DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12468851

Frame	: 404/5TS
Output	: 100 HP (75 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 90.4 A
L. R. Amperes	: 660 A
LRC	: 7.3x(Code H)
No load current	: 30.4 A
Rated speed	: 1780 rpm
Slip	: 1.11 %
Rated torque	: 40.8 kgfm
Locked rotor torque	: 240 %
Breakdown torque	: 260 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 1.26 kgm²
Design	: B

Locked rotor time	: 23s (cold) 13s (hot)
Temperature rise	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation[1]	: Both (CW and CCW)
Noise level[2]	: 68.0 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 520 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	95.0	95.0	95.4
Power Factor	0.00	0.77	0.84	0.87

Foundation loads

Max. traction : 784 kgf

Max. compression : 1304 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.7	3.8	3.7	2.2	1.5	0.9	0.6

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	12000 h	12000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes

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	21/10/2024		1 / 2	

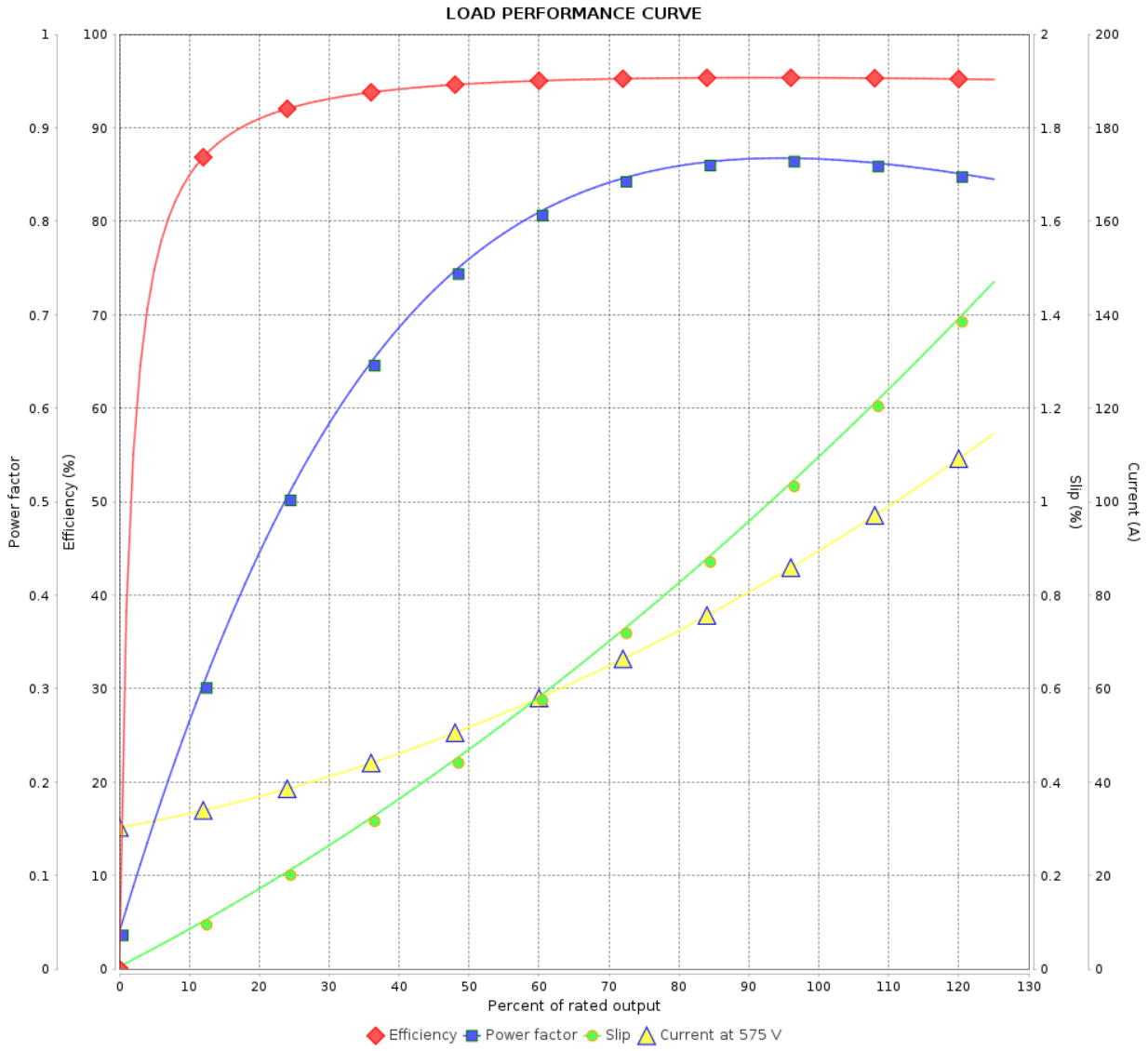
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12468851



