# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage

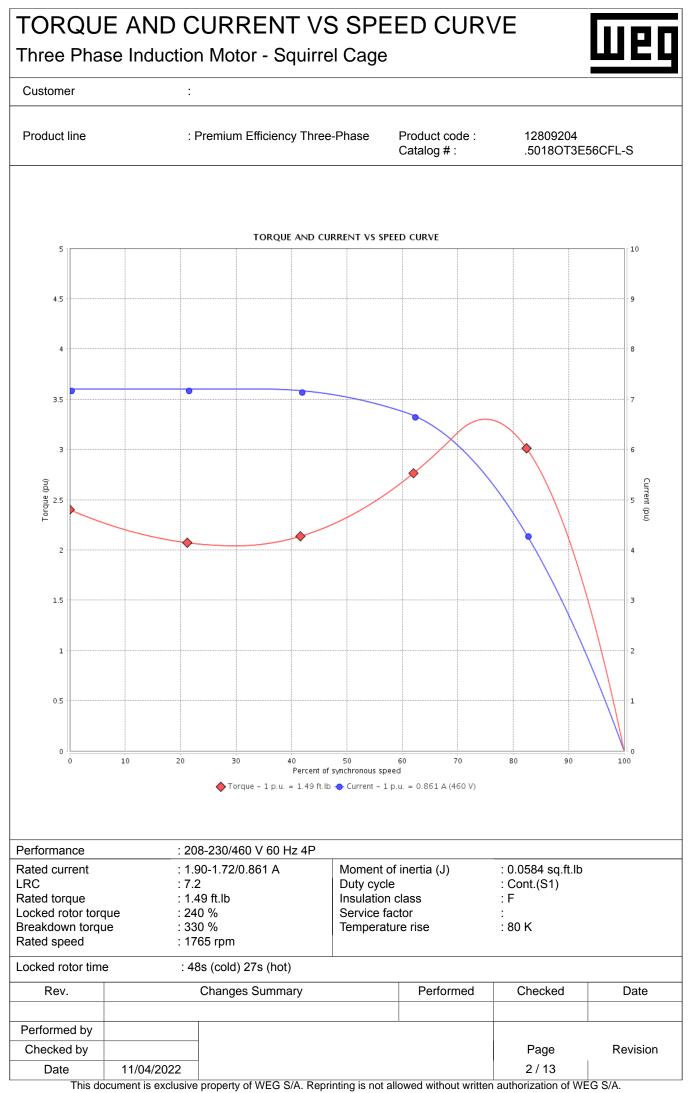
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#### Customer

Product line		: Premium Efficiency Three-Ph	nase Product code : Catalog # :	12809204 .5018OT3E50	6CFL-S				
Frame Insulation class Duty cycle Ambient tempera Altitude	ature	: 56C : 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> Moment of inertia (J)	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 20.8 lb : 0.0584 sq.ft.lb					
Dutput [HP]		0.5	0.5		).5				
Poles		4	4		4				
requency [Hz]		60	50		50				
Rated voltage [V]		208-230/460	190/380	220	)/415				
Rated current [A]		1.90-1.72/0.861	1.89/0.943		/0.948				
R. Amperes [A]		13.7-12.4/6.20	10.9/5.47	10.9/5.78					
RC [A]	-	7.2x(Code L)	5.8x(Code J)	6.1x(Code K)					
No load current [A		1.12-1.30/0.650	1.23/0.617	1.29/0.683					
Rated speed [RPI	VIJ	1765	1450	1455					
Slip [%] Rated torque [ft.lb	1	1.94 1.49	3.33 1.81		3.00				
Locked rotor torqu		240	1.01		1.80				
Breakdown torque		330	260		90				
Service factor	· [ / v]		1.25		.25				
Temperature rise		80 K	80 K		0 K				
Locked rotor time		48s (cold) 27s (hot)	55s (cold) 31s (hot)		l) 28s (hot)				
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)		dB(A)				
	25%	67.5	71.5	68.9					
Efficiency (%)	50%	70.0	72.6	7	0.6				
	75%	75.5	76.6		75.7				
	100%	78.2	77.4		77.2				
	25%	0.26	0.31		0.28				
Power Factor	50%	0.47	0.55		0.51				
	75% 100%	0.60 0.69	0.68 0.77		0.64				
	100%			0	0.75				
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		Drive end       Non drive end         6203 ZZ       6202 ZZ         Without       Without         Bearing Seal       Bearing Seal         -       -         -       -         -       -         -       -         -       -         Mobil Polyrex EM	Foundation loads Max. traction Max. compression	: 41 lb : 61 lb					
Notes USABLE @208V	′ SF 1.00								
	ed.	cel the previous one, which	These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEM/MG-1.						
