

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12445775
Catalog # : CT007406NPW22

Frame	: 254/6TC	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 7.5 HP (5.5 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	: 19.5/9.73 A	Protection degree	: IP55
L. R. Amperes	: 132/66.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.8x(Code H)	Mounting	: F-1
No load current	: 10.6/5.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1178 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 1.83 %	Starting method	: Direct On Line
Rated torque	: 33.4 ft.lb	Approx. weight ³	: 262 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 3.92 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.2	91.0	Max. traction	: 368 lb
Power Factor	0.60	0.71	0.78	Max. compression	: 639 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)
9.7	8.2	7.6	5.3	3.7	2.7	2.0

	Drive end	Non drive end
Bearing type	: 6309 C3	: 6209 C3
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 20000 h	: 20000 h
Lubricant amount	: 13 g	: 9 g
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 21.0A SF 1.15 SFA 24.1A

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	09/07/2026			
		Page		Revision
		1 / 6		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

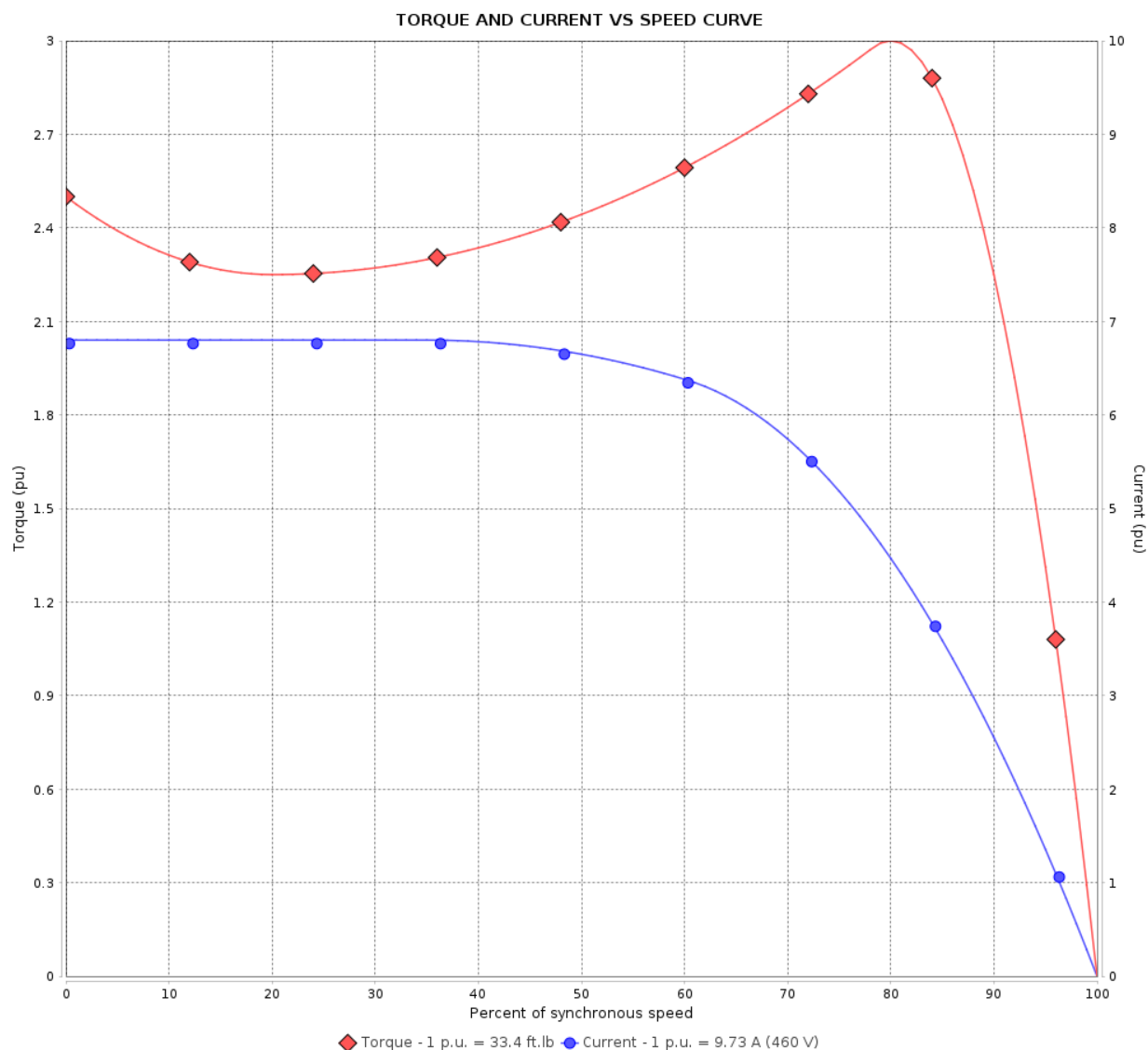


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445775

Catalog # : CT007406NPW22



Performance : 230/460 V 60 Hz 6P

Rated current : 19.5/9.73 A
LRC : 6.8
Rated torque : 33.4 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1178 rpm

