

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11611958
Catalog # : HT125402NPW22

Frame	: 444/5TS	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 273/137 A	Protection degree	: IP55
L. R. Amperes	: 1913/957 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code G)	Mounting	: F-1
No load current	: 80.0/40.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3573 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.75 %	Starting method	: Direct On Line
Rated torque	: 184 ft.lb	Approx. weight ³	: 1599 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 33.5 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.6	94.5	95.0	Max. traction	: 710 lb
Power Factor	0.78	0.85	0.87	Max. compression	: 2235 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)
4.3	2.9	2.4	2.7	1.4	1.1	0.6

	Drive end	Non drive end
Bearing type	: 6314 C3	: 6314 C3
Sealing	: WSeal	: WSeal
Lubrication interval	: 4000 h	: 4000 h
Lubricant amount	: 27 g	: 27 g
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 296A SF 1.00 SFA 296A

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	02/07/2026			
		Page		Revision
		1 / 6		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

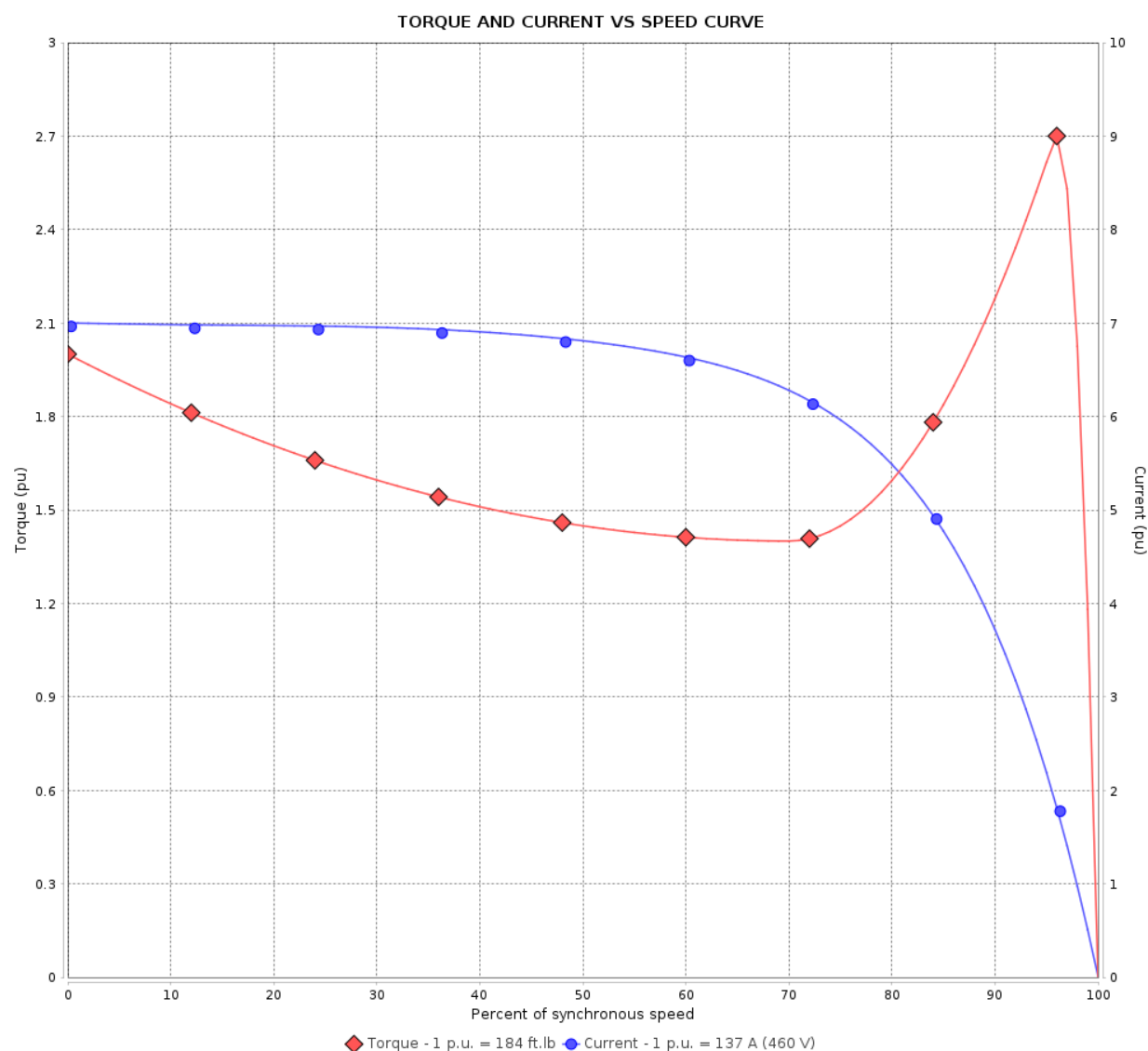


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11611958

Catalog # : HT125402NPW22



Performance : 230/460 V 60 Hz 2P

Rated current : 273/137 A
LRC : 7.0
Rated torque : 184 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 270 %
Rated speed : 3573 rpm

Moment of inertia (J) : 33.5 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 52s (cold) 29s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6 Revision		
Checked by				
Date	02/07/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

