DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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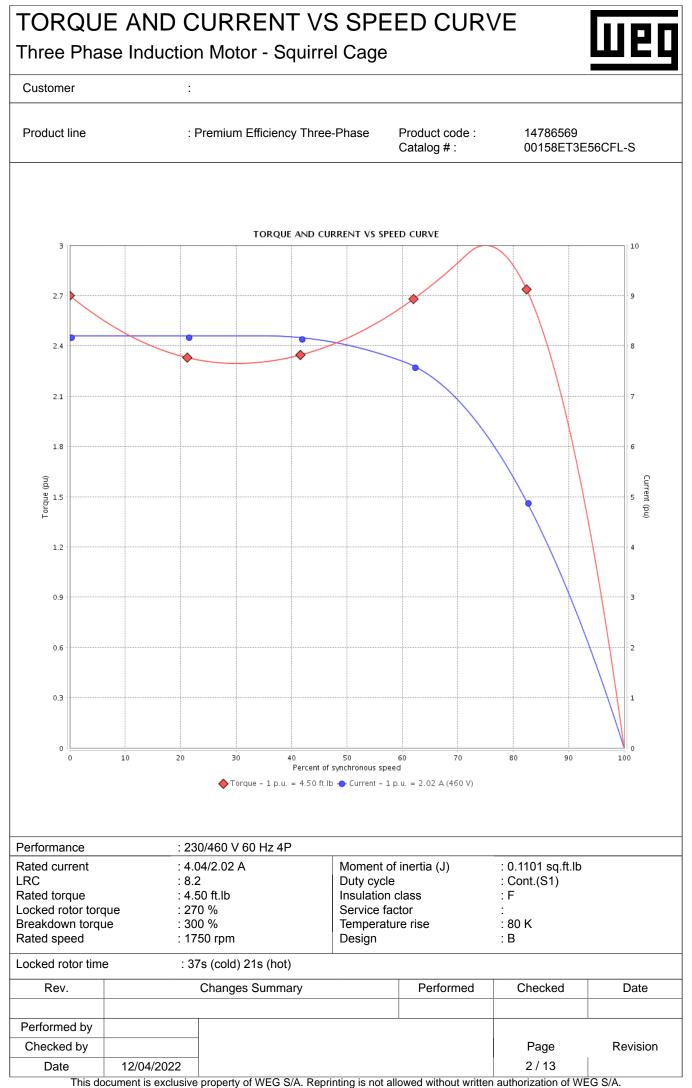
Customer

Product line		: Premium Efficiency Three-P	hase Product co Catalog #		14786569 00158ET3E56CFL-S		
Frame		: 56C	56C Cooling method		: IC411 - TE	FC	
Insulation class		:F	Mounting		: F-1		
Duty cycle		: Cont.(S1)	Rotation ¹		: Both (CW and CCW)		
Ambient temperature		: -20°C to +40°C	Starting method		: Direct On Line		
Altitude		: 1000 m.a.s.l.	Approx. weight ³		: 36.6 lb		
Protection degree		: IP55		Moment of inertia (J) : 0.1101 sq.ft.lb		ft lh	
Design		: B			. 0. 1101 39		
Output [HP]		1.5	1.5			1.5	
Poles		4	4		4		
Frequency [Hz]		60	50		50		
Rated voltage [V]		230/460	190/380		220/415		
Rated current [A]		4.04/2.02	4.82/2.41		4.38/2.32		
L. R. Amperes [A]		33.1/16.6	33.1/16.6 29.4/14.7		29	0.3/15.5	
		8.2x(Code K)	6.1x(Code	6.1x(Code H) 6.7x((Code J)	
No load current [A	1	2.17/1.08			20/1.17		
Rated speed [RPN		1750	1420		1430		
Slip [%]		2.78	5.33		4.67		
Rated torque [ft.lb]]	4.50	5.55			5.51	
Locked rotor torqu		270	210			240	
Breakdown torque [%]		300	250			280	
Service factor	. [, .]		1.15			1.15	
Temperature rise		80 K	80 K			80 K	
Locked rotor time		37s (cold) 21s (hot)	36s (cold) 20s	(hot)			
		52.0 dB(A)	49.0 dB(A		34s (cold) 19s (hot) 49.0 dB(A)		
Noise level ²	25%	85.2	49.0 dB(A 86.1	•)		85.0	
	25% 50%	85.2	80.1				
Efficiency (%)	50% 75%	85.5			84.2		
			84.7		84.9		
	100%	86.5	82.7		83.6		
Power Factor	25%	0.35	0.41			0.37	
	50%	0.59	0.67			0.62	
	75%	0.72	0.78		0.75		
	100%	0.79	0.84			0.82	
Bearing type Sealing		Drive end Non drive end	Foundation loads				
		: 6204 ZZ 6202 ZZ	Max. traction		: 133 lb : 170 lb		
		: V'Ring Without	Max. compression				
		Bearing Seal					
Lubrication interv	val	:					
Lubricant amount		:					
Lubricant type		: Mobil Polyrex EM					
Notes			<u> </u>				
USABLE @208V	′ 4.47A SF 1.	00 SFA 4.47A					
must be eliminate	ed.	cel the previous one, which	These are average power supply, subject				
	1m and with t weight subjec ocess.	shaft end. olerance of +3dB(A). t to changes after	MG-1.				