	1m and with to weight subject ocess.	snatt end. blerance of +3dB(A). t to changes after							
<ol> <li>Looking the m</li> <li>Measured at 7</li> <li>Approximate m</li> <li>Manufacturing pr</li> </ol>	1m and with to weight subject ocess.	plerance of +3dB(A).	Performed	Checked	Date				
(1) Looking the m (2) Measured at 4 (3) Approximate w manufacturing pr (4) At 100% of fu Rev.	1m and with to weight subject ocess.	blerance of +3dB(A). t to changes after	Performed	Checked	Date				
(1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pr (4) At 100% of fu Rev. Performed by	1m and with to weight subject ocess.	blerance of +3dB(A). t to changes after	Performed						
(1) Looking the m (2) Measured at ( (3) Approximate w manufacturing pr (4) At 100% of fu Rev.	1m and with to weight subject ocess.	blerance of +3dB(A). t to changes after	Performed	Checked	Date				

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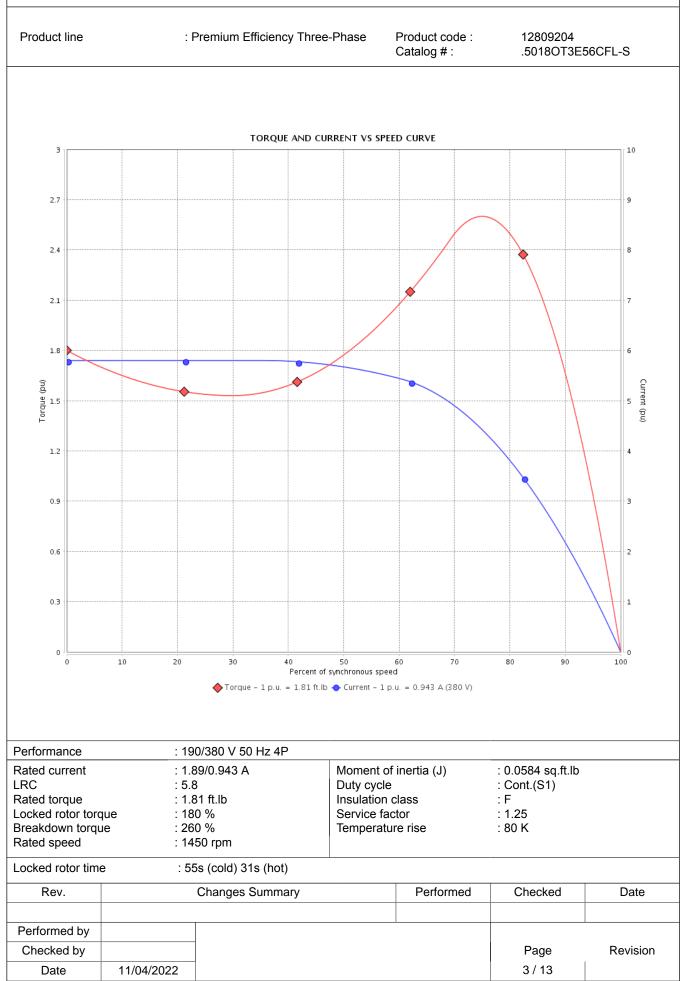
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### TORQUE AND CURRENT VS SPEED CURVE

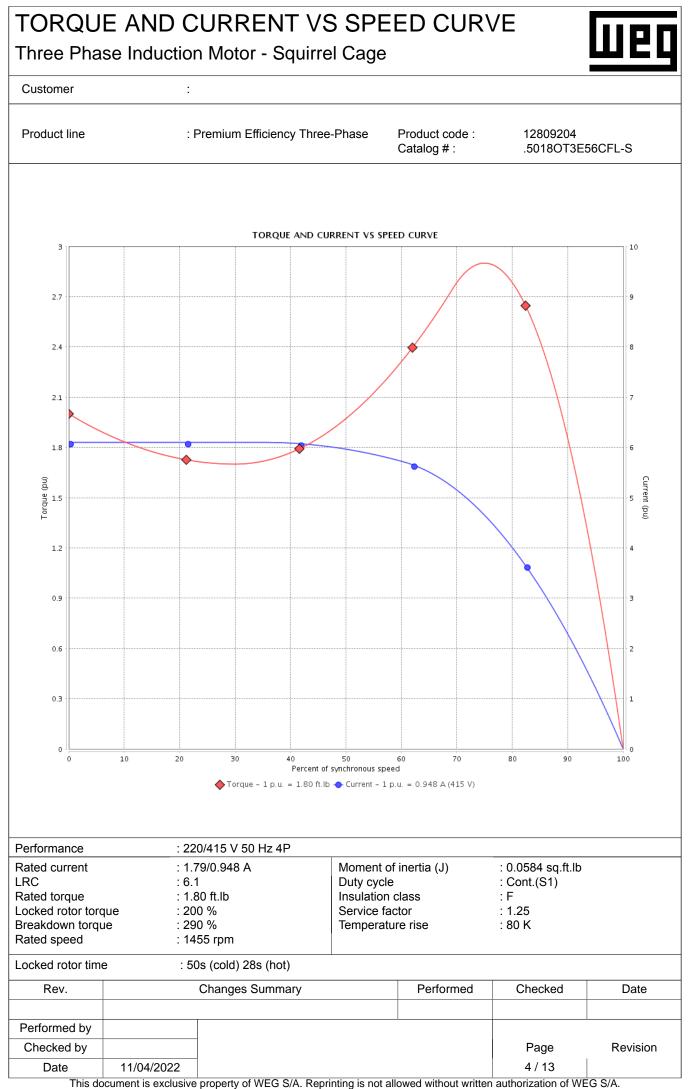
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Customer



