# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage

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Product line		: Standard Efficiency Three-Pl	hase Product code : Catalog # :	14797646 .7512ES3E56C-S		
Frame Insulation class Duty cycle		: 56HC : F : Cont.(S1)	Cooling method Mounting Rotation <sup>1</sup>	: IC411 - TEFC : F-1 : Both (CW and CCW)		
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 31.5 lb		
Protection degree Design		: IP55 : A	Moment of inertia (J) : 0.1331 sq.ft.lb			
Dutput [HP]		0.75	0.75	0.75		
Poles		6	6	6		
Frequency [Hz]		60	50	50		
Rated voltage [V]		208-230/460	190/380	220/415		
Rated current [A] R. Amperes [A]		2.96-2.68/1.34 17.2-15.5/7.77	2.98/1.49 13.4/6.71	2.77/1.47 13.6/7.20		
R. Amperes [A] _RC [A]		5.8x(Code K)	4.5x(Code G)	4.9x(Code H)		
No load current [A		1.67-1.94/0.971	1.91/0.955	1.94/1.03		
Rated speed [RPN		1155	935	940		
Slip [%]		3.75	6.50	6.00		
Rated torque [ft.lb]	]	3.41	4.21	4.19		
ocked rotor torqu		229	170	200		
Breakdown torque		300	210	229		
Service factor			1.00	1.00		
Temperature rise		80 K	105 K	105 K		
Locked rotor time		37s (cold) 21s (hot)	Os (cold) Os (hot)	Os (cold) Os (ho	ot)	
Noise level <sup>2</sup>	050/	50.0 dB(A)	48.0 dB(A)	48.0 dB(A)		
	25% 50%	<u>68.4</u> 70.0	70.3	67.9 68.7		
Efficiency (%)	75%	70.0	70.3	72.9		
	100%	74.0	73.5	73.2		
	25%	0.26	0.31	0.28		
	50%	0.46	0.55	0.51		
Power Factor	75%	0.59	0.68	0.64		
	100%	0.68	0.77	0.74		
Bearing type		Drive end Non drive end 6203 ZZ 6202 ZZ	Foundation loads Max. traction	: 79 lb		
Sealing		: V'Ring Without Bearing Seal	Max. compression	: 110 lb		
Lubrication interv		:				
Lubricant amoun	it					
Lubricant type		: Mobil Polyrex EM				
Notes USABLE @208V	' SF 1.00					
	ed. notor from the			s based on tests with sinuso he tolerances stipulated in N		
(1) Looking the m (2) Measured at 1	1m and with t					
<ul><li>(1) Looking the m</li><li>(2) Measured at 1</li></ul>	weight subjec ocess.	t to changes after				
<ol> <li>Looking the m</li> <li>Measured at 1</li> <li>Approximate v</li> <li>manufacturing pro</li> </ol>	weight subjec ocess.		Performed	Checked Da	ate	
(1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	weight subjec ocess.	t to changes after	Performed	Checked Da	ate	
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(1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	weight subjec ocess.	t to changes after	Performed		ate	

