

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11355339
Catalog # : HT100406NPBBW22

Frame	: 444/5T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 242/121 A	Protection degree	: IP55
L. R. Amperes	: 1498/749 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 98.0/49.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1188 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.00 %	Starting method	: Direct On Line
Rated torque	: 442 ft.lb	Approx. weight ³	: 1577 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 87.3 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.0	Max. traction	: 2511 lb
Power Factor	0.68	0.78	0.82	Max. compression	: 4013 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)
5.2	4.2	3.8	2.7	1.8	1.3	0.9

	Drive end	Non drive end
Bearing type	: 6319 C3	: 6316 C3
Sealing	: WSeal	: WSeal
Lubrication interval	: 13000 h	: 16000 h
Lubricant amount	: 45 g	: 34 g
Lubricant type	: Mobil Polyrex EM	

Notes
USABLE @208V 268A SF 1.10 SFA 294A

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	07/08/2026			
		Page		Revision
		1 / 6		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

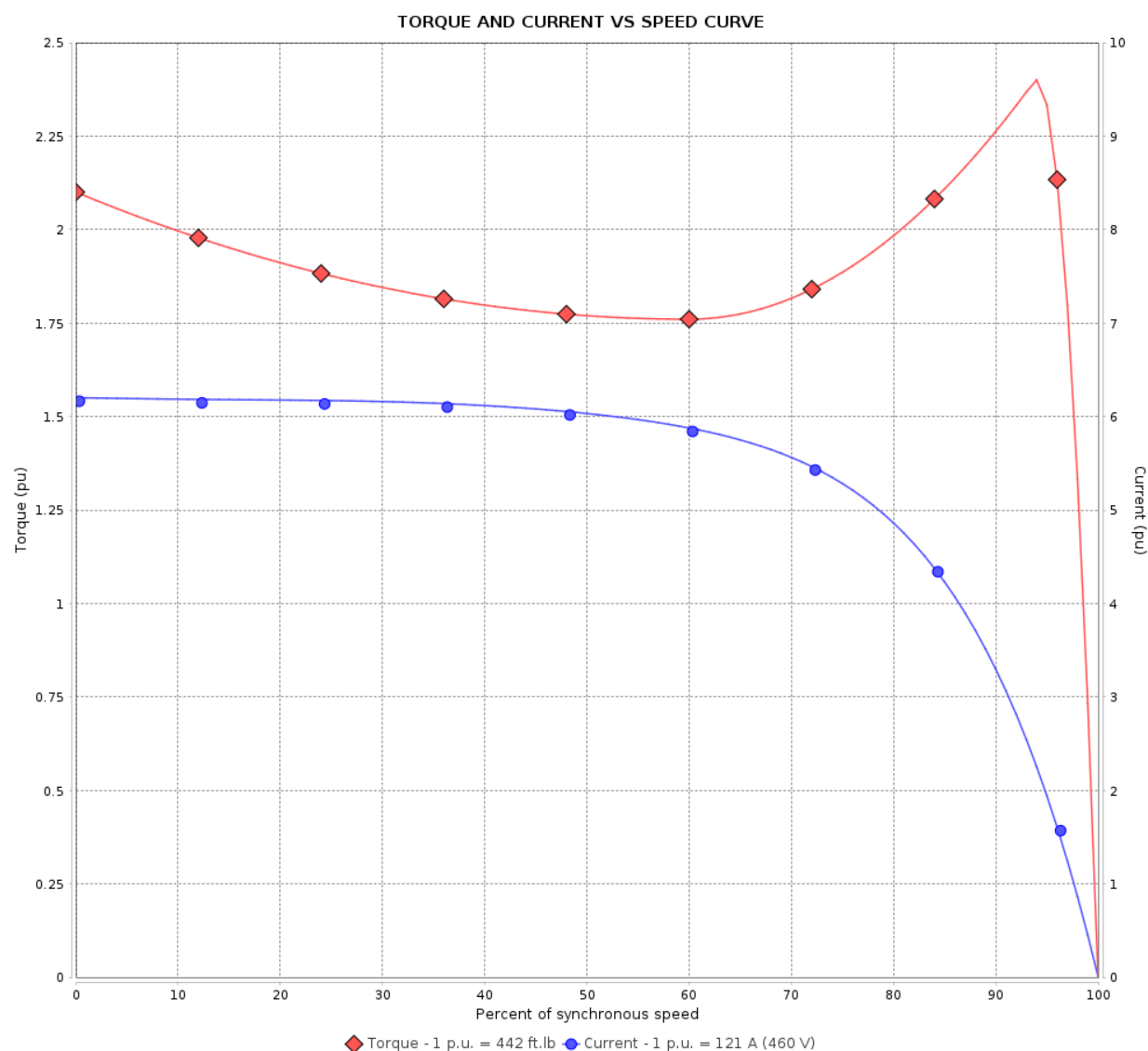


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355339

Catalog # : HT100406NPBBW22



Performance : 230/460 V 60 Hz 6P

Rated current : 242/121 A
LRC : 6.2
Rated torque : 442 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1188 rpm

Moment of inertia (J) : 87.3 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 36s (cold) 20s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6Revision		
Checked by				
Date	07/08/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

