## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Efficiency 1 Phase			Three- Product code :		14407462		
		1 1140	0			Catalog # :	01512XT3H	284T	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J)		: 284T : 15 HP (11 kW) : 6 : 60 Hz : 575 V : 14.0 A : 101 A : 7.2x(Code H) : 5.60 A : 1180 rpm : 1.67 % : 66.8 ft.lb : 250 % : 260 % : F : 1.15 : 7.07 sq.ft.lb			Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation <sup>1</sup> Noise level <sup>2</sup> Starting method Approx. weight <sup>3</sup>		: 80 K : Cont.(S1) : -20°C to + : 1000 m.a. : IP55 : IC411 - TE : F-1 : Both (CW : 59.0 dB(A	: 45s (cold) 25s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 59.0 dB(A) : Direct On Line	
Design		: B							
Output Efficiency (%) Power Factor	25% 90.8 0.47	50% 91.0 0.74	75% 91.7 0.83	100% 91.7 0.86	Max. tra	tion loads action mpression	: 525 lb : 989 lb		
Bearing type Sealing Lubrication inter	val	:	Oil	11 C3 Seal 000 h		6211 C3 Lip Seal 20000 h			
Lubricant amour Lubricant type Notes				8 g	bil Polyre	11 g			
Lubricant amour Lubricant type Notes This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate m	laces and o ed. notor from 1m and wit weight sub ocess.	the shaft e th toleranc	previous or end. e of +3dB(A	8 g Mo	These	11 g			
Lubricant amour Lubricant type Notes This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate m	laces and o ed. notor from 1m and wit weight sub ocess.	the shaft e th toleranc ject to cha	previous or end. e of +3dB(A	8 g Mo	These a power s	11 g x EM			
Lubricant amour Lubricant type Notes This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	laces and o ed. notor from 1m and wit weight sub ocess.	the shaft e th toleranc ject to cha	previous or end. e of +3dB(A inges after	8 g Mo	These a power s	11 g x EM	e tolerances stipu	lated in NEMA	

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		Thermal protection			
ID	Application	Туре	Quantity		<b>Femperature</b>
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
Rev.	Chanc	les Summary	Performed	Checked	Date
		,			2 4.0
erformed by					
Checked by				Page	Revision

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### TORQUE AND CURRENT VS SPEED CURVE

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Customer

Product line	: NEMA Premium Efficiency Three-		hree-	Product code :	14407462	
	Pha	Phase		Catalog # :	01512XT3H	284T
3		TORQUE AND CURRE	NT VS SPEE	D CURVE		
2.7						9
2.4	•	<b>→</b>				8
2.1	•	•				7
2.1						
1.8						6
(nd) an 1.5 E						Current (pu)
Torg						D L L
1.2					•	4
0.9						3
0.6						2
0.3						1
0	10 20	30 40 5 Percent of sync		50 70	80 90	100
		◆Torque - 1 p.u. = 66.8 ft.lb ◆				
erformance		V 60 Hz 6P				
ated current	: 14.0		loment of	inertia (J)	: 7.07 sq.ft.lb	
RC ated torque	: 7.2 : 66.8	D	uty cycle sulation c		: Cont.(S1) : F	
ocked rotor torque	e : 250	% S	ervice fact	tor	: 1.15	
reakdown torque ated speed	: 260 : 1180		emperatur esign	e rise	: 80 K : B	
ocked rotor time		(cold) 25s (hot)				
Rev.	C	hanges Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				3/7	

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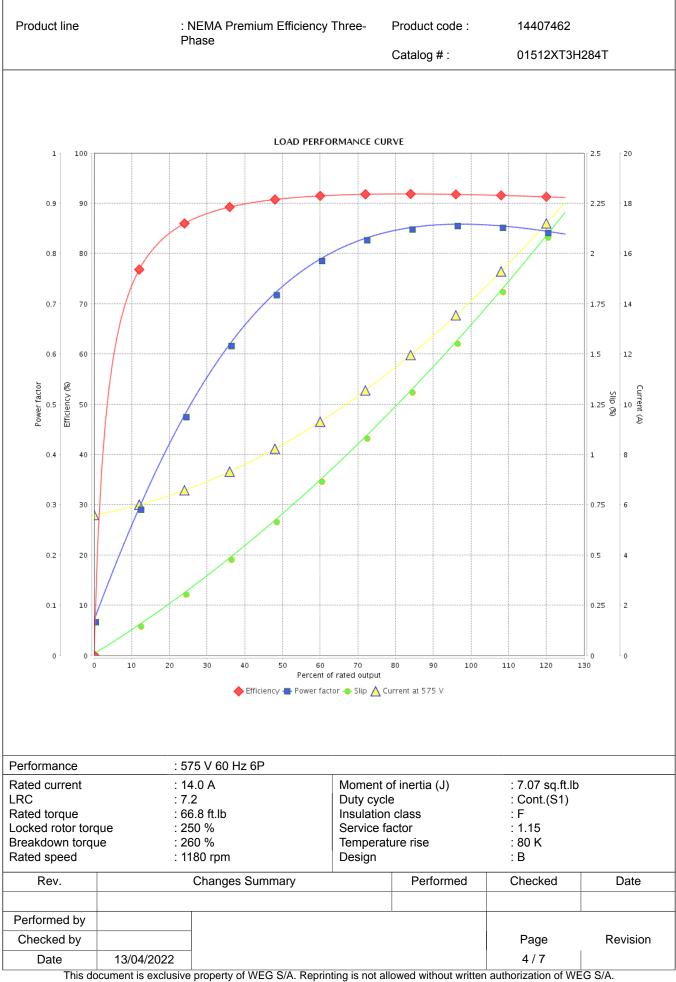
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



