

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446717

Frame	: 213/5T	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 7.01 A	Protection degree	: IP55
L. R. Amperes	: 50.5 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 2.32 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 11.2 ft.lb	Approx. weight ³	: 139 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.4665 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	87.5	89.5	89.5	Max. traction	: 117 lb
Power Factor	0.75	0.84	0.88	Max. compression	: 260 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)
11.3	9.2	8.5	5.8	3.6	2.3	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 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		Page 1 / 5 Revision		
Checked by				
Date	27/07/2026			

TORQUE AND CURRENT VS SPEED CURVE

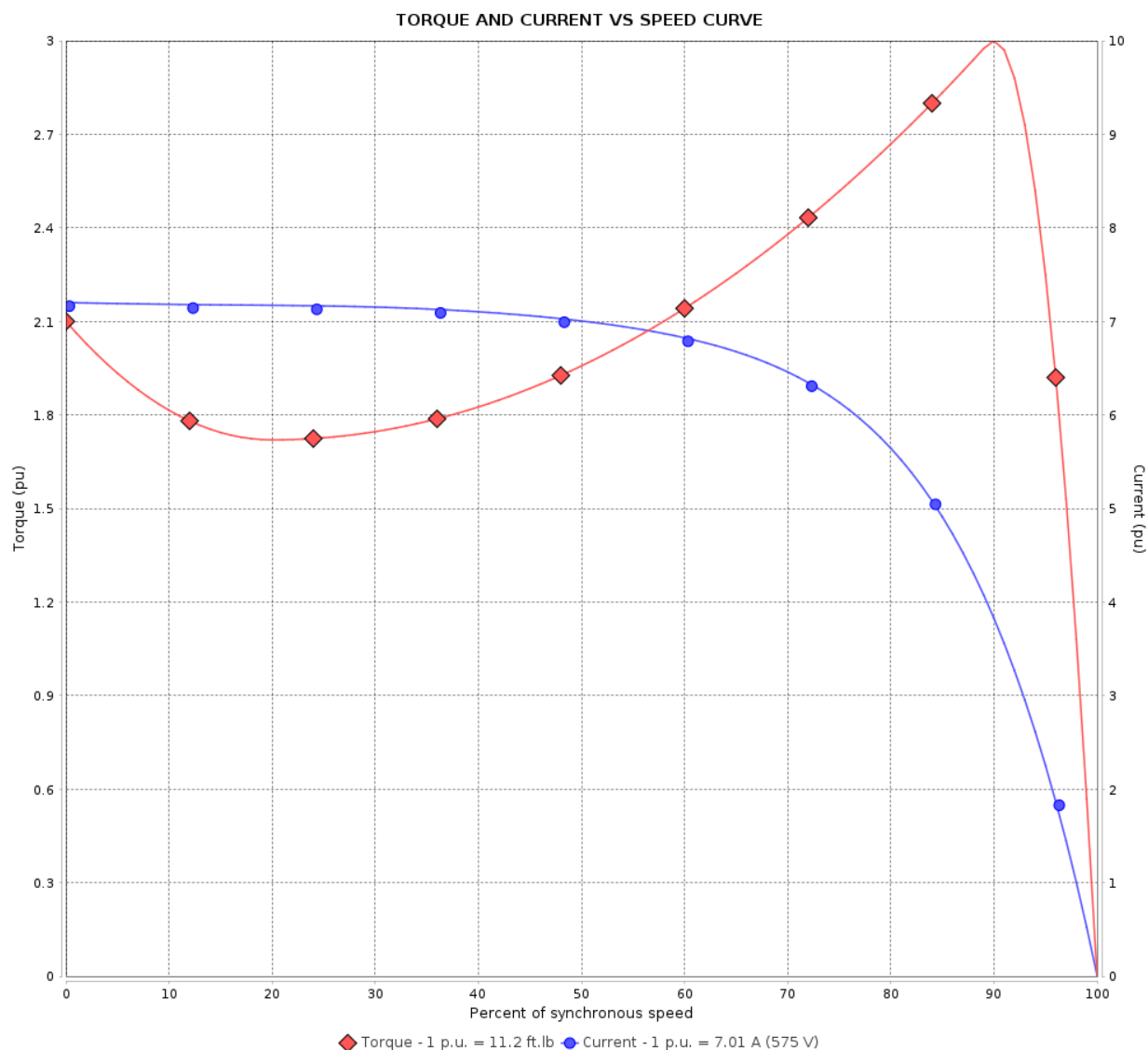
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446717