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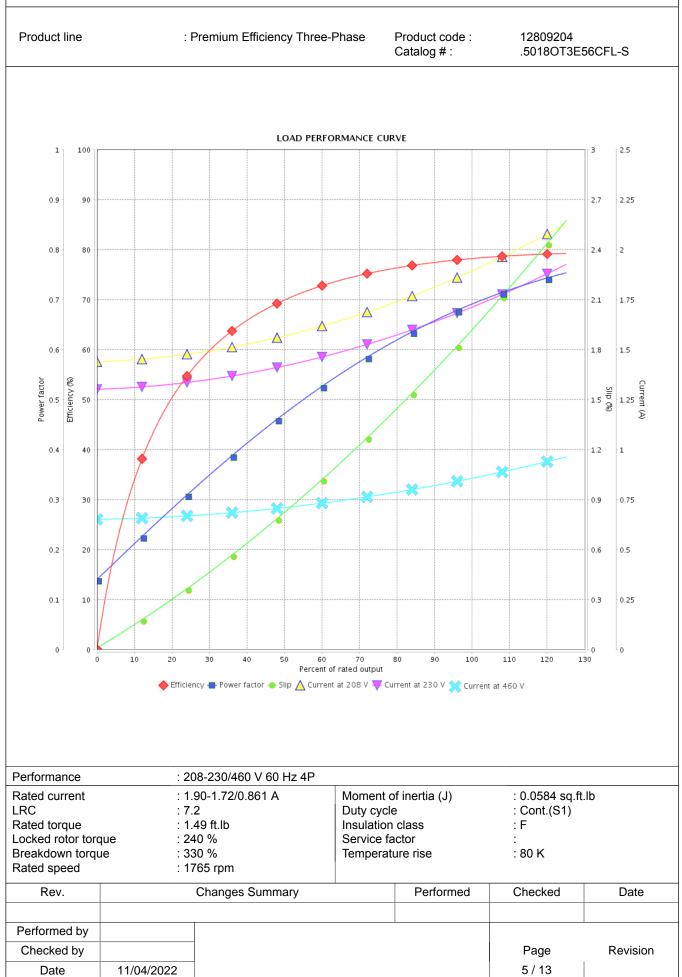


## LOAD PERFORMANCE CURVE

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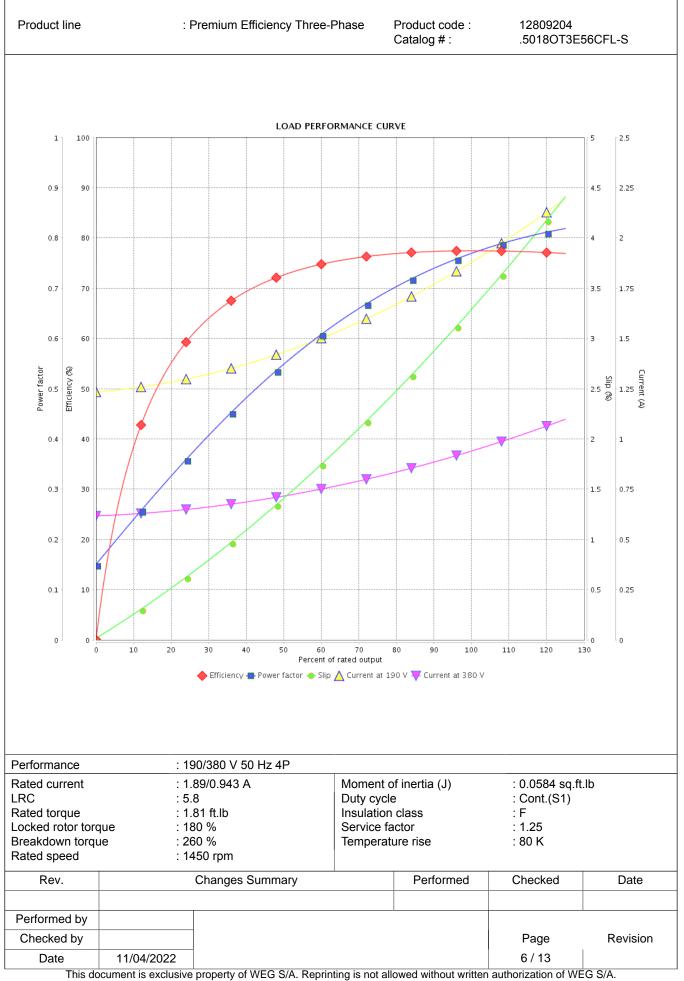
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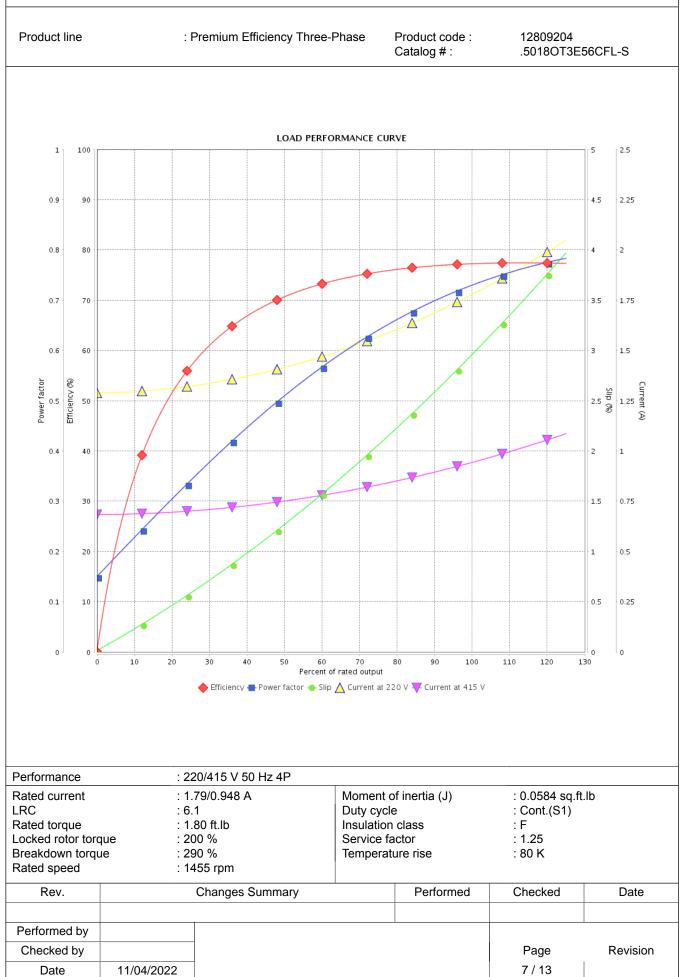


## LOAD PERFORMANCE CURVE

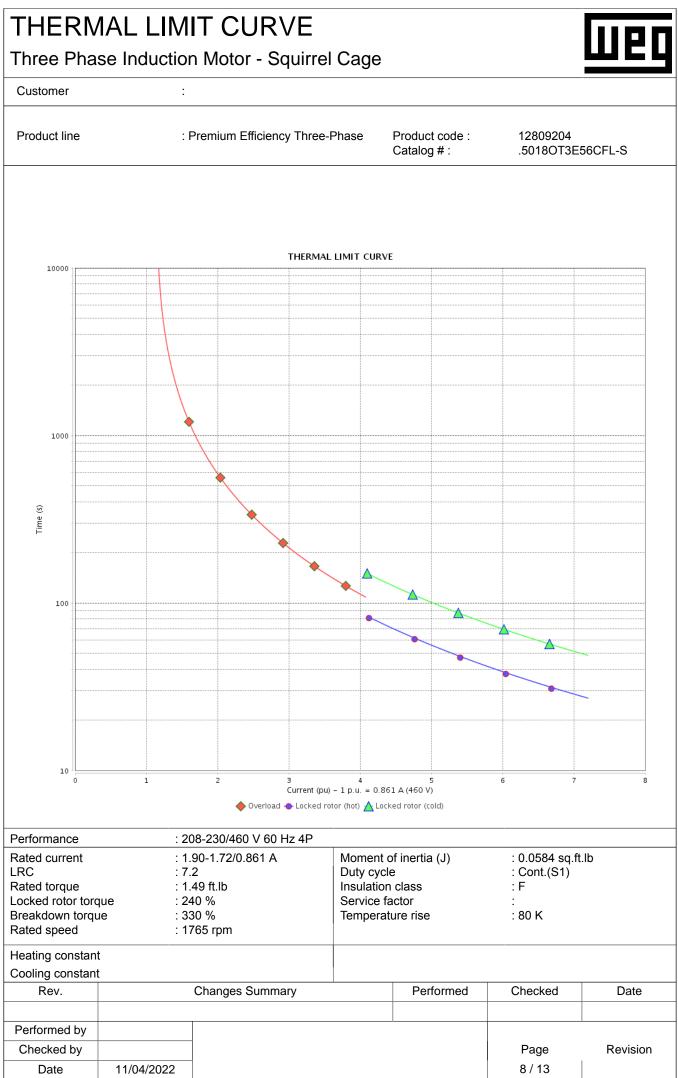
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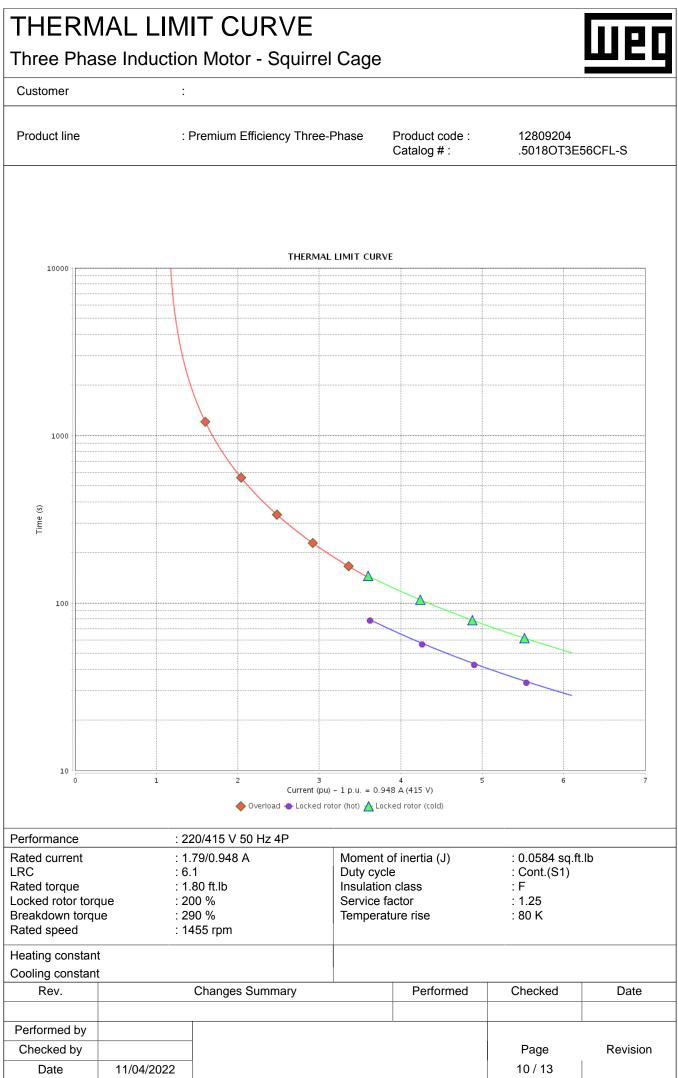
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Customer	:								
