# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage

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Product line		: Standard Efficiency Three-F	Phase Product code : Catalog # :	14786474 .7512ES3E56CFL-S
Frame		: 56C	Cooling method	: IC411 - TEFC
Insulation class		: F	Mounting	: F-1
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: 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>	: 29.9 lb
Protection degree Design	e	: IP55 : A	Moment of inertia (J)	: 0.1331 sq.ft.lb
Output [HP]		0.75	0.75	0.75
oles		6	6	6
requency [Hz]		60	50	50
ated voltage [V]		208-230/460	190/380	220/415
ated current [A]		2.96-2.68/1.34	2.98/1.49	2.77/1.47
. R. Amperes [A]		17.2-15.5/7.77	13.4/6.71	13.6/7.20
RC [A]		5.8x(Code K)	4.5x(Code G)	4.9x(Code H)
lo load current [A	]	1.67-1.94/0.971	1.91/0.955	1.94/1.03
ated speed [RPN		1155	935	940
lip [%]	-	3.75	6.50	6.00
ated torque [ft.lb]	]	3.41	4.21	4.19
ocked rotor torqu		229	170	200
Breakdown torque		300	210	229
Service factor	<u>.</u>		1.00	1.00
emperature rise		80 K	105 K	105 K
ocked rotor time		37s (cold) 21s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
		50.0 dB(A)	48.0 dB(A)	48.0 dB(A)
	25%	68.4	70.3	67.9
	50%	70.0	70.3	68.7
Efficiency (%)	75%	70.0	70.3	72.9
	100%	74.0	73.3	73.2
	25%	0.26	0.31	0.28
	25% 50%	0.26	0.31	0.28
Power Factor	75%	0.46	0.55	0.64
	100%	0.59	0.88	
	100%			0.74
Dessie		Drive end Non drive end	=	
Bearing type		: 6203 ZZ 6202 ZZ	Max. traction	: 79 lb
Sealing		: V'Ring Without	Max. compression	: 109 lb
		Bearing Sea	al	
Lubrication interv		:		
Lubricant amoun	τ			
Lubricant type		: Mobil Polyrex EM		
Notes USABLE @208V	SF 1.00			
must be eliminate (1) Looking the m	ed. lotor from the	ncel the previous one, which e shaft end. olerance of +3dB(A).		s based on tests with sinusoidal the tolerances stipulated in NEMA
	veight subjec ocess.	t to changes after		
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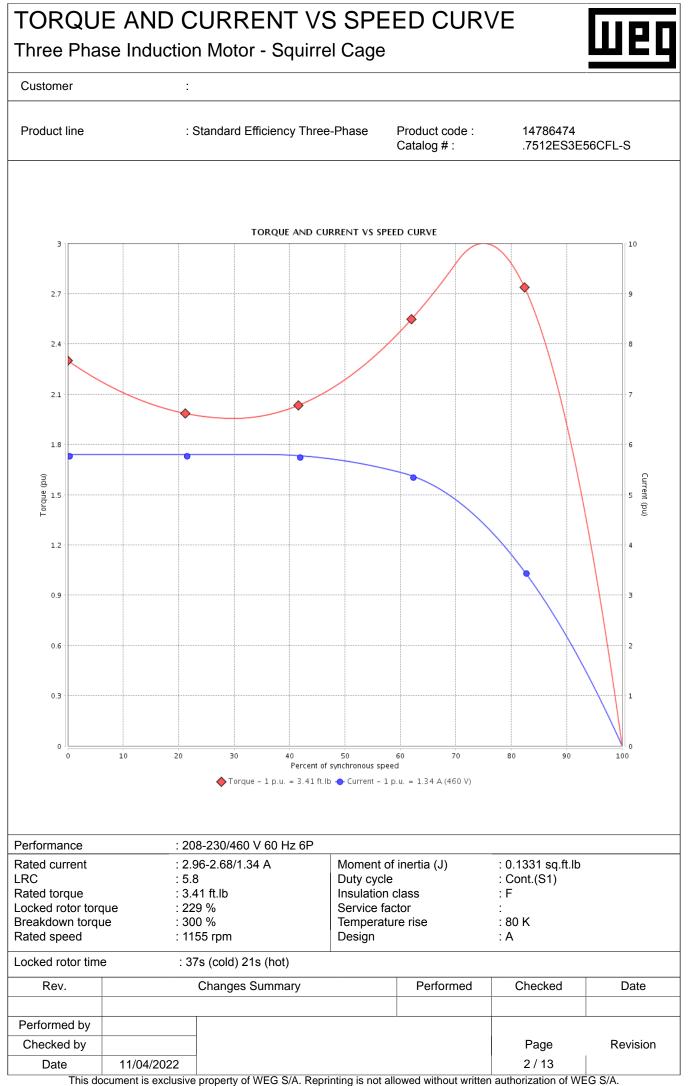
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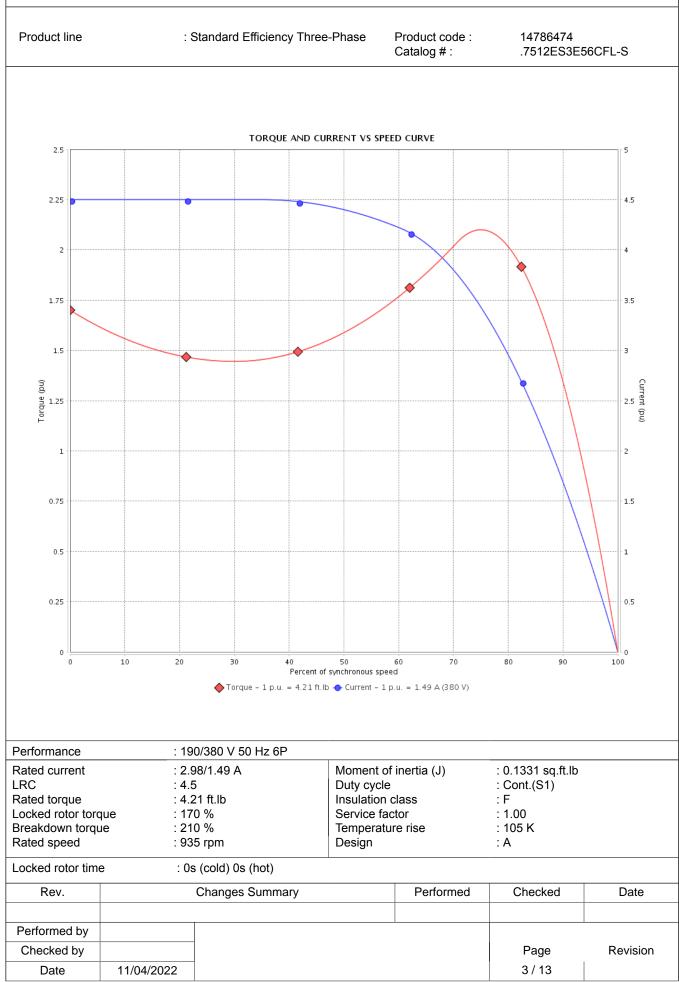