Moment of inertia (J) : 3.92 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 54s (cold) 30s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6Revision		
Checked by				
Date	09/07/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

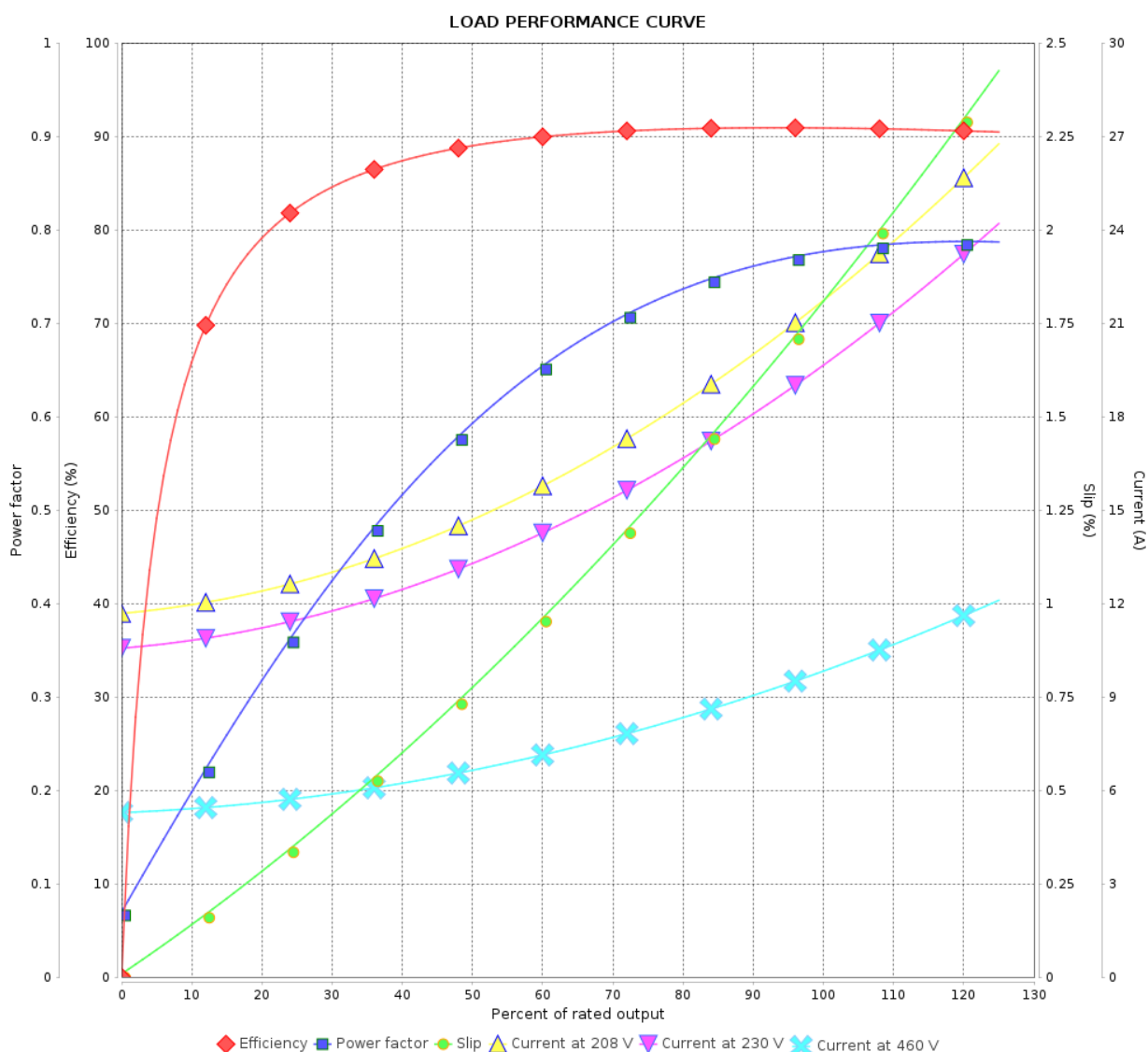


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445775

Catalog # : CT007406NPW22



Performance : 230/460 V 60 Hz 6P

Rated current : 19.5/9.73 A
LRC : 6.8
Rated torque : 33.4 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1178 rpm