Product line	:1	Premium Efficiency	Three-Phase		uct code : log # :	12809204 .5018OT3E	56CFL-S		
		-							
10000			HERMAL LIMIT C						
-		<u>}</u>							
		-							
1000		•							
1000									
Time (s)									
Ē									
-									
100									
10									
0	1		3 Irrent (pu) – 1 p.u. = Locked rotor (hot) 🖌			5	6		
erformance	• 10	90/380 V 50 Hz 4P							
ated current	: 1.	89/0.943 A		ent of iner	tia (J)	: 0.0584 sq.ft	.lb		
RC ated torque	: 5. · 1	8 81 ft.lb	Duty			: Cont.(S1) : F			
ocked rotor toro	jue : 18	30 %	Servi	ce factor		: 1.25			
eakdown torqu ated speed		60 % 150 rpm	Temp	erature ris	se	: 80 K			
eating constant ooling constant									
Rev.		Changes Summary			erformed	Checked	Date		

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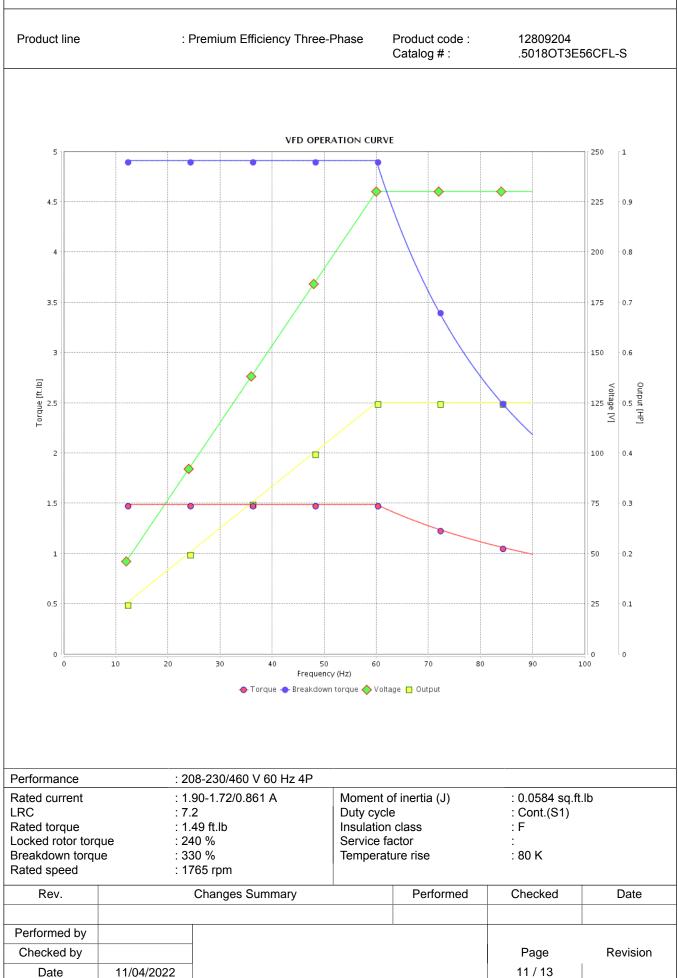
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## VFD OPERATION CURVE

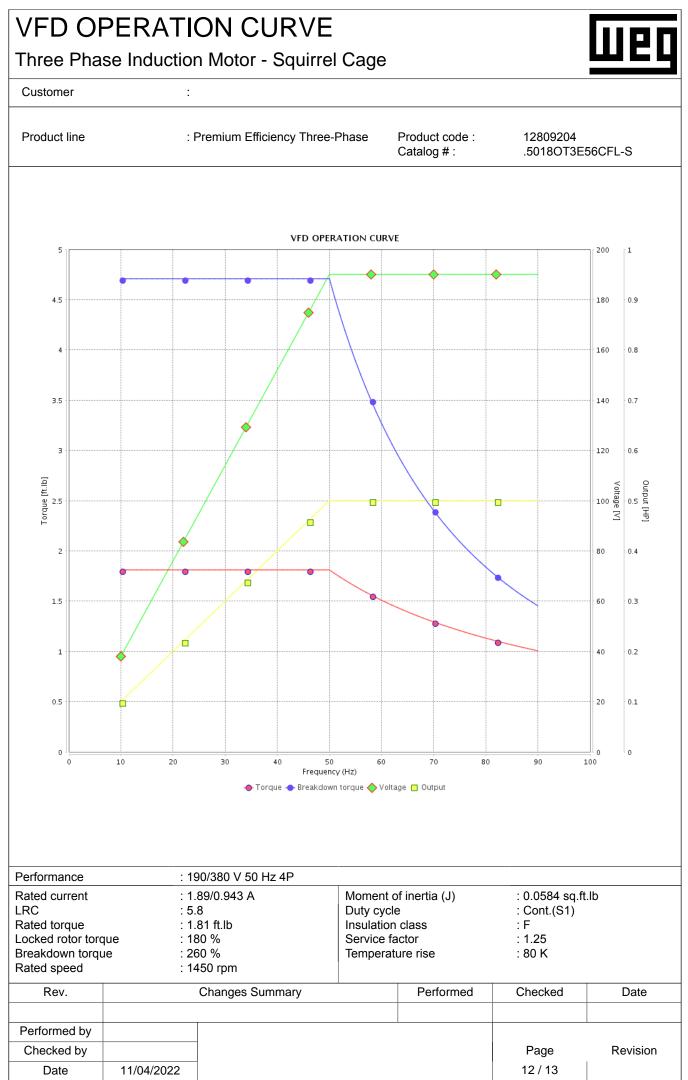
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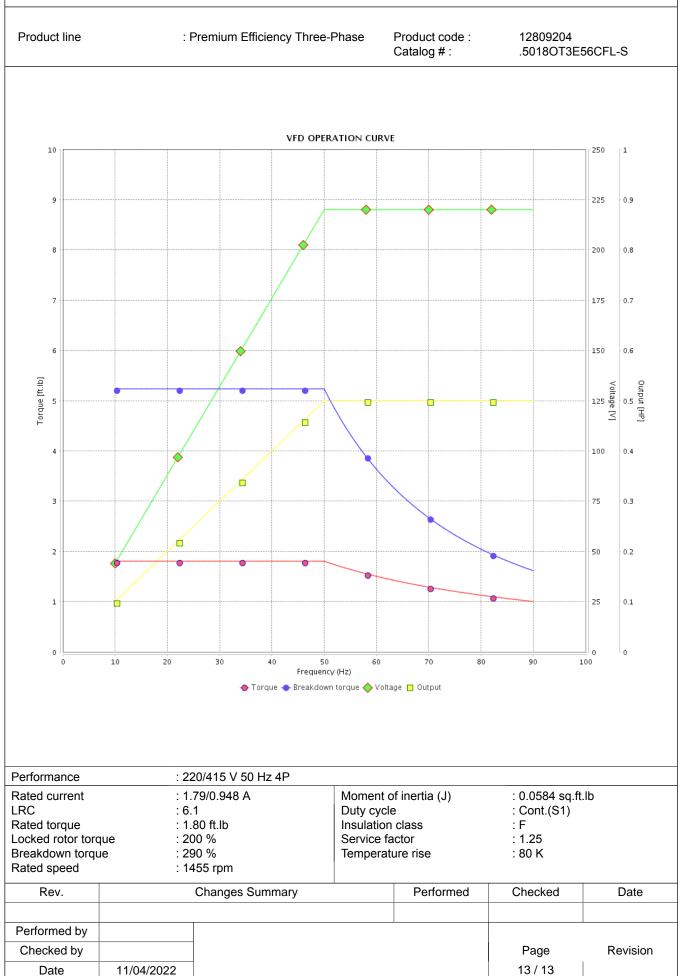
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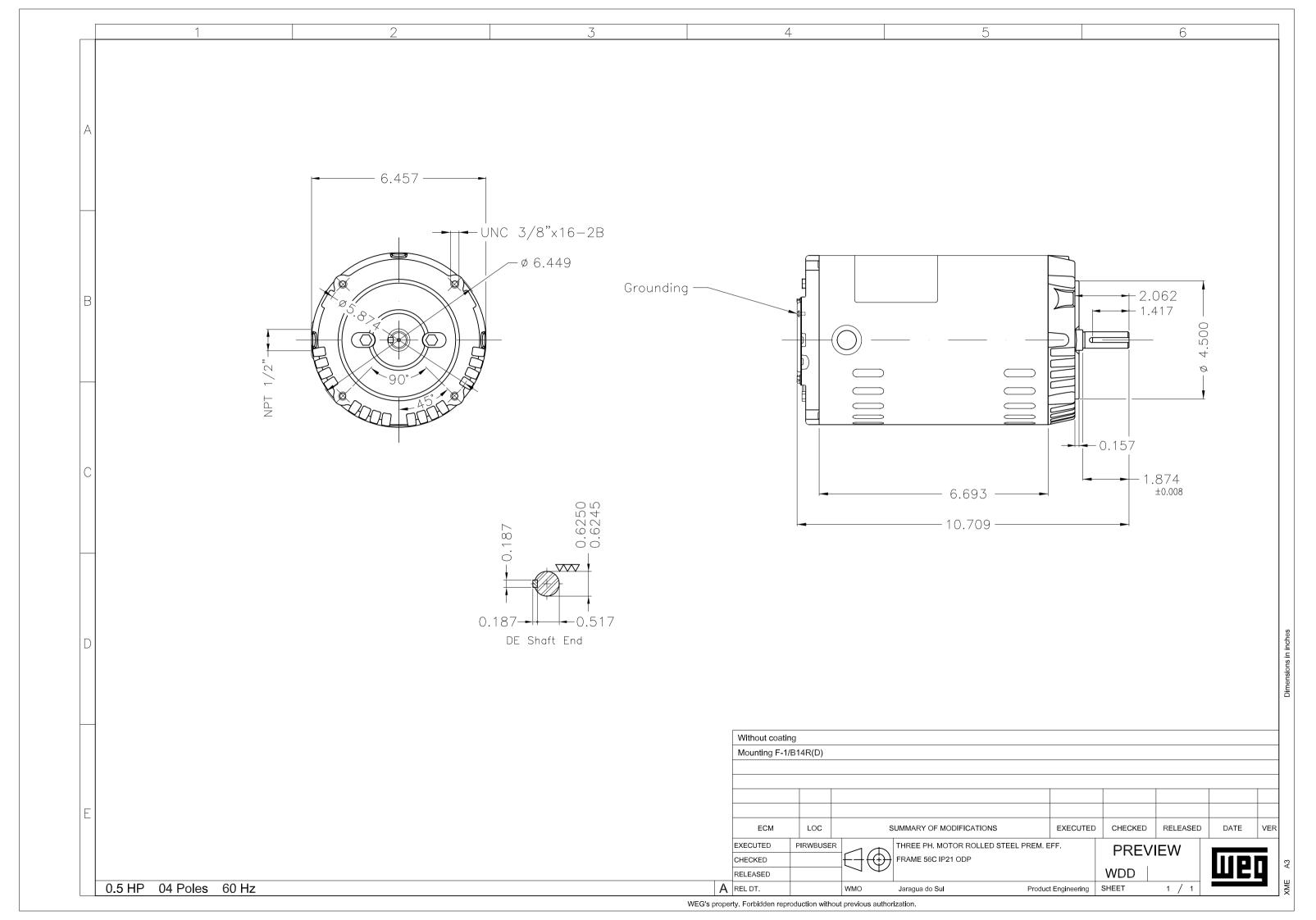
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	CE		KW 0.37 V 230/460		-	DE 0.60		_	