#### TORQUE AND CURRENT VS SPEED CURVE

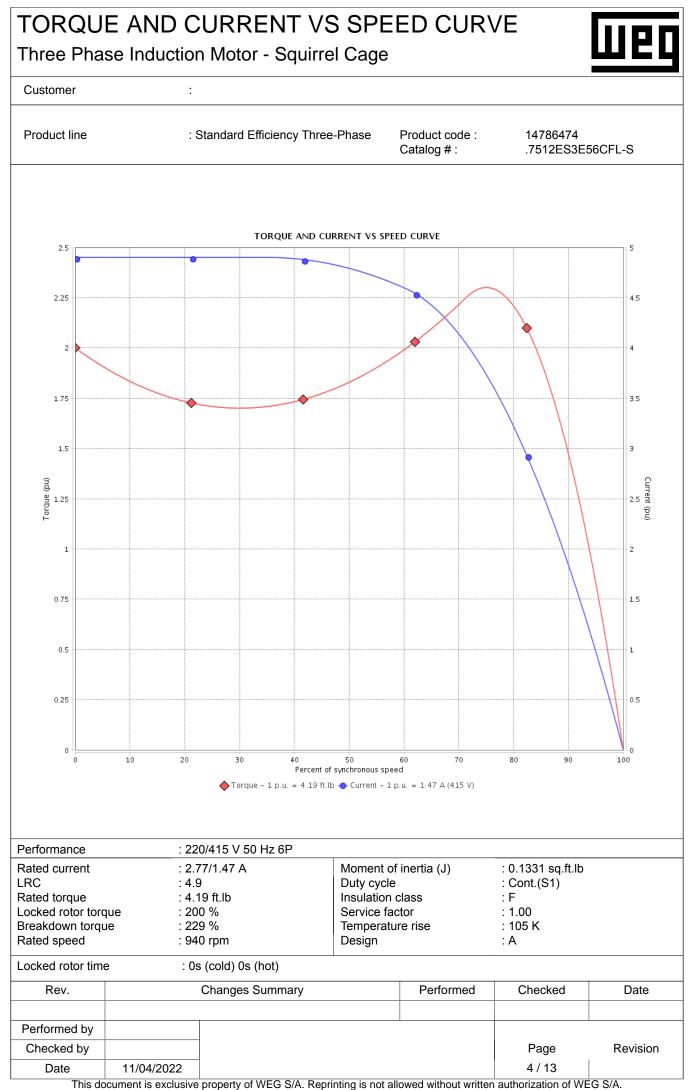
Three Phase Induction Motor - Squirrel Cage