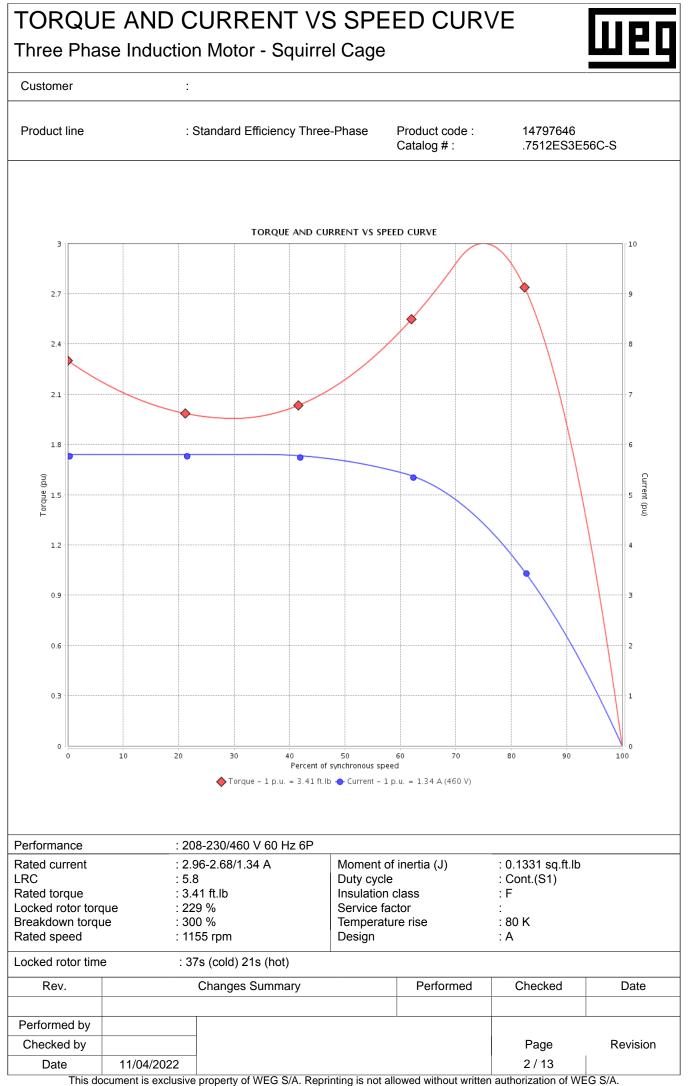
 

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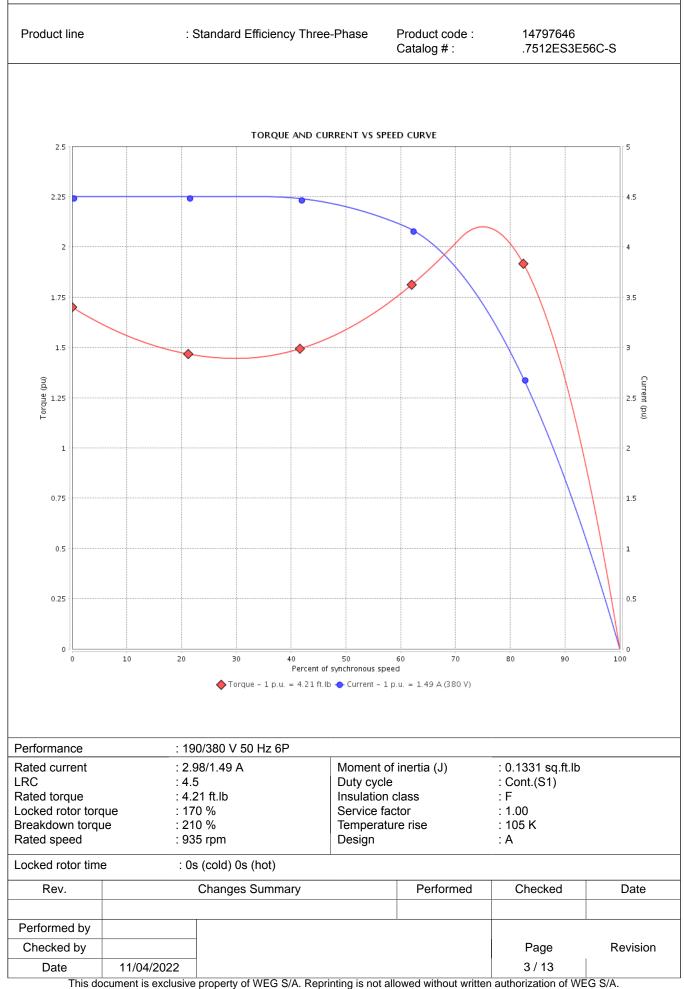


