DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	: ASTRAPROM
Product line	: W22 - IE3 Premium Efficiency Multivoltage
Product code	: 12862442

Frame	: 225S/M	Locked rotor time	: 9 s (hot) 16 s (cold)
Output	: 45 kW (60 HP)	Duty cycle	: S1
Poles	: 2	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	: 71.8 A	Cooling method	: IC411 - TEFC
L. R. Amperes	: 653 A	Mounting	: B5T
LRC	: 9.1	Rotation[1]	: Both
No load current	: 27.0 A	Noise level[2]	: 79 dB(A)
Rated speed	: 3575 rpm	Starting method	: Direct On Line
Slip	: 0.69 %	Approx. weight[3]	: 380 kg
Rated torque	: 12.3 kgfm	Design	: N
Locked rotor torque	: 320 %		
Pull up torque	: 270 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2861 kgm²		

Output	50%	75%	100%
Efficiency (%)	91.5	93.6	93.6
Power Factor	0.69	0.79	0.84

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

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	5000 h	5000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 389 kgf
Max. compression : 769 kgf

Notes:

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)
6.41	4.90	4.48	3.58	2.14	1.49	0.94

Standards

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

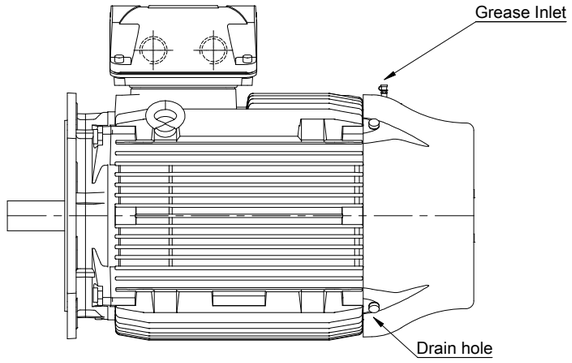
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

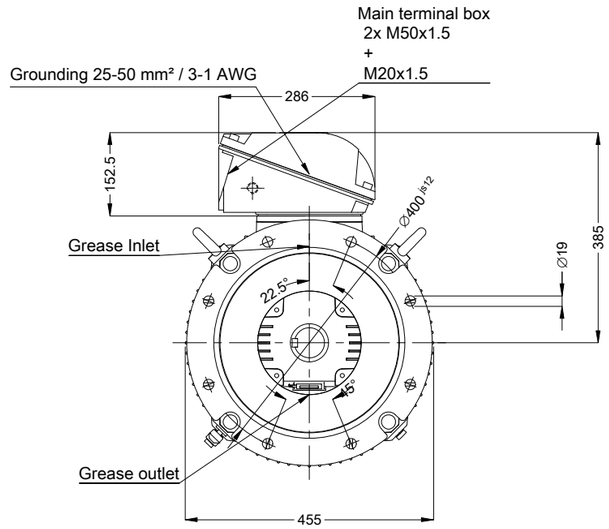
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

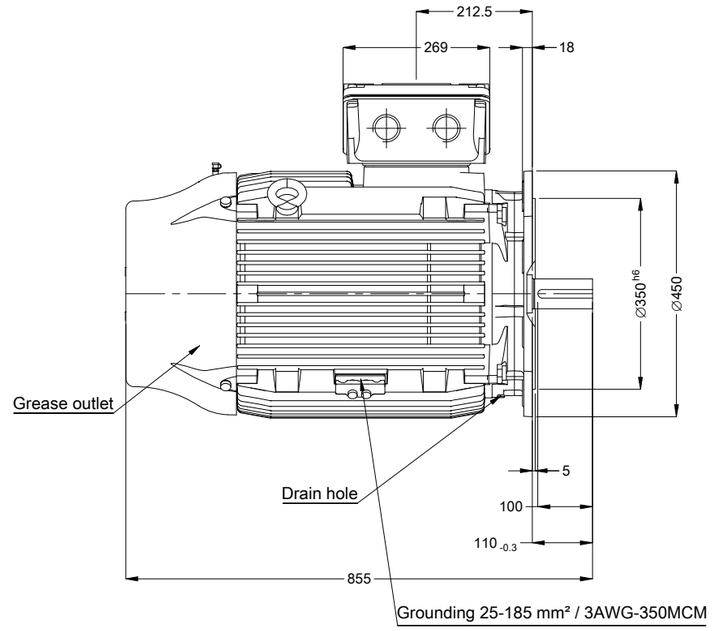
Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

Performed by				
Checked by			Page	Revision
Date	2026/11/17		1/1	0

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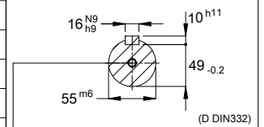






- Without vertical jackscrews
- Sealing - oil seal ring
- Color RAL 5009
- Painting plan 203A
- Mounting B5T

DE Shaft End



DM20 WEG WPR-7339

45 kW 02 Poles 50 Hz | A

Scale 1 : 11

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3
FRAME 225S/M IP55 TEFC

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in mm

A3

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