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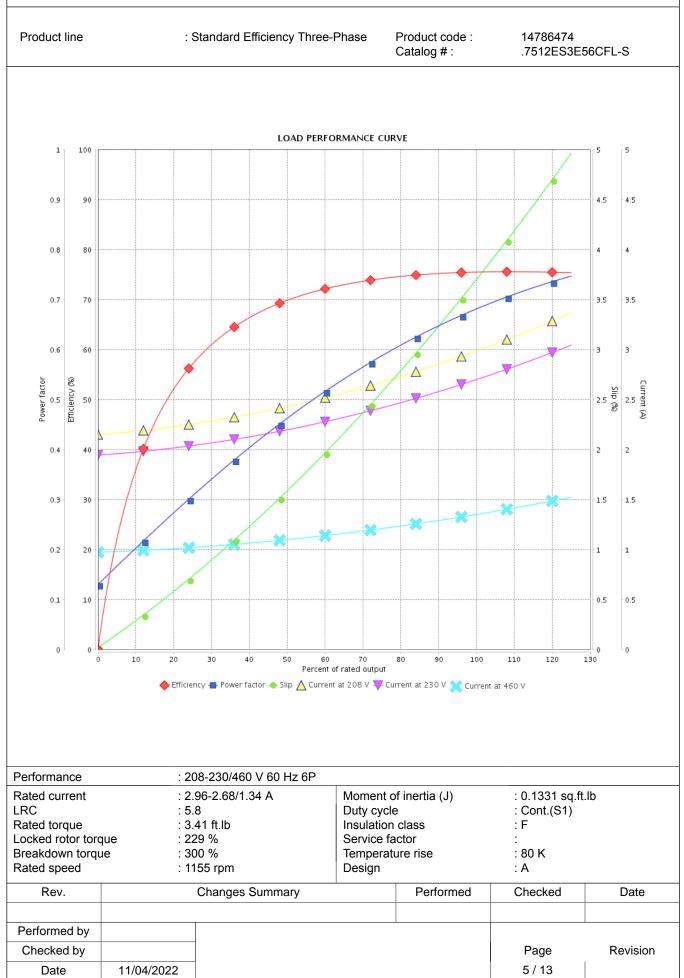


