

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11165470
Catalog # : HT040406NPW22

Frame	: 364/5T	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 230/460 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 93.0/46.5 A	Protection degree	: IP55
	: 6.4x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 1183 rpm	Mounting	: F-1
Rated torque	: 178 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 66.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 21.8 sq.ft.lb	Approx. weight ³	: 833 lb
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.6	93.6	94.1	Max. traction	: 1253 lb
Power Factor	0.73	0.82	0.86	Max. compression	: 2115 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)
6.1	5.0	4.4	2.8	1.9	1.1	0.8

	Drive end	Non drive end
Bearing type	: 6314 C3	6314 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 17000 h	17000 h
Lubricant amount	: 27 g	27 g
Lubricant type	Mobil Polyrex EM	

Notes

USABLE @208V 103A SF 1.10 SFA 113A

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				
Date	29/06/2026			
			Page	Revision
			1 / 5	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

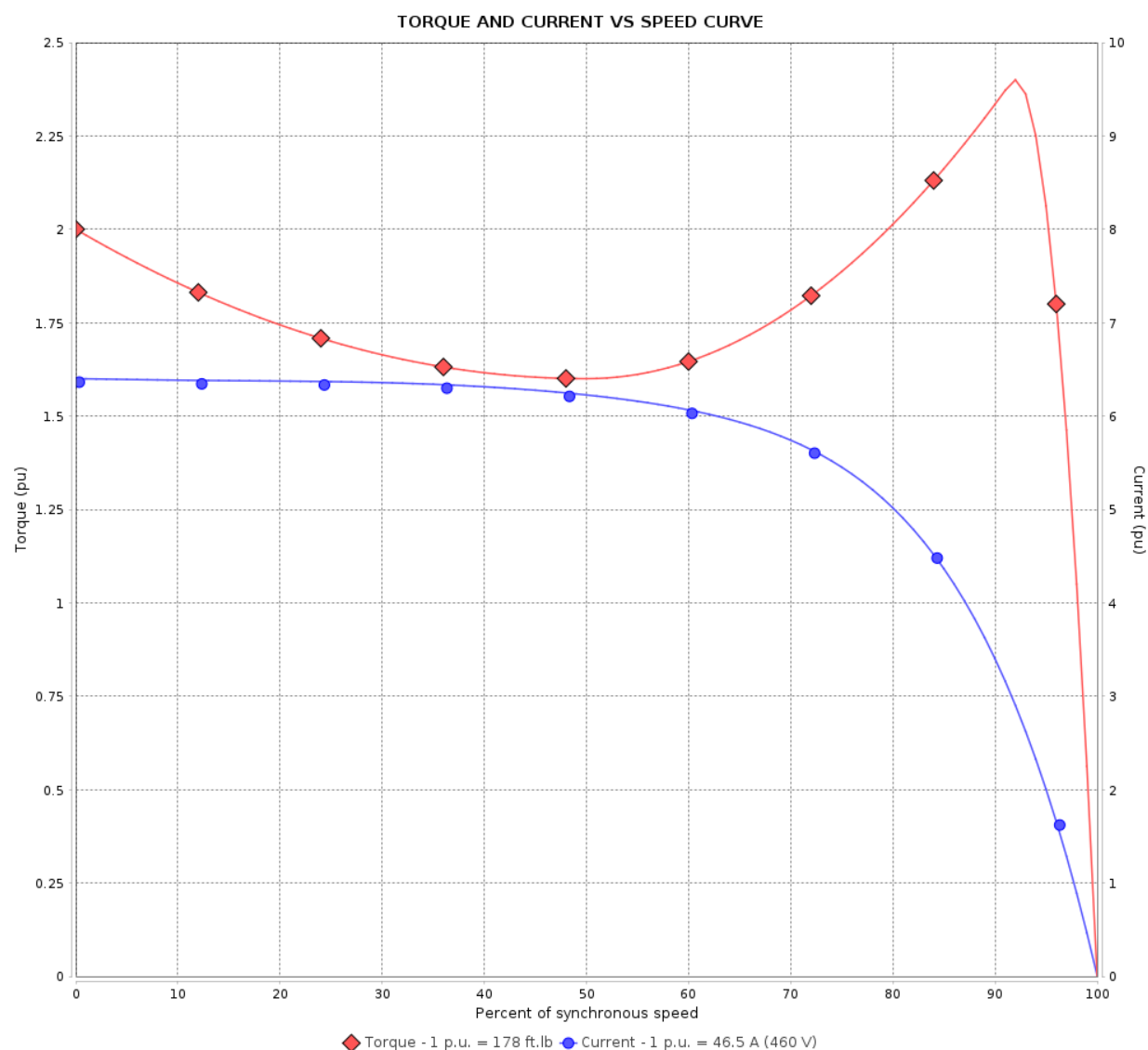


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11165470

Catalog # : HT040406NPW22



Performance : 230/460 V 60 Hz 6P

Rated current : 93.0/46.5 A
LRC : 6.4
Rated torque : 178 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 1183 rpm

Moment of inertia (J) : 21.8 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Duty cycle : Cont.(S1)

Locked rotor time : 37s (cold) 21s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 5Revision		
Checked by				
Date	29/06/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

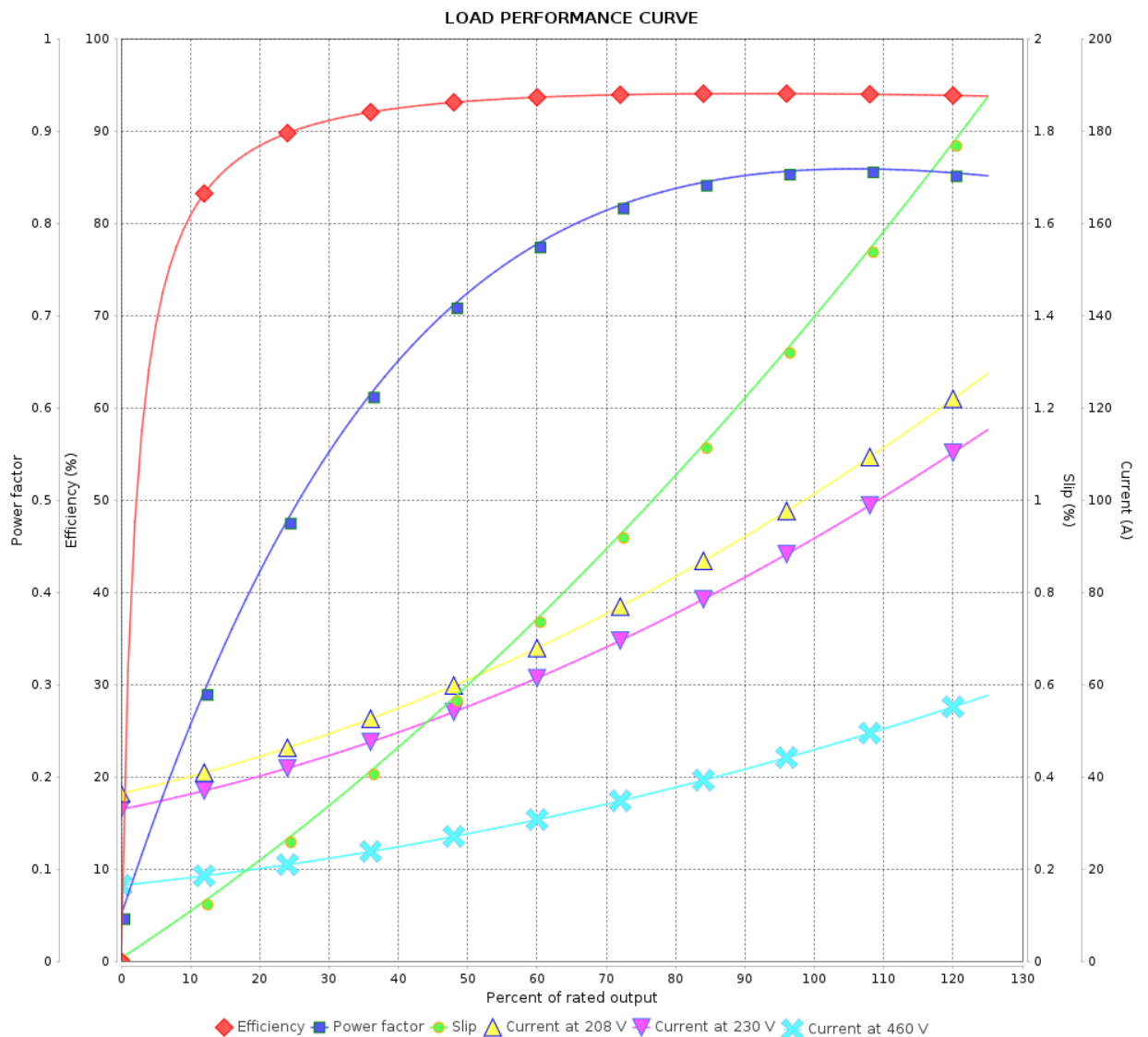


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11165470

Catalog # : HT040406NPW22



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	29/06/2026			Page 3 / 5	Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

