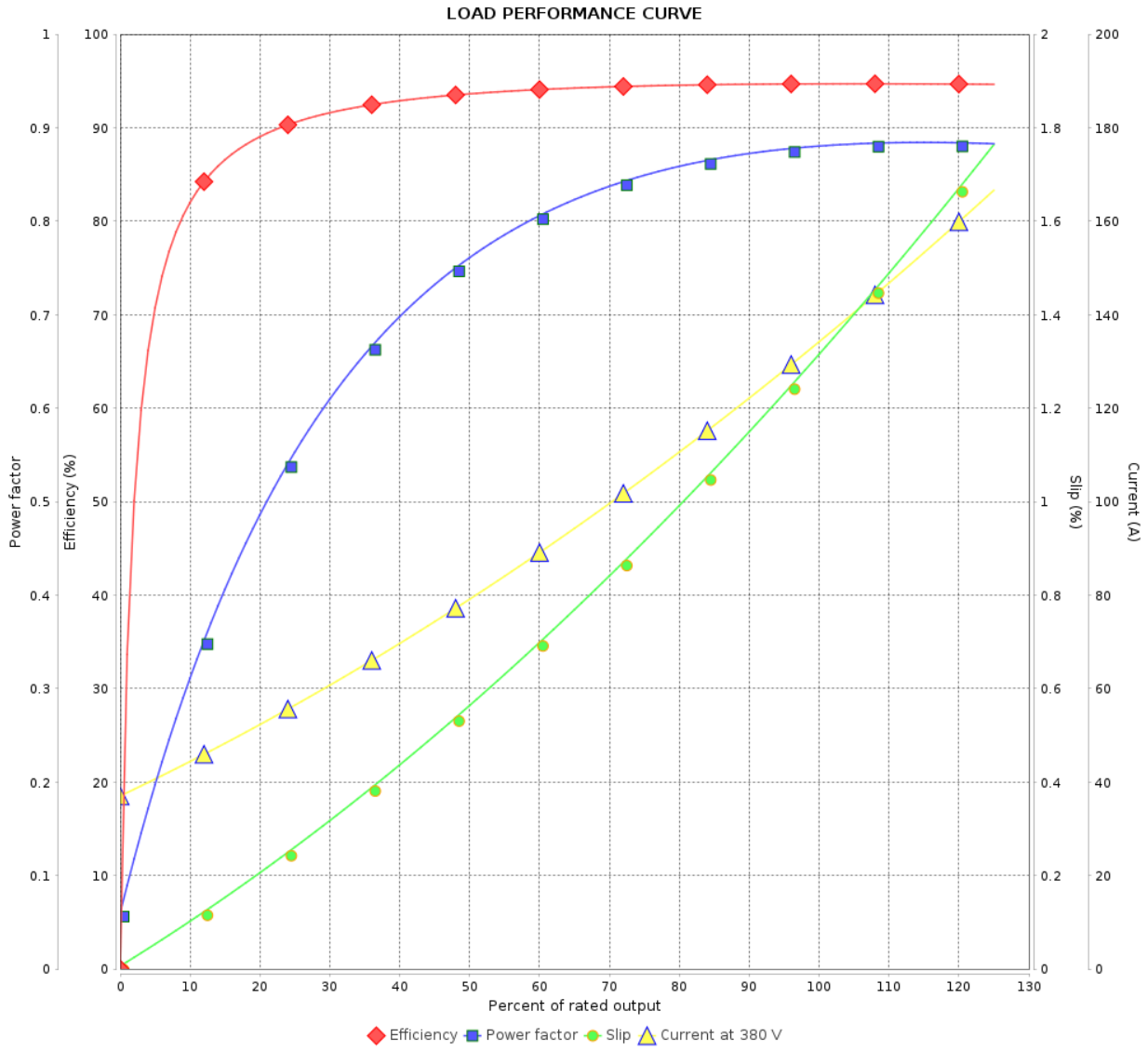
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 137 A	Moment of inertia (J)	: 0.3708 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 24 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