## LOAD PERFORMANCE CURVE

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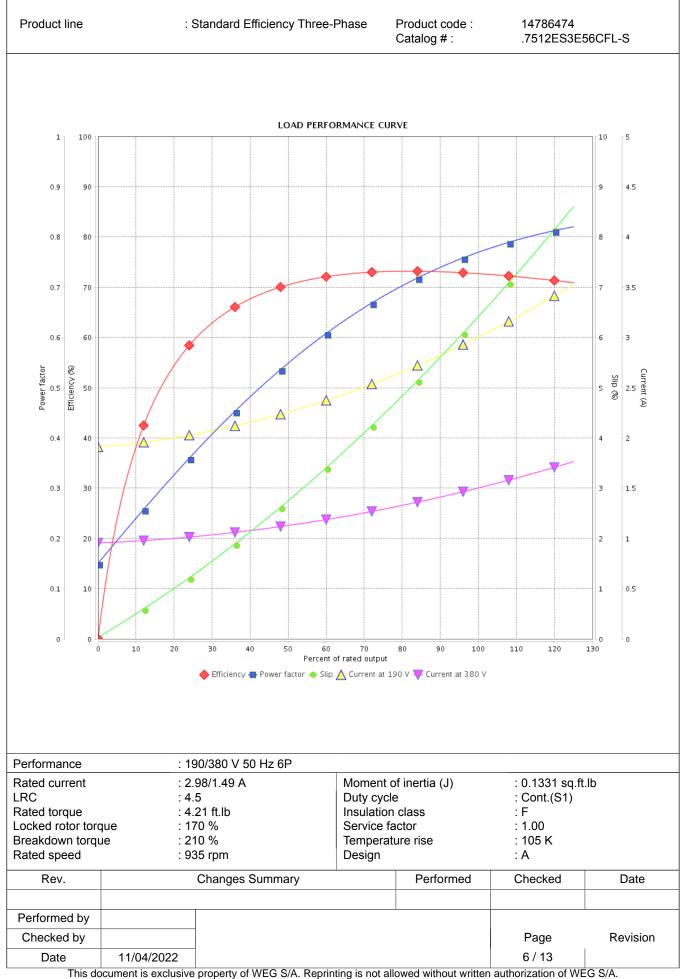
### LOAD PERFORMANCE CURVE

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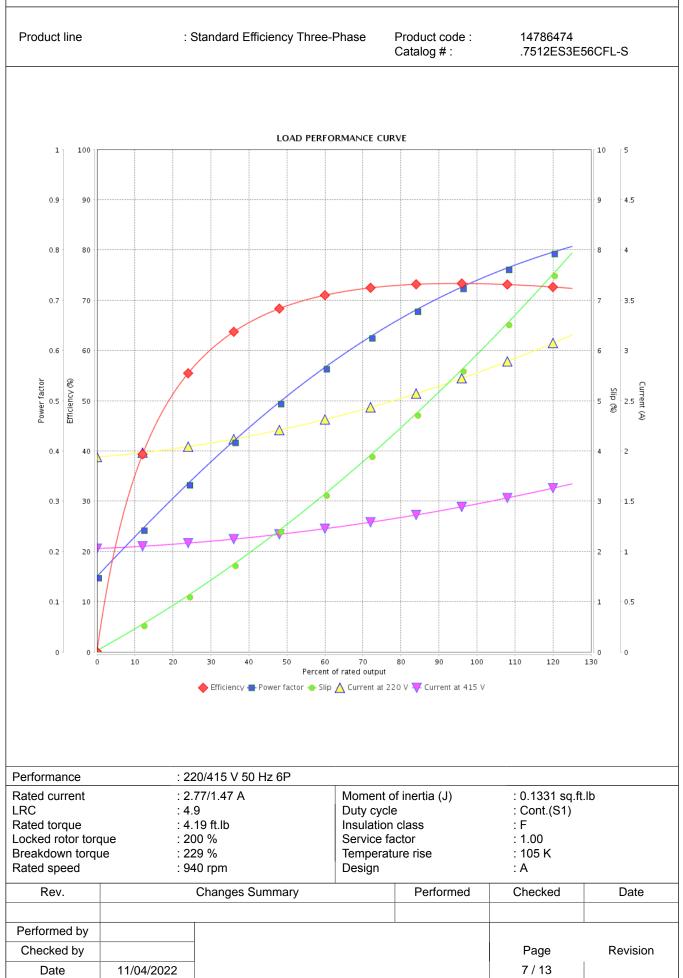