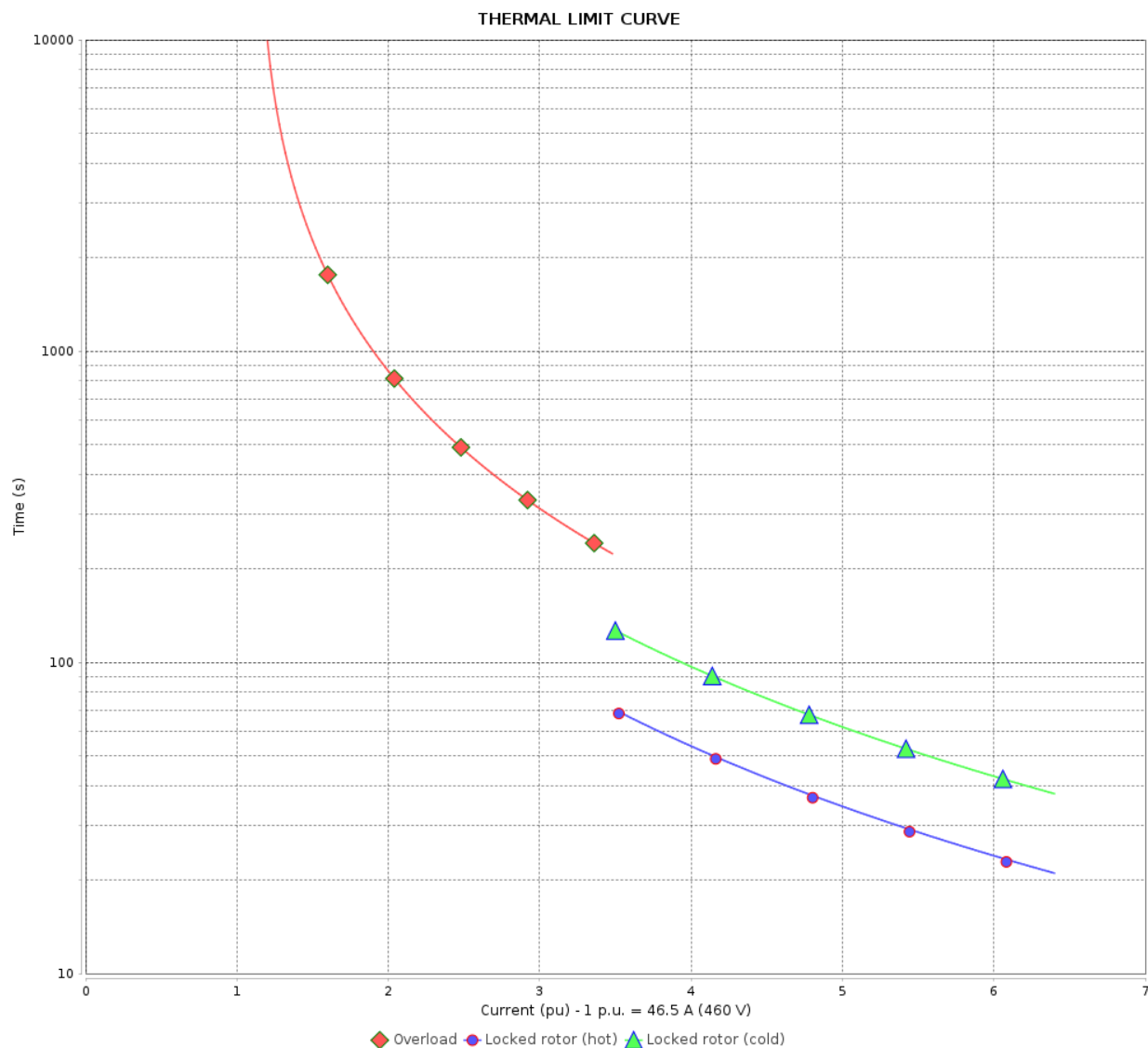


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11165470

Catalog # : HT040406NPW22



Heating constant

Cooling constant

Rev.	Changes Summary		Performed	Checked	Date
Performed by		Page 4 / 5Revision			
Checked by					
Date	29/06/2026				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