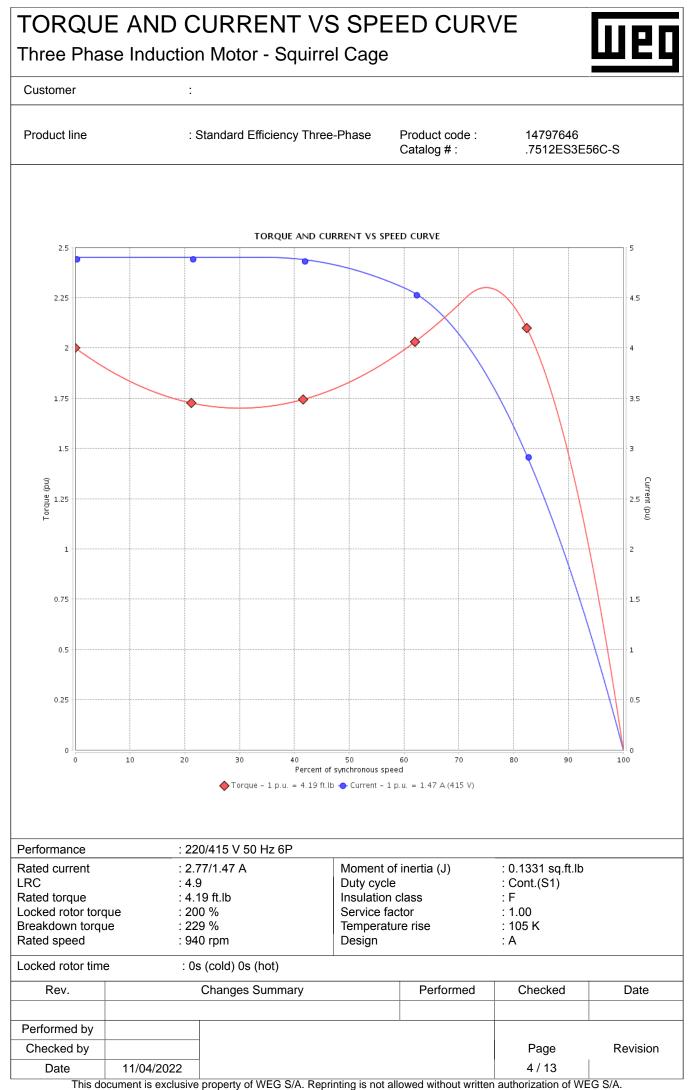
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