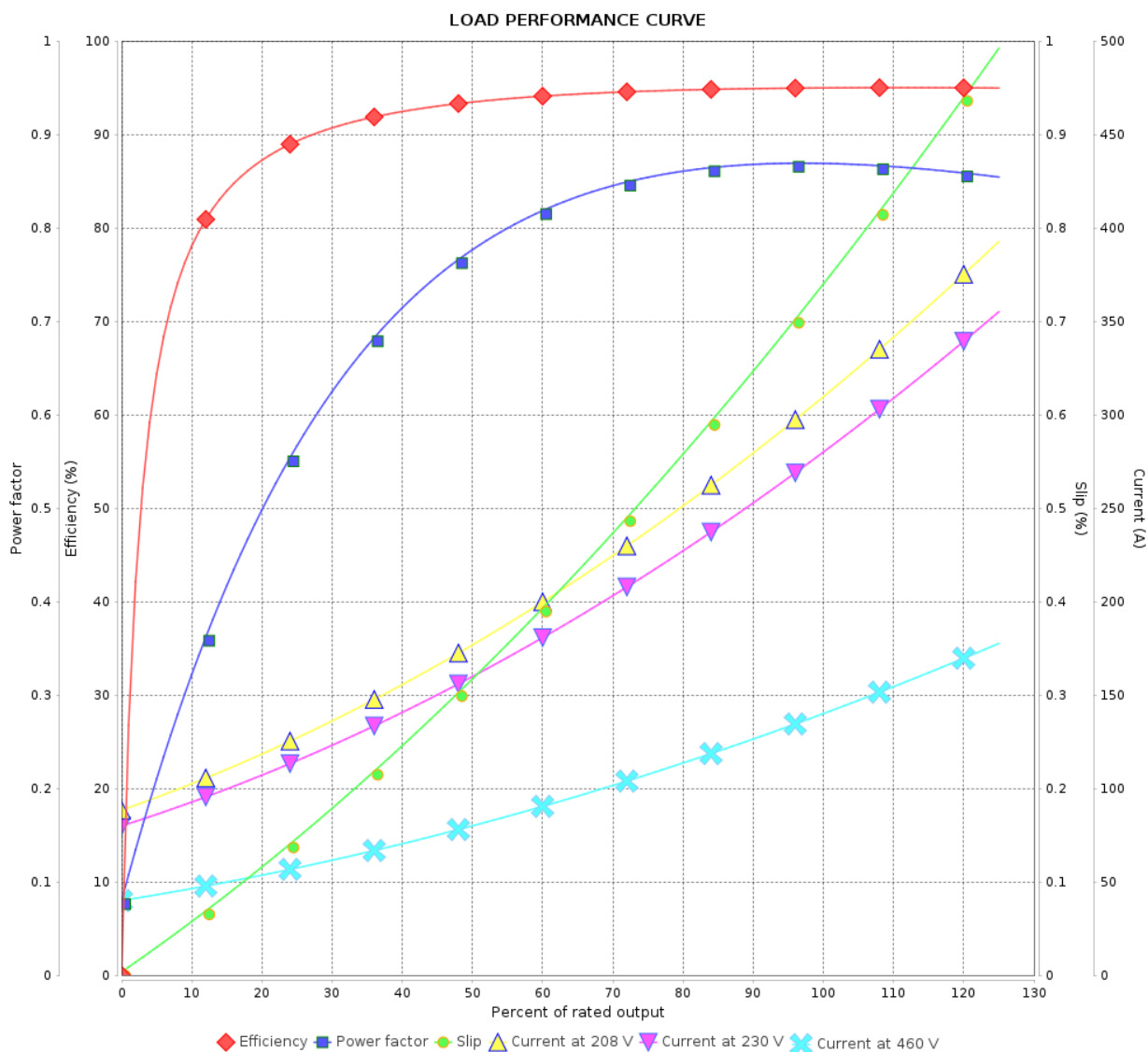


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11611958

Catalog # : HT125402NPW22



Performance : 230/460 V 60 Hz 2P

Rated current : 273/137 A
LRC : 7.0
Rated torque : 184 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 270 %
Rated speed : 3573 rpm

Moment of inertia (J) : 33.5 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 6Revision		
Checked by				
Date	02/07/2026			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11611958

Catalog # : HT125402NPW22

Performance : 230/460 V 60 Hz 2P

