

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12031971
Catalog # : CT125404NPRBW22

Frame	: 444/5TC	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 4	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	: 279/139 A	Protection degree	: IP55
L. R. Amperes	: 1811/905 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 92.0/46.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 368 ft.lb	Approx. weight ³	: 1590 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 57.2 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.0	95.4	95.4	Max. traction	: 2596 lb
Power Factor	0.00	0.74	0.82	0.85	Max. compression	: 2596 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)
4.5	3.4	3.0	2.4	1.4	0.9	0.6

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: NU-319 C3	: 6316 C3
Sealing	: Viton Lip Seal	: Viton Seal
Lubrication interval	: 5000 h	: 10000 h
Lubricant amount	: 45 g	: 34 g
Lubricant type	: Mobil Polyrex EM	

Notes
USABLE @208V 307A SF 1.00 SFA 307A

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		Page 1 / 6 Revision		
Checked by				
Date	17/07/2026			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

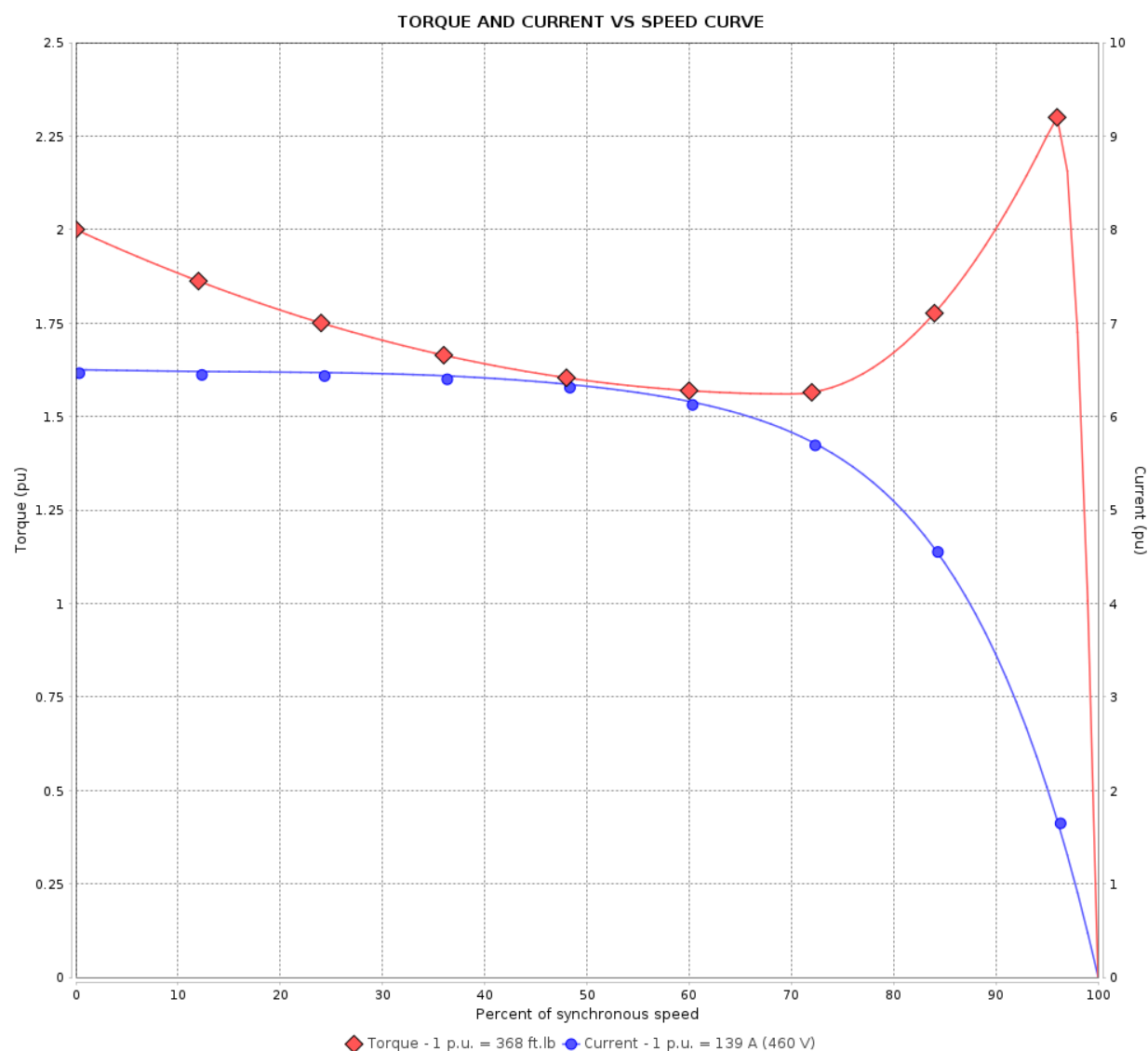


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12031971

Catalog # : CT125404NPRBW22



Performance : 230/460 V 60 Hz 4P

Rated current : 279/139 A
LRC : 6.5
Rated torque : 368 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1785 rpm