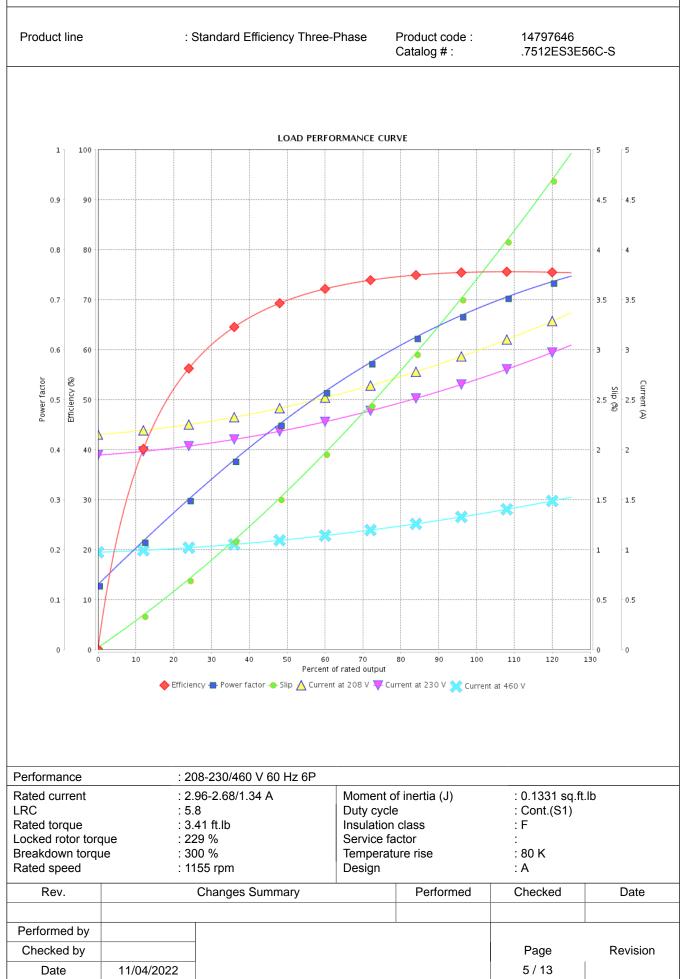


## LOAD PERFORMANCE CURVE

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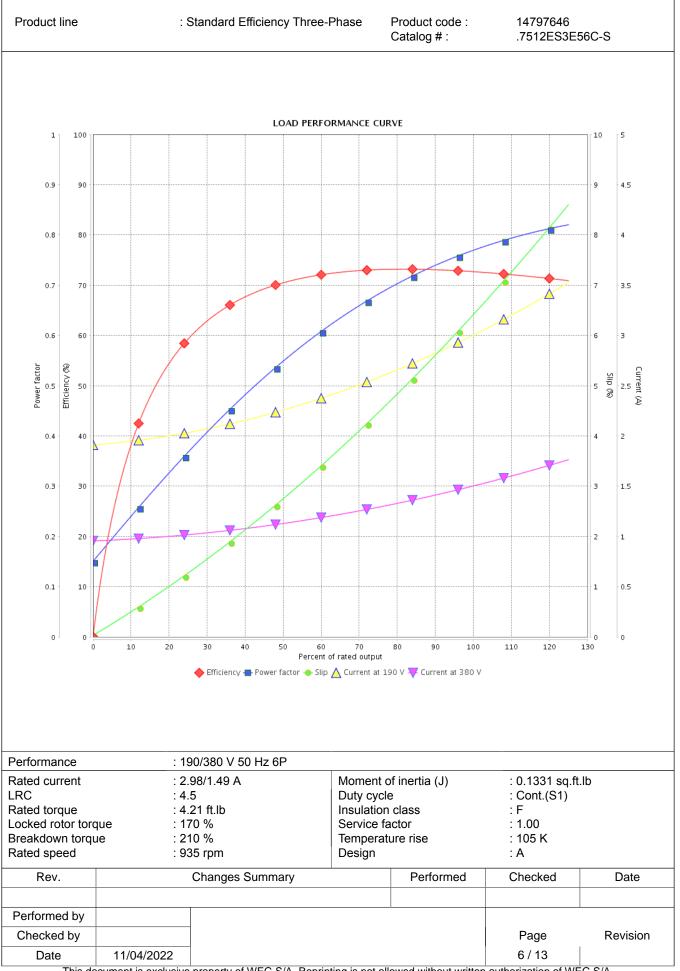
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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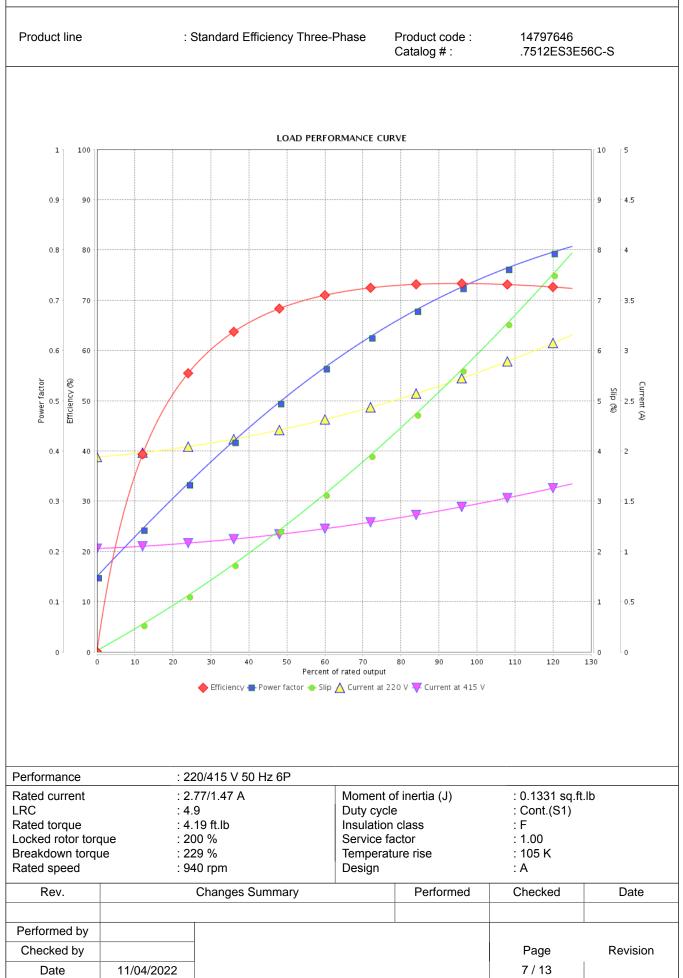
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## LOAD PERFORMANCE CURVE