Rev.		Changes Summary	Perforr	med	Checked	Date	
Performed by			J			1	
Checked by					Page	Revision	
Date	12/04/202	2			1 / 13	1	
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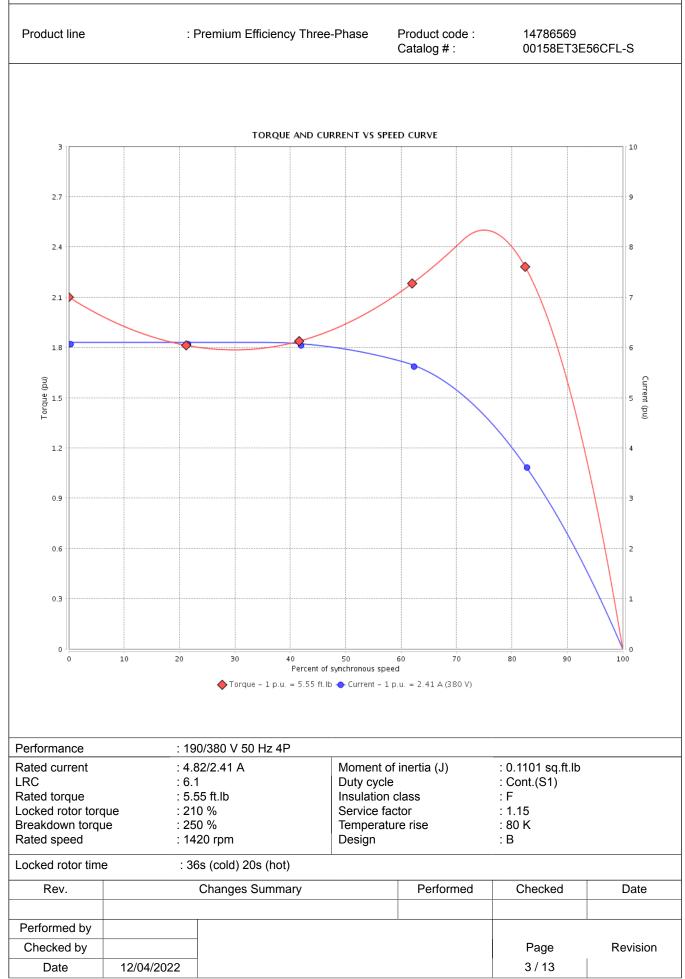
TORQUE AND CURRENT VS SPEED CURVE

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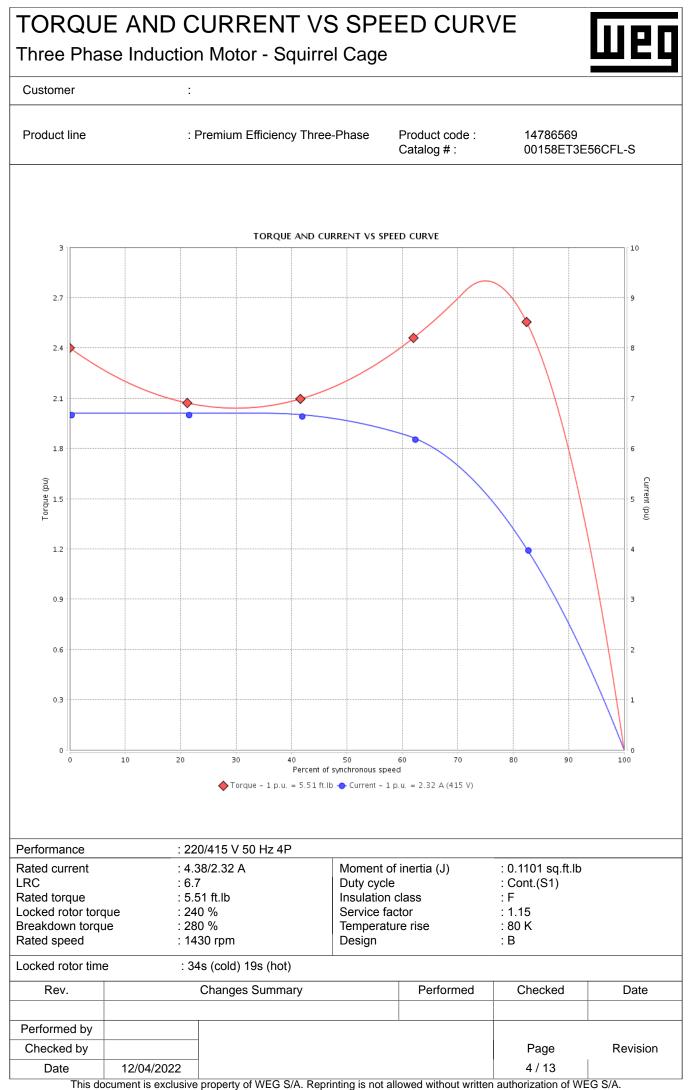
