

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11535559
Catalog # : CT002504NPW22

Frame	: 143/5TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.29 A	Protection degree	: IP55
L. R. Amperes	: 19.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.3x(Code L)	Mounting	: F-1
No load current	: 1.38 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 6.00 ft.lb	Approx. weight ³	: 50.7 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1561 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.0	86.0	86.5	Max. traction	: 156 lb
Power Factor	0.55	0.68	0.76	Max. compression	: 209 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)
16.9	13.4	12.0	12.1	8.7	7.9	5.9

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6205 ZZ	: 6204 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: 00088	

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				
Date	06/07/2026			

Page 1 / 6
Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

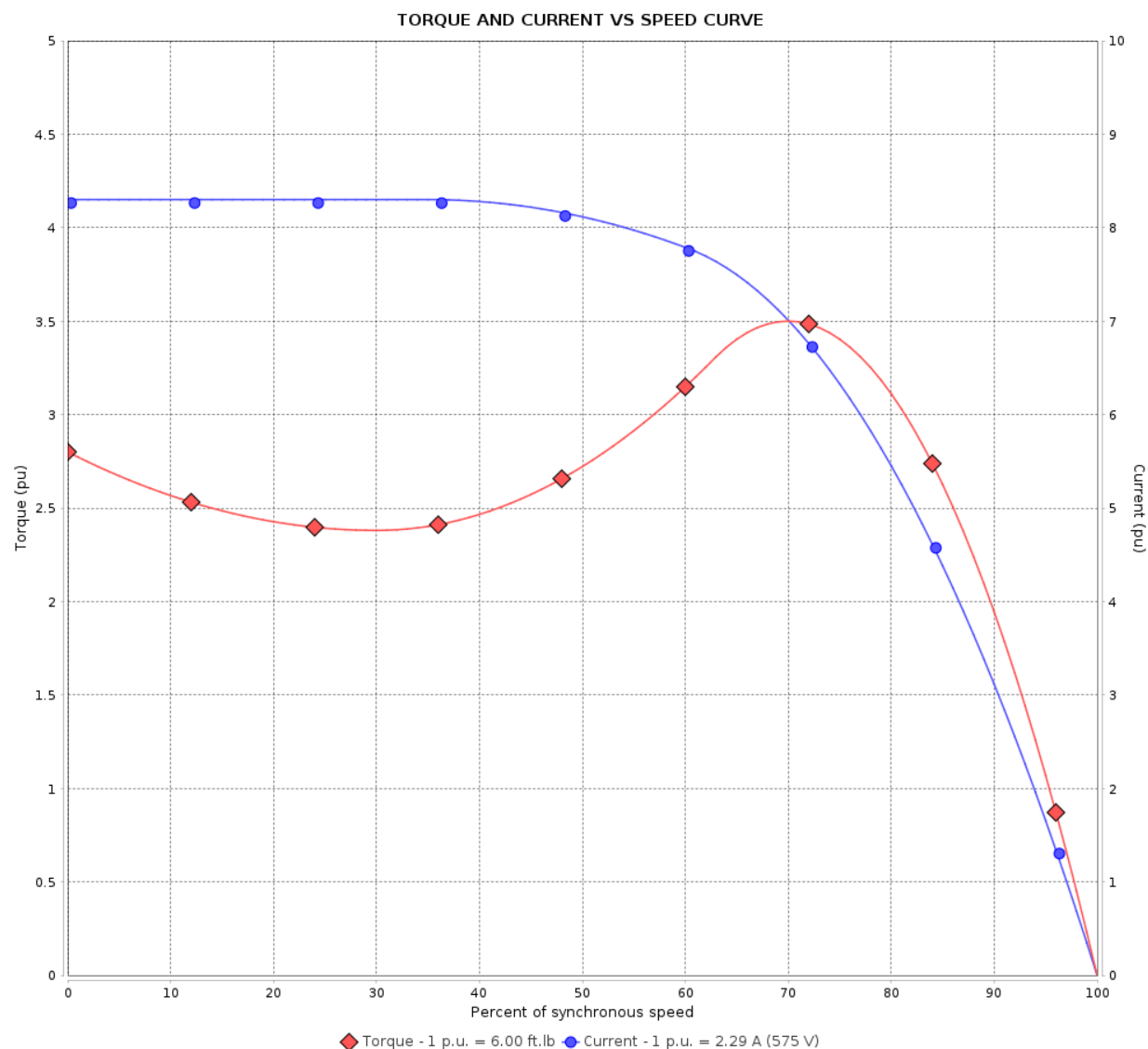


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11535559

Catalog # : CT002504NPW22



Performance : 575 V 60 Hz 4P

Rated current	: 2.29 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6Revision		
Checked by				
Date	06/07/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