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# THERMAL LIMIT CURVE

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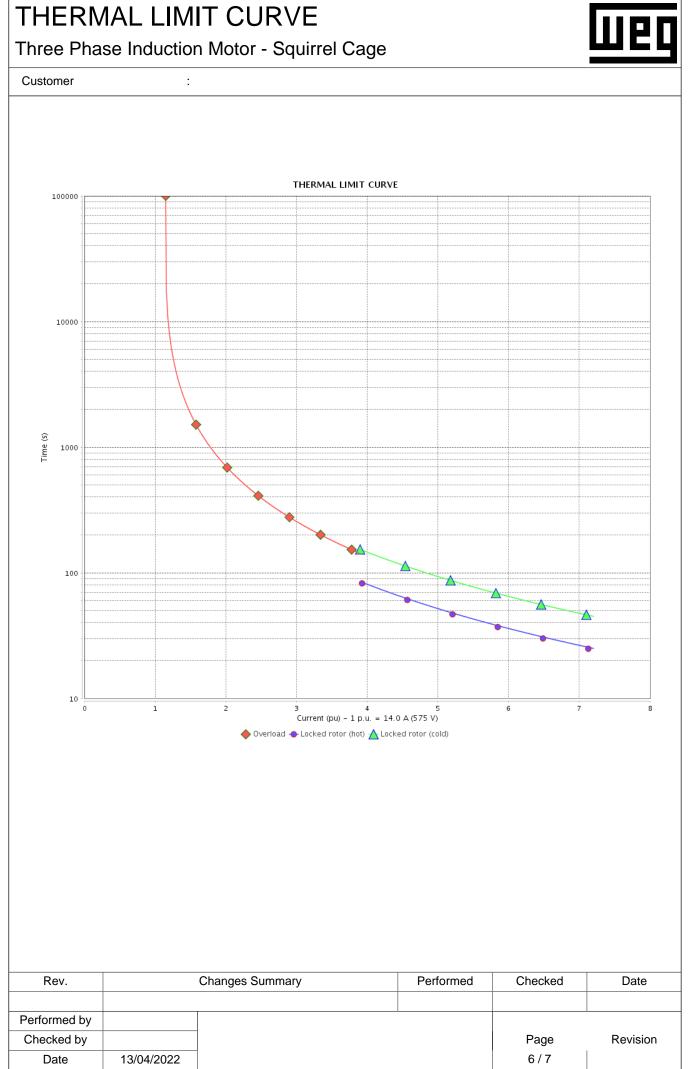
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407462
	Phase	Catalog # :	01512XT3H284T

Шеq

Performance		: 575 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 14.0 A : 7.2 : 66.8 ft.lb : 250 % : 260 % : 1180 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant							
Cooling constant							
Rev.	Rev. Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	13/04/2022	2			5/7		
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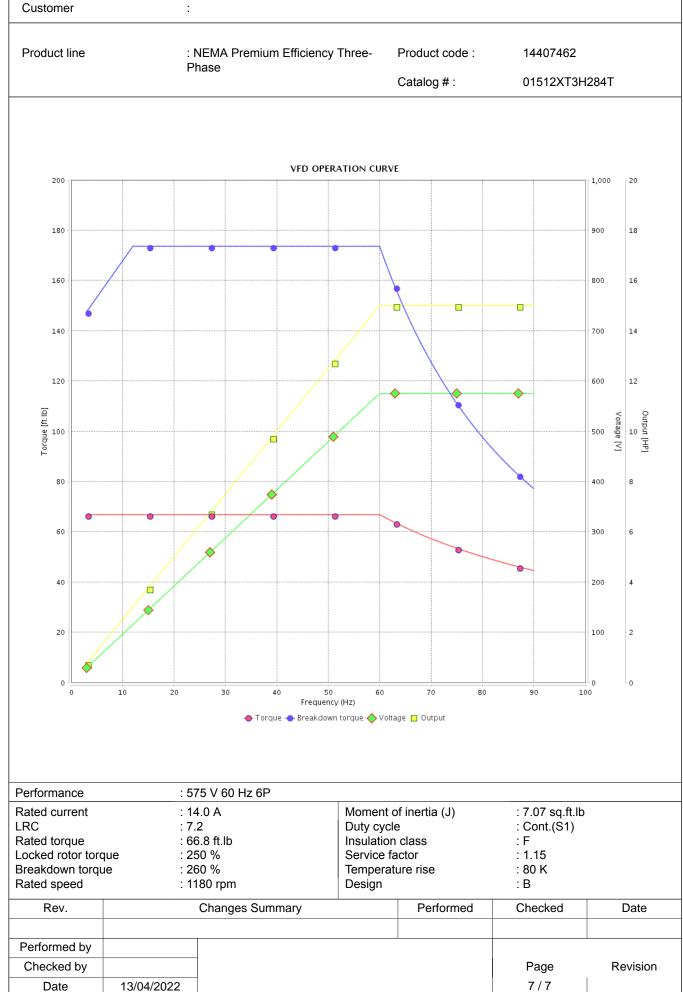


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## **VFD OPERATION CURVE**

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#### Customer



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