## LOAD PERFORMANCE CURVE

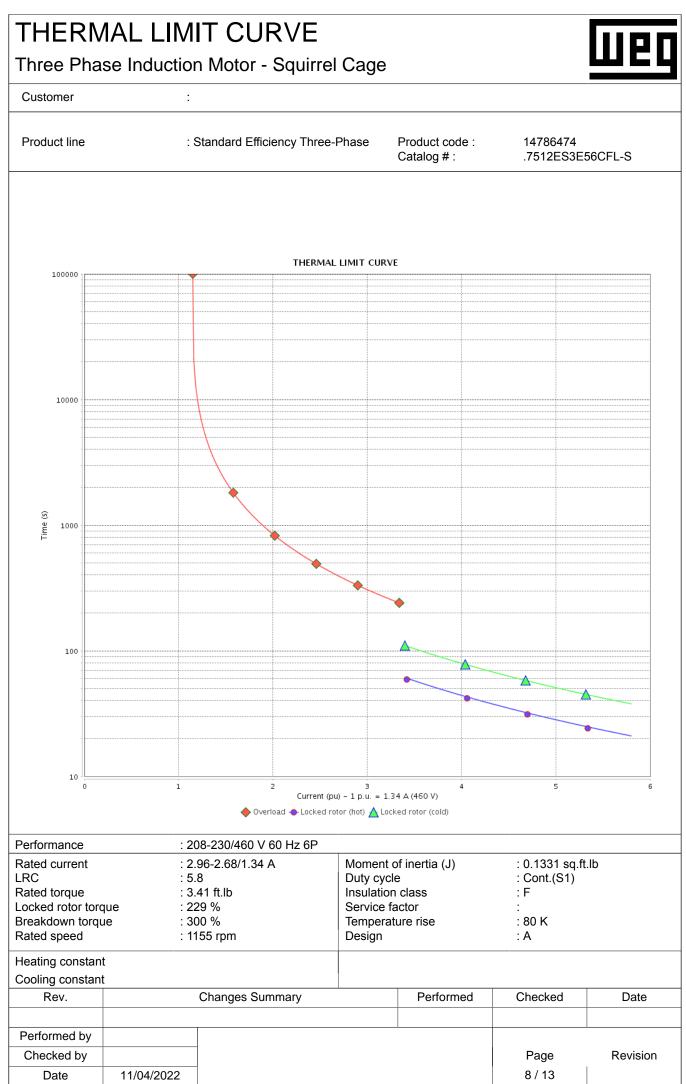
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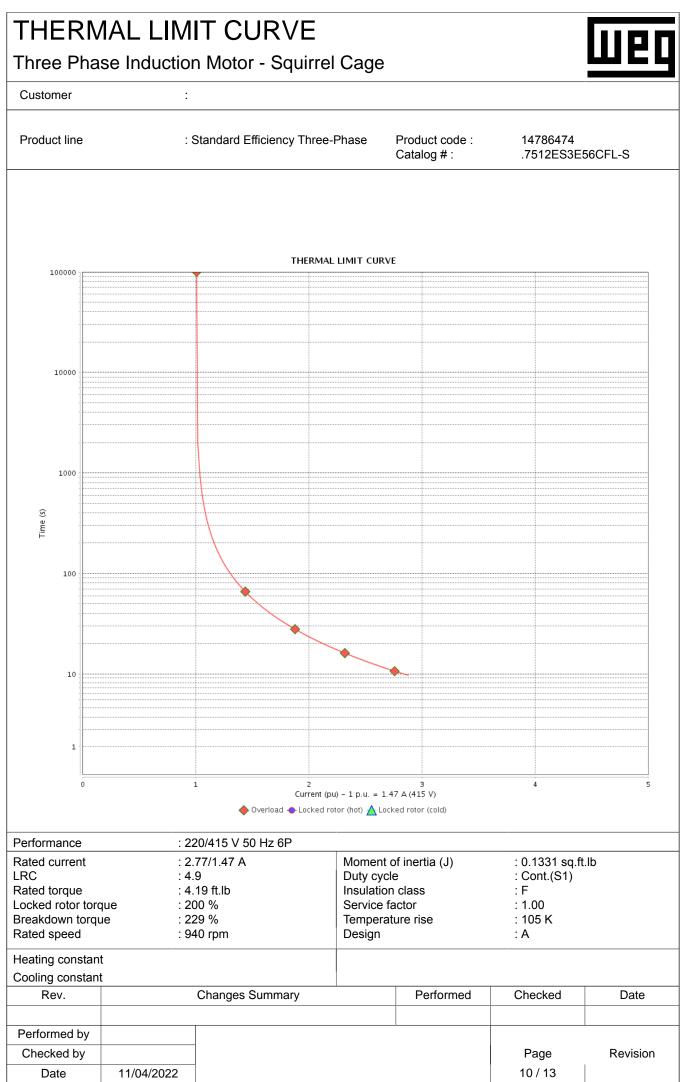
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			Catalog # :	.7512ES3E5	6CFL-S
100000 10	ТН	ERMAL LIMIT CUP	RVE		
-					
10000					
1000					
Time (s)					
100					
100					
	•				
10		-			
1					
0		2 irrent (pu) – 1 p.u. = ocked rotor (hot) <u>A</u> L		4	5
erformance	: 190/380 V 50 Hz 6P				
RC ated torque	: 2.98/1.49 A : 4.5 : 4.21 ft.lb : 170 % : 210 % : 935 rpm	Duty cy Insulati Service	rcle on class e factor rature rise	: 0.1331 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : A	lb
Performance Rated current .RC Rated torque .ocked rotor torque	: 2.98/1.49 A : 4.5 : 4.21 ft.lb : 170 %	Duty cy Insulati Service	on class factor	: Cont.(S1) : F : 1.00	lb