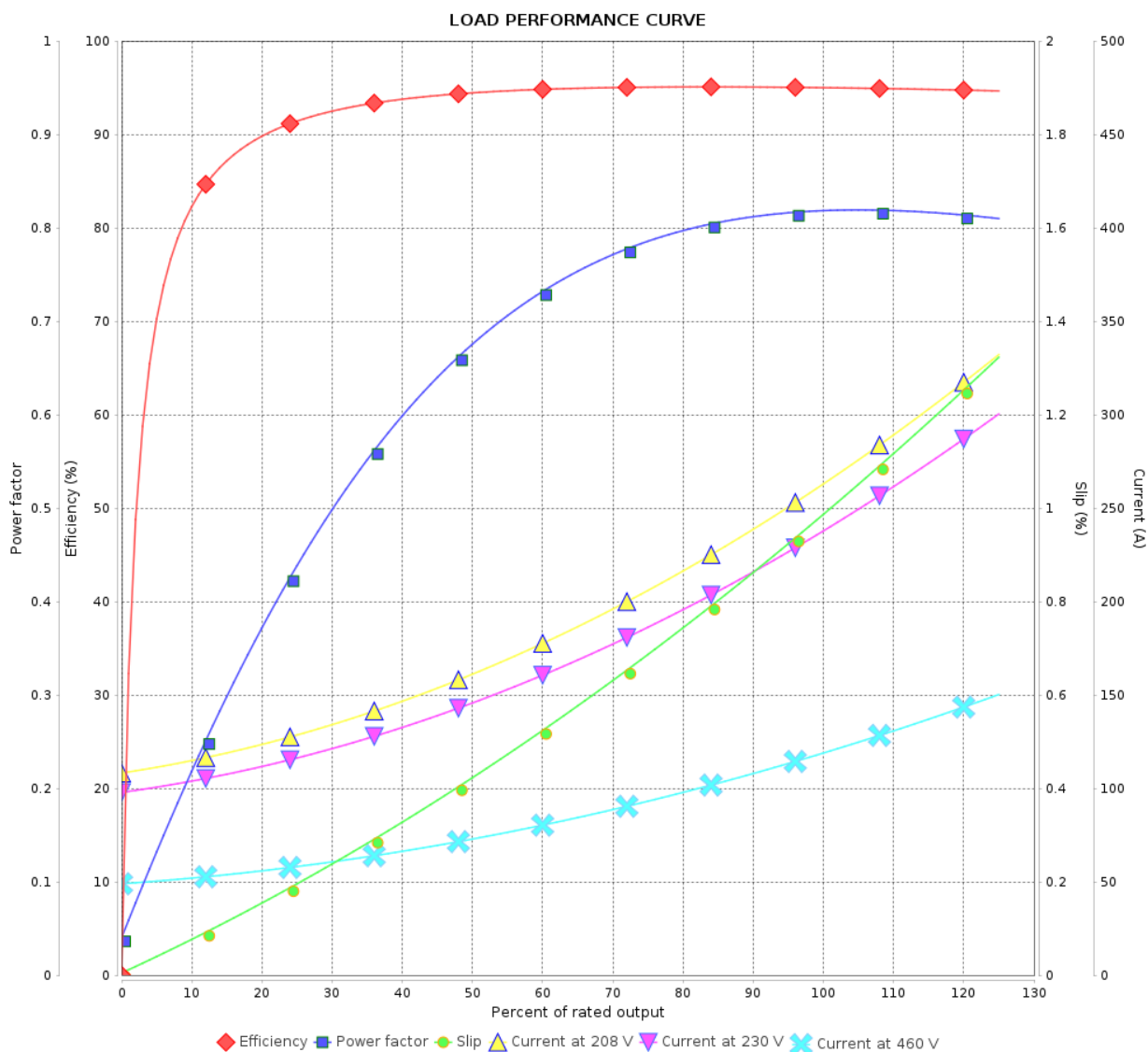


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355339

Catalog # : HT100406NPBBW22



Performance : 230/460 V 60 Hz 6P

Rated current : 242/121 A
 LRC : 6.2
 Rated torque : 442 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1188 rpm

Moment of inertia (J) : 87.3 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 3 / 6
Checked by				
Date				
	07/08/2026			Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355339

Catalog # : HT100406NPBBW22