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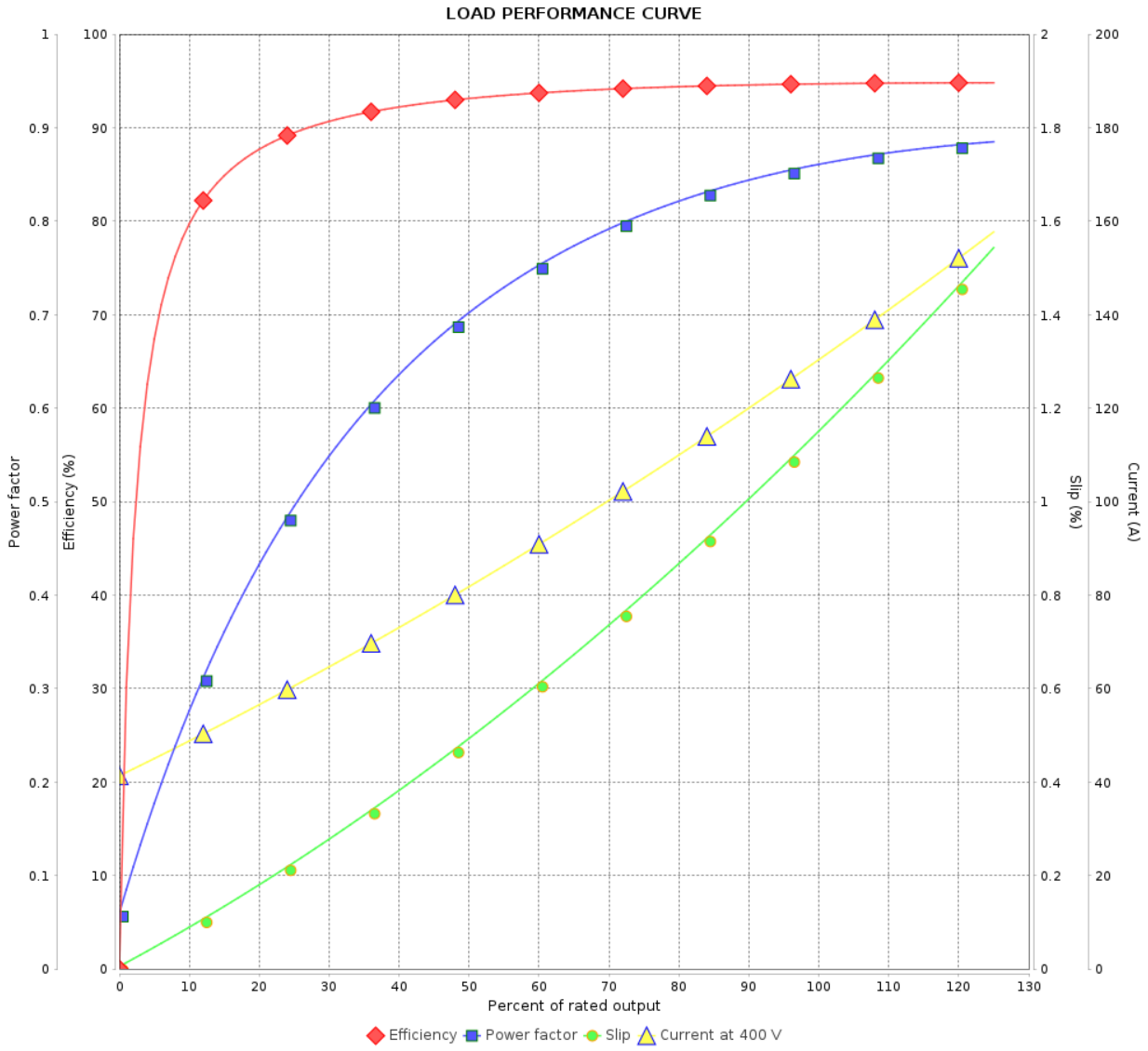
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W40 NEMA Premium Efficiency Three-Phase	Product code :	14865595