50Hz 190-220/380-415V SF1.25	W	Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT	MOBIL POLYREX EM	T4 T5 T6	T1-BLU	 O T1 T2 T3 T5-BLK T6-GRY	YLI L2 L3 T9-BRK RED	RES TO REVERSE THE ROTATION HER	WARNING. More must be grounded in accordance with local and national electrical process to prove restrote sciences (APA and stocks. Disconnect power source before servicing unit.	AVERTISSEMENT: Le moteur doit ête mis à la terre <b>de la terre doit</b> odes électriques locaux et nationaux afin d'éviter tout e. Déconnectez l'allimentation avant l'entretien de la machine.
LLED Remium	MADE IN MEXICO MAT: 12809204 W01.TO0IC0X0X MODFI 50180T3F56CFI -S	23MAR2022 B/N:	FR 56C DUTY CONT.	ALT 1000 m.a.s.l	INS CL F AT 80K	AMB 40°C DES -	ENCL ODP CODE L	USABLE @ 208V 1.90A	ALTERNATE RATING: 0.50HP	A9A	Inverter duty motor For	DE 6203-ZZ ODE 6202-ZZ	T4 T5 T6				INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION	WARNING: Motor must be grou and national electrical codi shocks. Disconnect powe	AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codre électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnecter l'alimentation avant l'entrefen de la machine.