DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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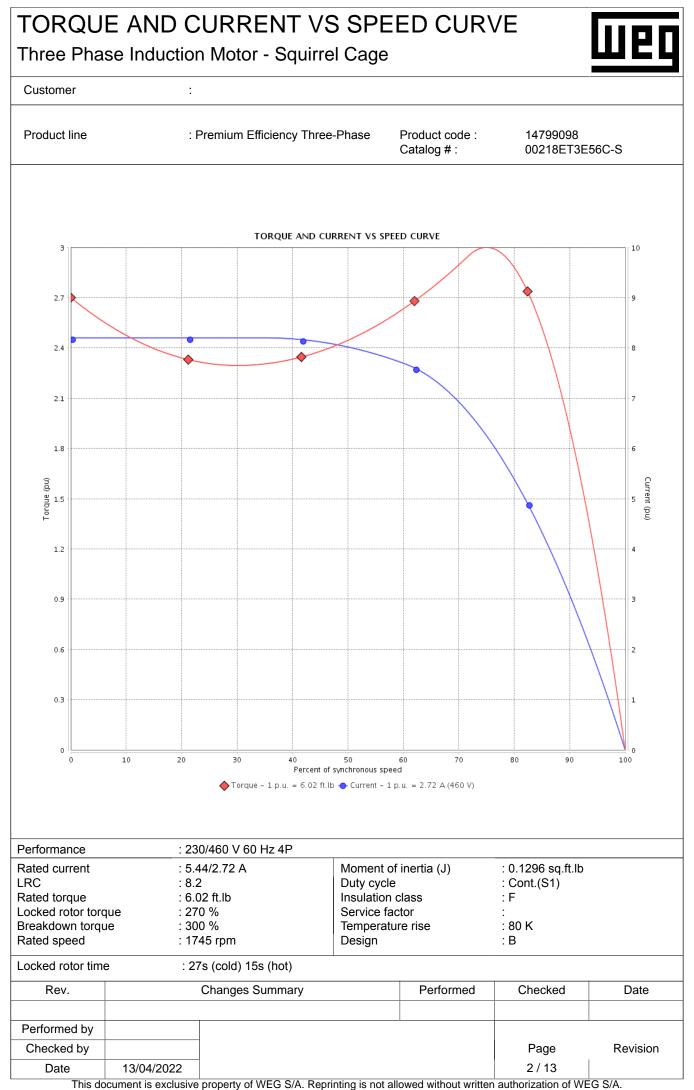


Product line		: Premium Efficiency Three-P	hase Product code : Catalog # :	14799098 00218ET3E56C-S	
Frame		: 56HC	Cooling method	: IC411 - TEFC	
Insulation class		: F	Mounting	: F-1	
Duty cycle		: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line	
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 42.8 lb	
Protection degree		: IP55	Moment of inertia (J)	: 0.1296 sq.ft.lb	
Design		: B		·	
Output [HP]		2	2	2	
Poles		4	4	4	
Frequency [Hz] Rated voltage [V]		60 230/460	50 190/380	50 220/415	
Rated current [A]		5.44/2.72	6.50/3.25	5.89/3.12	
L. R. Amperes [A]		44.6/22.3	39.0/19.5	39.4/20.9	
LRC [A]		8.2x(Code K)	6.0x(Code H)	6.7x(Code J)	
No load current [A	1	2.80/1.40	2.75/1.37	2.87/1.52	
Rated speed [RPN	-	1745	1415	1425	
Slip [%]	1	3.06	5.67	5.00	
Rated torque [ft.lb]		6.02	7.42	7.37	
Locked rotor torqu		270	210	240	
Breakdown torque		300	240	270	
Service factor	r,.1		1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		27s (cold) 15s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot	
		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	86.0	87.1	86.0	
	50%	85.5	85.4	84.9	
Efficiency (%)	75%	87.5	84.9	85.2	
	100%	86.5	82.6	83.6	
	25%	0.35	0.42	0.38	
	50%	0.60	0.68	0.64	
Power Factor	75%	0.73	0.80	0.76	
	100%	0.80	0.85	0.83	
		Drive end Non drive end		0.00	
Bearing type		: 6204 ZZ 6202 ZZ		: 174 lb	
Sealing		: V'Ring Without	Max. traction	: 217 lb	
Sealing		Bearing Seal	Max. compression	. 217 10	
Lubrication interv	val				
Lubricant amoun		· ·			
Lubricant type		: Mobil Polyrex EM			
Notes					
USABLE @208V	6.02A SF 1.0	00 SFA 6.02A			
This revision repla must be eliminate (1) Looking the m	d.	cel the previous one, which		s based on tests with sinusoid he tolerances stipulated in NE	
	m and with to veight subjec ocess.	plerance of +3dB(A).			