Performance : 230/460 V 60 Hz 6P

Rated current : 242/121 A
LRC : 6.2
Rated torque : 442 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1188 rpm

Moment of inertia (J) : 87.3 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

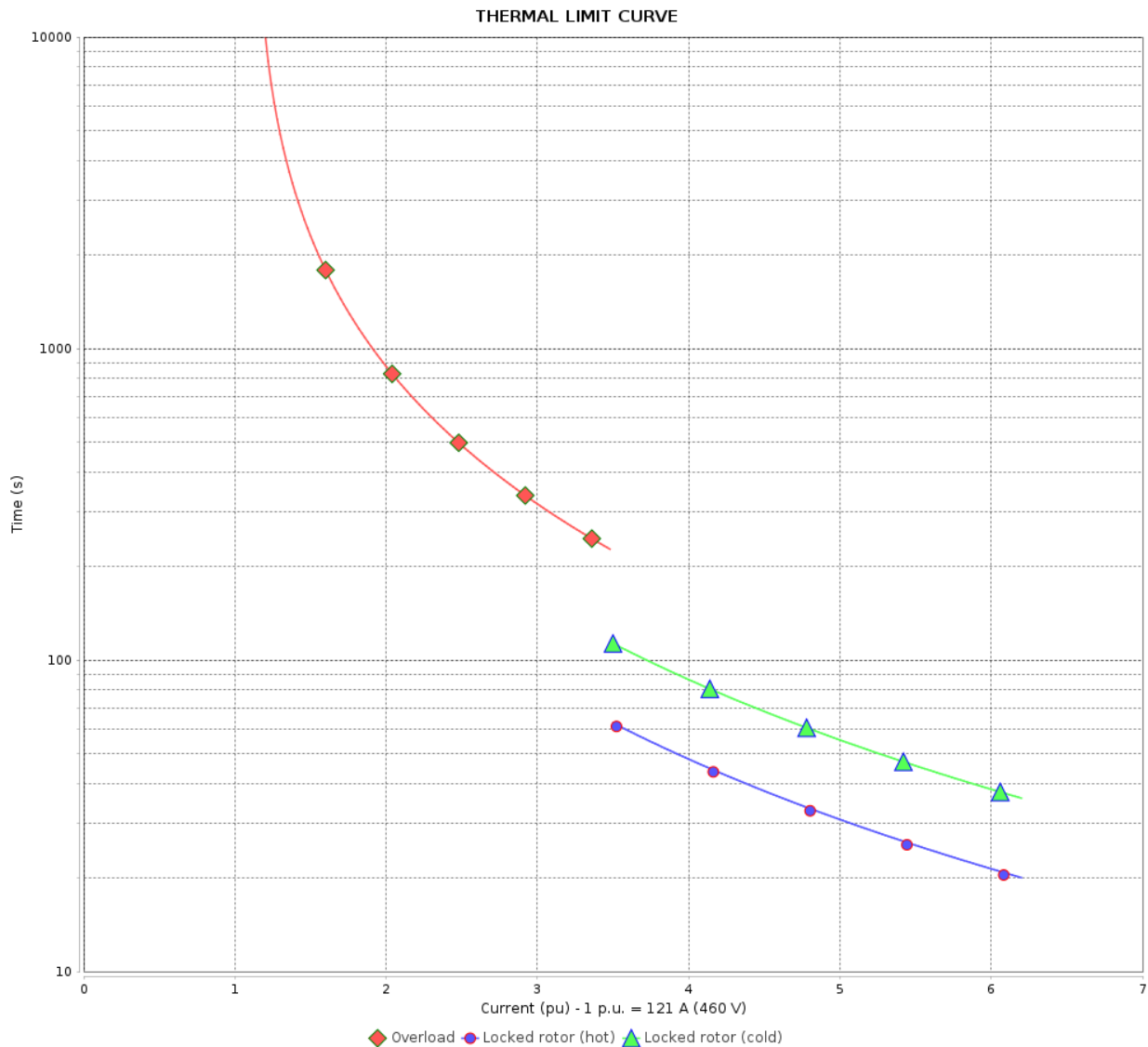
Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 4 / 6		Revision
Checked by					
Date	07/08/2026				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	07/08/2026				
				Page 5 / 6	Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