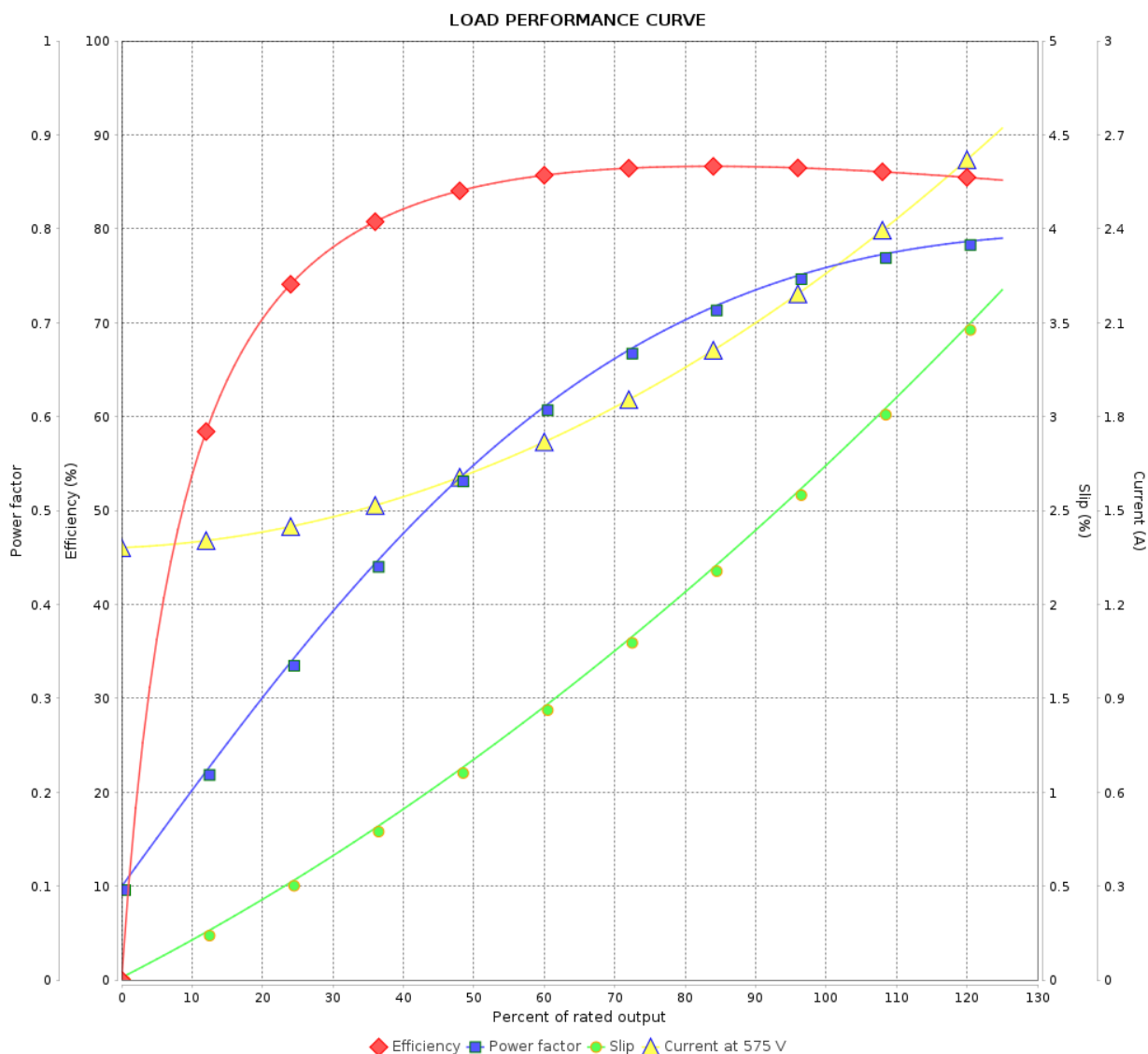


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11535559

Catalog # : CT002504NPW22



Performance : 575 V 60 Hz 4P

Rated current : 2.29 A
LRC : 8.3
Rated torque : 6.00 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 350 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.1561 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 Revision		
Checked by				
Date	06/07/2026			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