Moment of inertia (J) : 57.2 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Locked rotor time : 48s (cold) 27s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6 Revision		
Checked by				
Date	17/07/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

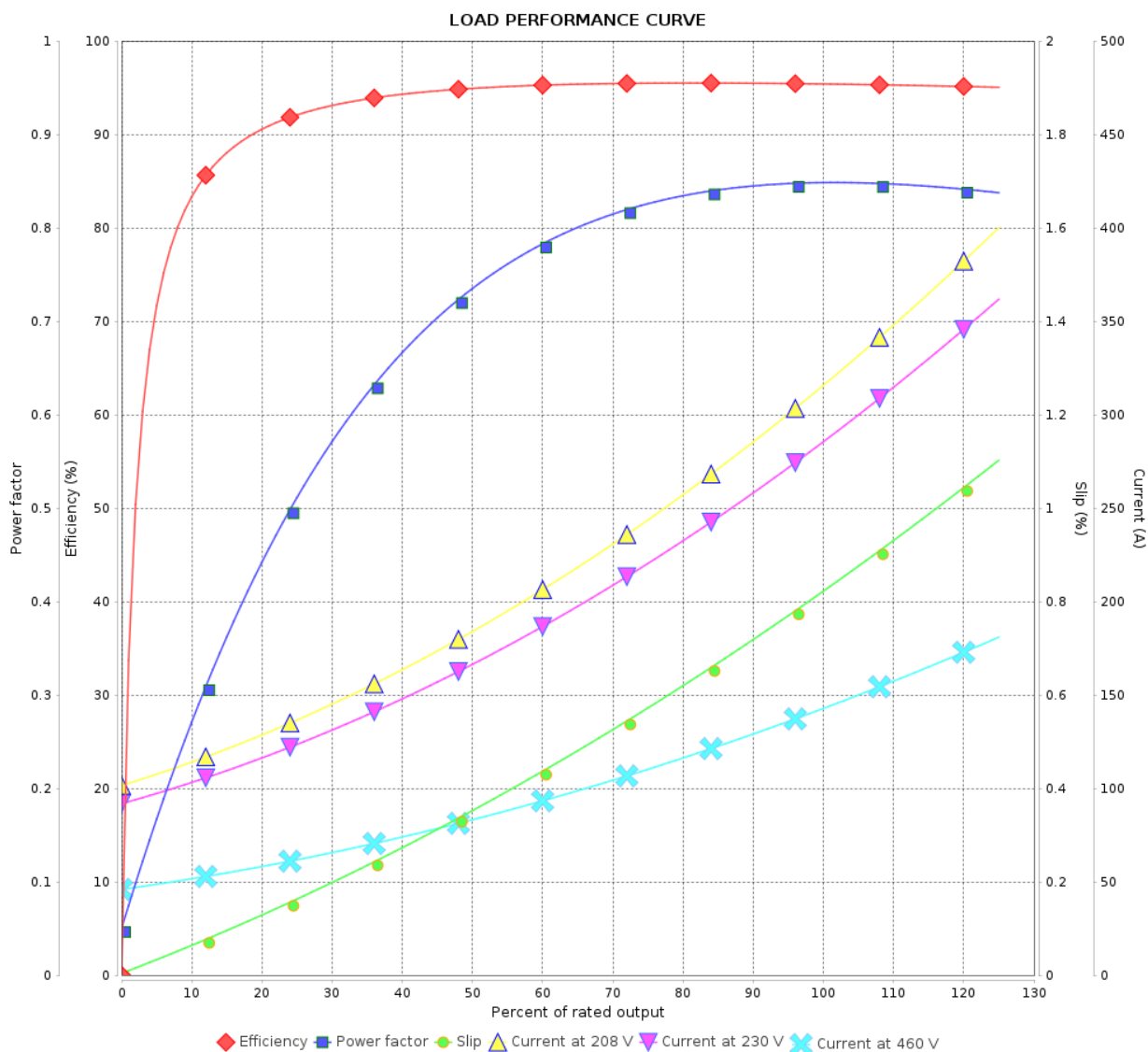


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12031971

Catalog # : CT125404NPRBW22



Performance : 230/460 V 60 Hz 4P

Rated current : 279/139 A
LRC : 6.5
Rated torque : 368 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1785 rpm

