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]	: 427 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]		334/167	137	133	133
L. R. Amperes [A]		2204/1102	986	1051	1117
LRC [A]		6.6x(Code G)	7.2x(Code H)	7.9x(Code J)	8.4x(Code K)
No load current [A]		80.0/40.0	43.8	43.7	48.9
Rated speed [RPM]		3552	2960	2965	2965
Slip [%]		1.33	1.33	1.17	1.17
Rated torque [kgfm]		30.7	24.5	24.5	24.5
Locked rotor torque [%]		200	229	250	270
Breakdown torque [%]		250	290	330	360
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	0.65
	75%	0.86	0.85	0.81	0.77
	100%	0.88	0.88	0.86	0.83

		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 : 653 kgf

Max. compression : 1080 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

Performed by				
Checked by			Page	Revision
Date	29/10/2024		1 / 5	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

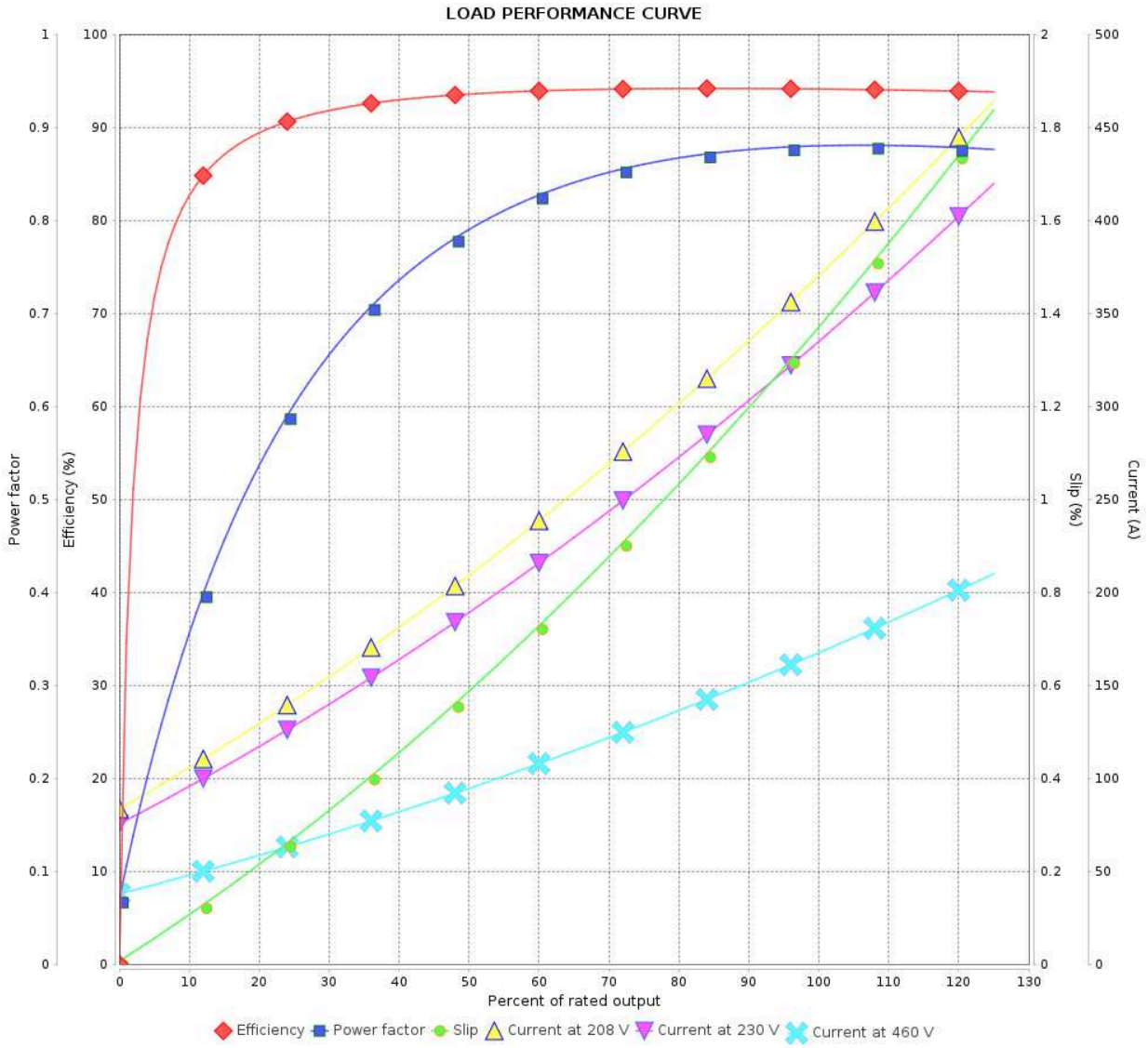
LOAD PERFORMANCE CURVE

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	: 334/167 A	Moment of inertia (J)	: 0.3708 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 30.7 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3552 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		2 / 5	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