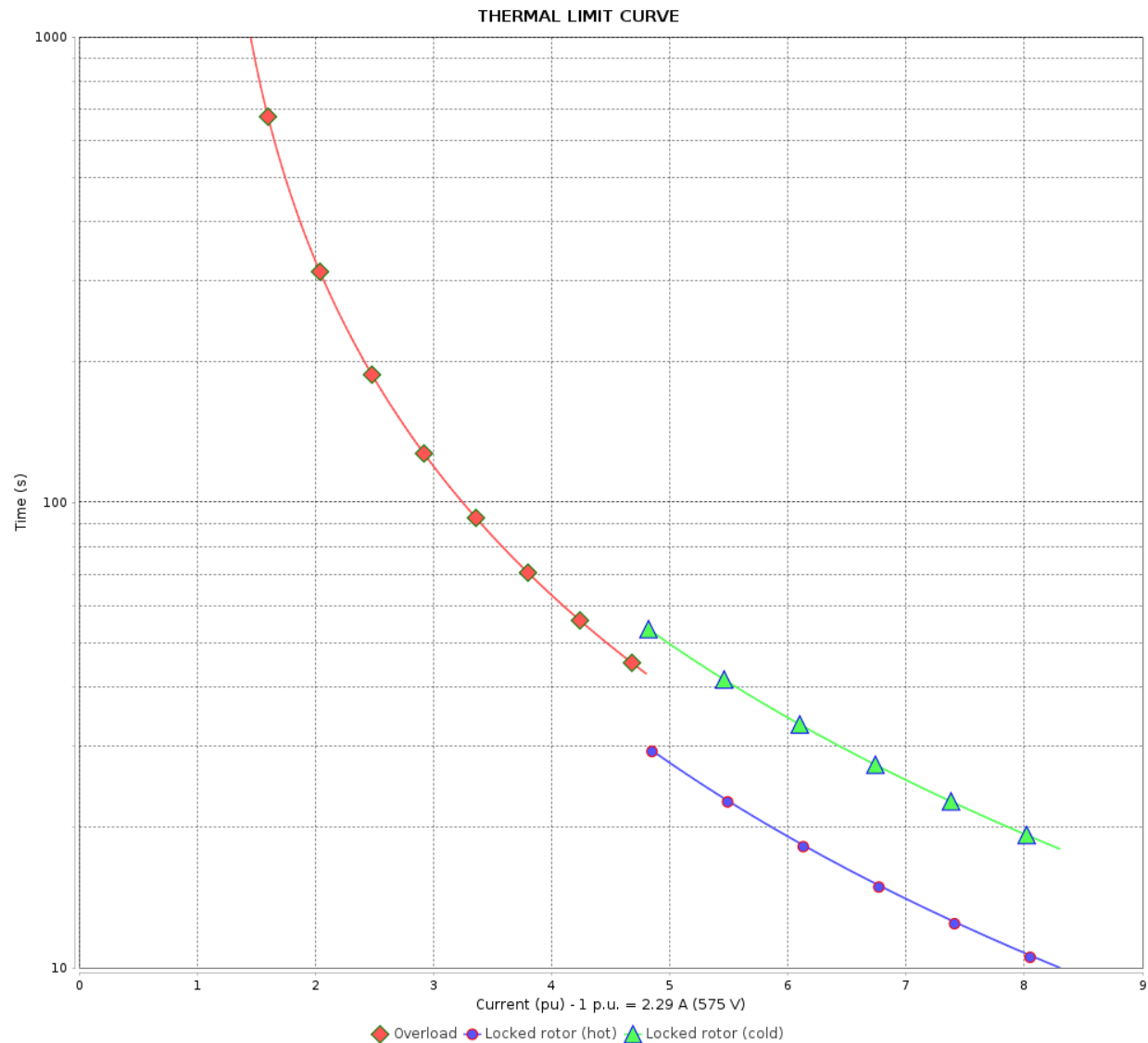
Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase		Product code : 11535559			
		Catalog # : CT002504NPW22			
Performance : 575 V 60 Hz 4P					
Rated current : 2.29 A		Moment of inertia (J) : 0.1561 sq.ft.lb			
LRC : 8.3		Duty cycle : Cont.(S1)			
Rated torque : 6.00 ft.lb		Insulation class : F			
Locked rotor torque : 280 %		Service factor : 1.25			
Breakdown torque : 350 %		Temperature rise : 80 K			
Rated speed : 1750 rpm		Design : B			
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page Revision	
Checked by					
Date	06/07/2026				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				5 / 6	
Date	06/07/2026				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