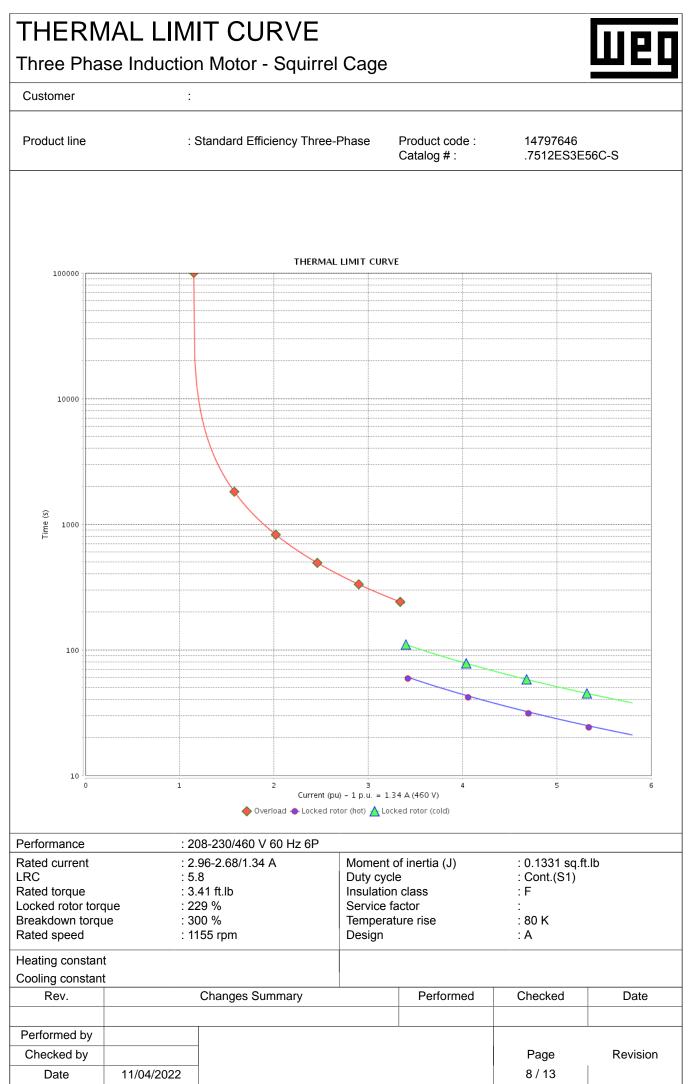
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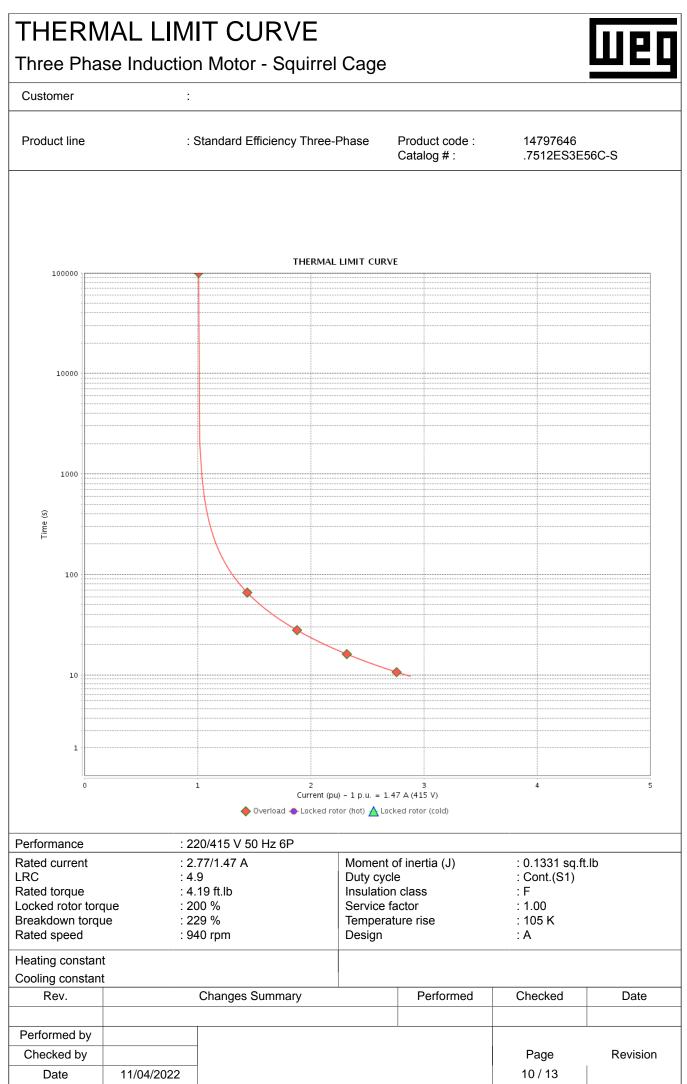
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Customer	:						
Product line	: 5	Standard Efficiency Thre	e-Phase	Product code Catalog # :		797646 512ES3E56C-S	
100000 1		THERM	IAL LIMIT CUR	VE			
-							
10000							
1000							
Time (s)							
F							
100							
-							
			•				
10							
1							
0	:	1 2 Current Overload - Locke	t (pu) – 1 p.u. = 1 d rotor (hot) <u> </u> Lo		2	l	5
Performance	· 10	90/380 V 50 Hz 6P					