Moment of inertia (J) : 3.92 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 / 6Revision		
Checked by				
Date	09/07/2026			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445775

Catalog # : CT007406NPW22

Performance : 230/460 V 60 Hz 6P

Rated current : 19.5/9.73 A
LRC : 6.8
Rated torque : 33.4 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1178 rpm

Moment of inertia (J) : 3.92 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

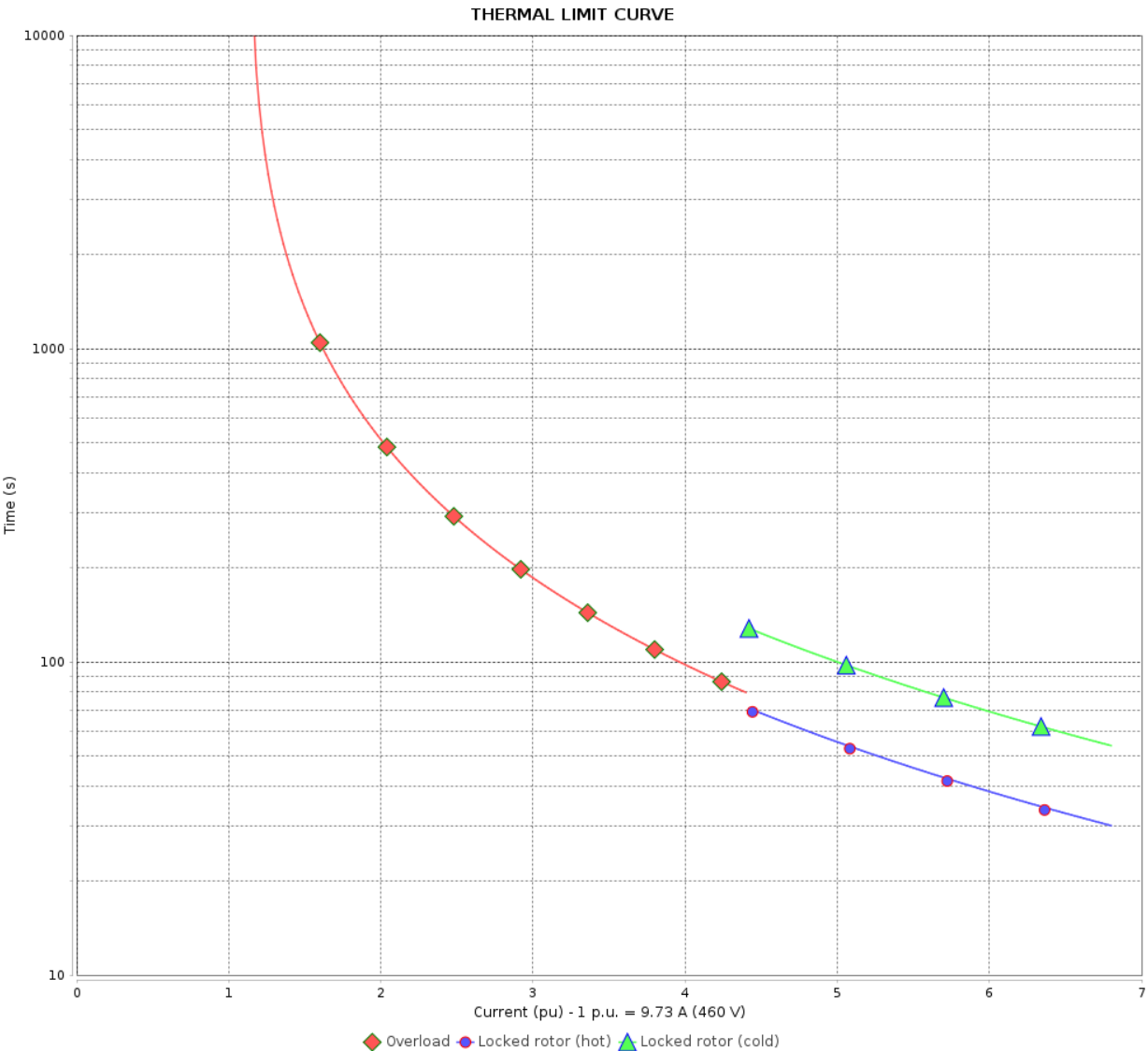
Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 4 / 6		Revision
Checked by					
Date	09/07/2026				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.	Changes Summary		Performed	Checked	Date
Performed by					Page 5 / 6
Checked by					
Date	09/07/2026				
		Revision			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

