# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage

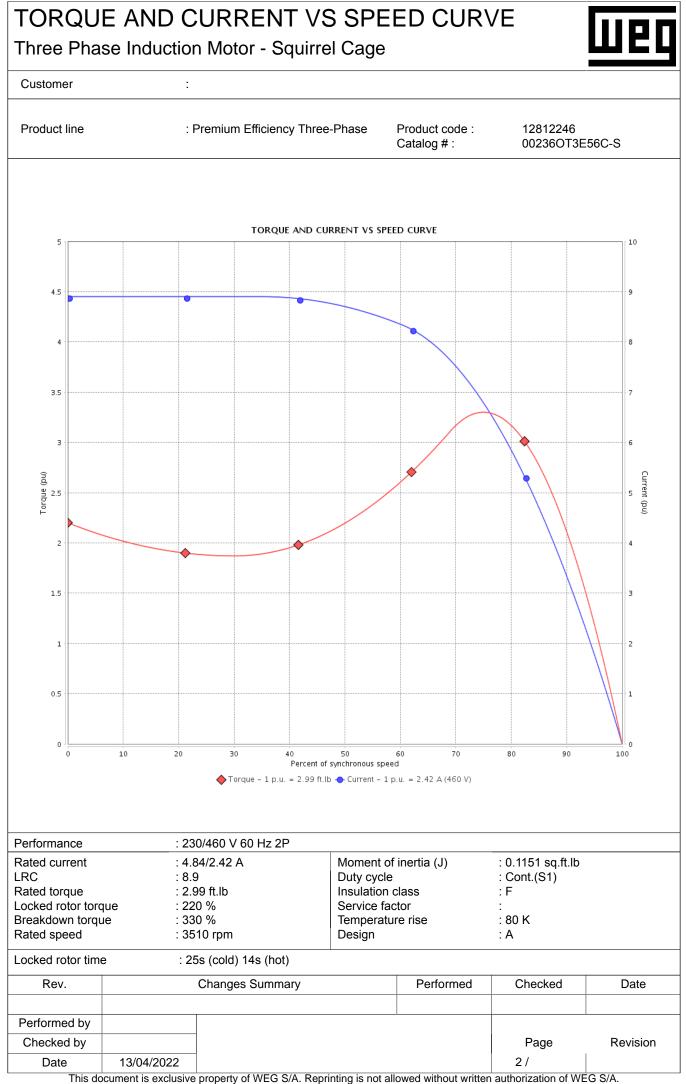
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#### Customer

Product line		: Premium Efficiency Three-Pr	nase Product code : Catalog # :	12812246 00236OT3E56C-S			
Frame Insulation class Duty cycle Ambient tempera Altitude	ature	: 56HC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup>	: F-1 : Both (CW a : Direct On L : 35.8 lb	: Both (CW and CCW) : Direct On Line : 35.8 lb		
Design		: A	Moment of inertia (J)	: 0.1151 sq.f			
Dutput [HP]		2	2				
Poles		2 60	2 50				
requency [Hz] Rated voltage [V]		230/460	190/380				
Rated current [A]		4.84/2.42	5.88/2.94				
. R. Amperes [A]		43.1/21.5	40.6/20.3				
.RC [A]		8.9x(Code K)	6.9x(Code H)				