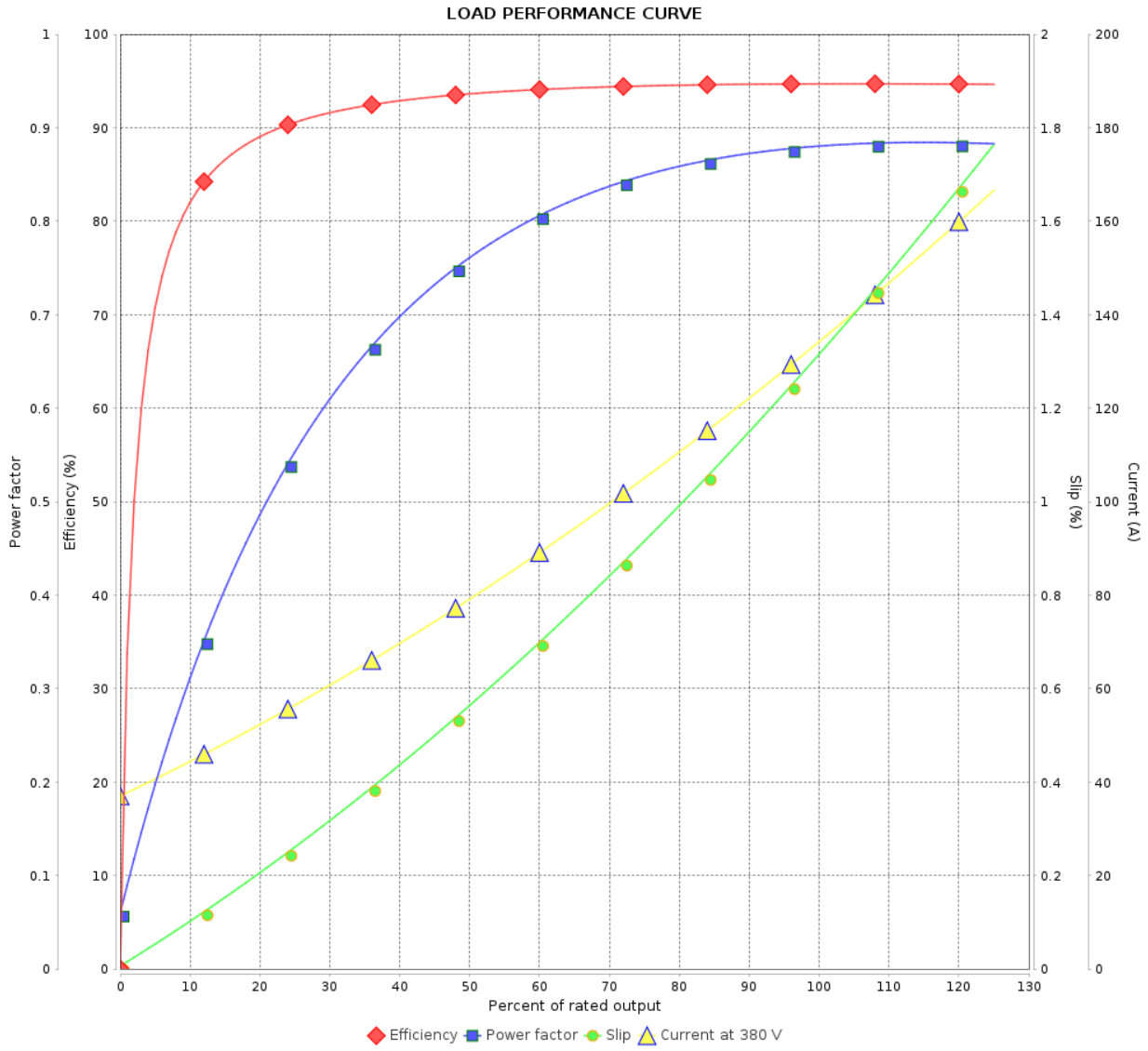
LOAD PERFORMANCE CURVE

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	: 24.5 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		3 / 5	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