Moment of inertia (J) : 57.2 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	17/07/2026			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12031971

Catalog # : CT125404NPRBW22

Performance : 230/460 V 60 Hz 4P

Rated current : 279/139 A
LRC : 6.5
Rated torque : 368 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1785 rpm

Moment of inertia (J) : 57.2 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

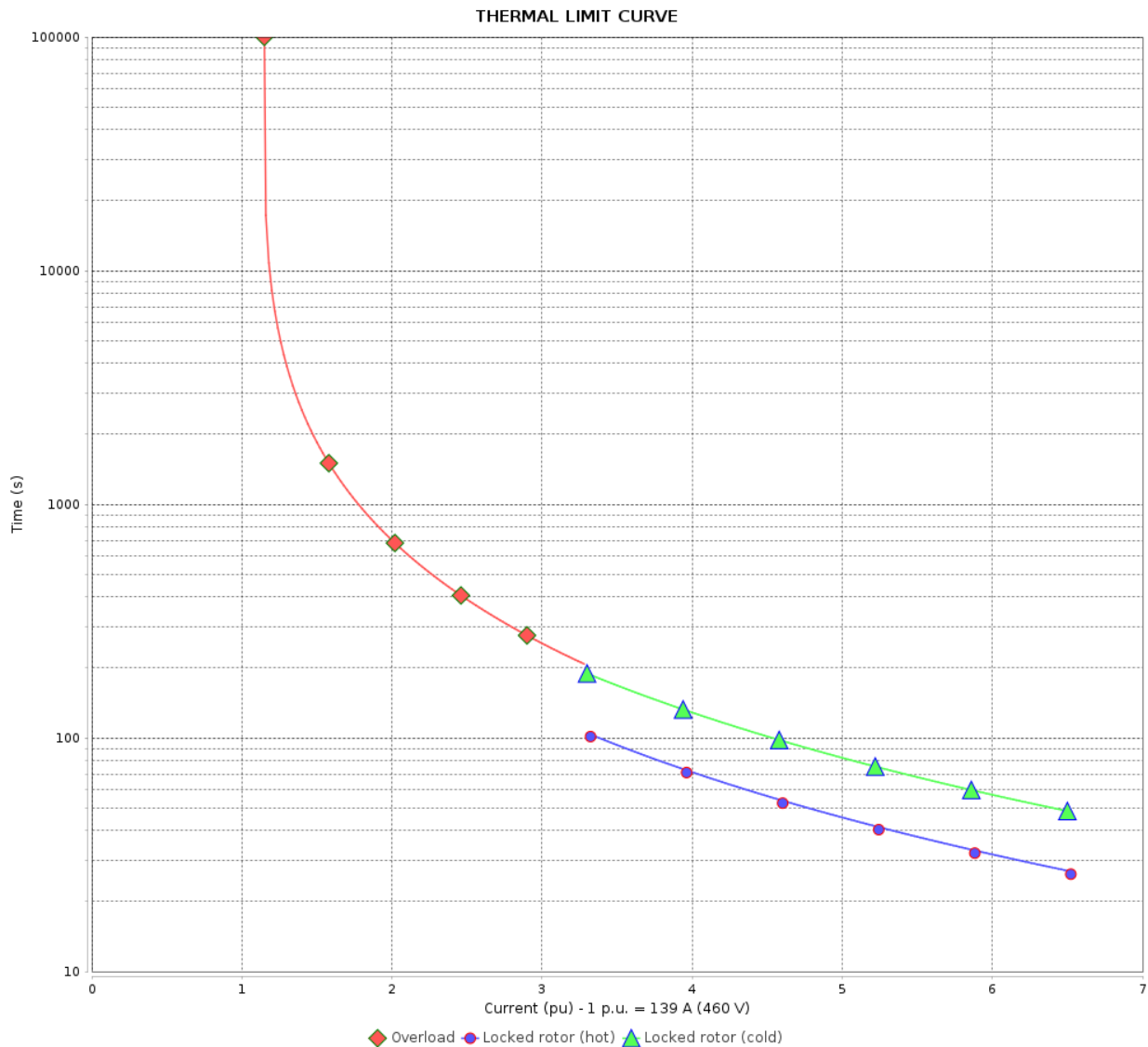
Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 4 / 6		Revision
Checked by					
Date	17/07/2026				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	17/07/2026				
				Page 5 / 6	Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