Rev.		Changes Summary	Performed	Checked Date	
Performed by					
Checked by				Page Revisio	
Date	13/04/2022	<u> </u>		1/13	
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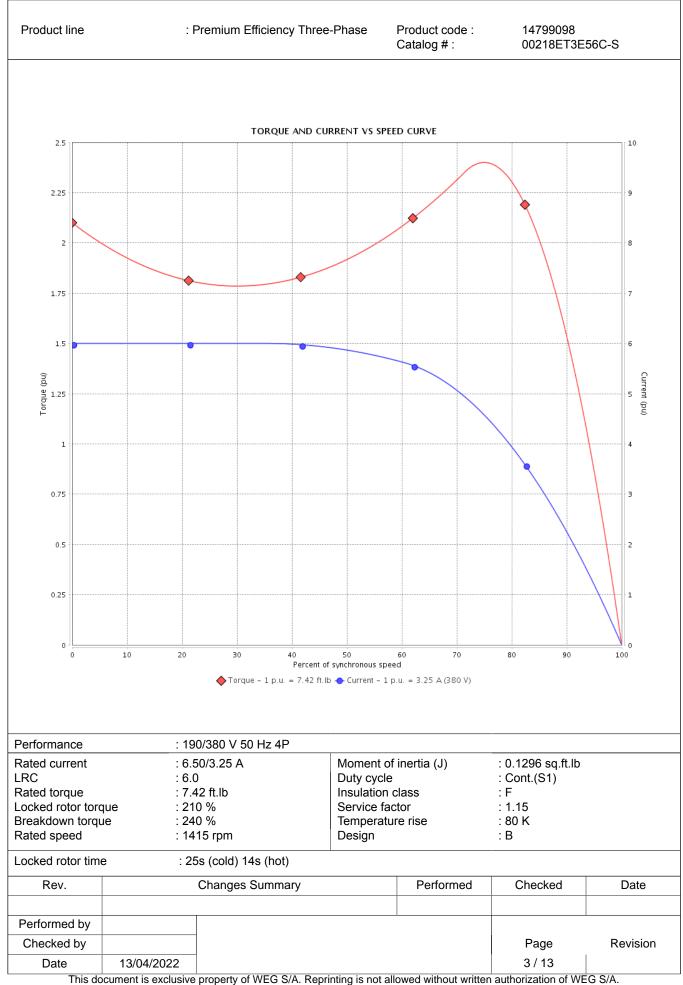
TORQUE AND CURRENT VS SPEED CURVE

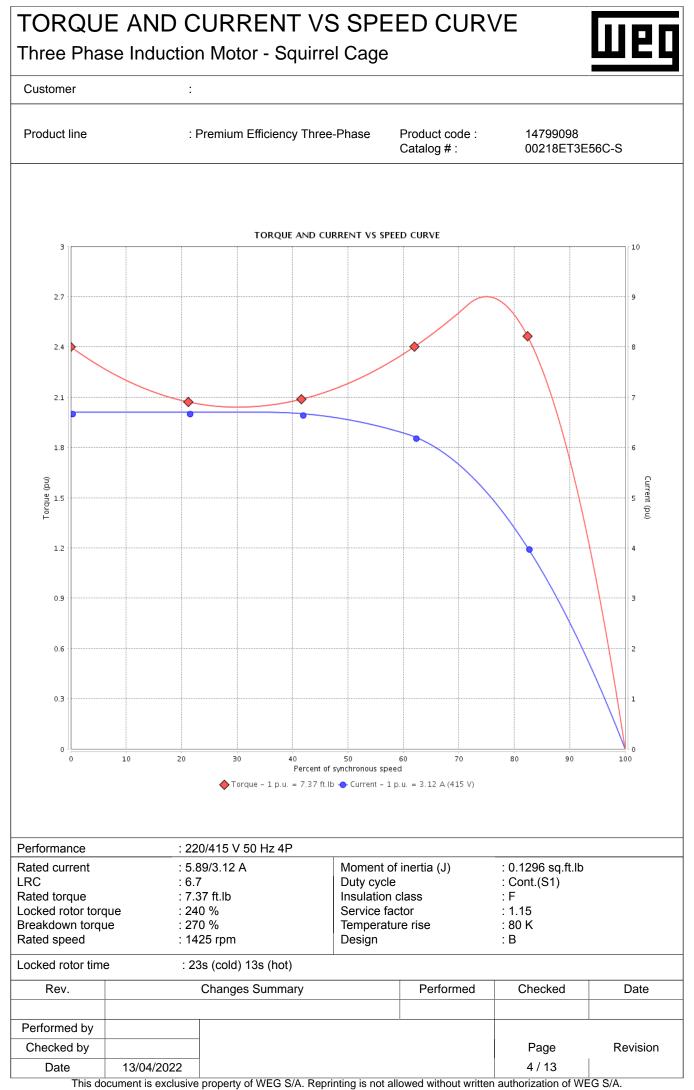
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Customer





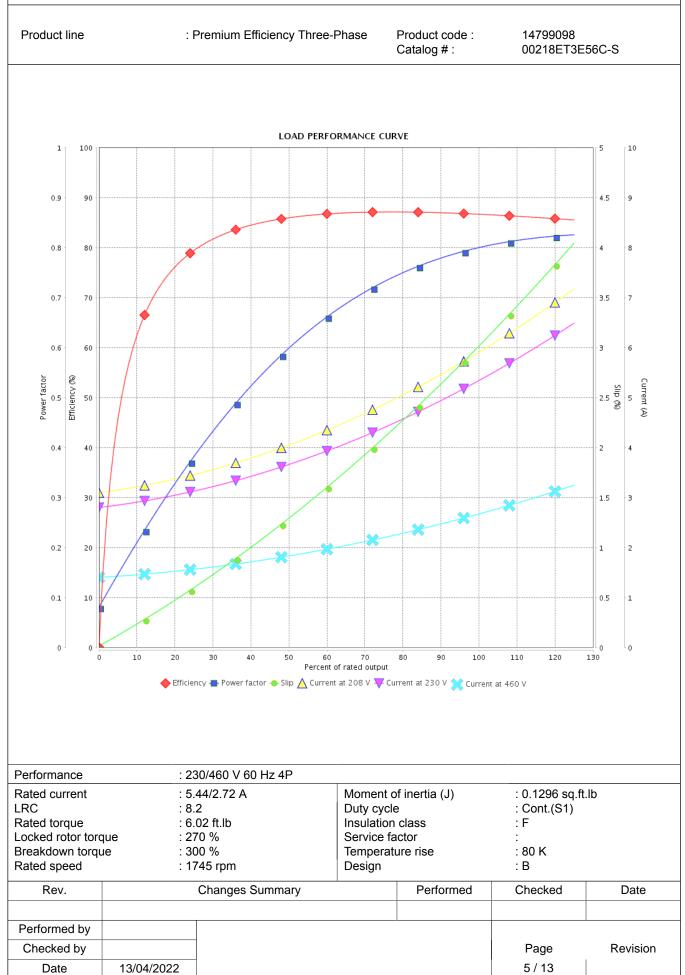
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LOAD PERFORMANCE CURVE

