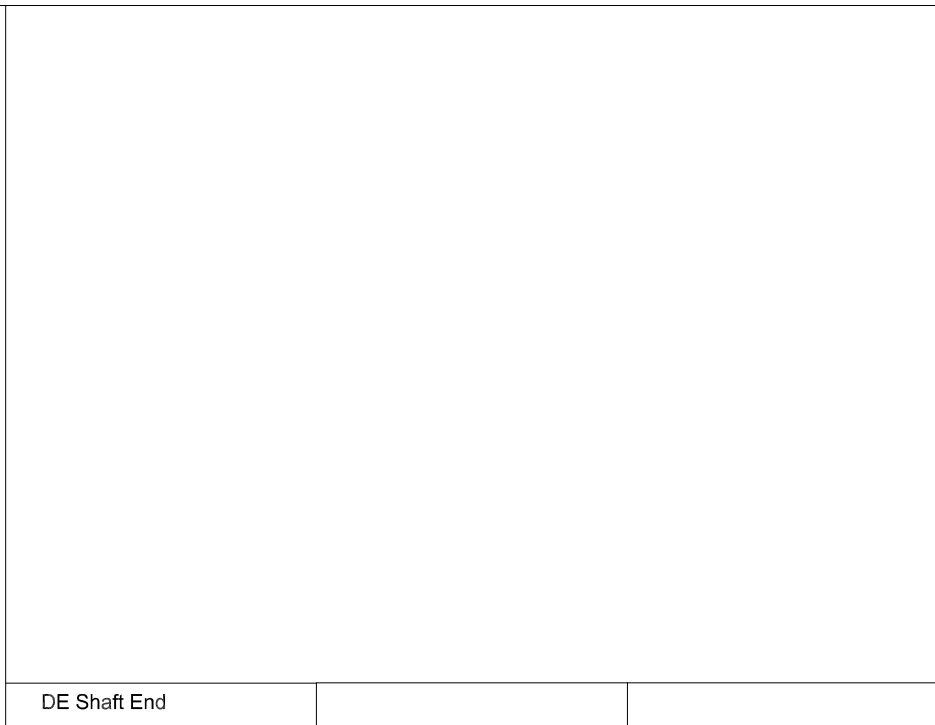
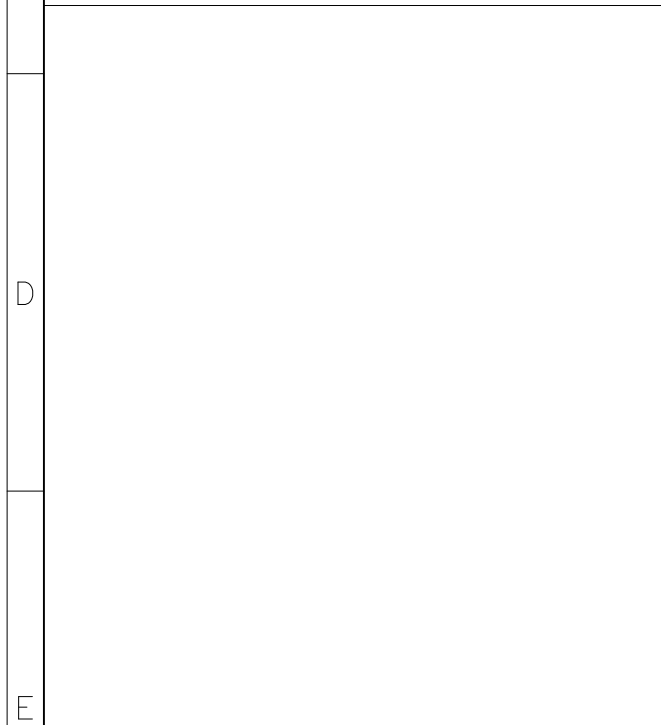
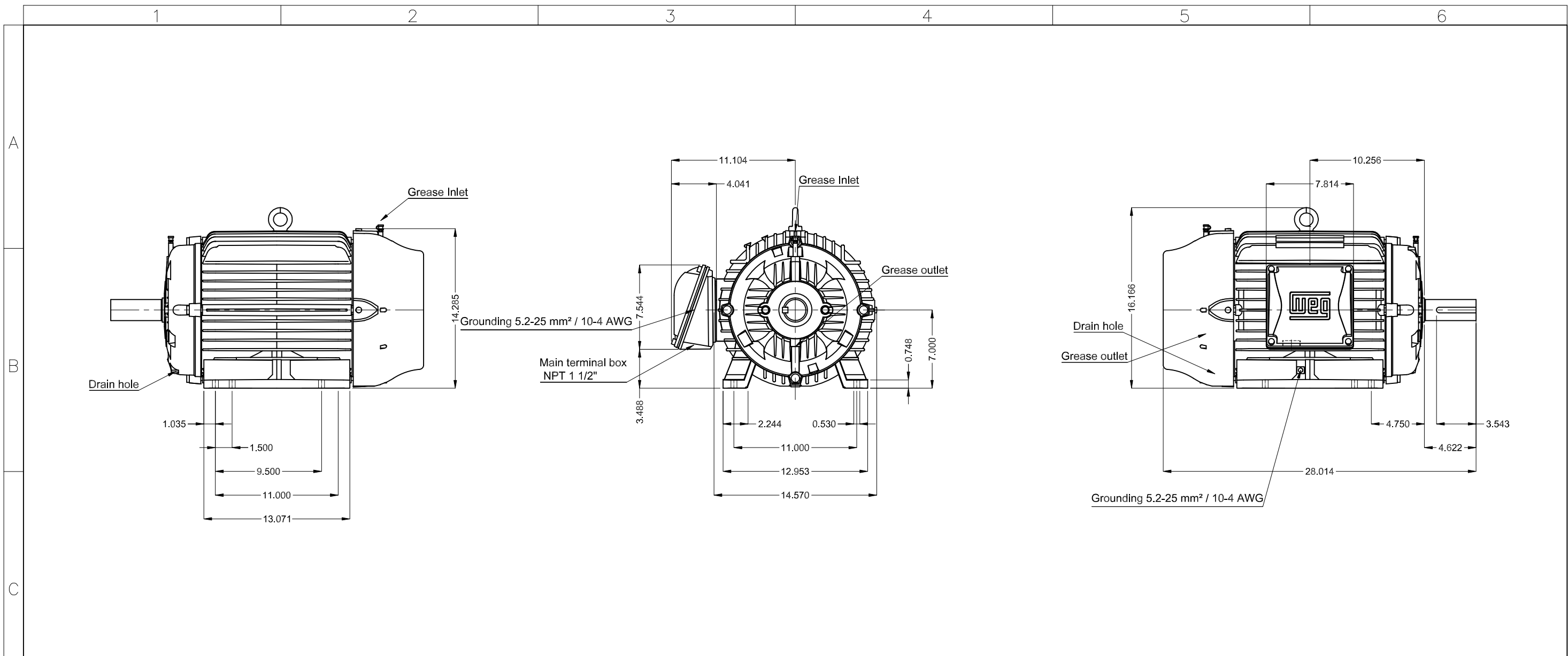


# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11584390
				Catalog # :		01509ST3QIE286T-W22
Frame	: 284/6T			Locked rotor time	: 45s (cold) 25s (hot)	
Output	: 15 HP (11 kW)			Temperature rise	: 80 K	
Poles	: 8			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 460 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 19.6 A			Protection degree	: IP56	
L. R. Amperes	: 108 A			Cooling method	: IC411 - TEFC	
LRC	: 5.5x(Code G)			Mounting	: F-1	
No load current	: 9.80 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 880 rpm			Noise level <sup>2</sup>	: 54.0 dB(A)	
Slip	: 2.22 %			Starting method	: Direct On Line	
Rated torque	: 89.5 ft.lb			Approx. weight <sup>3</sup>	: 421 lb	
Locked rotor torque	: 200 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 8.18 sq.ft.lb					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	85.5	90.0	90.2	Max. traction	: 825 lb	
Power Factor	0.62	0.72	0.78	Max. compression	: 1246 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)
10.3	8.2	7.6	5.5	3.7	2.7	1.8
			Drive end	Non drive end		
Bearing type	:		6311 C3	6211 C3		
Sealing	:		Inpro/Seal	Inpro/Seal		
Lubrication interval	:		20000 h	20000 h		
Lubricant amount	:		18 g	11 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	11/03/2025				1 / 1	



15 HP 08 Poles 60 Hz										A	
Scale 1 : 9											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.					PREVIEW		WDD 00		
CHECKED		FRAME 284/6T IP56 TEFC					SHEET 1 / 1				
RELEASED											
REL. DATE											

Without vertical jackscrews  
 Grease outlet according to IEEE841  
 Color RAL 5009  
 Painting plan 222E  
 Mounting B3R(D)



**NEMA**  
Premium  
W22



FOR SAFE AREA  
Mod. TE1BFOXON  
CC029A



Class I, Div 2, Gr A, B, C, D, 1.15SF - T3  
Class I, Zone 2, IIC, 1.15SF - T3  
Class II, Div 2, Gr F, G - T4  
For use on PWM: Gr. A, B, C, D, F,  
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 01509ST3QIE286T-W22

**IEEE**  
841-2021

Inverter Duty Motor  
Severe Duty

PH3 60Hz Fr. 284/6T 1000m.a.s.l. IP56 TEFC 384lb

V 460

A 20.0

HP 15

kW 11

SF 1.25

SFA 25.0

RPM 880

PF 0.77

AMB 40°C

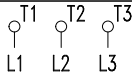
INS cl. F DT80K

NEMA NOM EFF 89.5%

DUTY CONT.

DES B Code G

GUARANT. EFF 87.5%



460V

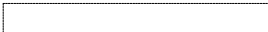


→ 6311-C3 (18g) 55BC03X30

→ 6211-C3 (11g) 55BC02X30



MOBIL POLYREX EM (20000h)



MADE IN BRAZIL  
11584390