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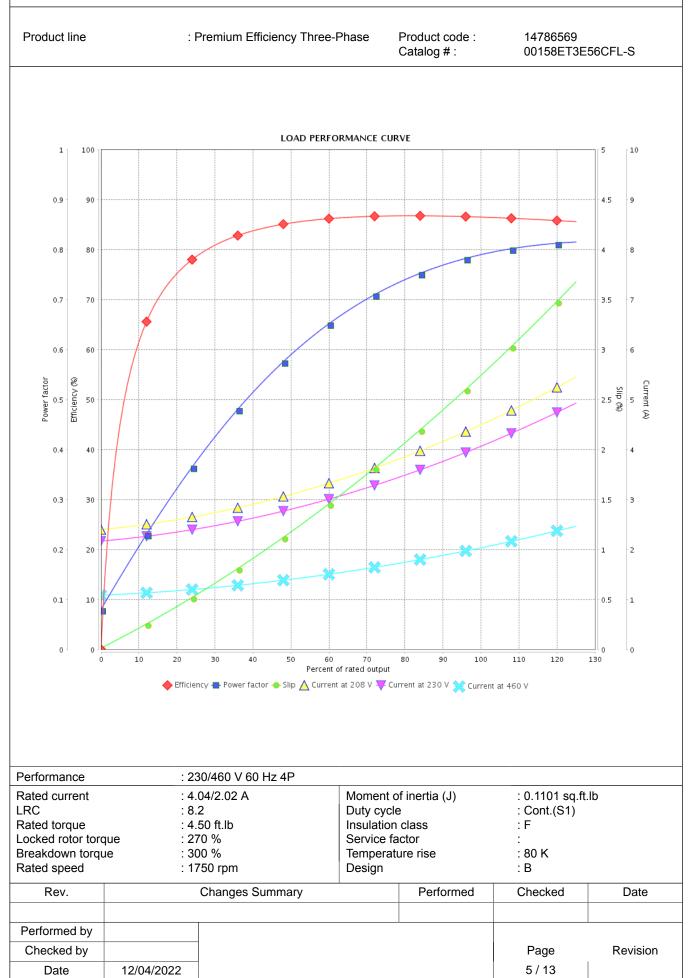


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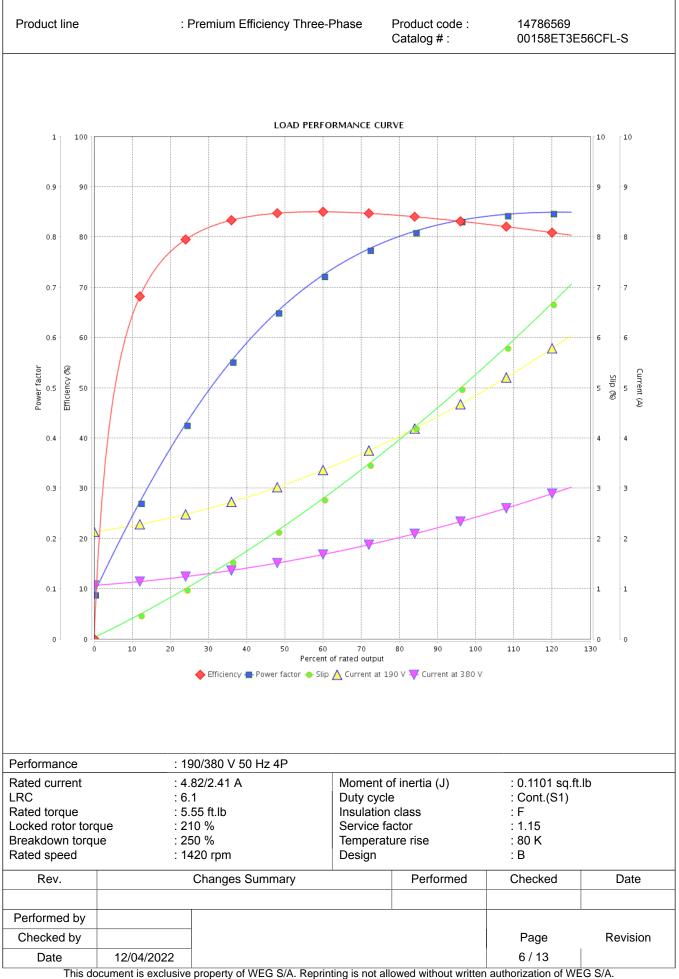
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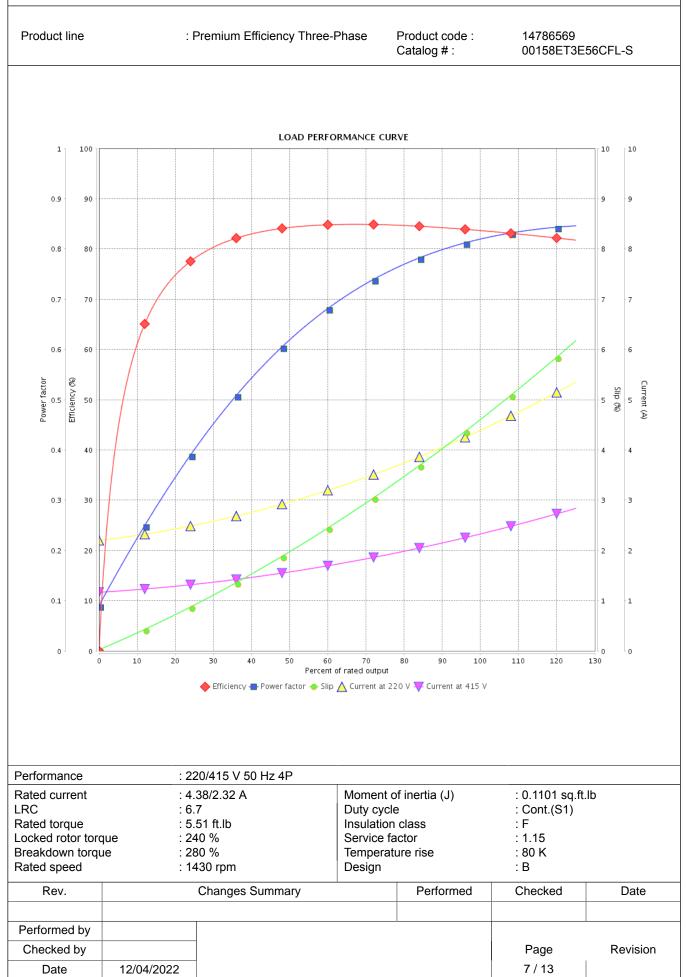


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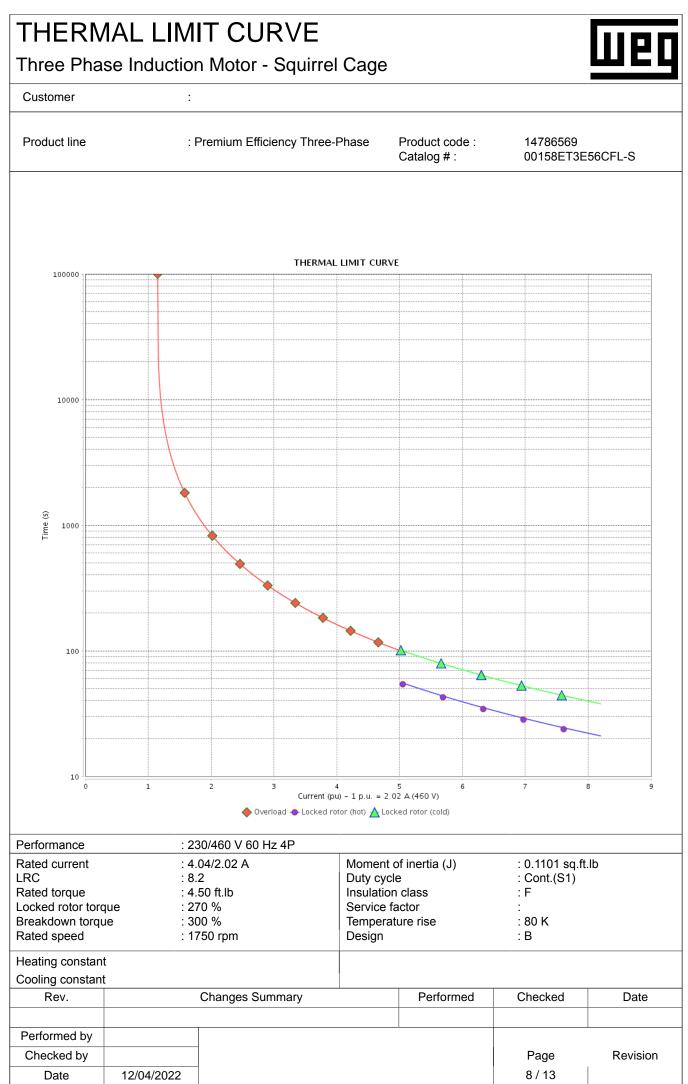