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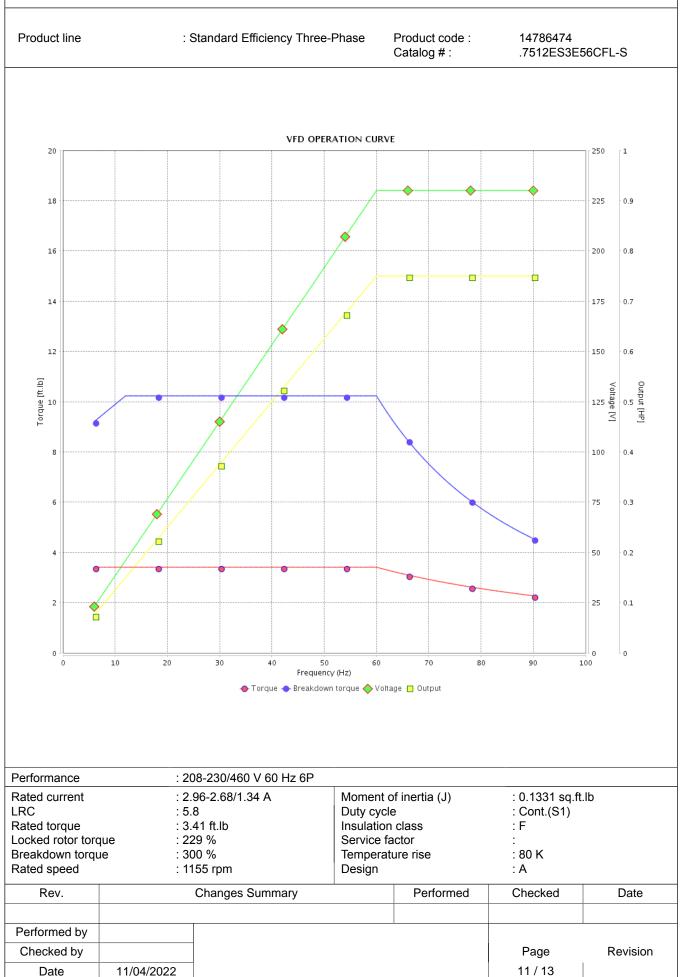
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### VFD OPERATION CURVE