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 133 A	Moment of inertia (J)	: 0.3708 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 24 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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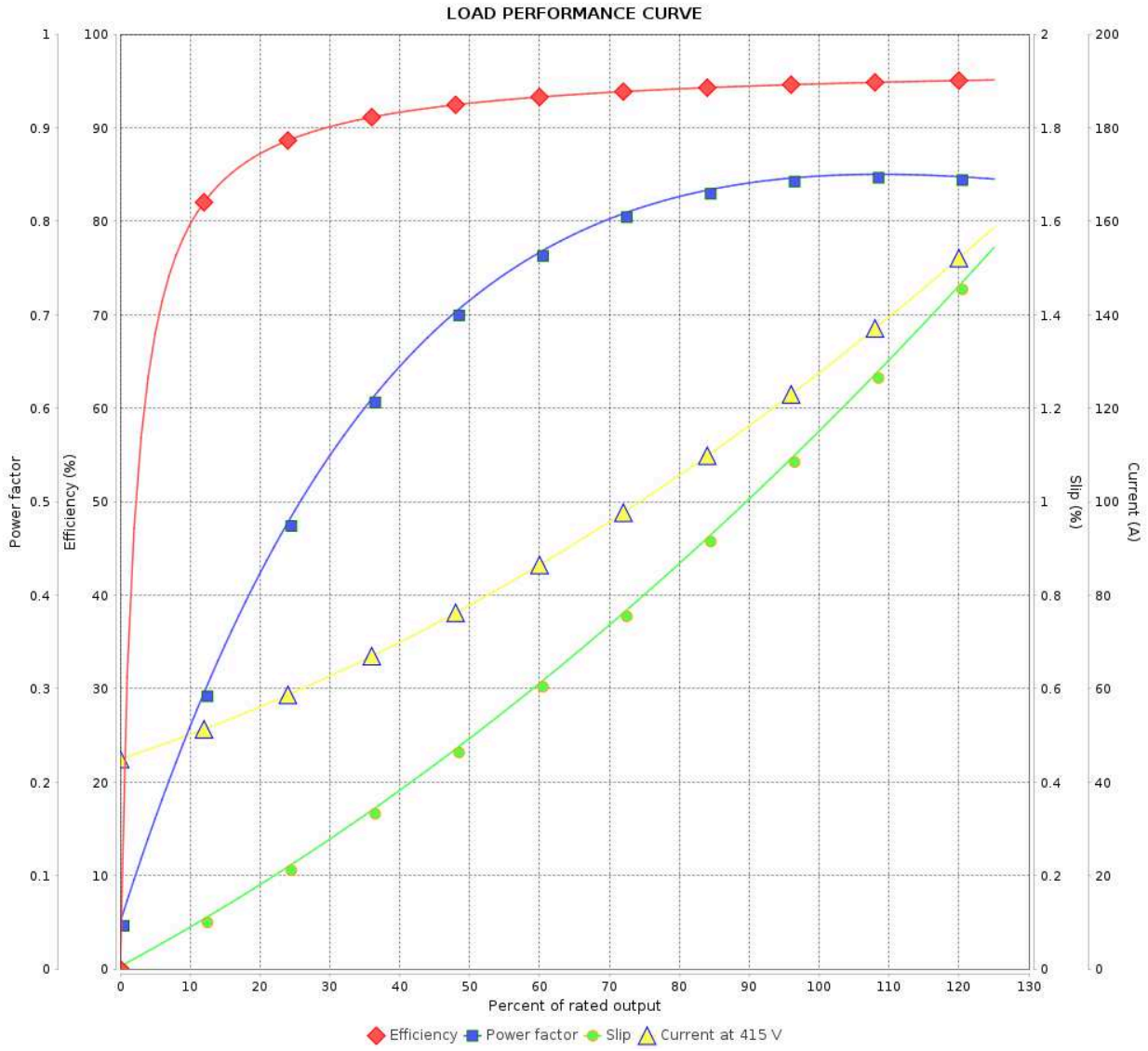
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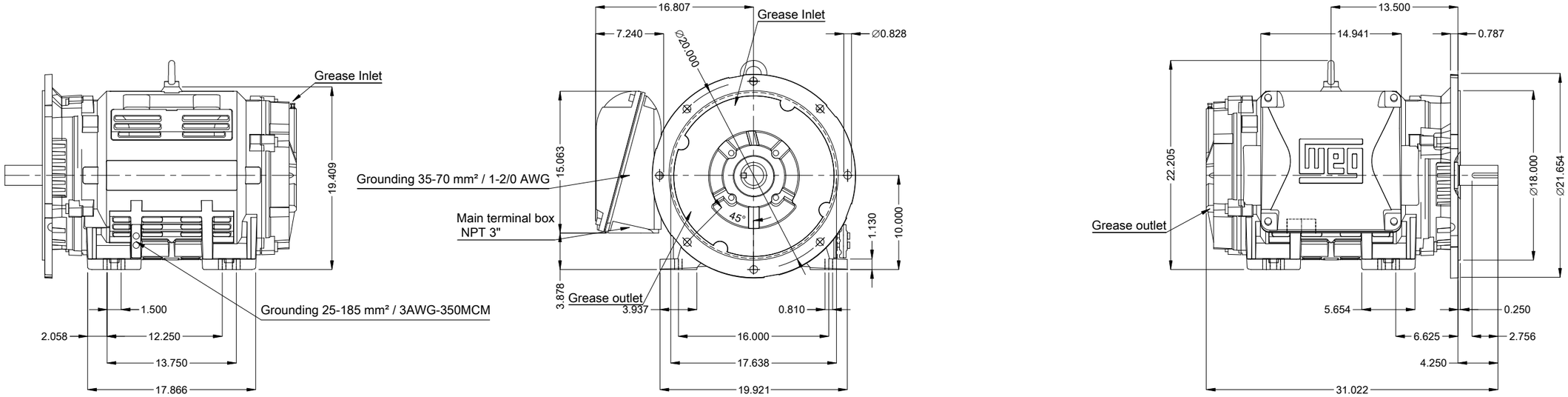


Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 130 A	Moment of inertia (J)	: 0.3708 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 24 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

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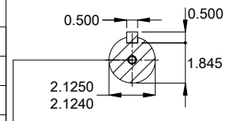
Color RAL 5009

Painting plan 203A

Mounting NEMA F-1

Mounting B35R(D)

DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

150 HP 02 Poles 60 Hz

A

Scale 1 : 12

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
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EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W40 NEMA PREM. EFF.

FRAME 404/5TSD IP23 ODP

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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