

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 13060956

Frame	: 112M	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 4 kW (5.5 HP)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 400/690 V	Altitude	: 1000 m.a.s.l.
Rated current	: 7.62/4.42 A	Protection degree	: IP55
L. R. Amperes	: 58.7/34.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.7	Mounting	: B34T
No load current	: 3.10/1.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2900 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 1.34 kgfm	Approx. weight ³	: 36.2 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0080 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.5	87.5	88.1	Max. traction	: 84 kgf
Power Factor	0.69	0.80	0.86	Max. compression	: 120 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)
13.5	12.2	11.3	6.2	4.4	2.7	2.0

	Drive end	Non drive end
Bearing type	: 6207 ZZ	6206 ZZ
Sealing	: Oil Seal	Oil Seal
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	Mobil Polyrex EM	

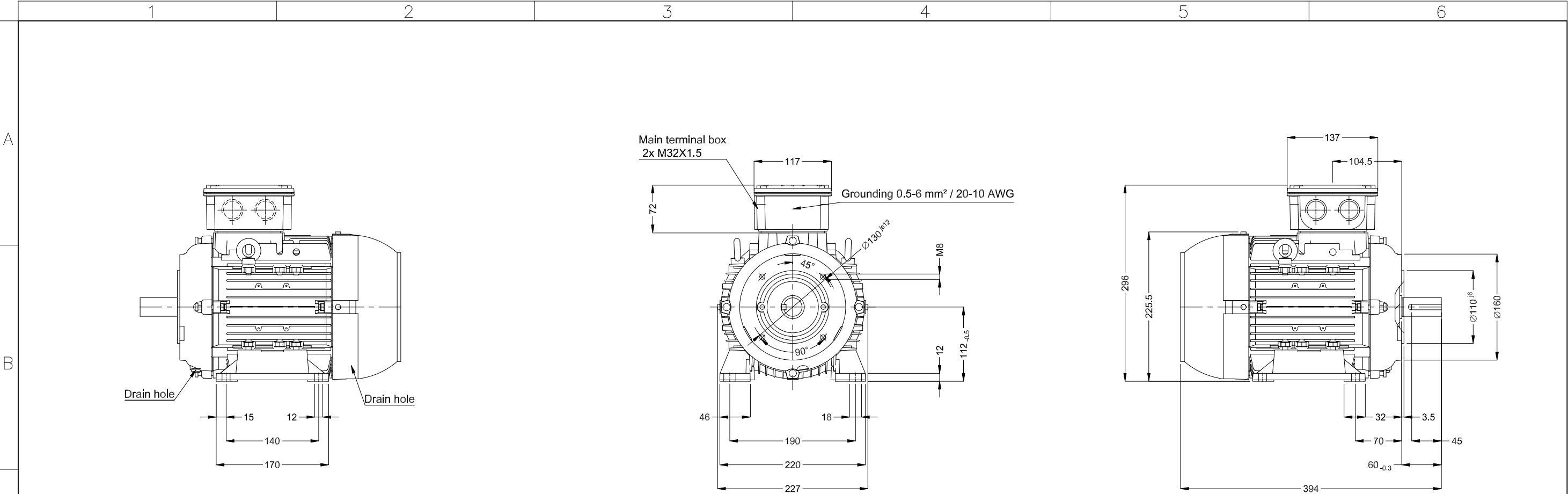
Notes

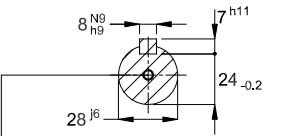
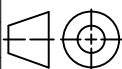
This revision replaces and cancel the previous one, which must be eliminated.

- (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 IEC 60034-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	12/02/2025			
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D					4 kW 02 Poles 50 Hz										A		
E					Scale 1 : 6												
Sealing - oil seal ring				DE Shaft End  DM10 WEG WPR-7339			ECM		LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED		HYBRISUSER						THREE PH. MOTOR MULTIMOUNTIN TOP PREM. EFF. FRAME 112M IP55 TEFC			PREVIEW						
CHECKED								WDD		00							
RELEASED								SHEET		1 / 1							
REL. DATE																	