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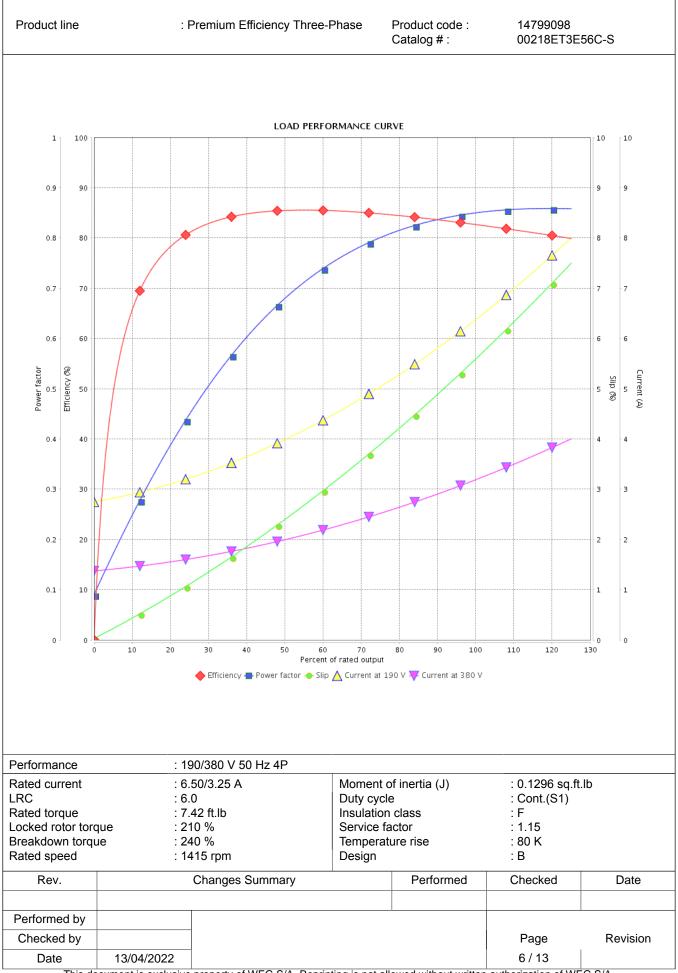
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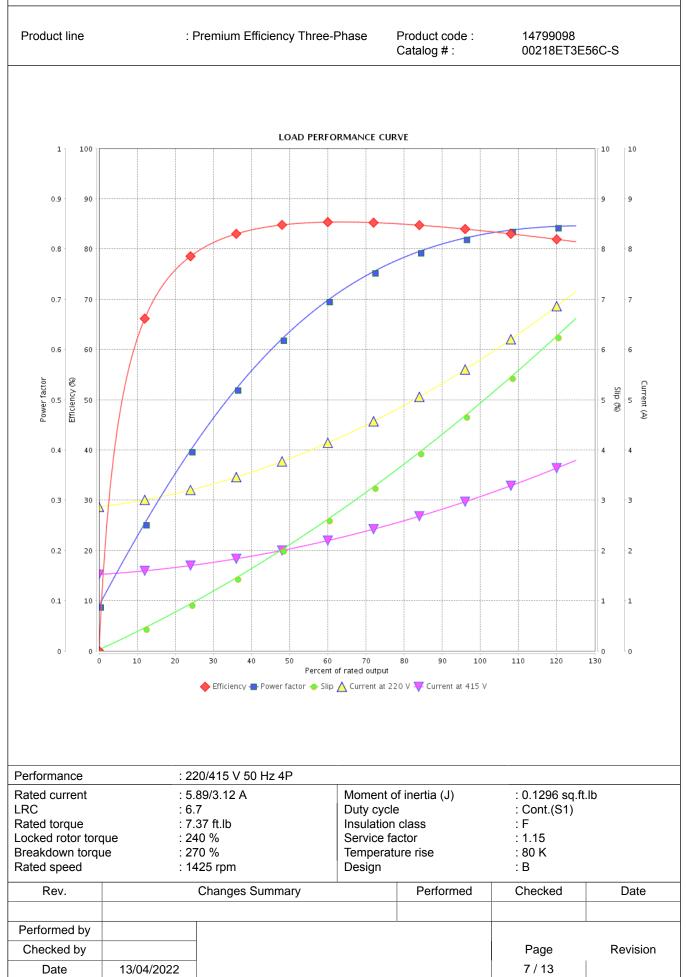
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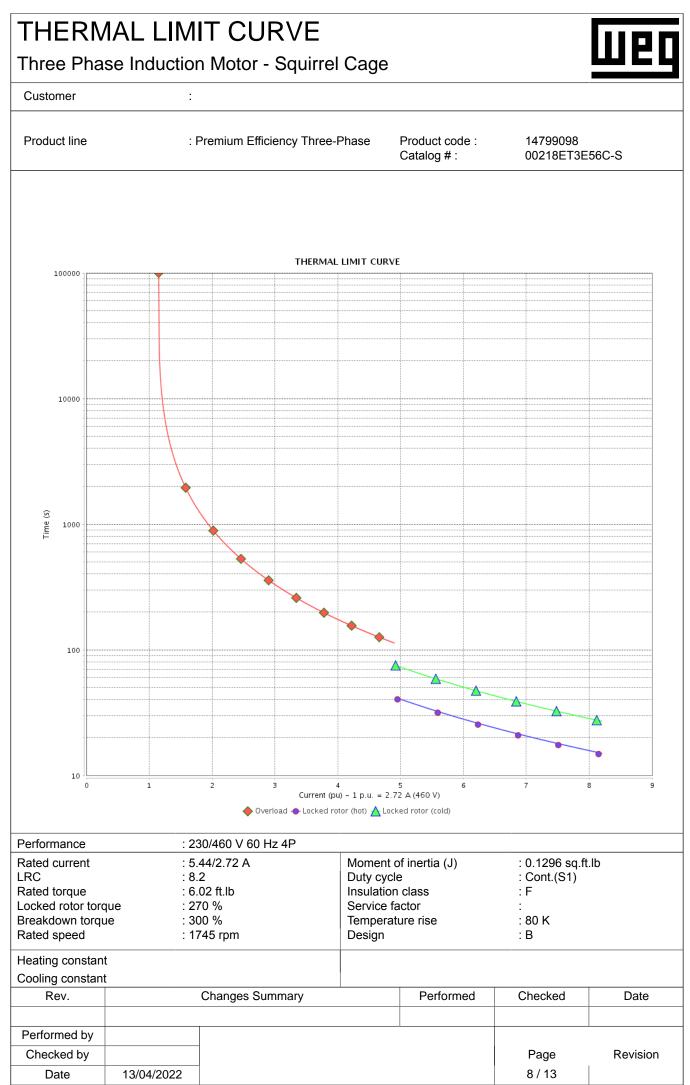
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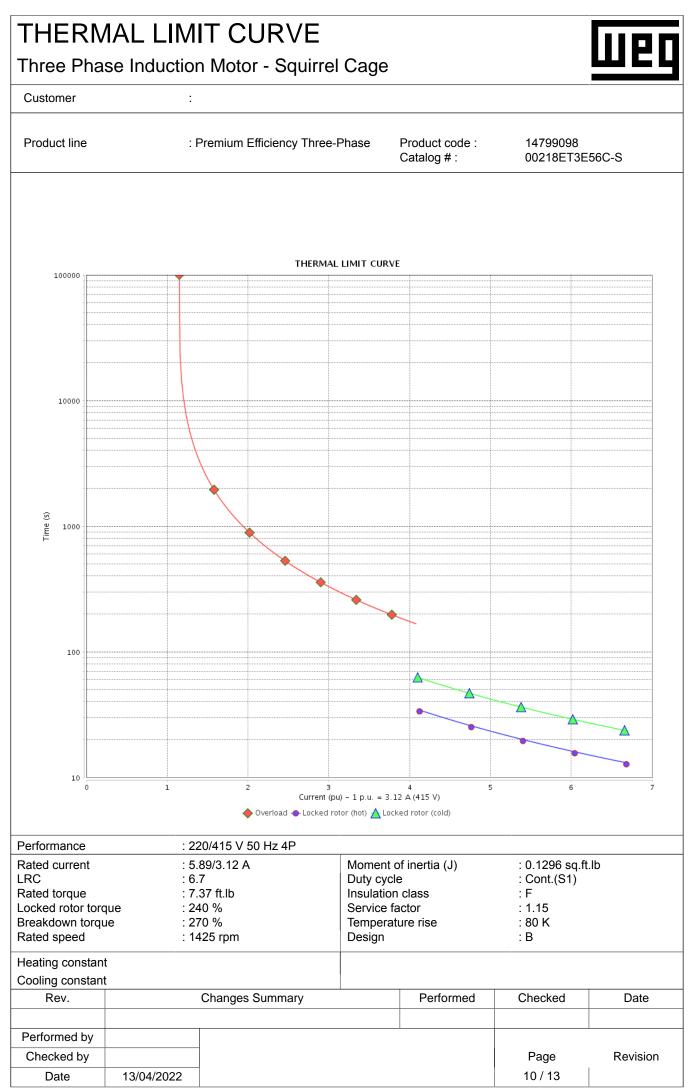
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Customer	:								