Performance : 575 V 60 Hz 2P

Rated current	: 7.01 A	Moment of inertia (J)	: 0.4665 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Locked rotor time : 32s (cold) 18s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 5Revision		
Checked by				
Date	27/07/2026			

LOAD PERFORMANCE CURVE

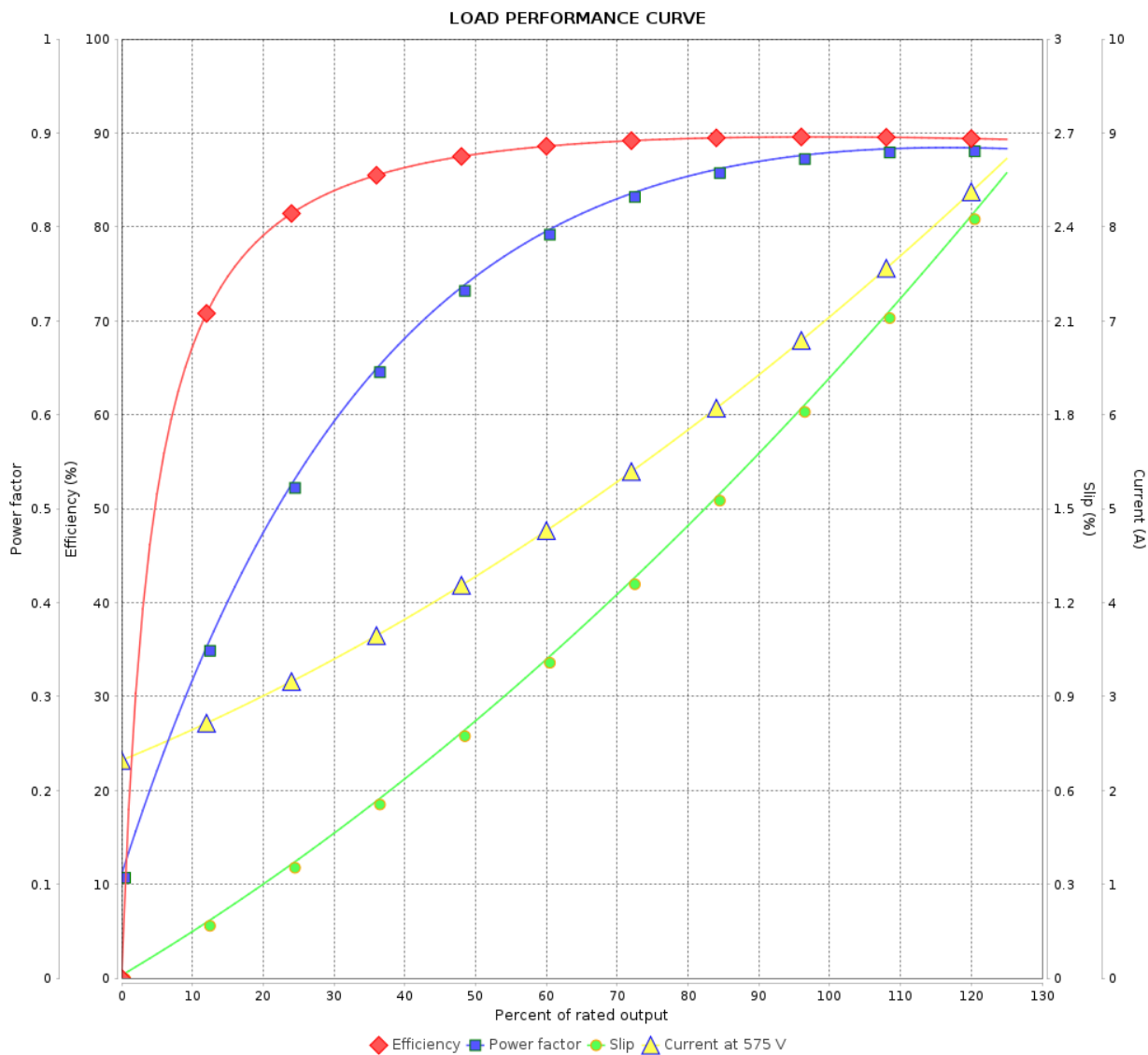
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446717