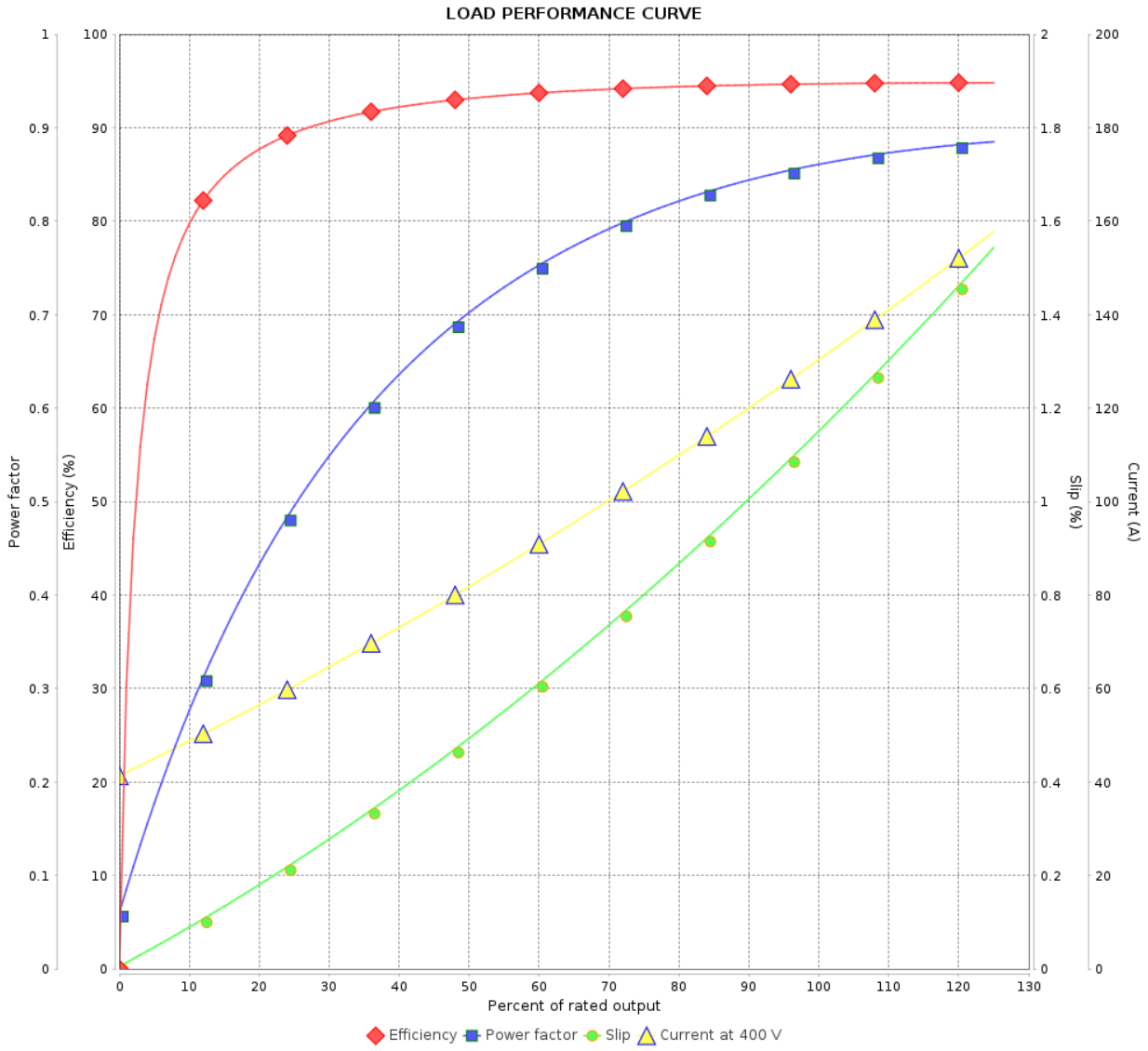
LOAD PERFORMANCE CURVE

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	: 24.5 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		