Product line	: Premium Efficiency Three-Phase				Product code : Catalog # :		14799098 00218ET3E56C-S		
			THERMAL	LIMIT CUR	VE				
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10	1	2		3		4	5	6	
		🔶 Overloa			25 A (380 V) ocked rotor (cold)				
erformance	: 190	/380 V 50 Hz	4P						
ated current)/3.25 A		Momen Duty cy	t of inertia (J)		: 0.1296 sq.f	t.lb	
RC ated torque		: 6.0 : 7.42 ft.lb : 210 %			cle on class		: Cont.(S1) : F : 1.15		
ocked rotor torque	: 210				factor				
eakdown torque ated speed		: 240 % : 1415 rpm			ature rise		: 80 K : B		
eating constant		F .		Design					
constant									
Rev.	C	hanges Sumr	nonu		Perform	ed	Checked	Date	

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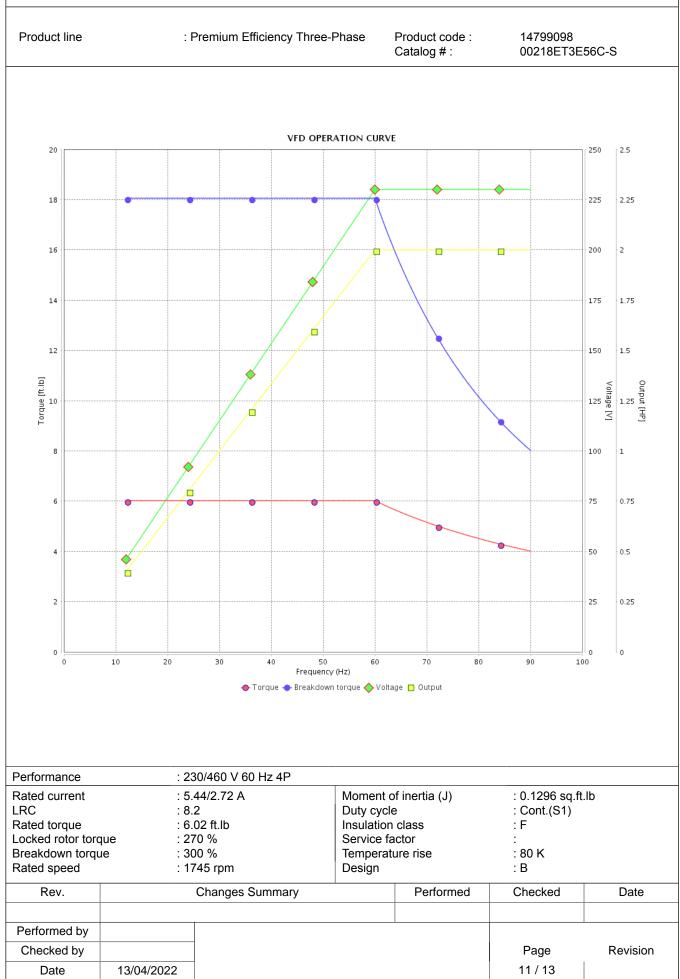
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VFD OPERATION CURVE

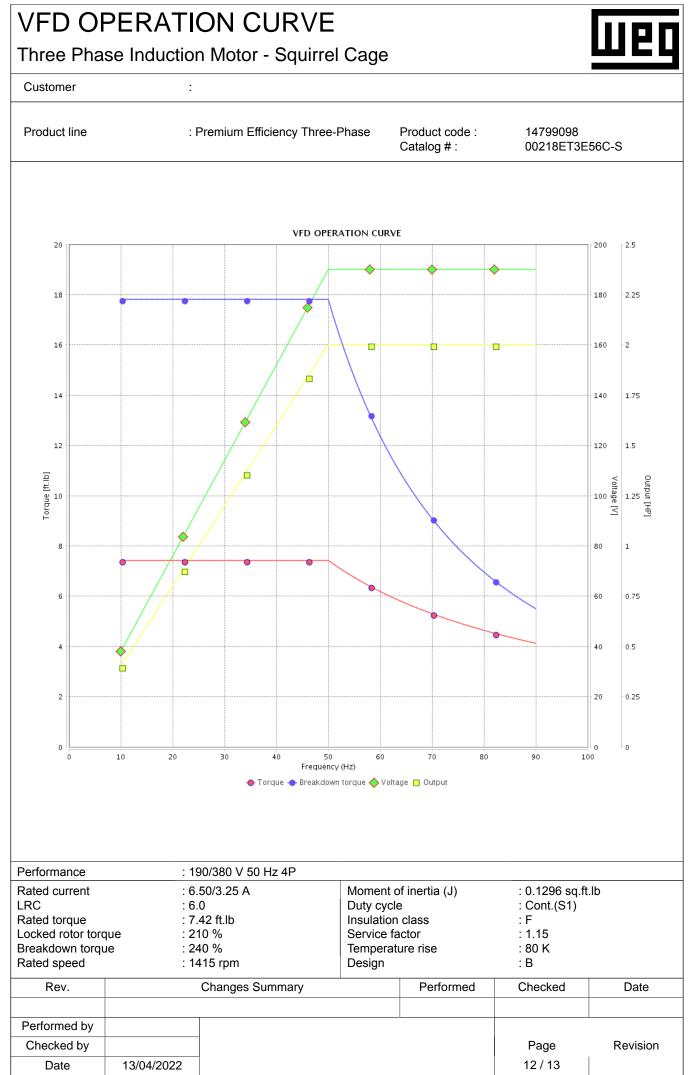