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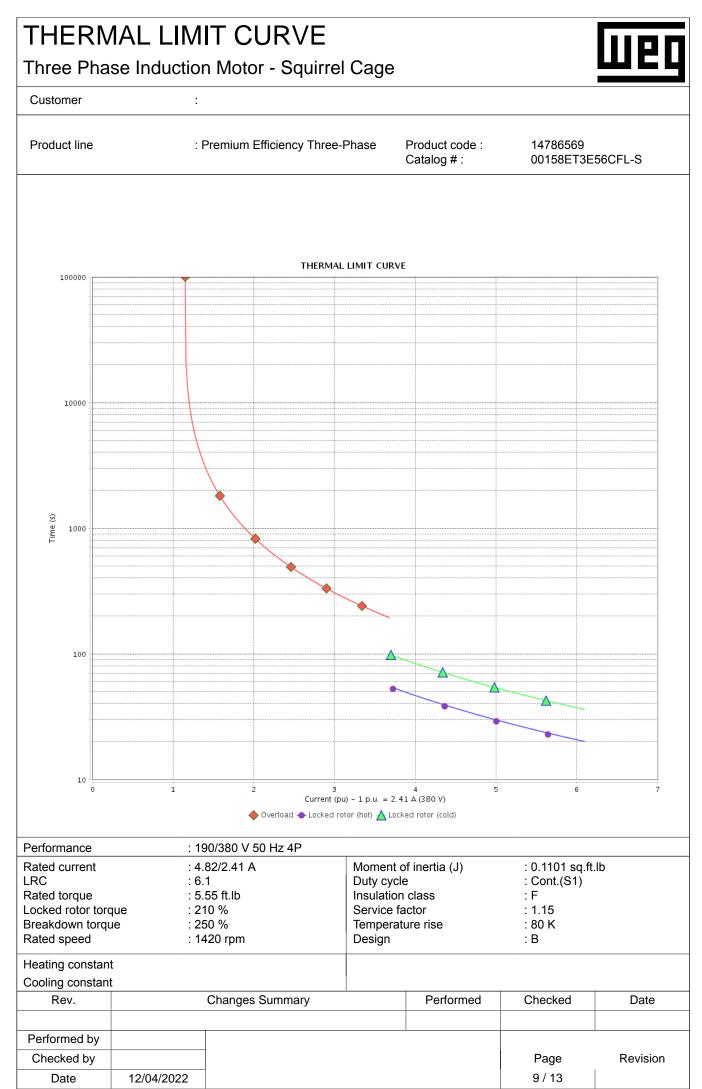
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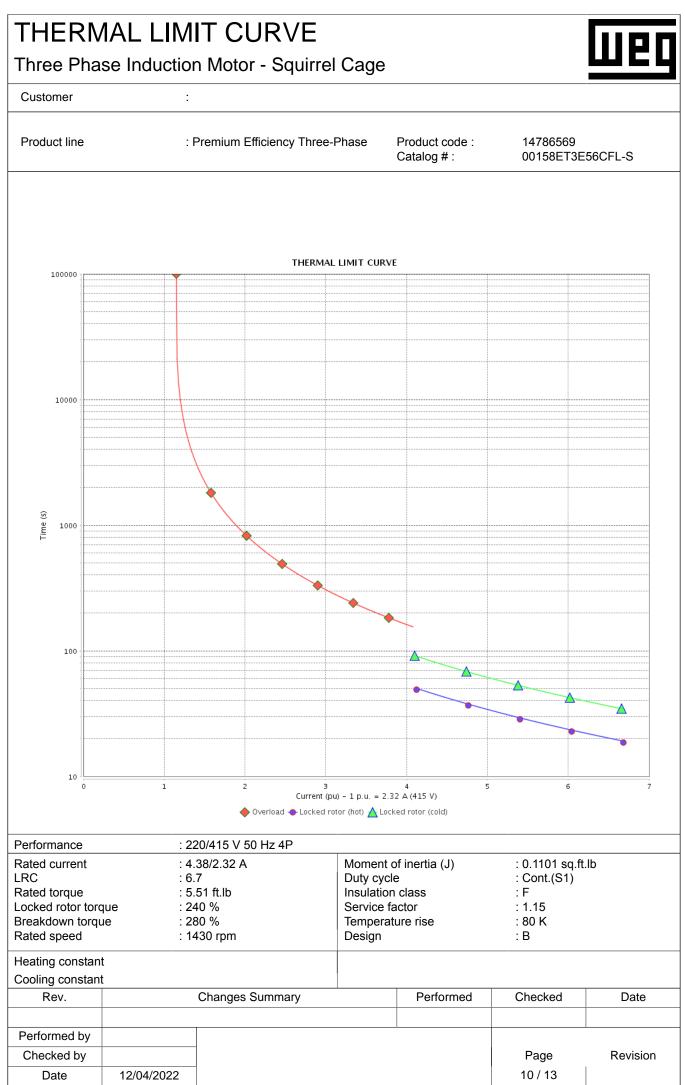
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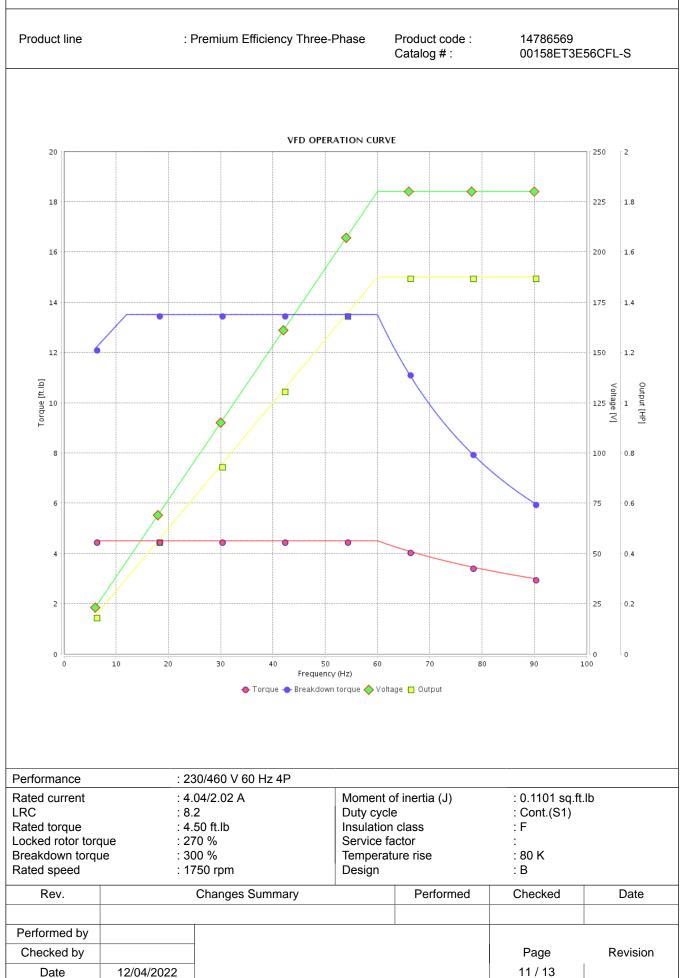


VFD OPERATION CURVE