4 / 5	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

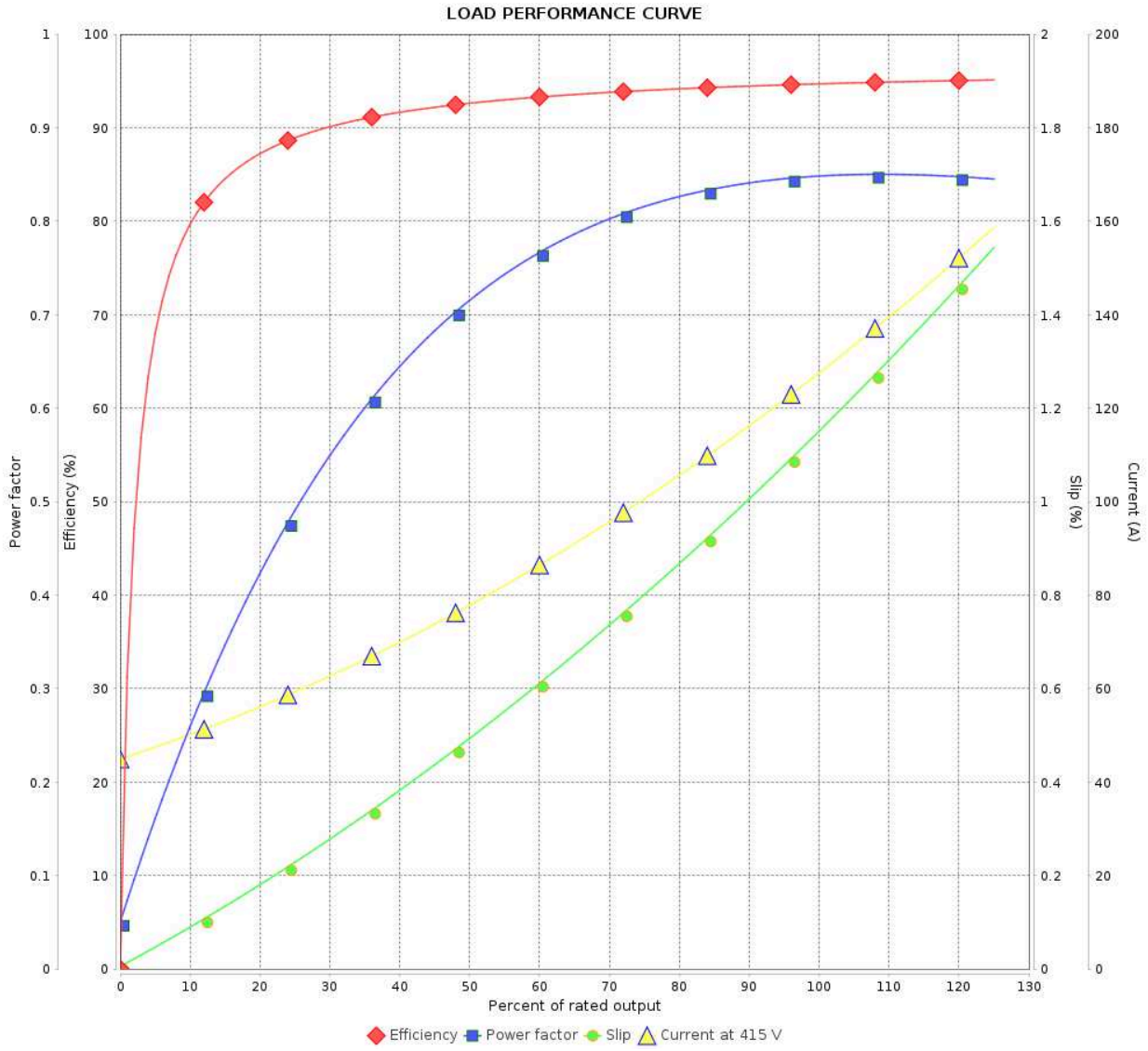
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595