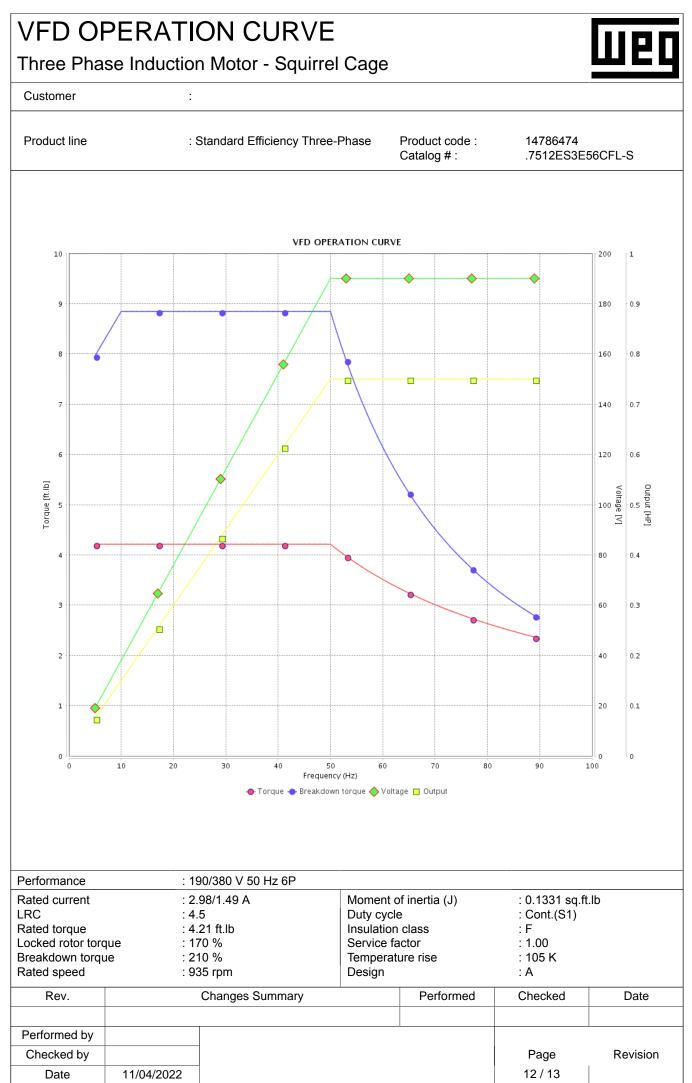
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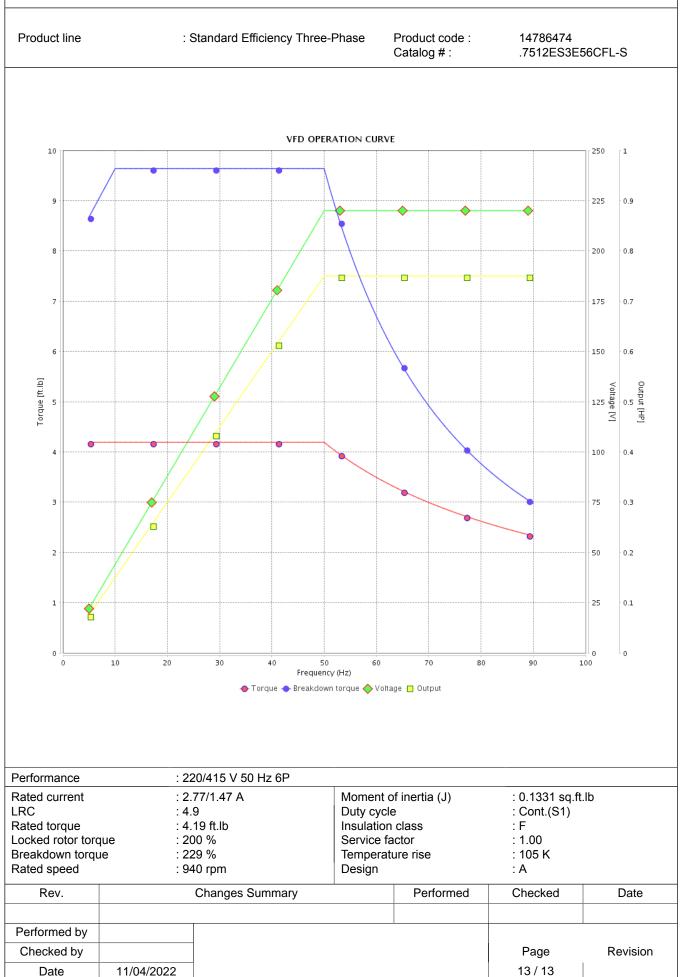
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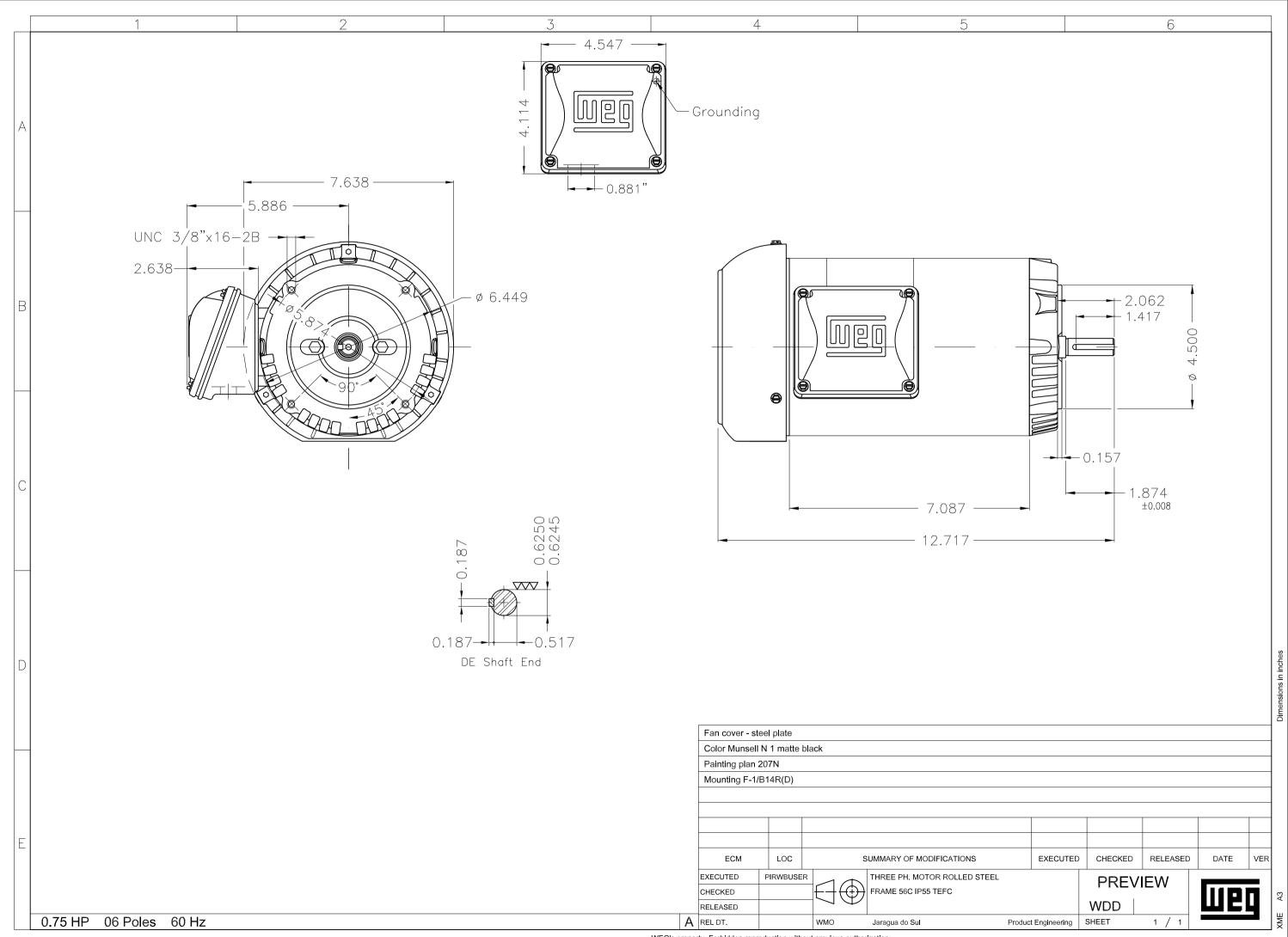
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MADE IN MÉXICO