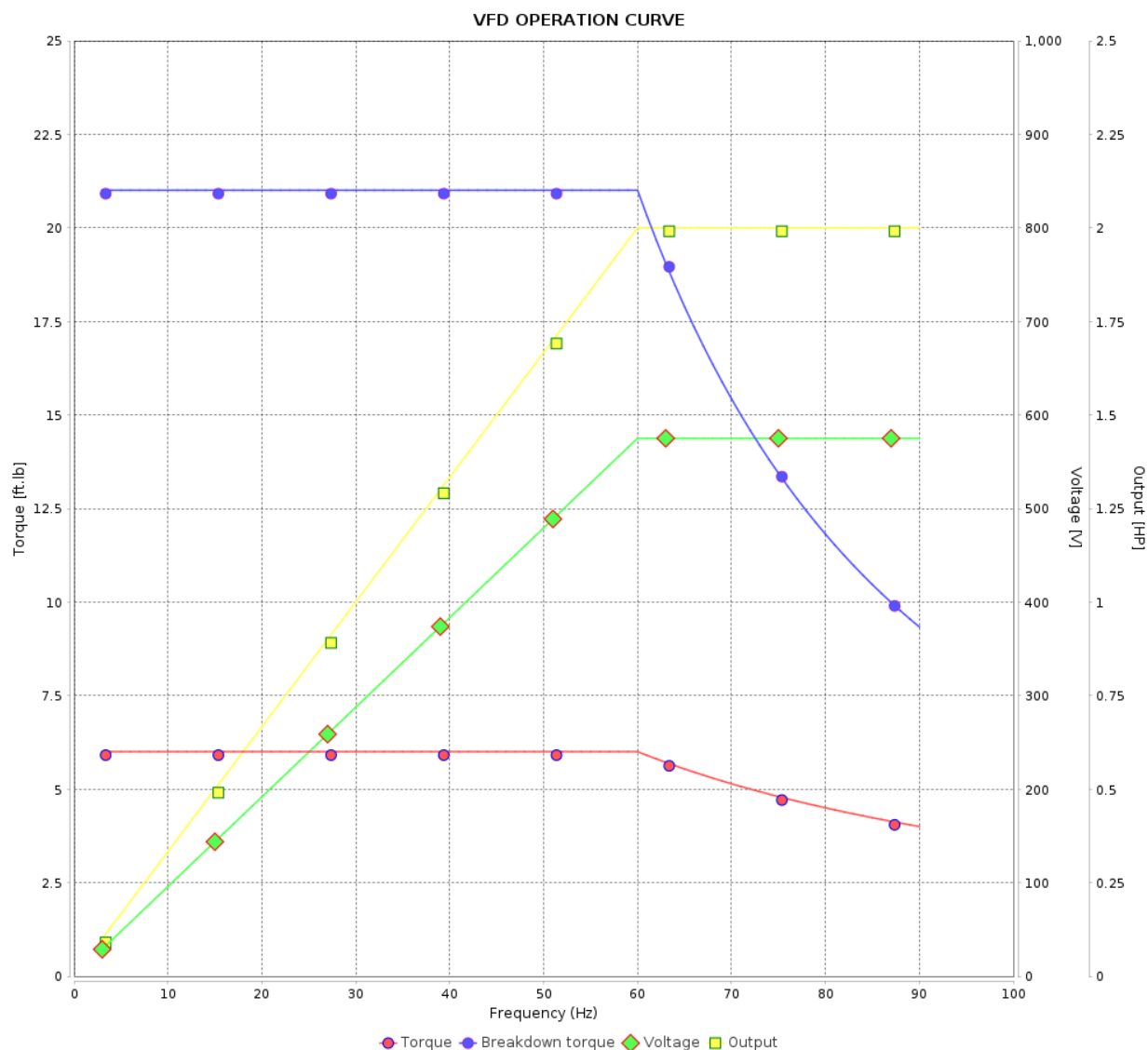


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11535559

Catalog # : CT002504NPW22



Performance : 575 V 60 Hz 4P

Rated current : 2.29 A
LRC : 8.3
Rated torque : 6.00 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 350 %
Rated speed : 1750 rpm

Moment of inertia (J) : 0.1561 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	Revision
Checked by				6 / 6	
Date					