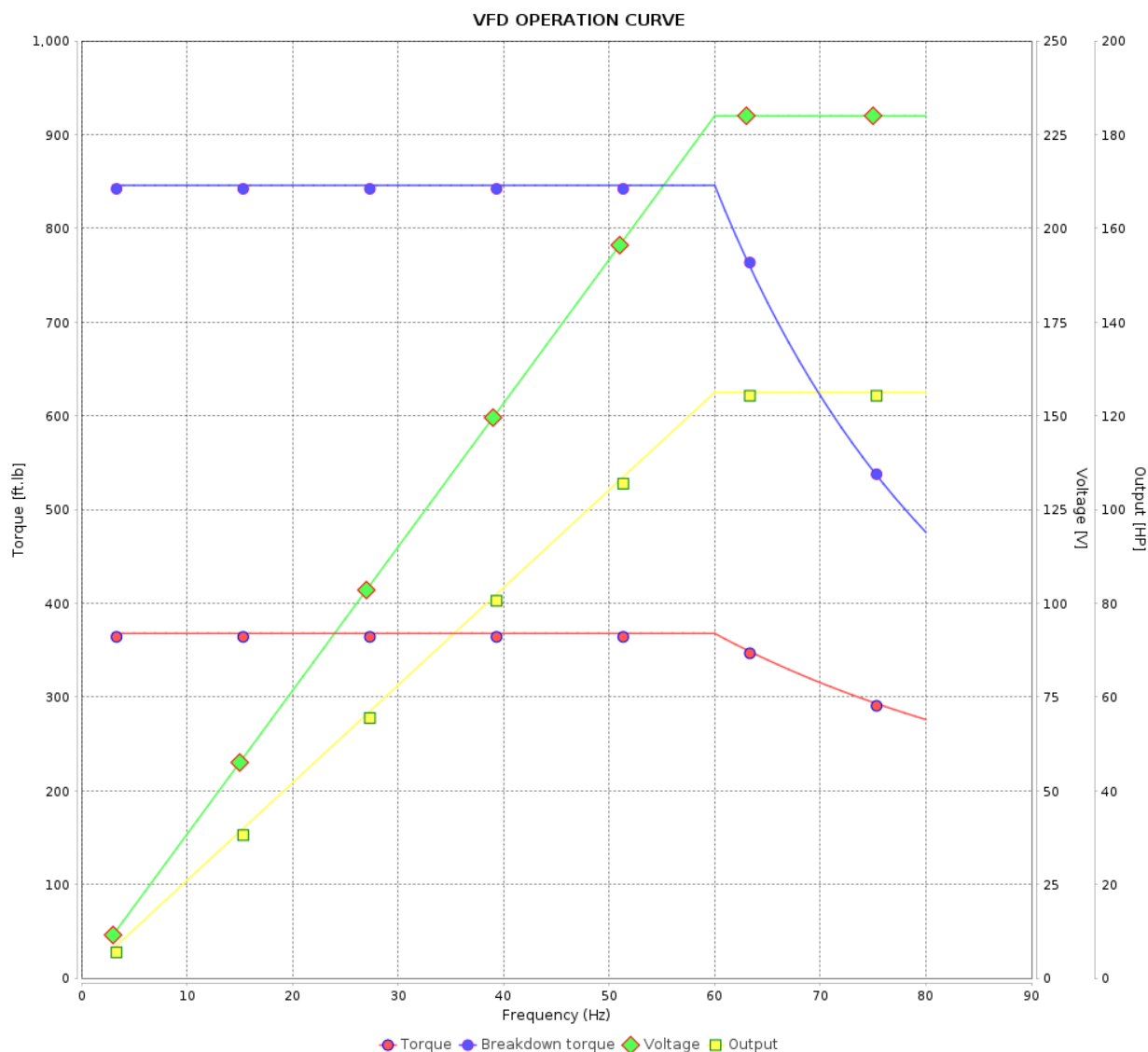


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12031971

Catalog # : CT125404NPRBW22



Performance : 230/460 V 60 Hz 4P

Rated current : 279/139 A
LRC : 6.5
Rated torque : 368 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1785 rpm

Moment of inertia (J) : 57.2 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 6 / 6Revision		
Checked by				
Date	17/07/2026			

