DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	: ASTRAPROM
Product line	: W22Xec Increased Safety - Premium Efficiency IE3 Multivoltage
Product code	: 15471051

Frame	: 225S/M	Locked rotor time	: 8 s (hot) 14 s (cold)
Output	: 53 kW (72 HP)	Duty cycle	: S1
Poles	: 4	Ambient temperature	: -20 °C to +40 °C
Frequency	: 60 Hz	Altitude	: 1000 m.a.s.l
Rated voltage	: 440 V	Protection degree	: IP55
Rated current	: 87.2 A	Cooling method	: IC411 - TEFC
L. R. Amperes	: 637 A	Mounting	: B3T
LRC	: 7.3	Rotation[1]	: Both
No load current	: 35.0 A	Noise level[2]	: 67 dB(A)
Rated speed	: 1782 rpm	Starting method	: Direct On Line
Slip	: 1.00 %	Approx. weight[3]	: 400 kg
Rated torque	: 29.0 kgfm	Design	: N
Locked rotor torque	: 270 %		
Pull up torque	: 230 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.6733 kgm²		

Output	50%	75%	100%
Efficiency (%)	93.6	93.8	93.8
Power Factor	0.72	0.81	0.85

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

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	14000 h	14000 h
Lubricant amount	27 g	27 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 744 kgf
Max. compression : 1144 kgf

Notes:
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)
6.31	5.37	5.32	2.98	2.06	1.32	0.92

Standards

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

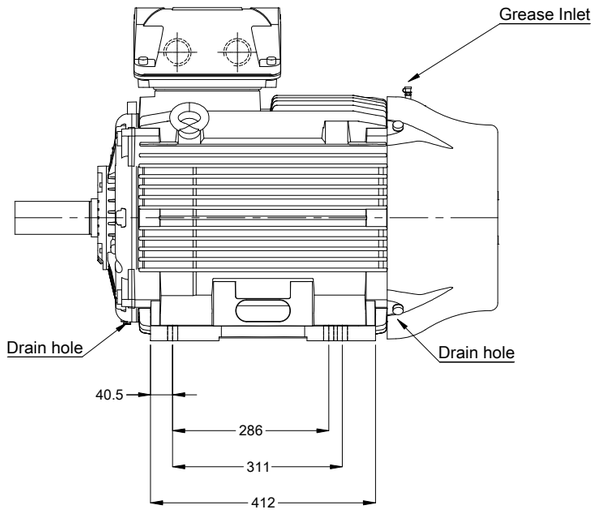
This revision replaces and cancel the previous one, which must be eliminated..
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +0dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.
(4) At 100% of full load.

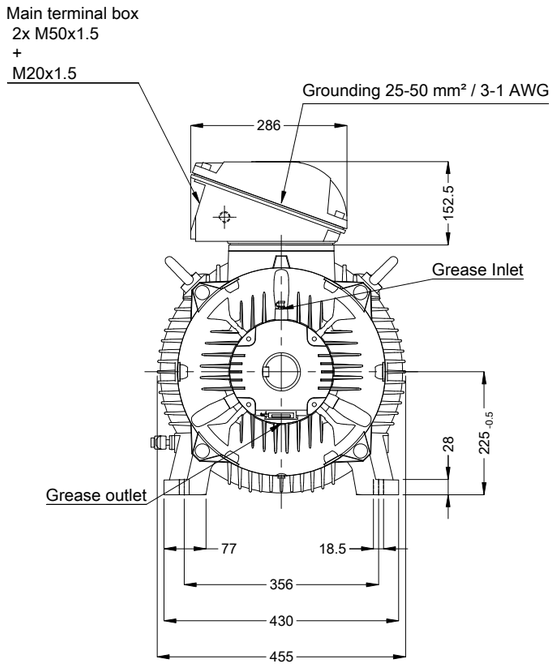
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

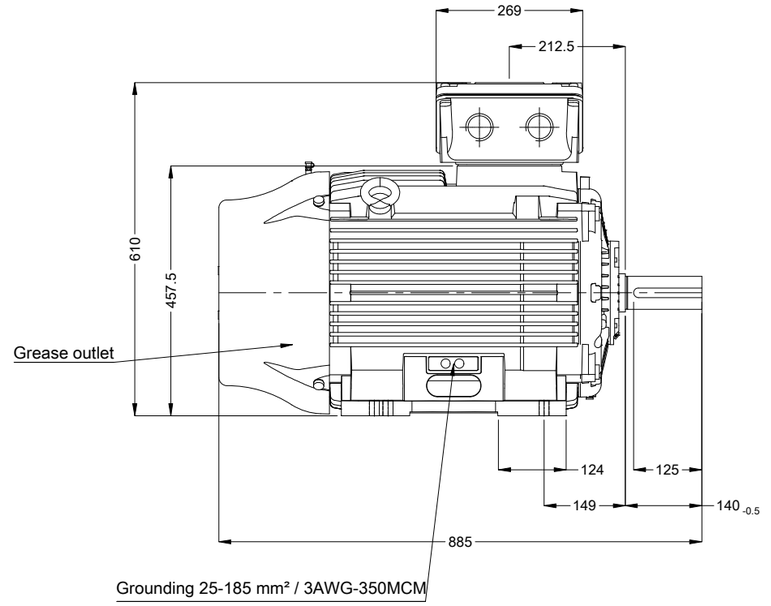
Rev.	Changes Summary	Performed	Checked	Date
				2026/11/03

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

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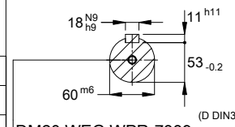


Color RAL 5009

Painting plan 203A

Mounting B3T

DE Shaft End



DM20 WEG WPR-7339

45 kW 04 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 W22Xec IE3

FRAME 225S/M IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in mm

A3

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