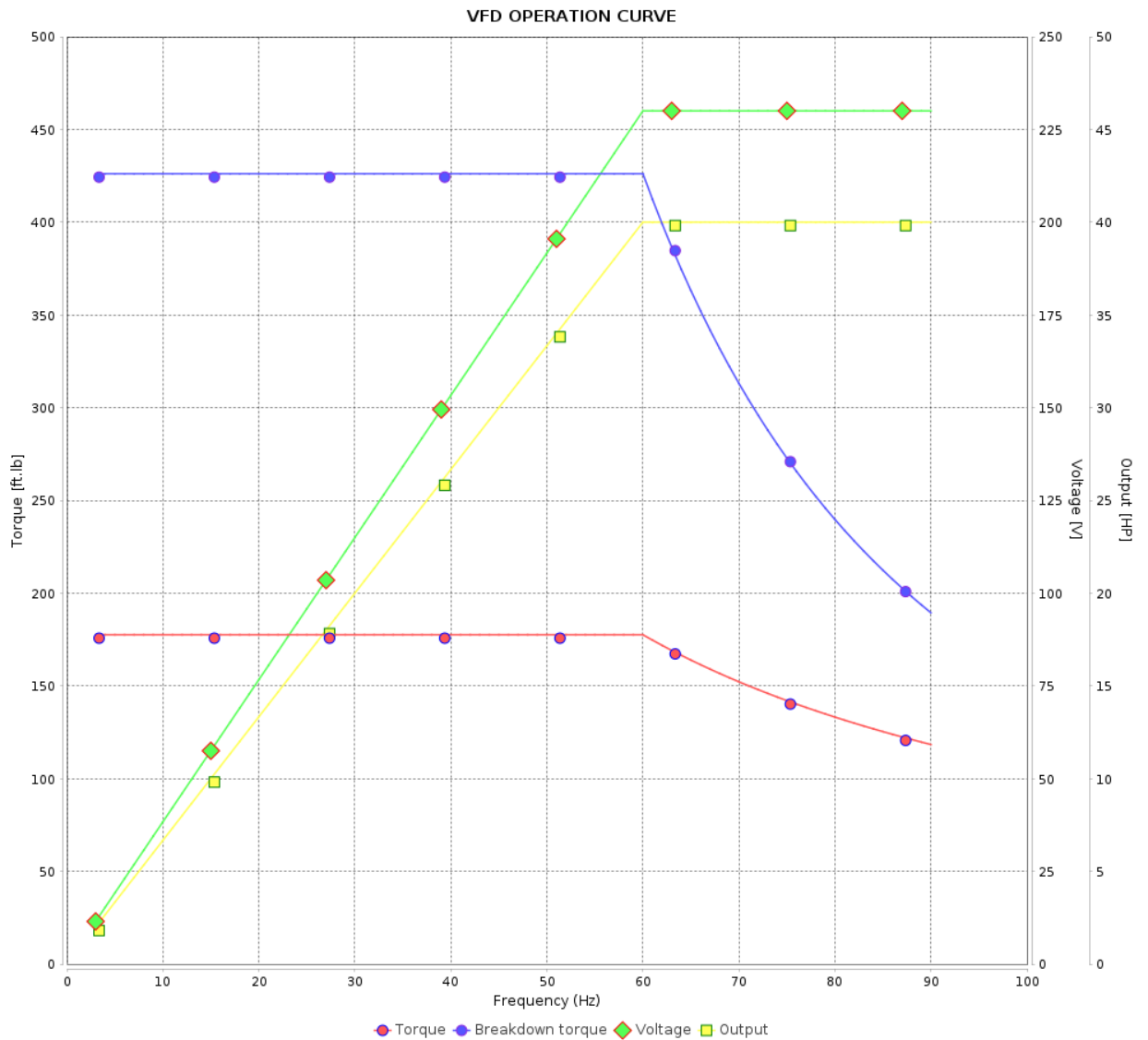


Customer :