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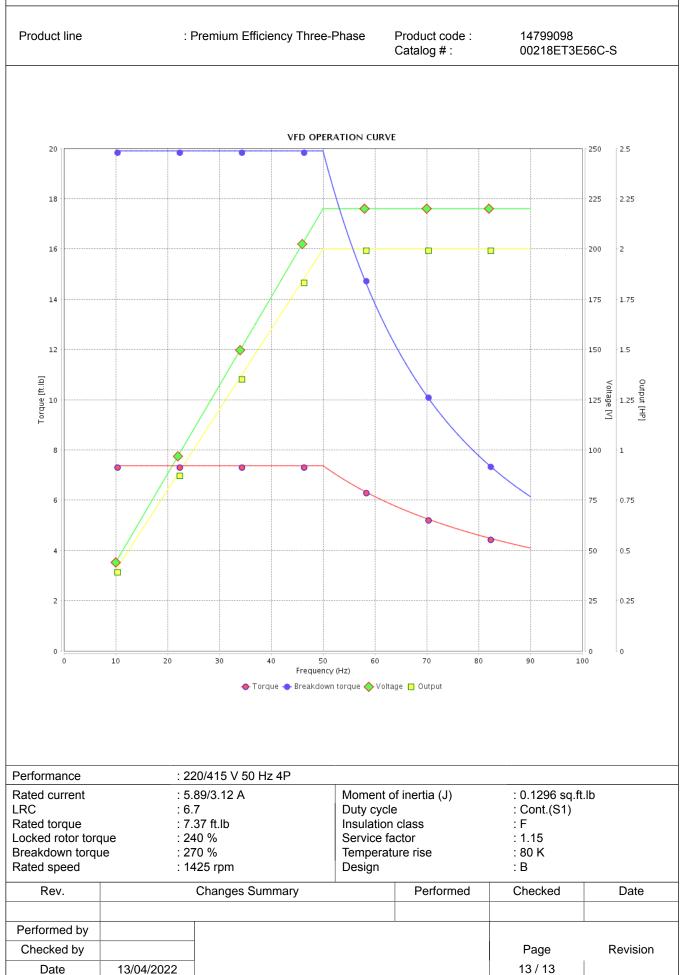
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VFD OPERATION CURVE

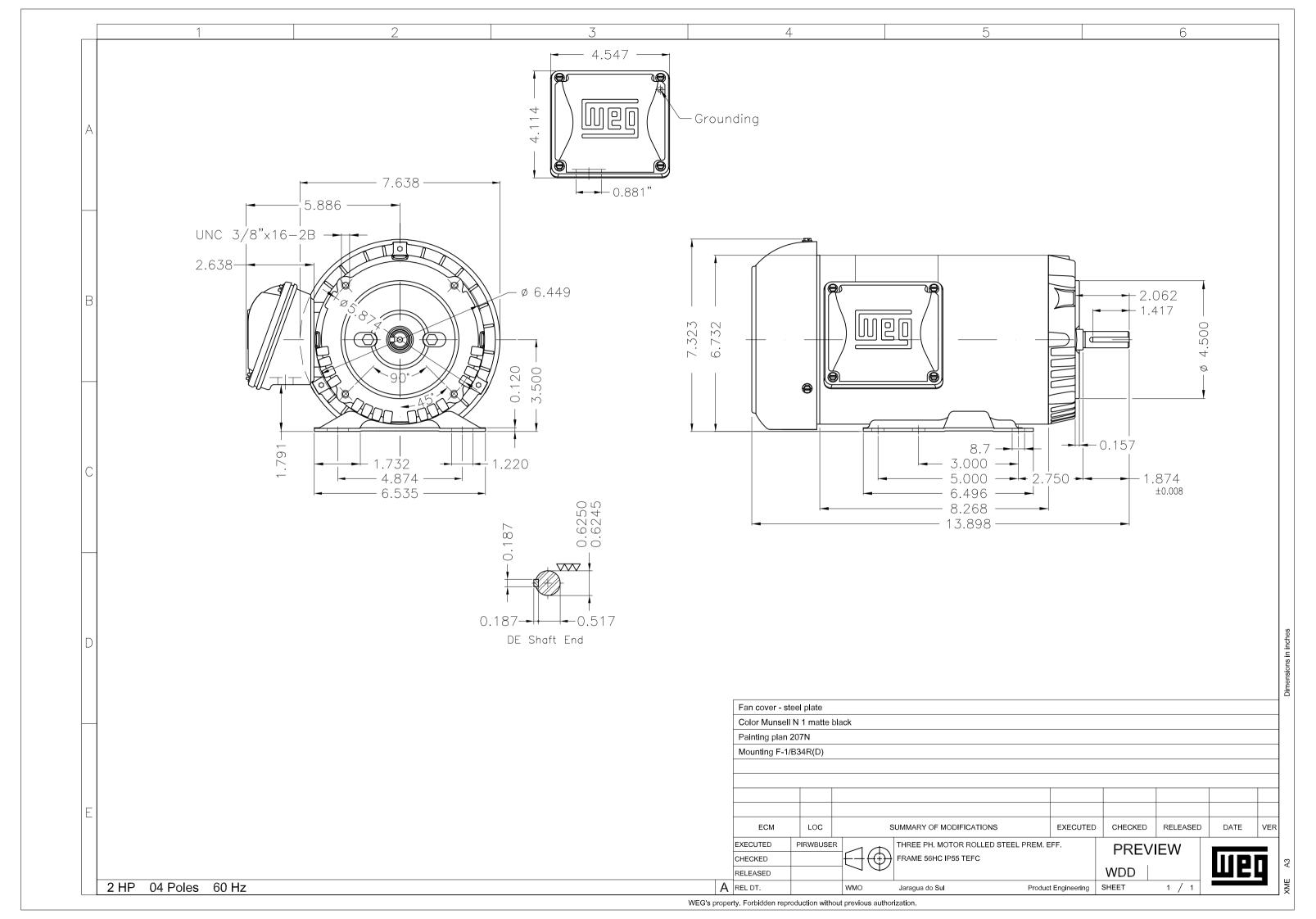
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CONTERPORT CONTRACTOR	For 60H2: Class I, Zone 2, IIC Class I, DIV.2, Gr. A,B,C,D - T3 DIV 2 Inverter Duty (5F1.00) CT 2:1/NT 1000:1	3 Hz 50 Ht 20 SHC SHC<	EXPANDA Expendical separational separatio