lo load current [A	1	1.83/0.917	1.81/0.906				
Rated speed [RPN		3510	2890				
Slip [%]		2.50	3.67				
ated torque [ft.lb		2.99	3.63				
ocked rotor torqu		220	180				
Breakdown torque	÷[%]	330	250				
ervice factor			1.15				
emperature rise		80 K	80 K				
ocked rotor time		25s (cold) 14s (hot)	18s (cold) 10s (hot)				
Noise level <sup>2</sup>	050/	62.0 dB(A)	60.0 dB(A)				
	25% 50%	83.7 84.0	86.3   85.4     85.0   84.7     85.1   85.4     83.4   84.3     0.56   0.52				
Efficiency (%)	75%	85.5					
	100%	85.5			And CCW) ine t.lb 2 2 50 0/415 6/2.79 0/21.2 Code J) //0.978 900 3.33 3.62 200 280 1.15 50 K d) 10s (hot) 0 dB(A) 35.4 34.7 35.4 34.7 35.4 34.3 0.52 0.80 0.88 0.92		
	25%	0.49			1.15 80 K bld) 10s (hot) 0.0 dB(A) 85.4 84.7 85.4 85.4 84.3		
	50%	0.77	0.83				
Power Factor	75%	0.86	0.90		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 35.8 lb : 0.1151 sq.ft.lb 2 2 2 50 220/415 5.26/2.79 40.0/21.2 7.6x(Code J) 1.84/0.978 2900 3.33 3.62 200 280 1.15 80 K 18s (cold) 10s (hot) 60.0 dB(A) 85.4 84.7 85.4 84.3 0.52 0.80 0.92 : 81 lb : 117 lb ed on tests with sinusoidal lerances stipulated in NEMA		
	100%	0.91					
Bearing type Sealing Lubrication inter- Lubricant amoun Lubricant type		Drive end Non drive end   6204 ZZ 6202 ZZ   Without Without   Bearing Seal Bearing Seal   - -   - -   Mobil Polyrex EM	Max. traction Max. compression				
must be eliminate (1) Looking the m	aces and can ed. notor from the	cel the previous one, which shaft end.					
USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	aces and can ed. notor from the 1m and with to weight subjec ocess.	cel the previous one, which	power supply, subject to the	ne tolerances stipul	ated in NEMA		
USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	aces and can ed. notor from the 1m and with to weight subjec ocess.	cel the previous one, which shaft end. blerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipul	ated in NEMA		
USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	aces and can ed. notor from the 1m and with to weight subjec ocess.	cel the previous one, which shaft end. blerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipul	ated in NEMA		
USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pri (4) At 100% of ful Rev.	aces and can ed. notor from the 1m and with to weight subjec ocess.	cel the previous one, which shaft end. blerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipul	ated in NEMA		

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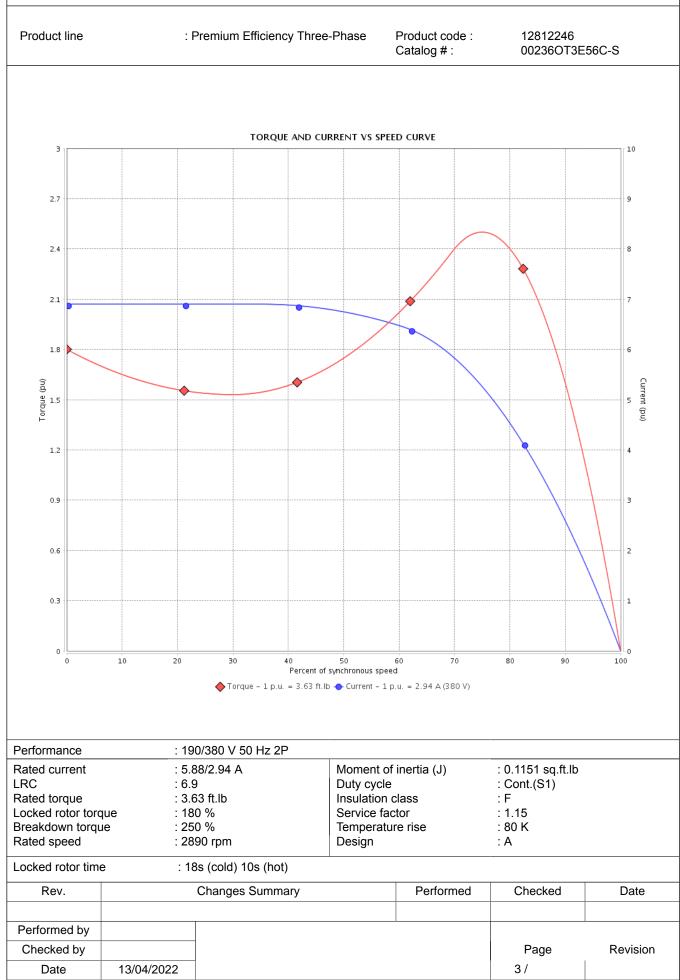
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### TORQUE AND CURRENT VS SPEED CURVE

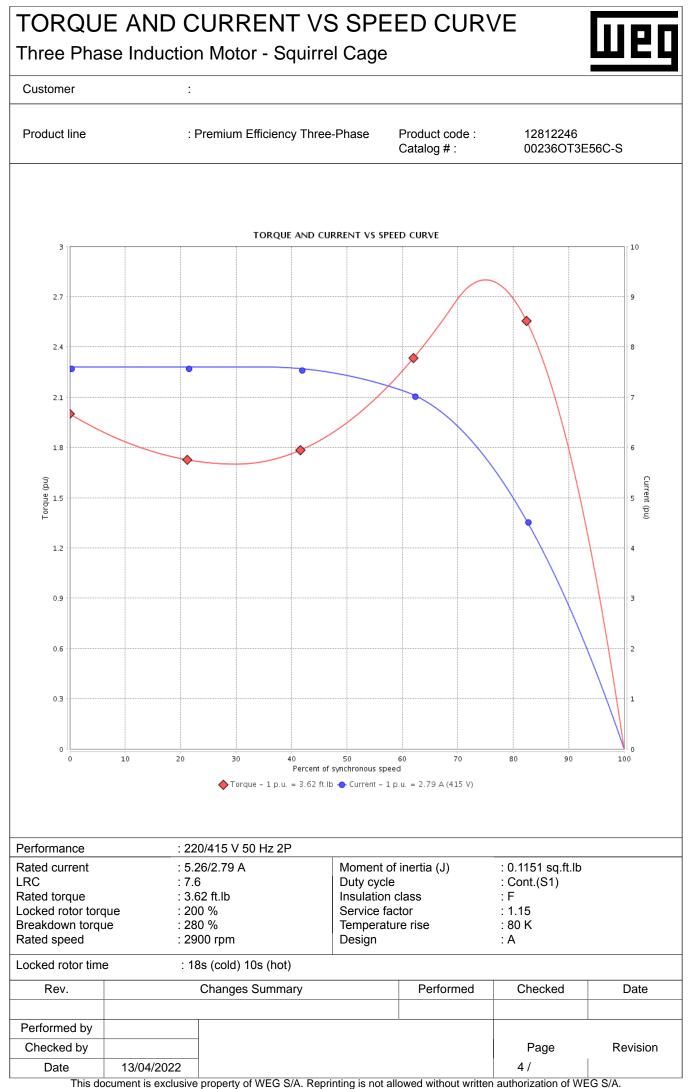
Three Phase Induction Motor - Squirrel Cage

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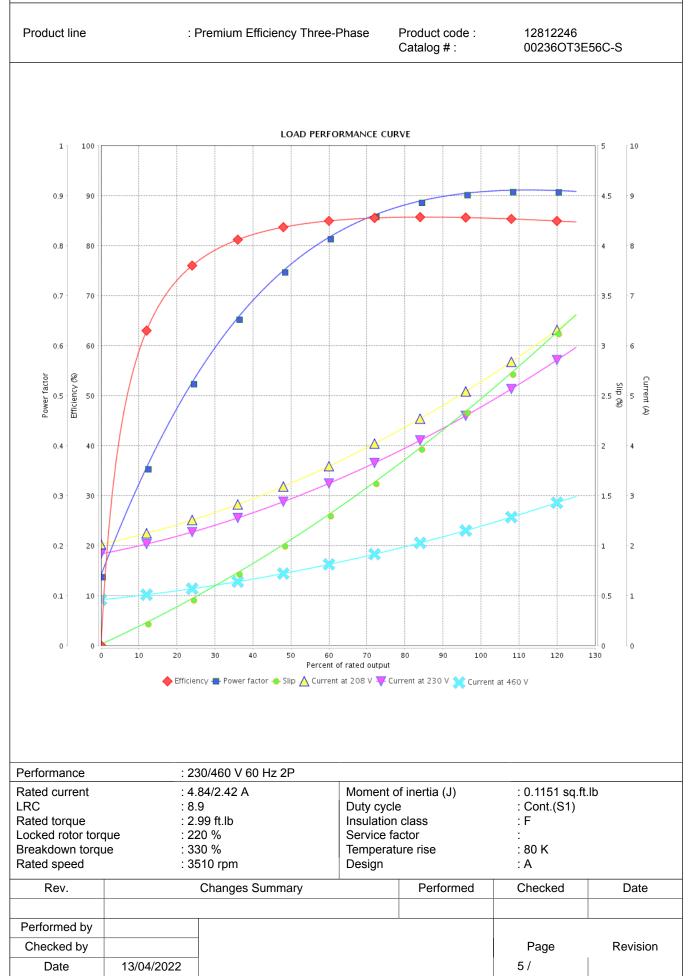
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## LOAD PERFORMANCE CURVE

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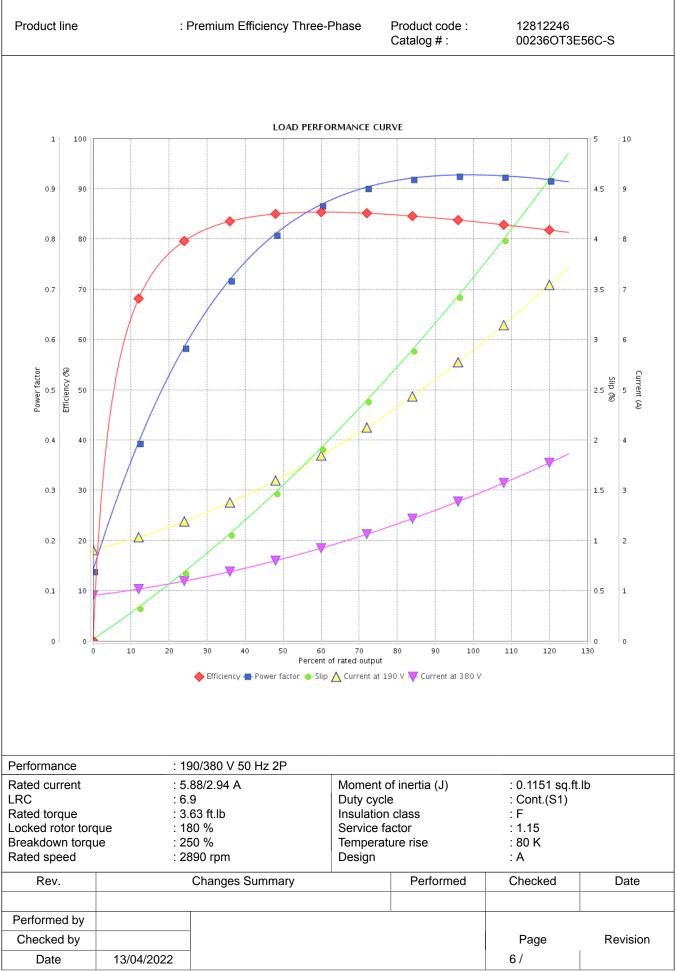
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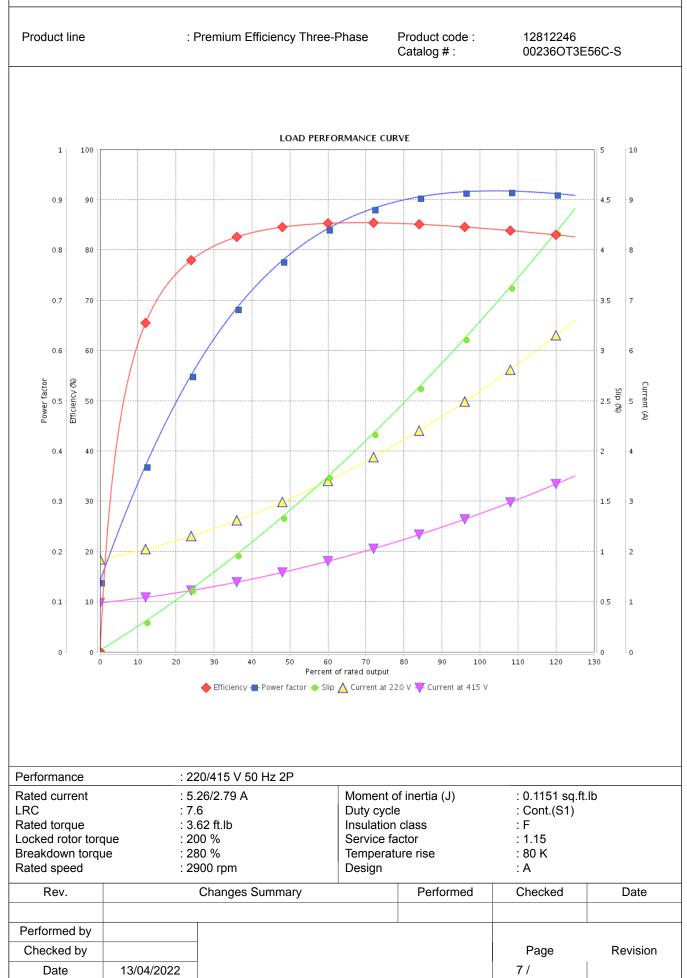
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## LOAD PERFORMANCE CURVE