Rated current : 273/137 A
LRC : 7.0
Rated torque : 184 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 270 %
Rated speed : 3573 rpm

Moment of inertia (J) : 33.5 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

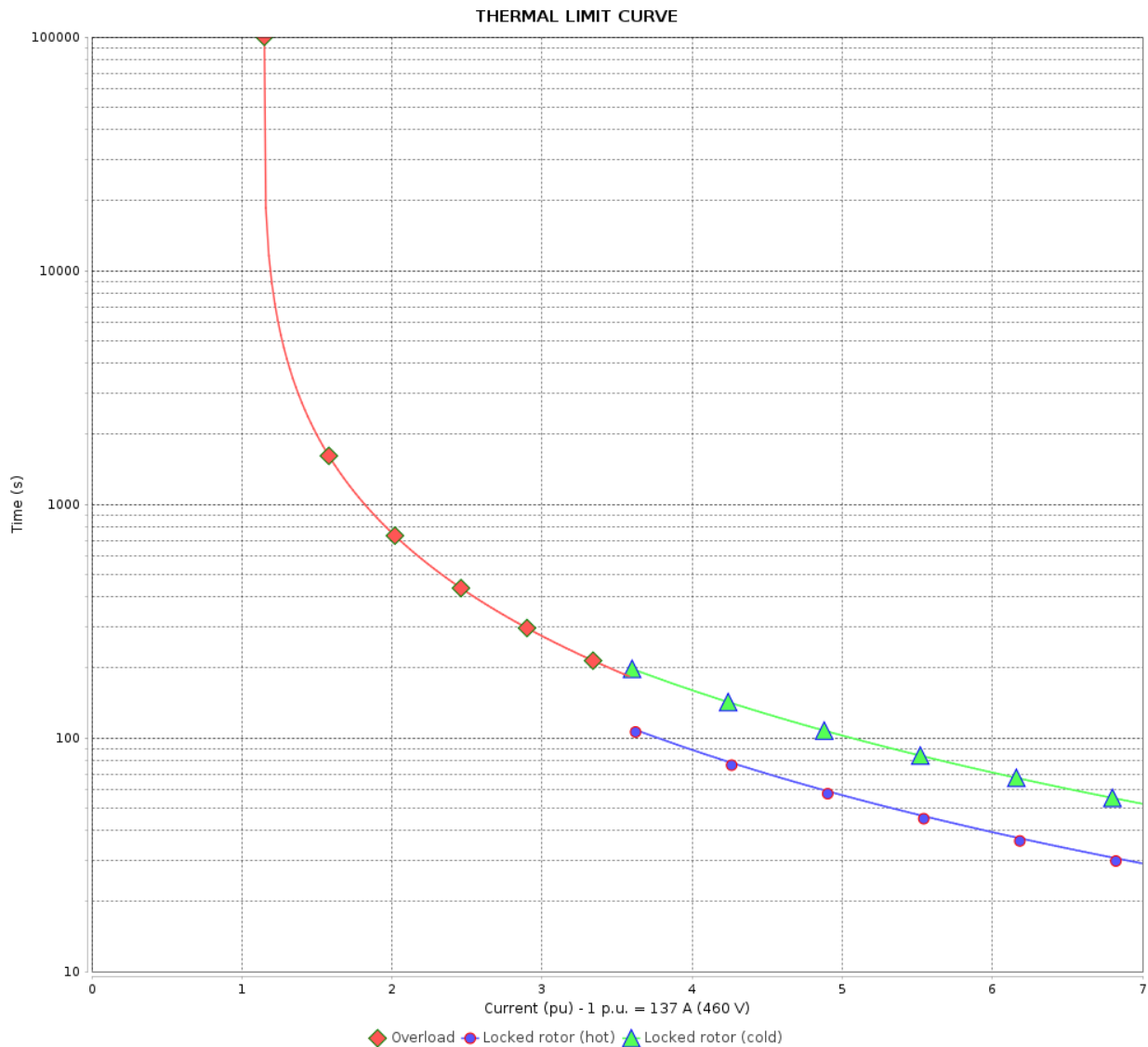
Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 4 / 6		Revision
Checked by					
Date	02/07/2026				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary		Performed	Checked	Date
Performed by					Page 5 / 6
Checked by					
Date	02/07/2026				
					Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