Performance : 575 V 60 Hz 2P

Rated current : 7.01 A
LRC : 7.2
Rated torque : 11.2 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 300 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.4665 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 / 5Revision		
Checked by				
Date	27/07/2026			

THERMAL LIMIT CURVE

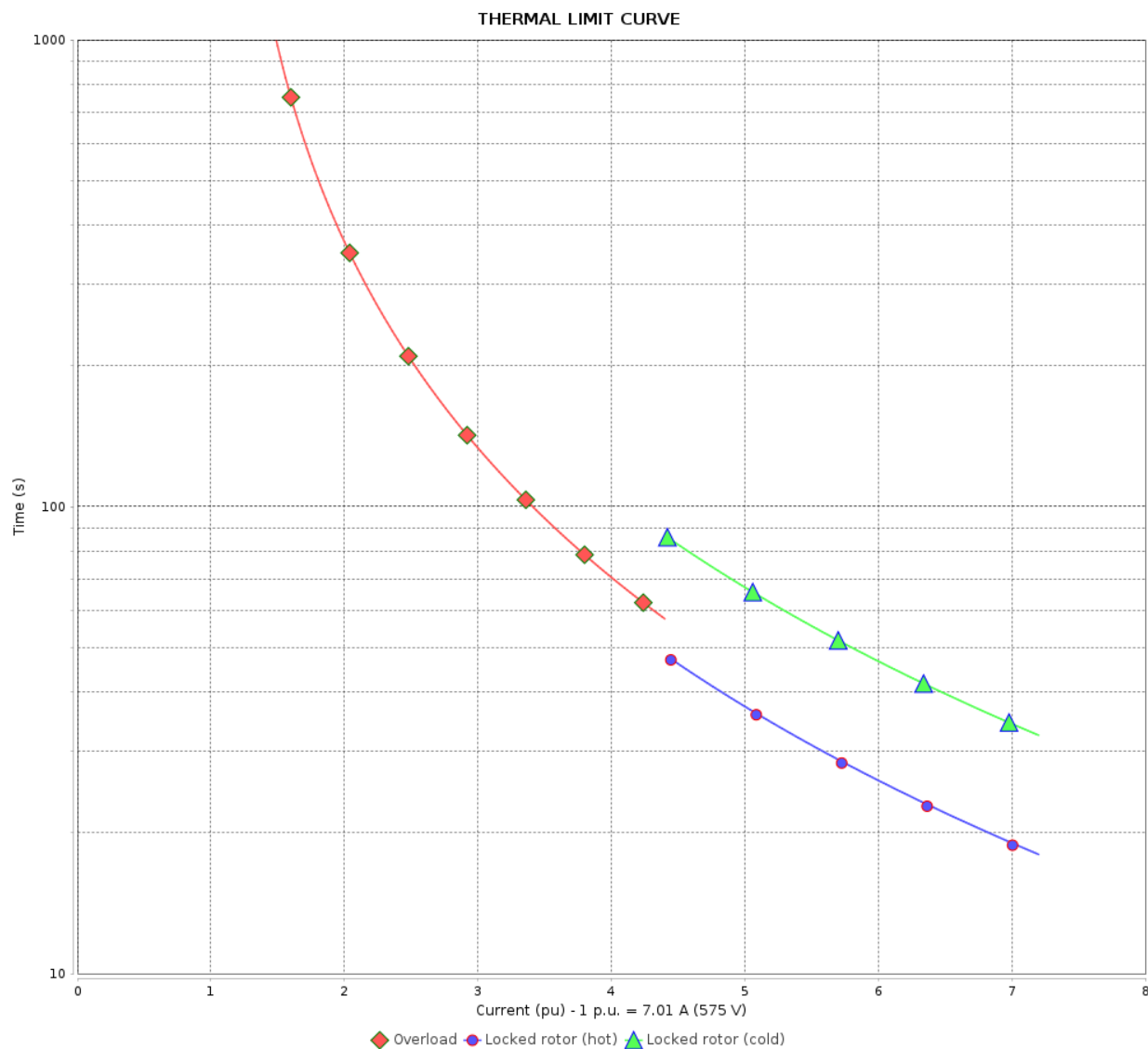
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446717



Performance : 575 V 60 Hz 2P

Rated current	: 7.01 A	Moment of inertia (J)	: 0.4665 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 4 / 5Revision		
Checked by				
Date	27/07/2026			