-C R		HP 2.3 KW 1.5 A 5.442.72 SF 6.263.13 SF 1.15 SF 1.15	INTERCIANCE ANY TWO LINE WREES TO EXCREDE THE ROTATION MARNING, MACHINE WREES TO EXCREDE THE ROTATION and national electrical codes to preven refronts eventical and national electrical codes to preven refronts eventical about. Discontest power source before astrong unit.
	98 CC029A 0X 8ET3E56C-S B/N:	The second sec	GE ANY TWO LINE W GE ANY TWO LINE W Motor must be gr autional electrical co coks. Disconnect po: AVERTISSEMENT: codes floctriques to we. Déconnectez Tall
E	MADE IN BRAZIL MAT: 14799098 CC029/ W01.TE0IC0X0X MODEL 00218ET3E56C-S 12APR2022 B/N:	PFH 3 1 hz 50 DUTY CONT. 0 utry 0 utry ALT 000 m.a.sl 1 ms Cut 1 ms Cut ALT 000 m.a.sl 1 ms Cut 1 ms Cut ALT 000 m.a.sl 1 ms Cut 1 ms Cut ALT 000 m.a.sl 1 ms Cut 1 ms Cut ALTERNATE RATING: E 0 asto sub-more incertain and-more incertain and more in	INTERCHAN NARWIN And and and and and and and conformément aux