

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer : WEG ELECTRIC CORPORATION - WEC

Product line : Special Motor

Frame	: 100L	Locked rotor time	: 6 s (hot) 11 s (cold)
Output	: 3 kW	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230 V	Altitude	: 3280 ft
Rated current	: 17.9 A	Protection degree	: IP55
L. R. Amperes	: 104 A	Cooling method	: IC411 - TEFC
LRC	: 5.8	Mounting	: B35L(D)
No load current	: 7.40 A	Rotation ¹	: Both
Rated speed	: 1730 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 3.89 %	Vibration class	: NOT APPLICABLE
Rated torque	: 12.2 ft.lb	Starting method	: Direct On Line
Locked rotor torque	: 200.0 %	Coupling	: Direct
Pull up torque	: 170.0 %	Approx. weight ³	: 94.2 lb
Breakdown torque	: 200.0 %	Painting plan	: 207A
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.00		
Moment of inertia (J)	: 0.2207 sq.ft.lb		

Output	50%	75%	100%
Efficiency (%)	77.0	81.5	82.0
Power Factor	0.61	0.85	0.89

Load type	: -
Load torque	: -
Load inertia (J=GD ² /4)	: -

	Drive end	Non drive end
Bearing type	6206-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: -
Max. compression	: -

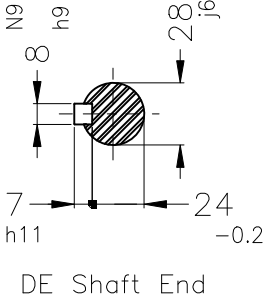
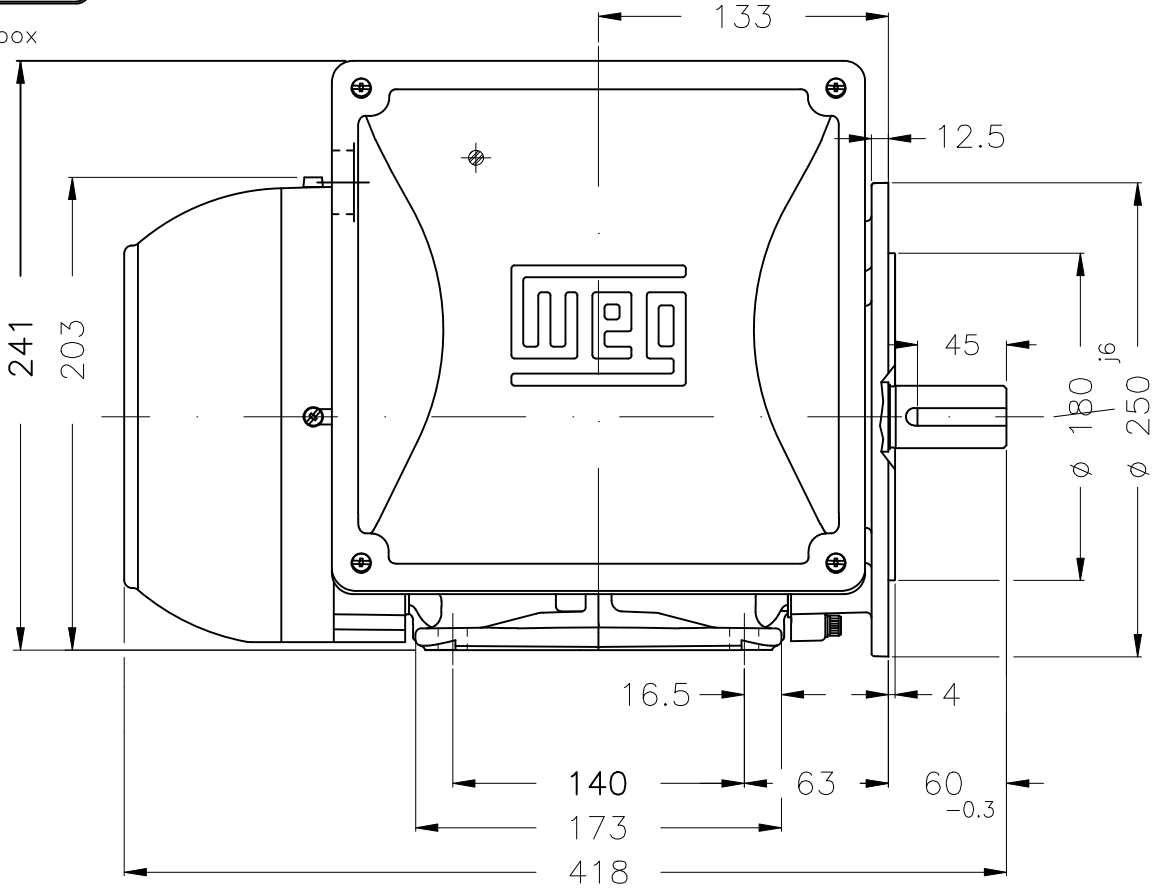
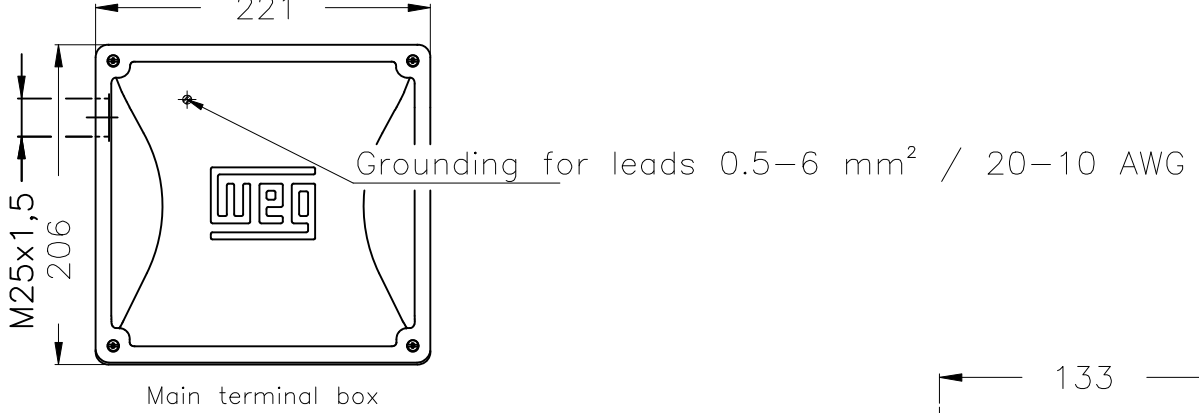
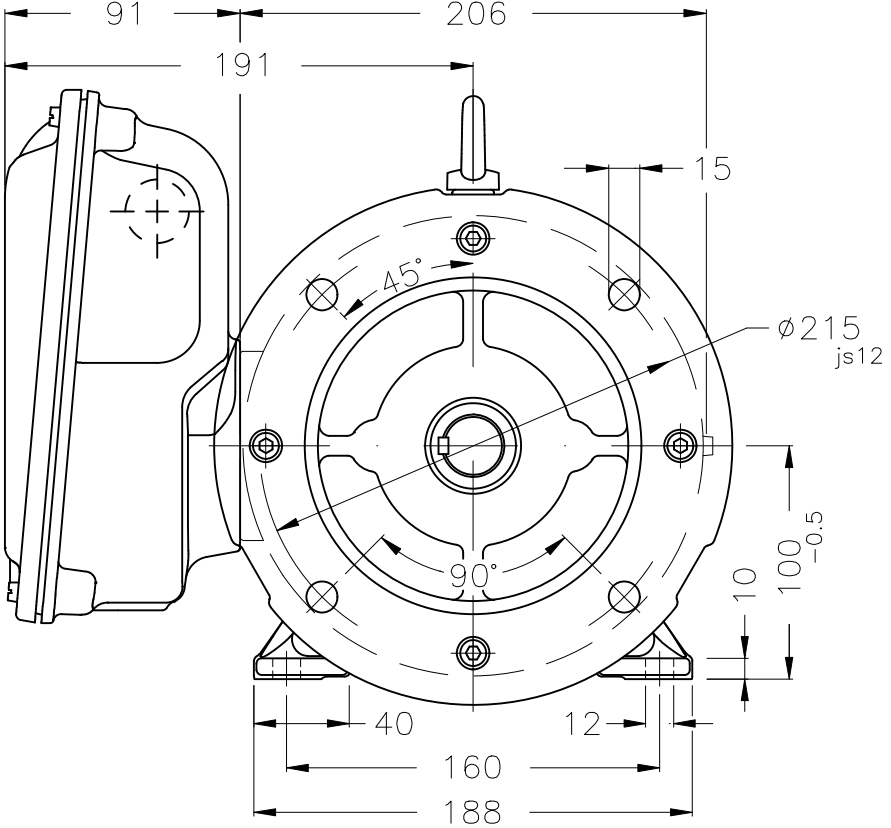
Notes
W22

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 +3dB(A).
(3) Approximate weight, subject to be changed after manufacturing process.

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

Rev.	Changes Summary		Rev.	Checked	Date
Performed by	lucaspiton			1383088116	
Checked by	AUTOMATICO			Page	Rev.
Date	16/07/2024			1 / 1	1



Center hole
DM10 WEG WPR-
(DIN 332)

Dimensions in mm

XIME	A3
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Service factor 1.0									
Mounting B35L(D)									
WEG ELECTRIC CORPORATION - WEC									
				PIRWBUSER					01
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER		SINGLE PH. MOTOR W22 FRAME 100L IP55 TEFC			PREVIEW WDD 01			
CHECKED									
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			