DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	: ASTRAPROM
Product line	: W22 - IE4 Super Premium Efficiency (Multivoltage)
Product code	: 17017678

Frame	: 315S/M	Locked rotor time	: 30 s (hot) 54 s (cold)
Output	: 160 kW (220 HP)	Duty cycle	: S1
Poles	: 4	Ambient temperature	: -20 °C to +40 °C
Frequency	: 60 Hz	Altitude	: 1000 m.a.s.l
Rated voltage	: 460 V	Protection degree	: IP55
Rated current	: 248 A	Cooling method	: IC411 - TEFC
L. R. Amperes	: 2230 A	Mounting	: B3T
LRC	: 9.0	Rotation[1]	: Both
No load current	: 97.0 A	Noise level[2]	: 75 dB(A)
Rated speed	: 1792 rpm	Starting method	: Direct On Line
Slip	: 0.44 %	Approx. weight[3]	: 1110 kg
Rated torque	: 87.0 kgfm	Design	: NE
Locked rotor torque	: 360 %		
Pull up torque	: 305 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 5.08 kgm²		

Output	50%	75%	100%
Efficiency (%)	95.5	96.3	96.5
Power Factor	0.70	0.79	0.84

Load type	: -	
Load torque	: -	
Load inertia (J=GD²/4)	: -	

	Drive end	Non drive end
Bearing type	NU-319-C3	6316-C3
Lubrication interval	7000 h	13000 h
Lubricant amount	45 g	34 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 1705 kgf
Max. compression	: 2815 kgf

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load. Thus, WEG reserves the right to test the motor with ball bearings.

Naval Certification Organism: NOT APPLICABLE
Naval Service: NOT APPLICABLE

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)
4.10	3.23	2.66	2.43	1.65	1.29	0.73

Standards

Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Test	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

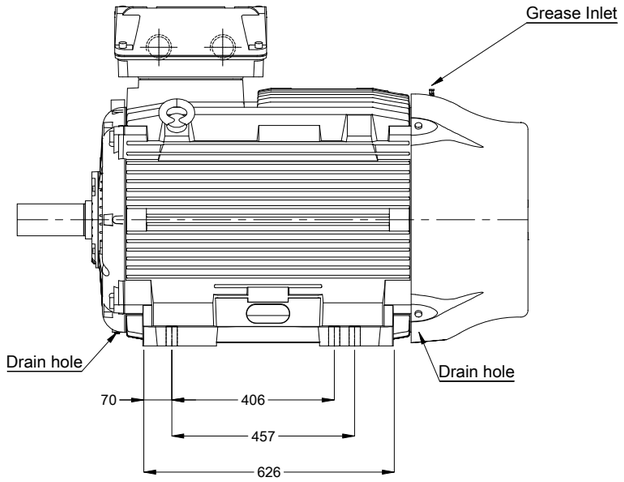
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

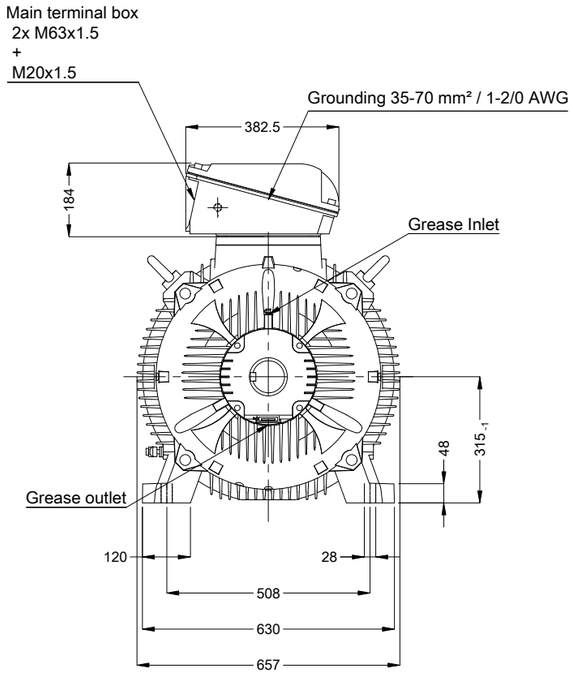
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

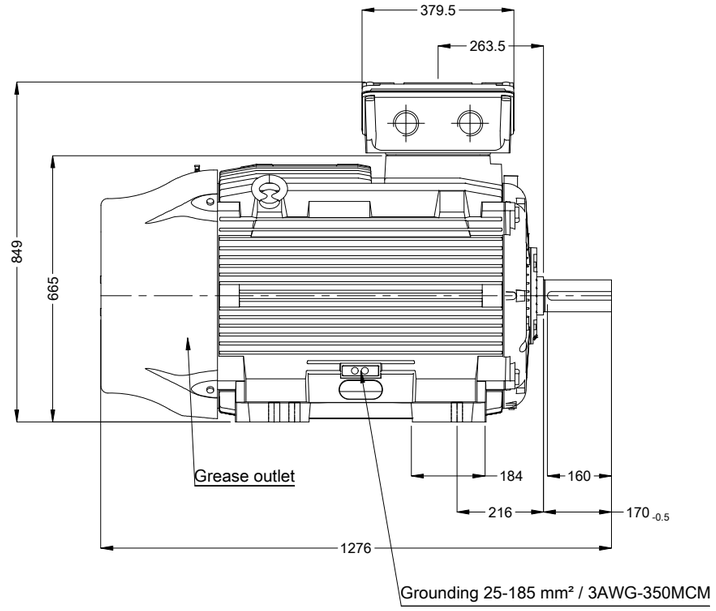
Rev.	Changes Summary	Performed	Checked	Date
				2026/11/03

Performed by				
Checked by			Page	Revision
Date	2026/11/03		1/1	0

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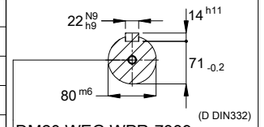






Shaft locking device
Shaft material - AISI/SAE 4140
DE roller bearing
NDE endshield with electrically insulated bearing hub
Color RAL 5009
Painting plan 203A
Mounting B3T

DE Shaft End



DM20 WEG WPR-7339

160 kW 04 Poles 50 Hz | A

Scale 1 : 15

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE4
FRAME 315S/M IP55 TEFC

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in mm

A3

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