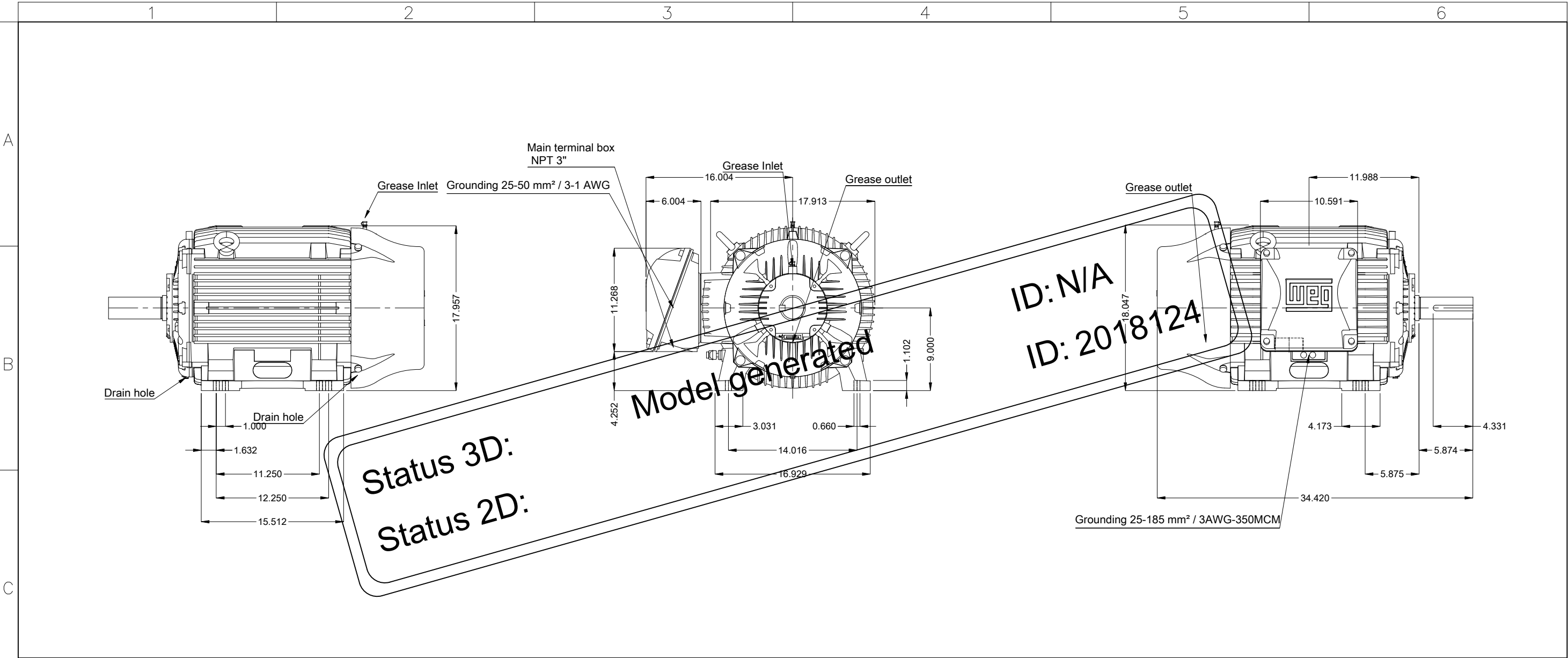
Product line : W22 NEMA Premium Efficiency
Three-Phase

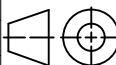
Product code : 11165470

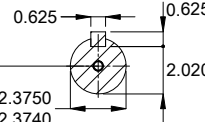
Catalog # : HT040406NPW22



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	29/06/2026			Page 5 / 5	Revision



D E																			
	40 HP 06 Poles 60 Hz													A					
	Scale 1 : 11																		
														HYBRISUSER					00
	ECM	LOC	SUMMARY OF MODIFICATIONS										EXECUTED	CHECKED	RELEASED	DATE	VER		
	EXECUTED	HYBRISUSER	 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 364/5T IP55 TEFC										PREVIEW						
	CHECKED												WDD	00					
	RELEASED												SHEET 1 / 1						
REL. DATE																			

	DE Shaft End  DUNC 3/4"-10 WEG WPR-7339		
--	--	--	--