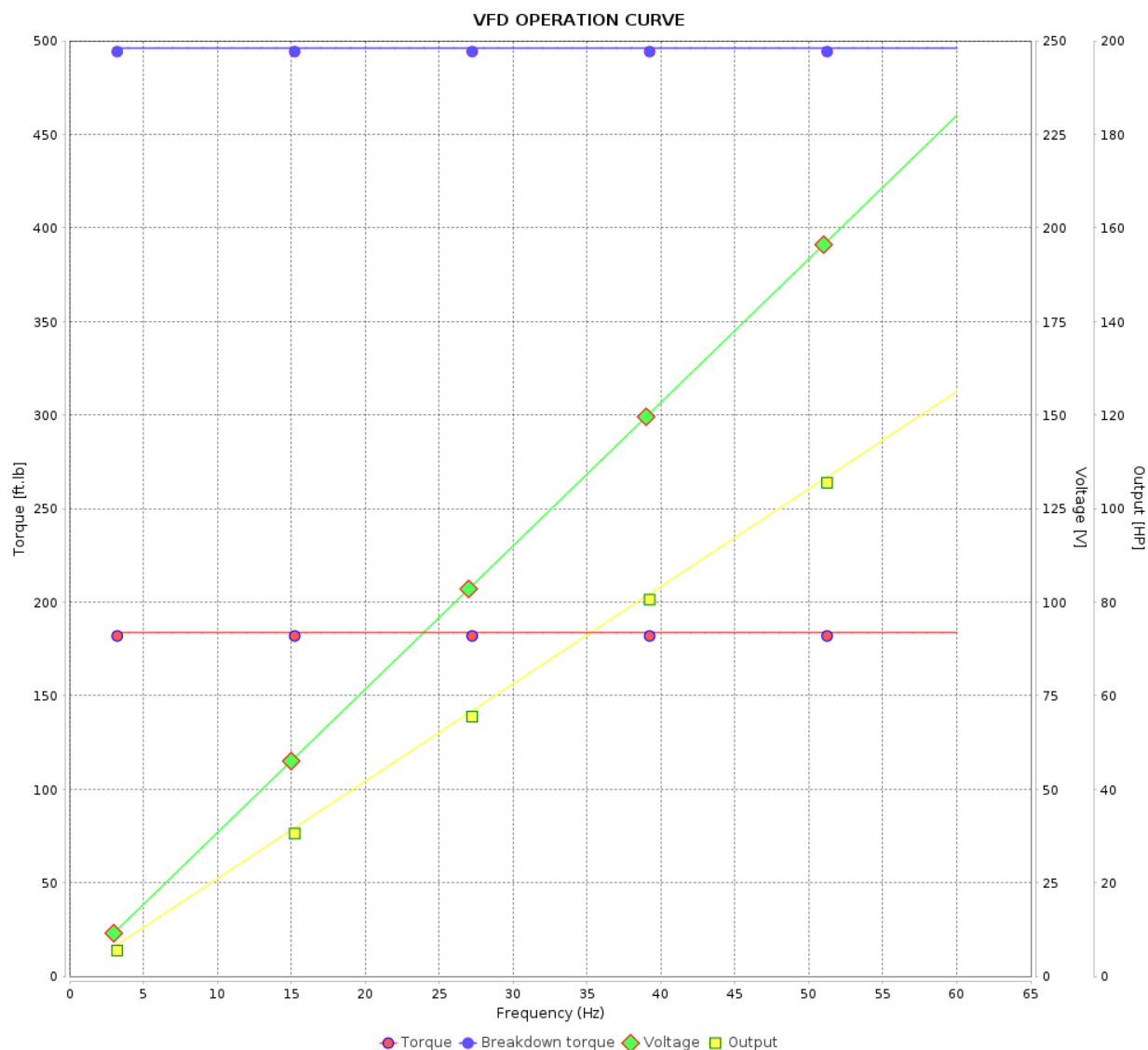


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11611958

Catalog # : HT125402NPW22

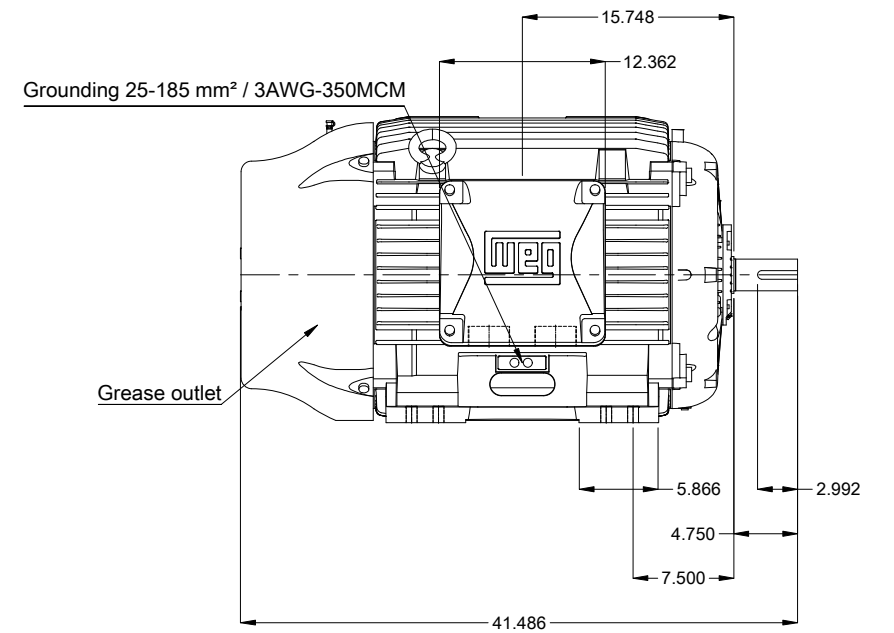


Performance : 230/460 V 60 Hz 2P

Rated current : 273/137 A
LRC : 7.0
Rated torque : 184 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 270 %
Rated speed : 3573 rpm

Moment of inertia (J) : 33.5 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				6 / 6	
Date					



DE Shaft End

0.625

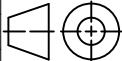
0.625

2.021

2.3750

2.3740

DUNC 3/4\"-10 WEG WPR-7339

125 HP 02 Poles 60 Hz										A
						Scale 1 : 14				
						HYBRISUSER				00
ECM		LOC		SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 444/5TS IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE							SHEET 1 / 1			