Rated current	: 2.	98/1.49 A		t of inertia (J)	: 0.1	331 sq.ft.lb	
RC Rated torque		21 ft.lb	Duty cy Insulatio	on class	: F	nt.(S1)	
ocked rotor tore Breakdown torq		70 % 10 %	Service Temper	factor ature rise	: 1.0 : 10		
Rated speed		35 rpm	Design		: A		
leating constan							
Cooling constan Rev.	1	Changes Summary		Performe	d Che	cked Da	ate
		r					
Performed by Checked by					<i>ب</i> ם	age Rev	ision
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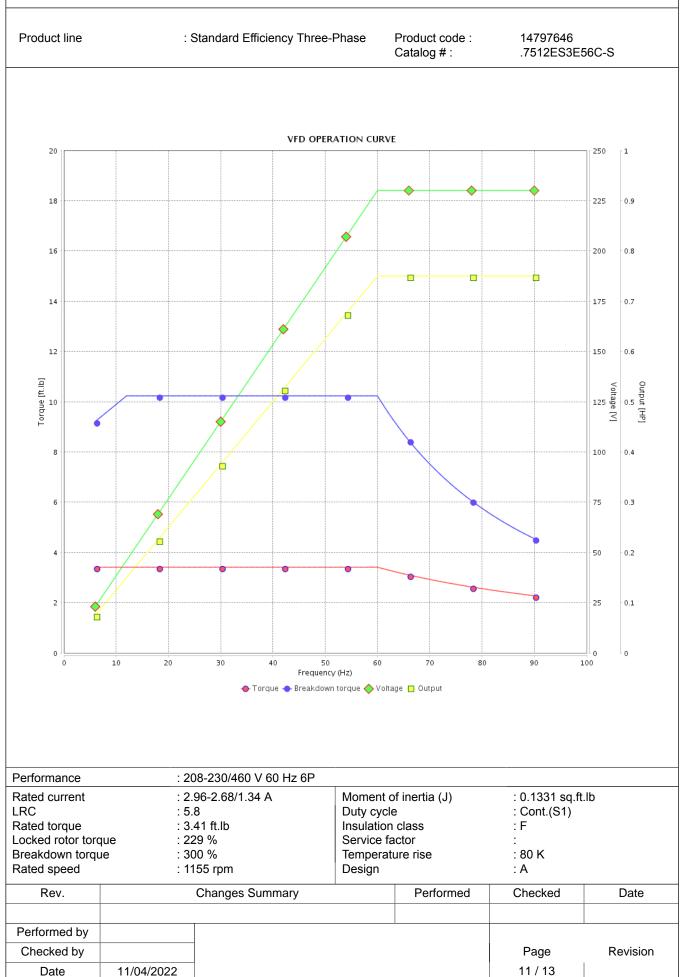
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### VFD OPERATION CURVE