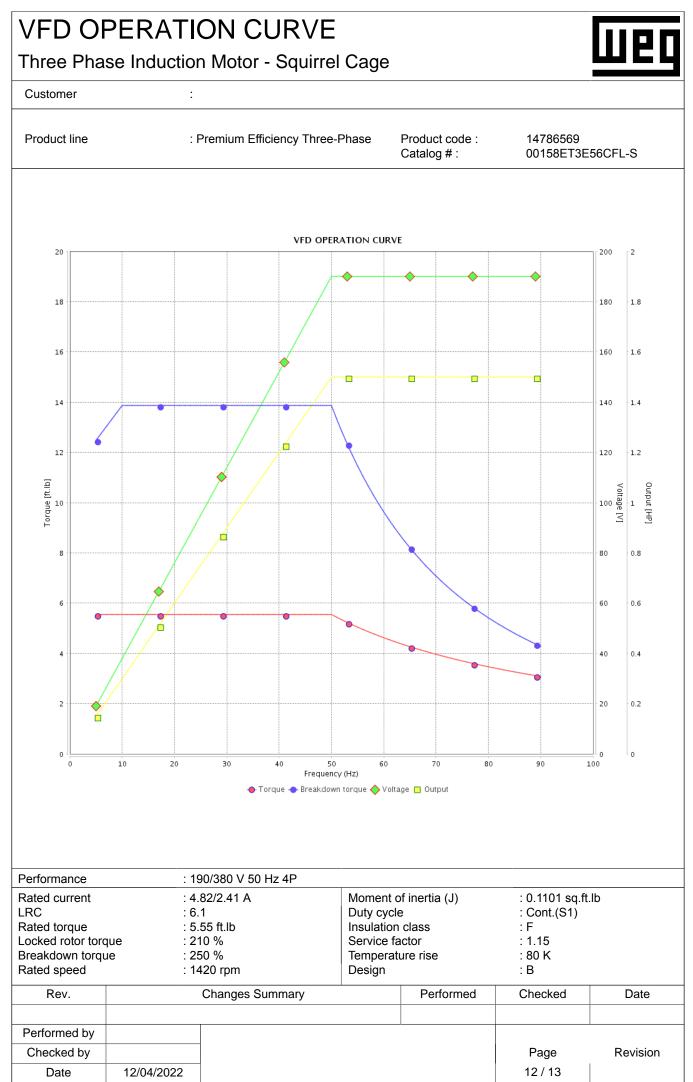
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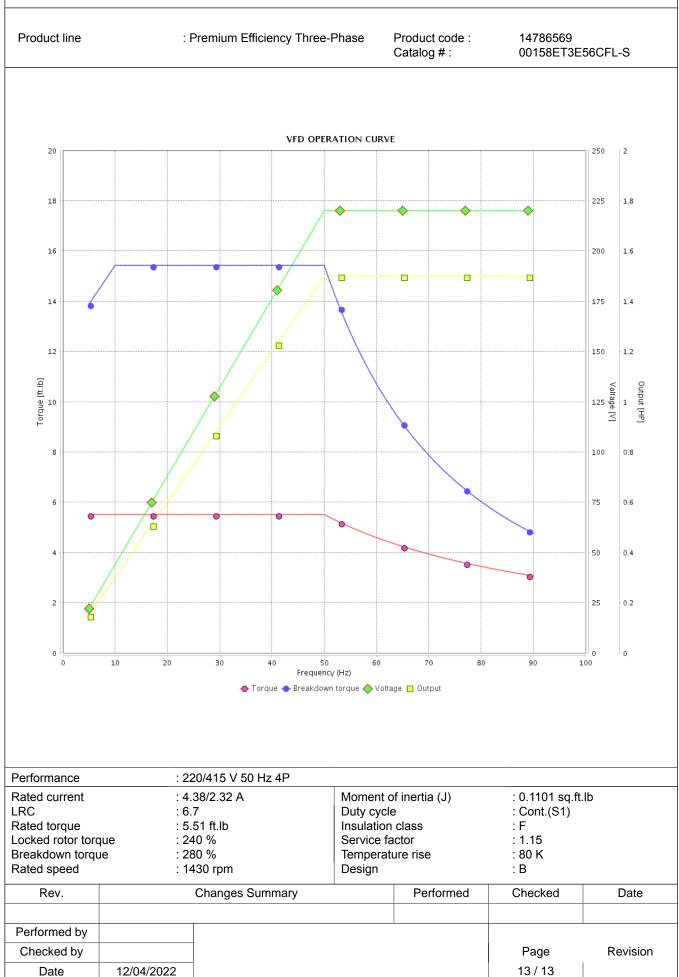


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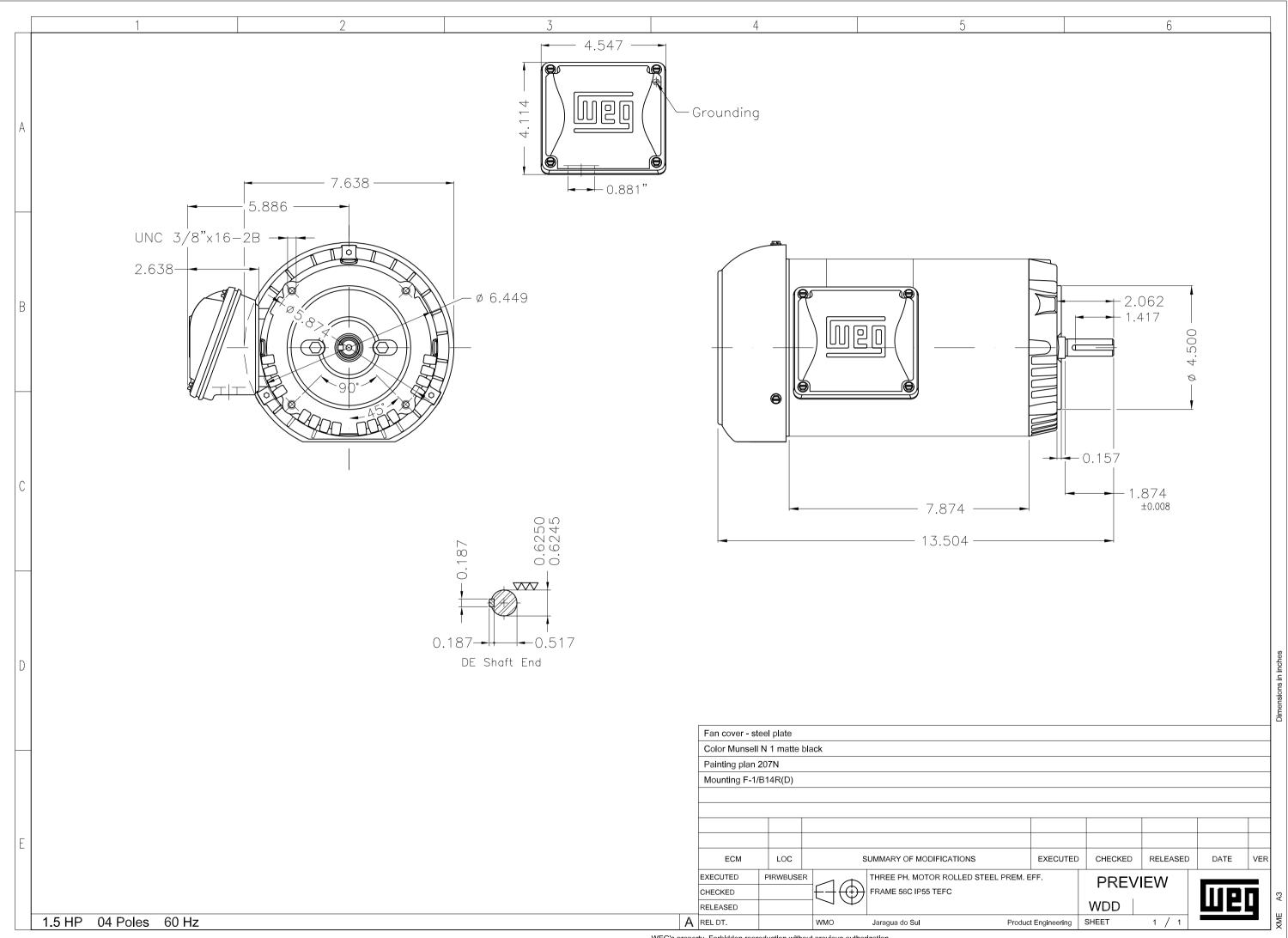
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COUSTED COUSTED COUSTING	For 60H2: Class I, Zone 2, IIC Class I, DIV2, Gr. A,B,C,D - T3 DIV 2 Inverter Duty (5F1.00) CT 2:1/VT 1000:1	3 TAZ BU F 113 50 35 50 114 50 135 50 135 50 <th>INTERCIANCE ANY TWO LIVE WREES TO REVERSE THE ROTATION MAINING. MACHT WARLES TO REVERSE THE ROTATION And national electrical codes to prevent sections electrical above. Disconnect power source before servicibility with load Another and code Reservence of the matter and and any of the forther code codeminent and codes the forther and and and the difference above discription grave. Deconnector 1: allimination areant featured at a machine.</th>	INTERCIANCE ANY TWO LIVE WREES TO REVERSE THE ROTATION MAINING. MACHT WARLES TO REVERSE THE ROTATION And national electrical codes to prevent sections electrical above. Disconnect power source before servicibility with load Another and code Reservence of the matter and and any of the forther code codeminent and codes the forther and and and the difference above discription grave. Deconnector 1: allimination areant featured at a machine.
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