VFD OPERATION CURVE

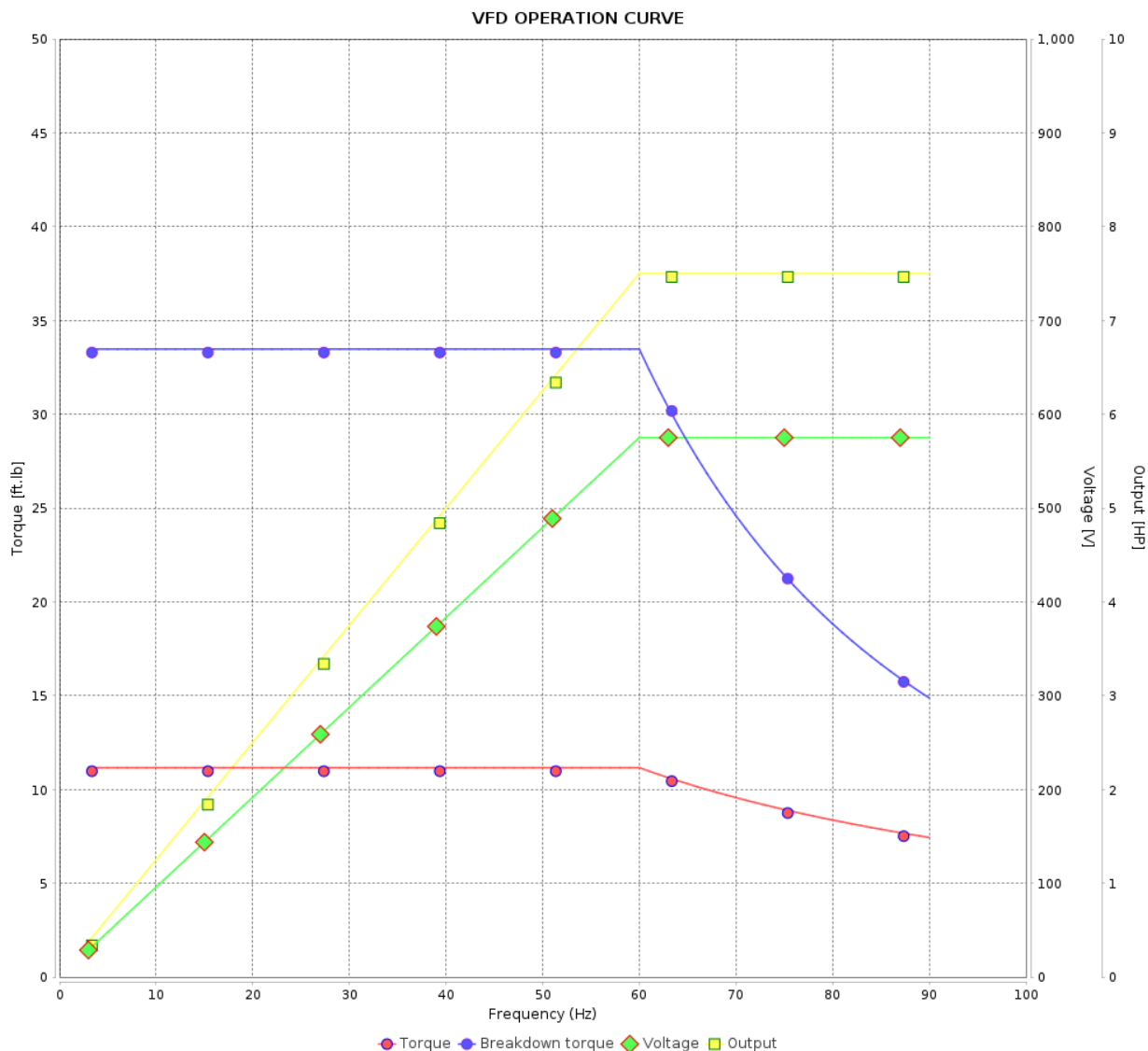
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446717



Performance : 575 V 60 Hz 2P

Rated current : 7.01 A
LRC : 7.2
Rated torque : 11.2 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 300 %
Rated speed : 3530 rpm

Moment of inertia (J) : 0.4665 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 5 / 5	Revision
Checked by					
Date	27/07/2026				