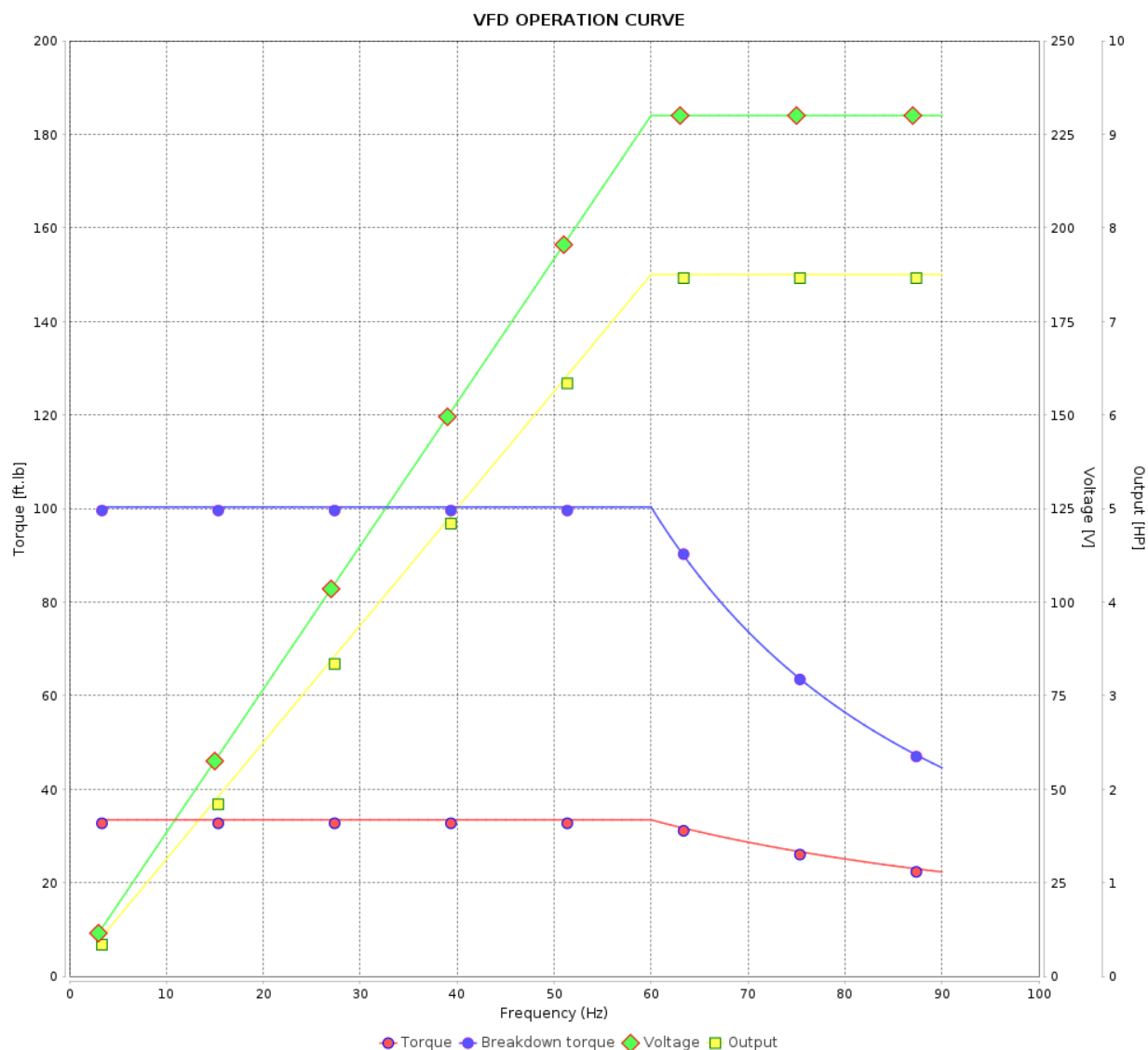


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445775

Catalog # : CT007406NPW22



Performance : 230/460 V 60 Hz 6P

Rated current : 19.5/9.73 A
LRC : 6.8
Rated torque : 33.4 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1178 rpm

Moment of inertia (J) : 3.92 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					