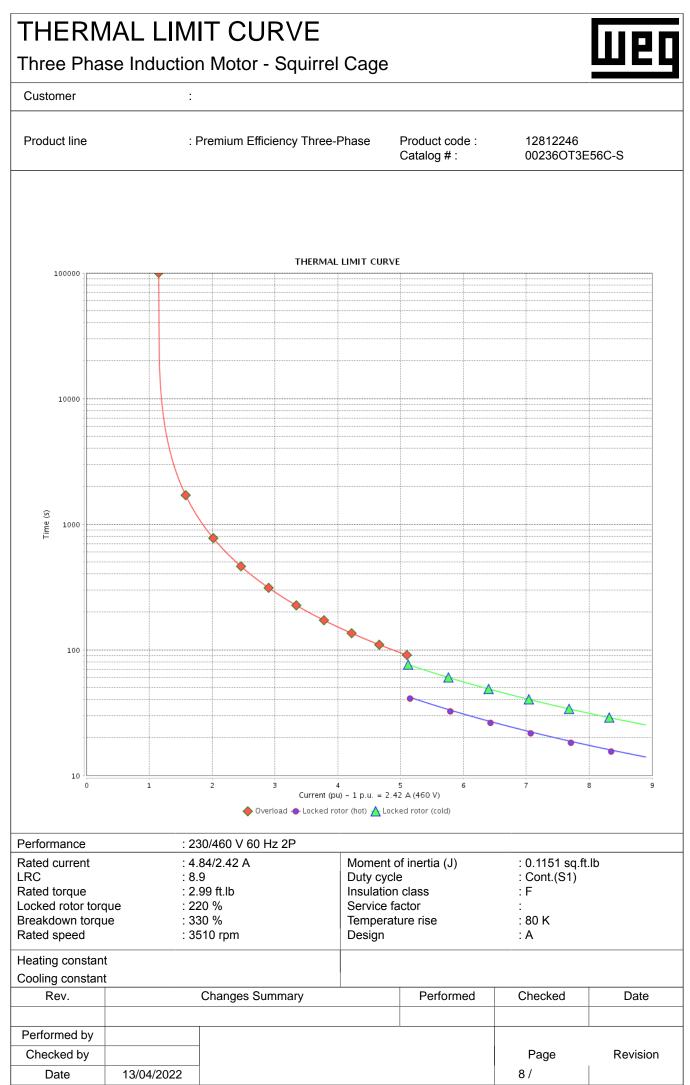
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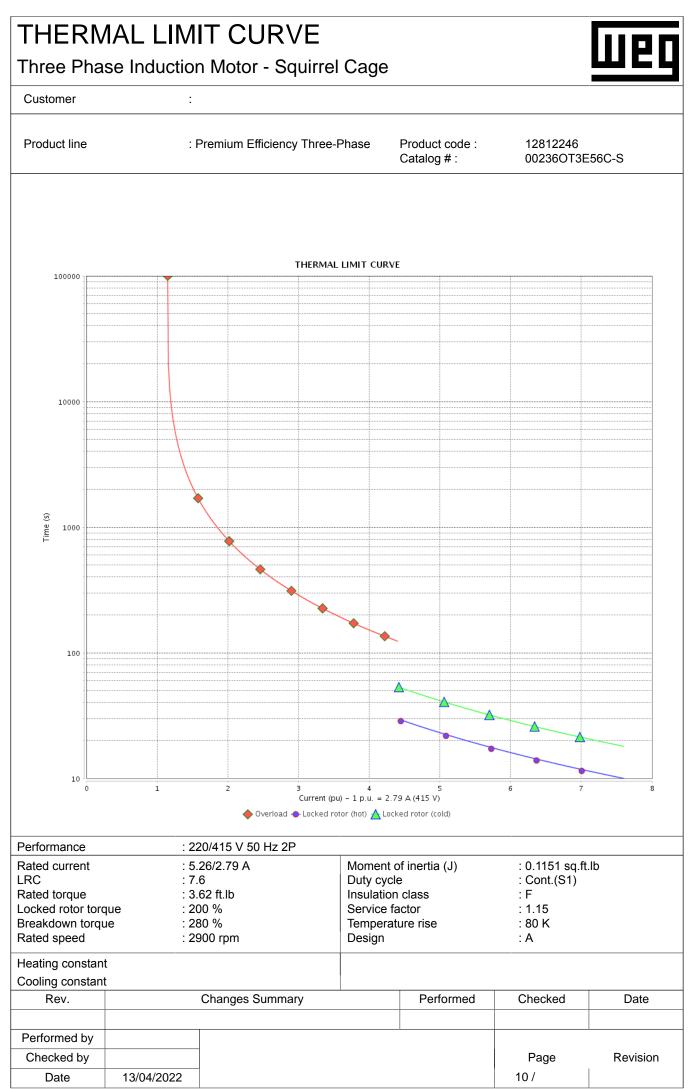
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roduct line	: Premium Efficiency Three-Phase					roduct code : atalog # :	12812246 00236OT3E56C-S		
							002000102		
			THERM	IAL LIMIT CU	<b>RVE</b>				
100000									
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10000									
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ගි 1000									
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100									
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10	1	;	2	3		4 5	6	7	
		•	Current Overload 🔶 Locked	(pu) – 1 p.u. = d rotor (hot) <u> </u> l					
rformance	· 10	)/380 V	50 Hz 2P						
