

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		14351011
				Catalog # :		45012ET3H586/7-W22
Frame	: 586/7T			Locked rotor time	: 45s (cold) 25s (hot)	
Output	: 450 HP (330 kW)			Temperature rise	: 80 K	
Poles	: 6			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 575 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 426 A			Protection degree	: IP55	
L. R. Amperes	: 2596 A			Cooling method	: IC411 - TEFC	
LRC	: 6.1x(Code G)			Mounting	: F-1	
No load current	: 176 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1193 rpm			Noise level ²	: 77.0 dB(A)	
Slip	: 0.58 %			Starting method	: Direct On Line	
Rated torque	: 1980 ft.lb			Approx. weight ³	: 4628 lb	
Locked rotor torque	: 200 %					
Breakdown torque	: 210 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 368 sq.ft.lb					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.7	95.8	96.2	96.2	Max. traction : 6364 lb	
Power Factor	0.42	0.67	0.77	0.81	Max. compression : 10993 lb	
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)
4.6	3.4	2.7	2.9	1.9	1.5	0.9
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:		6322 C3	6319 C3		
Sealing	:		Taconite Labyrinth	Taconite Labyrinth		
Lubrication interval	:		11000 h	13000 h		
Lubricant amount	:		60 g	45 g		
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 NEMA MG-1.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	25/02/2025				1 / 2	

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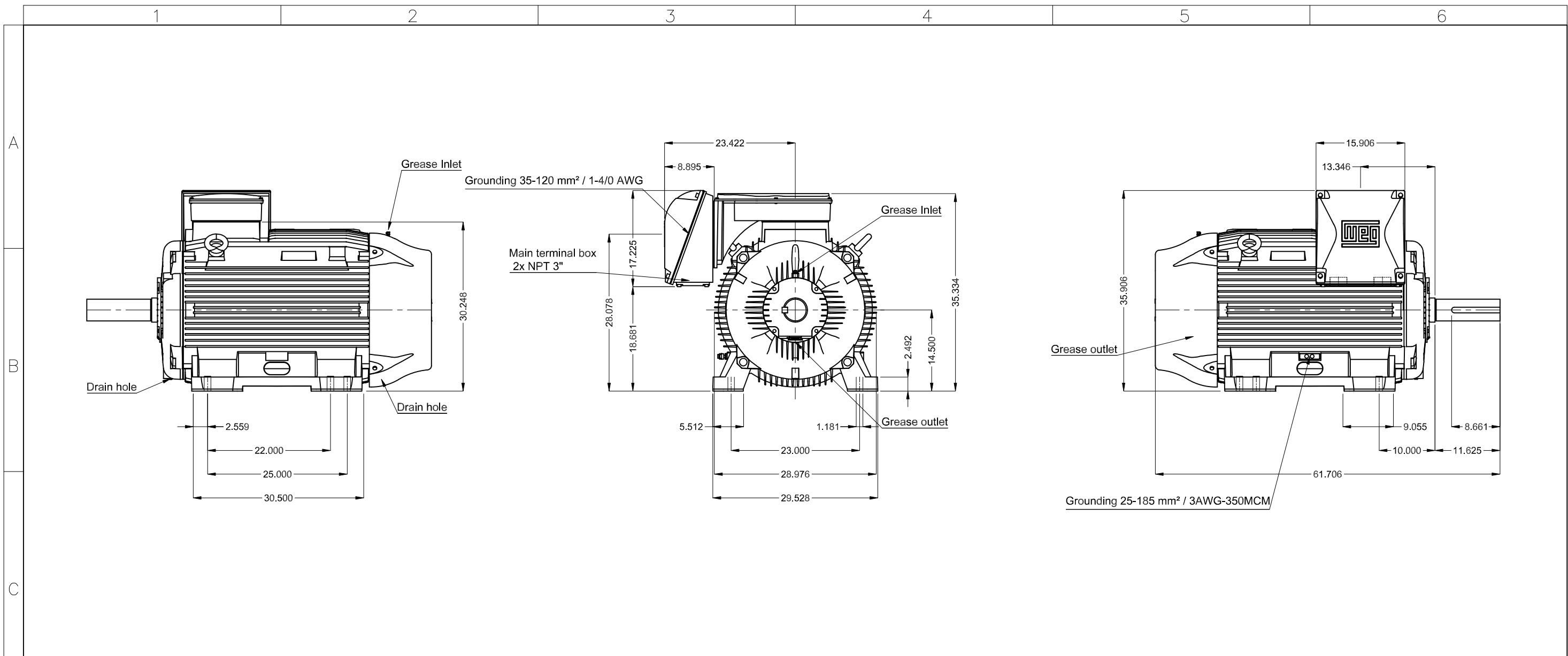


Customer : _____

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision
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				450 HP 06 Poles 60 Hz		A				
				Scale		1 : 18				
				HYBRISUSER		00				
		ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
		EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.		PREVIEW				
		CHECKED		FRAME 586/7T IP55 TEFC		WDD	00			
		RELEASED				SHEET	1 / 1			
		REL. DATE								

Without vertical jackscrews
 NDE endshield with electrically insulated bearing hub
 Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B3R(D)