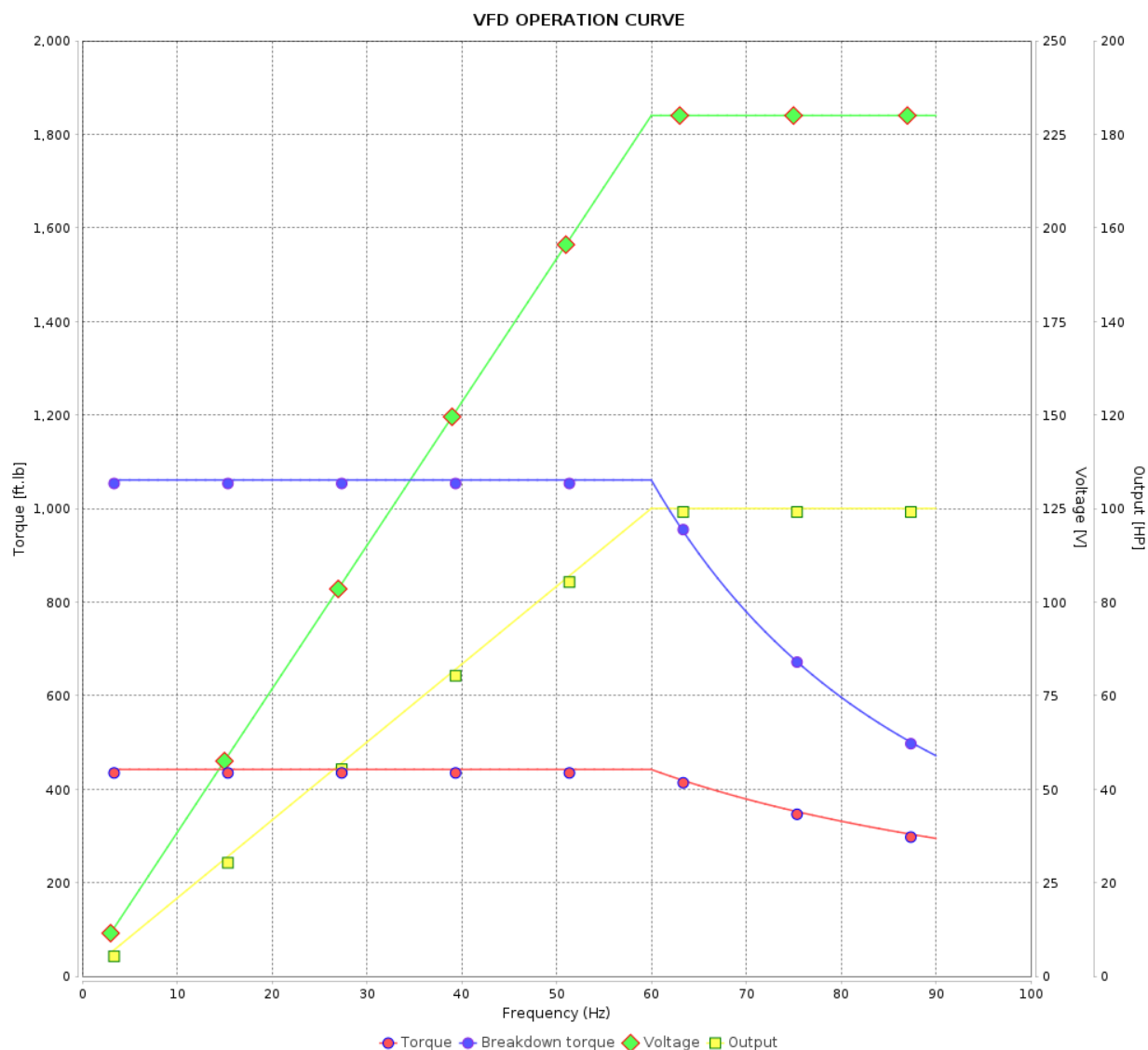


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355339

Catalog # : HT100406NPBBW22

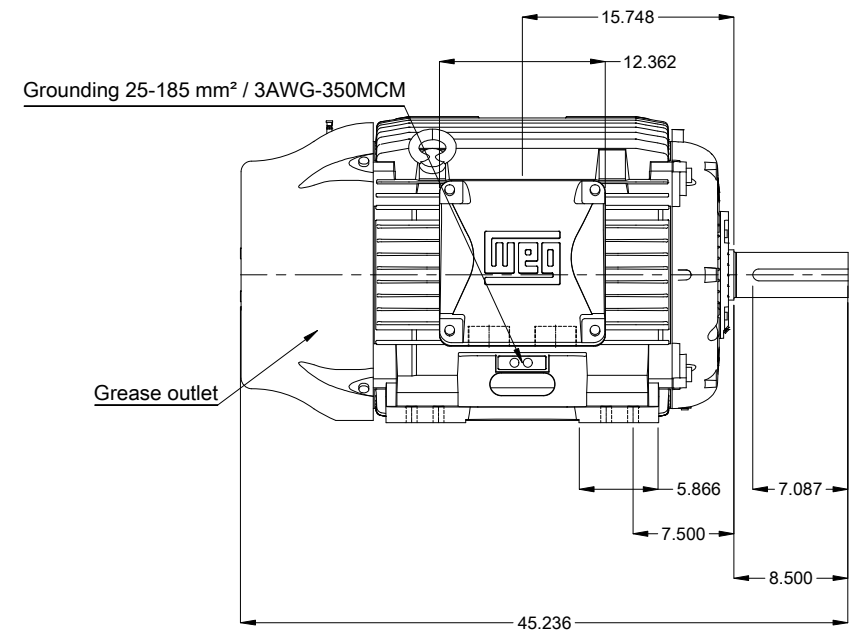


Performance : 230/460 V 60 Hz 6P

Rated current : 242/121 A
LRC : 6.2
Rated torque : 442 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1188 rpm

Moment of inertia (J) : 87.3 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 6 / 6
Checked by				
Date				
	07/08/2026			Revision



DE Shaft End

0.875

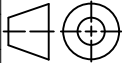
0.875

2.880

3.3750

3.3740

DUNC 3/4"-10 WEG WPR-7339

100 HP 06 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 444/5T IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		