MAT: 14786474 W01.TE0IC0X0X

MODEL 7512ES3E56CFL-S

Class I, Div.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

For 60Hz: Class I, Zone 2, IIC

PH 3	Hz 60	HP 0.75			
FR 56C		kW 0.55			
DUTY CONT.		V 208-	208-230/460		
ALT 1000 m.a.s.	8.I		2.96-2.68/1.34		
INS CL F AT 80K	IP55	SFA 2.96	2.96-3.08/1.54		
AMB 40°C	DES A	SF 1.15	-		
ENCL TEFC	CODE K	DDM 1155			
USABLE @ 208V SF1.00		NOM. EFF 75.5%	5.5%		
ALTERNATE RATING: 0.75HP	-	50Hz 1	190-220/380-415V		SF1.00
2.98-2.77/1.49-1.47A		935RPM	EFF 72.6%	(IE1) IEC	IEC 60034-1
For safe area-h	For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT	or For 60Hz	use on VPWM '	1000:1 VT,	10:1 CT
DE 6203-ZZ	ODE 6202-ZZ	MOBIL	MOBIL POLYREX EM		

T2-WHT T8-RED F4-YEL F6-GRY **T9-BRK RED I3-ORG** 1-BLU I7-PNK T5-BLK OLYREX EM NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION NARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical 9 α g ЧĊ, 6203-ZZ DLTAGE ≿

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