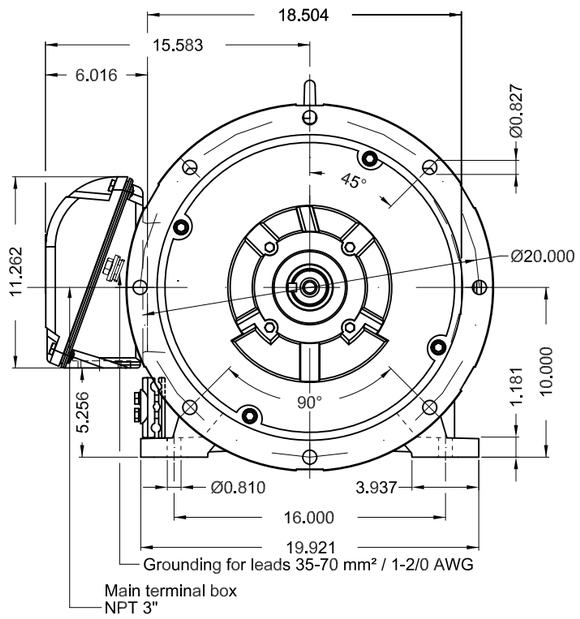


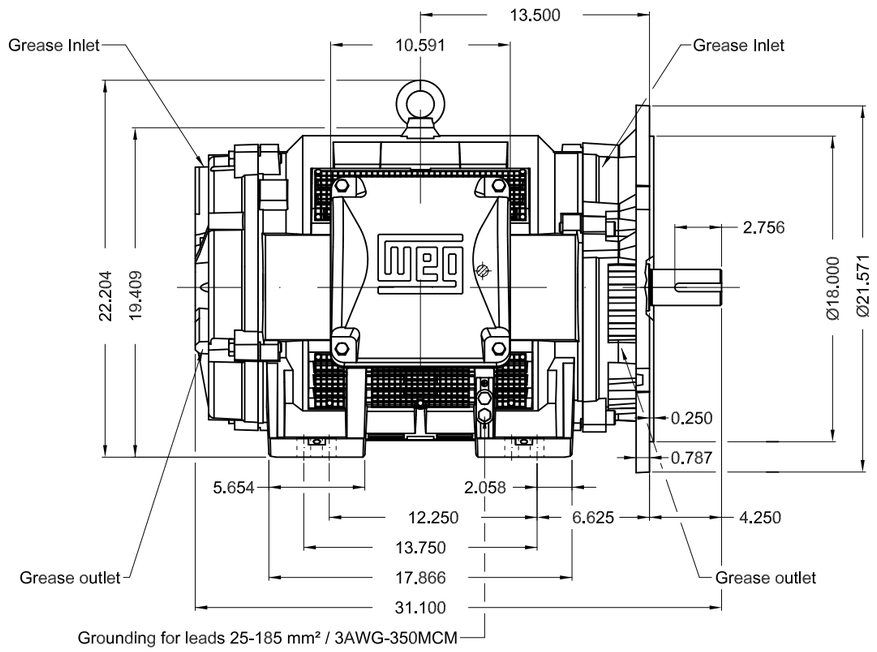
Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 133 A	Moment of inertia (J)	: 0.3708 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 24.5 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	29/10/2024		5 / 5	

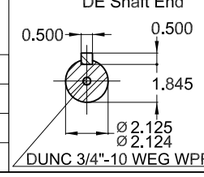
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice





Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B35R(D)

DE Shaft End



150 HP 02 Poles 60 Hz | A

1:9

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR W40 NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5TSD IP23 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3

WEG's property. Forbidden reproduction without previous authorization.