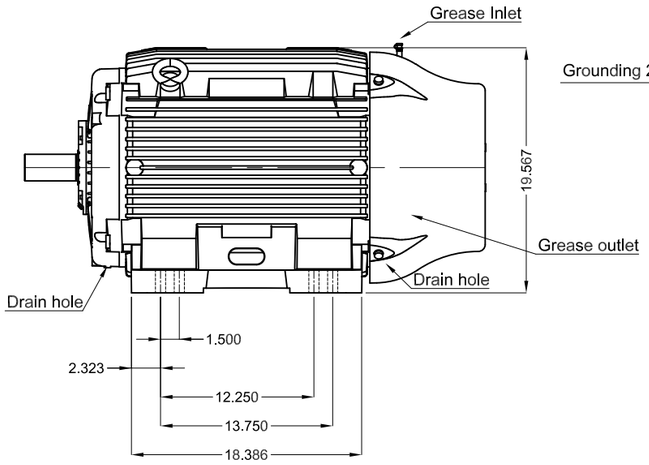
Performance	: 575 V 60 Hz 4P

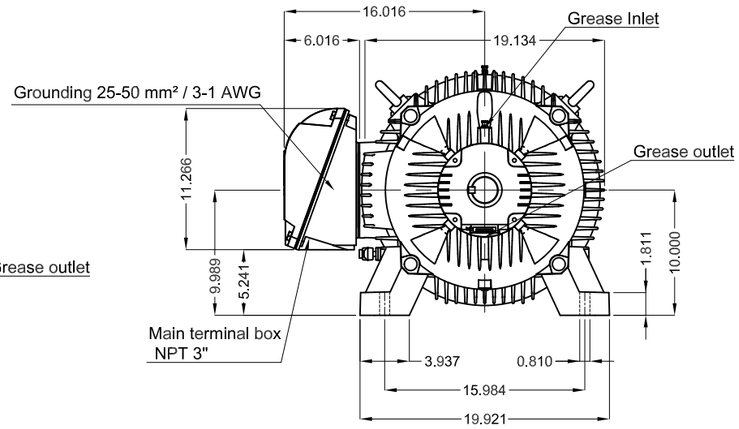
Rated current	: 90.4 A	Moment of inertia (J)	: 1.26 kgm²
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

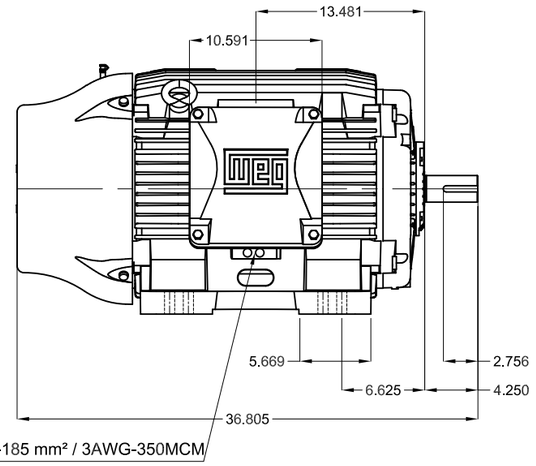
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	21/10/2024		2 / 2	

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

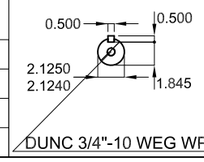






TS shaft end
Color RAL 5009
Painting plan 203A
Mounting B3R(D)

DE Shaft End



100 HP 04 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 404/5TS IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches
A3

WEG's property. Forbidden reproduction without previous authorization.