ted current	: 5.8	8/2.94 A				nertia (J)	: 0.1151 sq.ft	.lb	
C ted torque	: 6.9 : 3.6	3 ft.lb		Duty cy		lass	: Cont.(S1) : F		
ocked rotor torque : 180 % reakdown torque : 250 %				Service factor : 1.15 Temperature rise : 80 K					
ted speed		90 rpm		Design			: A		
ating constant									
oling constant									

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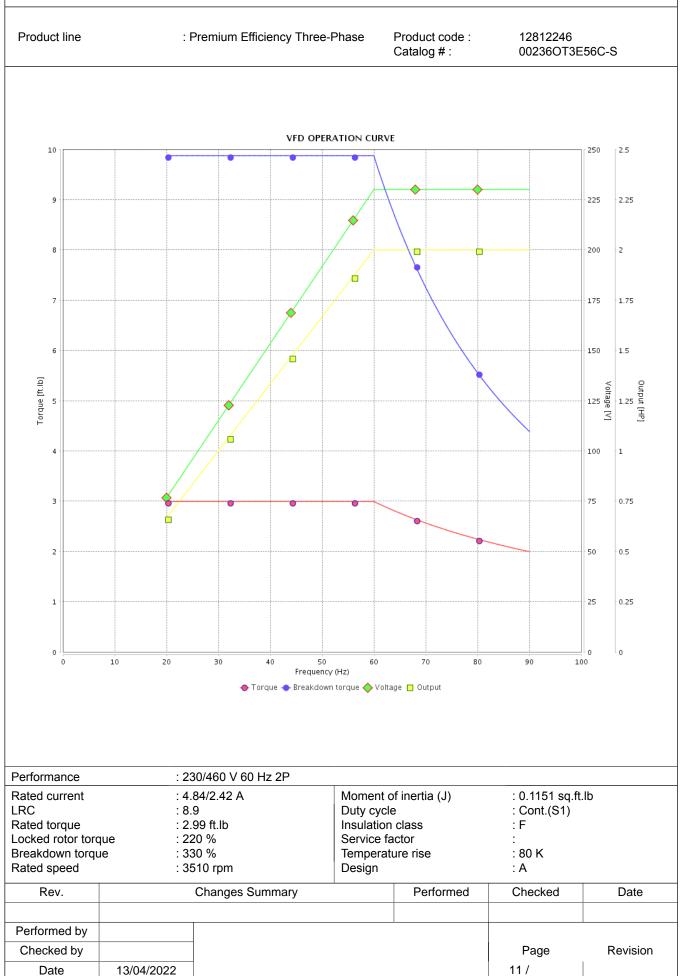
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### VFD OPERATION CURVE

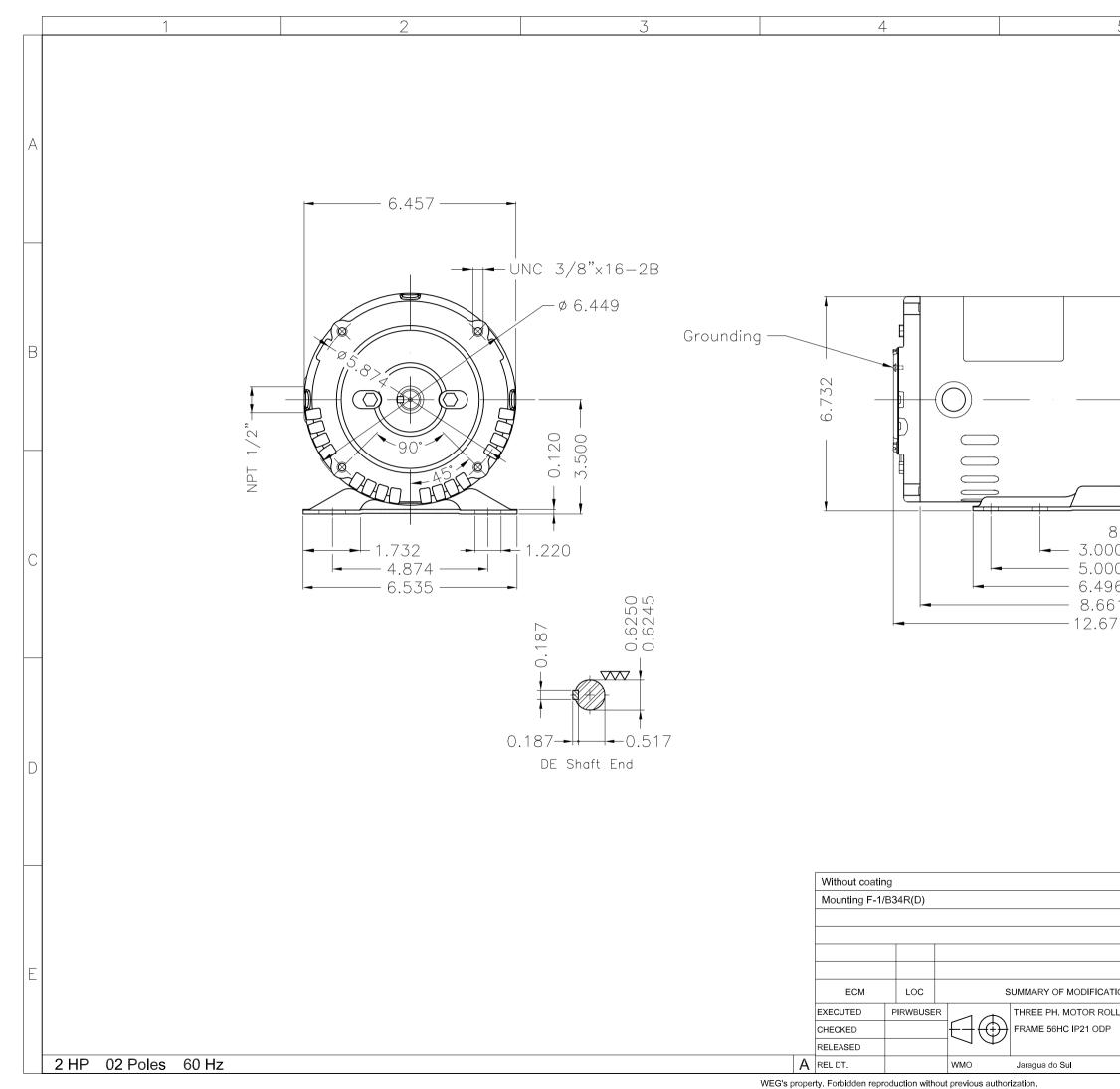
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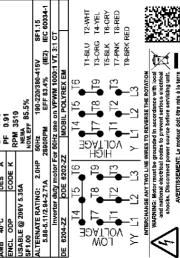
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VALUE STEEL PREM EFF. PREVIEW 1.417 0 1.417 0 1.417 0 1.417 0 1.874 ±0.008 1.874 ±0.008 0 1.874 ±0.008 0 0 0 0 0 0 0 0 0 0 0 0 0	5			6		
	0		).157	874		Dimensions in inches
Product Engineering SHEET 1 / 1	Product	t Engineering		1 / 1	ШР	XME A3



		HP 2.0	kW 1.5	V 230/460	-		SF 1.15	DDM 9540	NEMA OF TO	NOM. EFF 89-3%	50Hz 190-220/380-41	2890RPM EFF 83.4%	Inverter duty motor For 80Hz use on VPWM 1000:	MODIL DOI VOEV EN
E56C-S	÷	60					DES A	CODE K	iA		: 2.0HP		ty motor Fol	77 CACA 700
MODEL 00236013E56C-S	18MAR2022 B/N:	3 Hz 60	56HC	DUTY CONT.	1000 m.a.s.l	INS CL F AT 80K	40°C	ODP	JSABLE @ 208V 5.35A		ALTERNATE RATING:	5.88-5.11/2.94-2.71A	Inverter du	
Ö	18MA	H	Æ	γTUO	ALT	INS CL	AMB	ENCL ODP	USABL	SF1.00	ALTER	5.5		77 A0C4 77



rentation avant l'entretien de la machine

ux et nationaux afin d'éviter tout

conformément aux codes électriques loc

chos électrique grave. Déconnectez l'alli