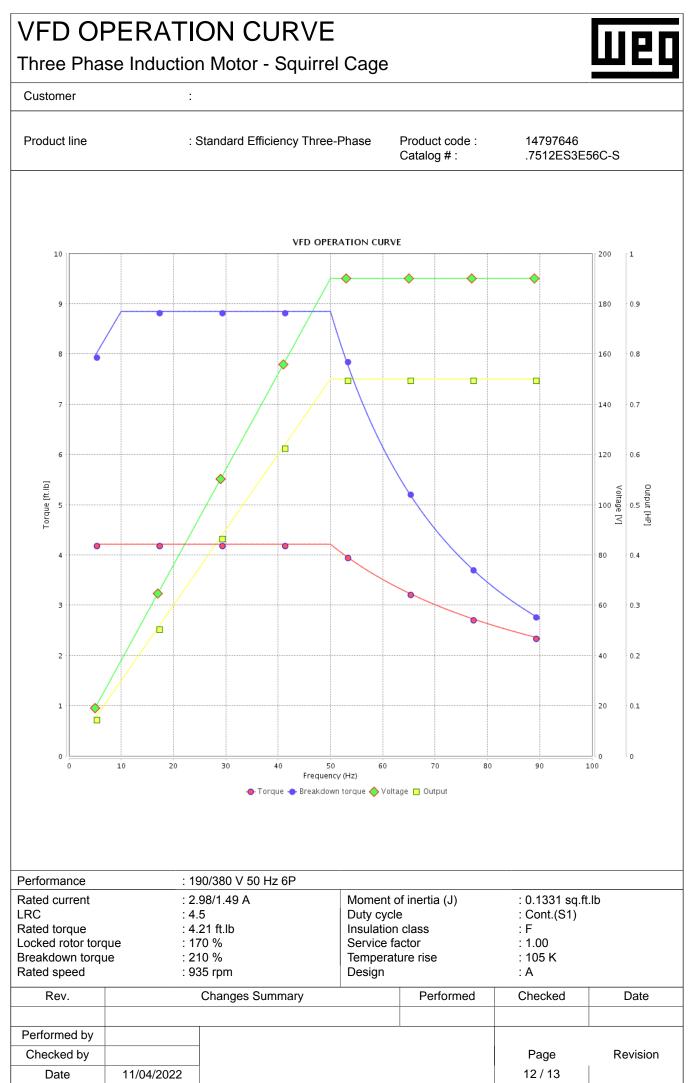
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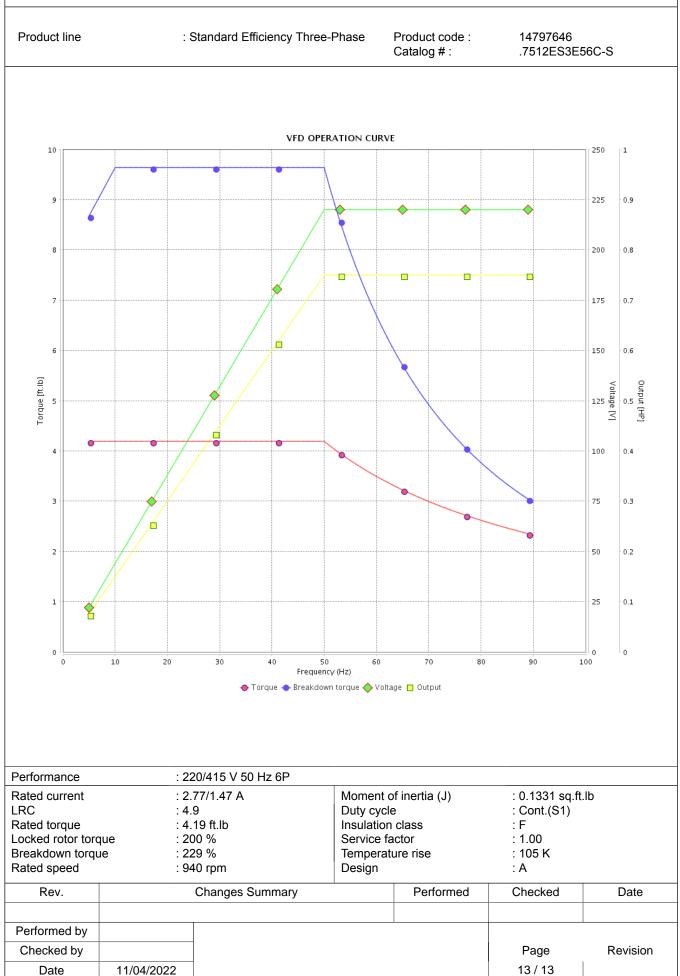
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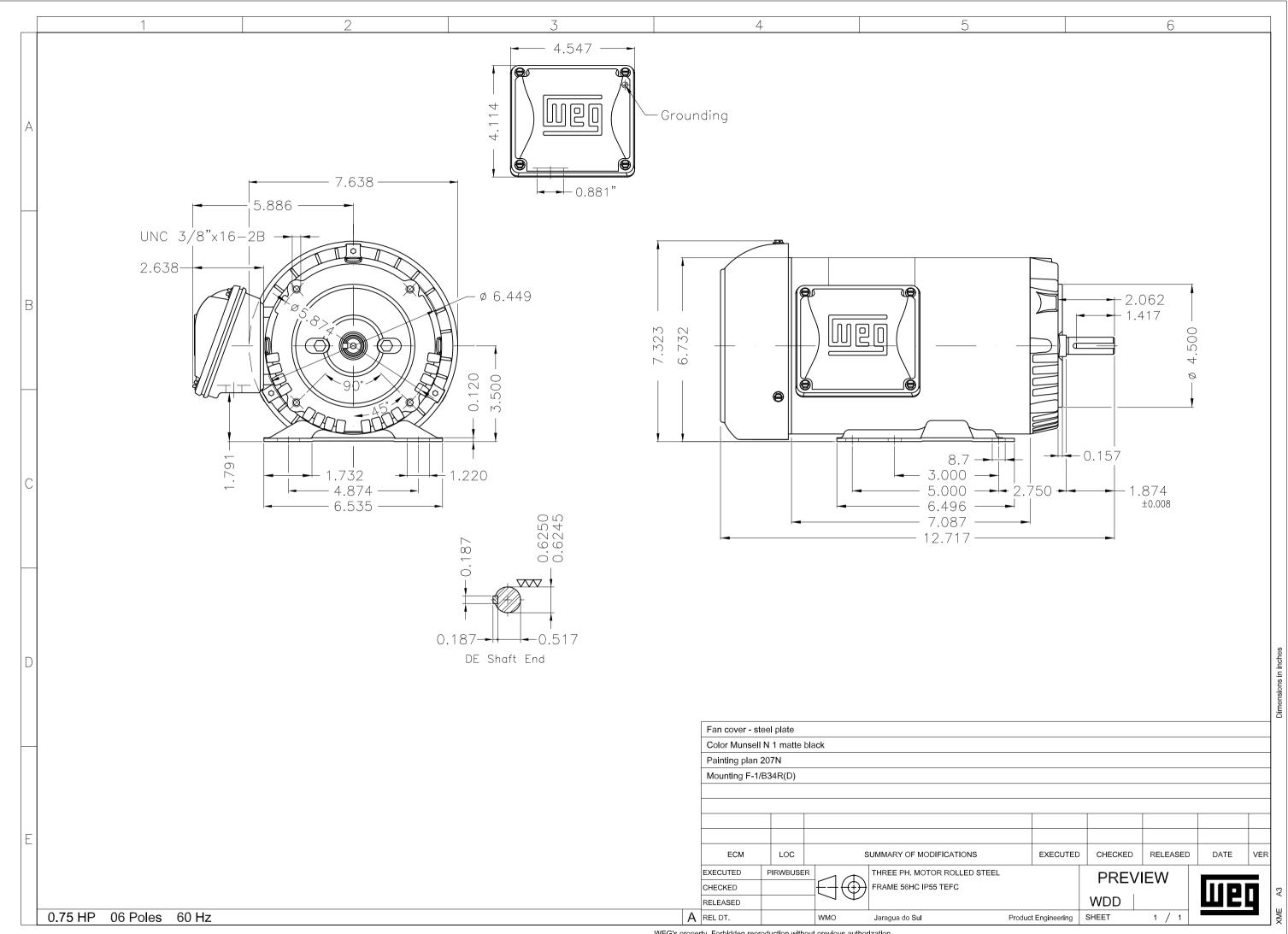
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MADE IN BRAZIL

MAT: 14797646 W01.TEOIC0X0X

MODEL .7512ES3E56C-S MMAR2022 R/N·

Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00)

For 60Hz: Class I, Zone 2, IIC

0.75	0.55	208-230/460			c1.1 6 6	PT 0.06	NEMA 1155 NEMA 75.5%	190-220/380-415V SF1.00	EFF 72.6% (IE1)	For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT	
₽	Š	>	4	SFA	2	Ł		Ĩ	<b>5RPI</b>	r For	
 Hz 60 HP	kw	>	۹ i	IP55 SFA	DES A SF	CODE K DEM	USABLE @ 208V SF1.00 NEW	ALTERNATE RATING: 0.75HP 50Hz	~	rter duty motor For	10 12 10 10 10 10 10 10 10 10 10 10 10 10 10



chocks. Disconnect power source before servicing unit. NARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux ann d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre