# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage

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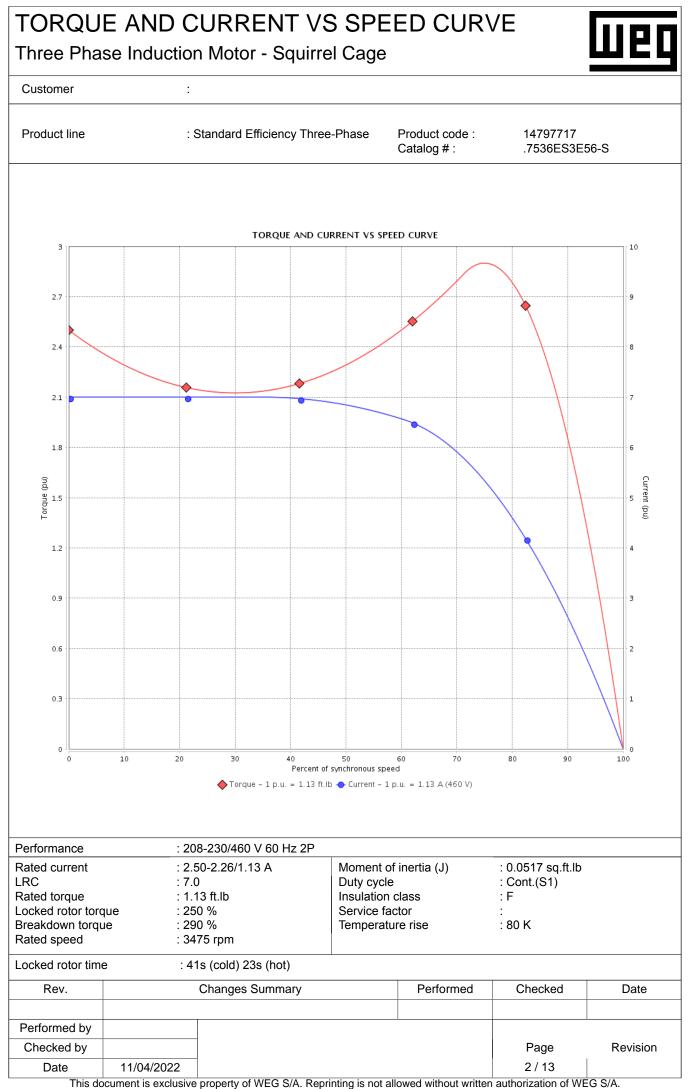


		: Standard Efficiency Three-Ph	hase Product code : Catalog # :	14797717 .7536ES3E56-S
Frame		: 56	Cooling method	: IC411 - TEFC
Insulation class		: 50 : F	Mounting	: IC411 - TEFC : F-1
Duty cycle		: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	ataro	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 20.9 lb
Protection degre	e	: IP55	Moment of inertia (J)	: 0.0517 sq.ft.lb
Output [HP]		0.75	0.75	0.75
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]	1	2.50-2.26/1.13	2.52/1.26	2.28/1.21
L. R. Amperes [A]		17.5-15.8/7.91	13.9/6.93	13.7/7.26
LRC [A]	.1	7.0x(Code K)	5.5x(Code G)	6.0x(Code H)
No load current [A		0.948-1.10/0.550	1.05/0.526	1.14/0.602
Rated speed [RPI	vij	3475	2825	2845
Slip [%]	1	3.47	5.83	5.17
Rated torque [ft.lb		1.13	1.39	1.38
Locked rotor torqu		250	180	210
Breakdown torque	€[%]	290	220	250
Service factor			1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		41s (cold) 23s (hot)	52s (cold) 29s (hot)	46s (cold) 26s (hot)
Noise level <sup>2</sup>	0.501	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	58.8	70.1	68.3
Efficiency (%)	50%	62.0	70.3	69.2
/ ( - /	75%	68.0	73.4	73.3
	100%	72.0	73.0	73.7
	25%	0.45	0.49	0.44
Power Factor	50%	0.70	0.77	0.72
	75% 100%	0.79 0.85	0.86	0.83
		Drive end Non drive end		
Bearing type		: 6203 ZZ 6202 ZZ	Max. traction	: 23 lb
Sealing		: V'Ring Without	Max. compression	: 44 lb
Sealing		Bearing Seal		. ++
Lubrication inter	val			
Lubricant amour			1	
		Mobil Polyrex EM		
Lubricant amour		: Mobil Polyrex EM		
Lubricant amour Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at	/ SF 1.00 laces and car ed. notor from the 1m and with t weight subject occess.	ncel the previous one, which		based on tests with sinusoidal e tolerances stipulated in NEM
Lubricant amour Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate of manufacturing pr	/ SF 1.00 laces and car ed. notor from the 1m and with t weight subject occess.	ncel the previous one, which e shaft end. polerance of +3dB(A).	power supply, subject to the	based on tests with sinusoidal e tolerances stipulated in NEM Checked Date
Lubricant amour Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate of manufacturing pr (4) At 100% of fu Rev.	/ SF 1.00 laces and car ed. notor from the 1m and with t weight subject occess.	ncel the previous one, which e shaft end. colerance of +3dB(A). ct to changes after	power supply, subject to the MG-1.	e tolerances stipulated in NEM
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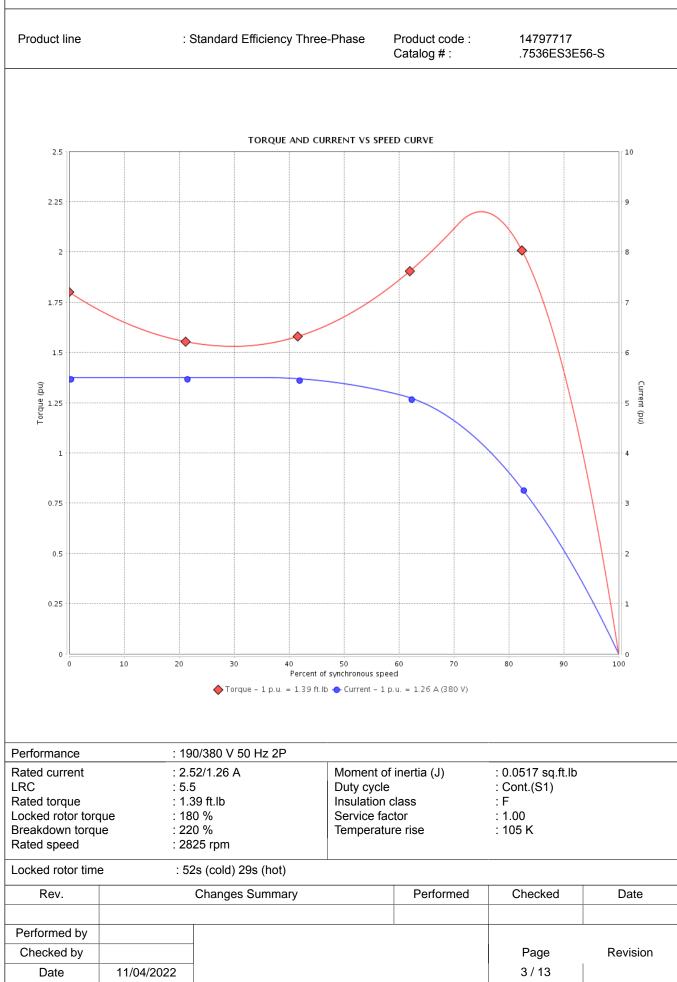


#### TORQUE AND CURRENT VS SPEED CURVE

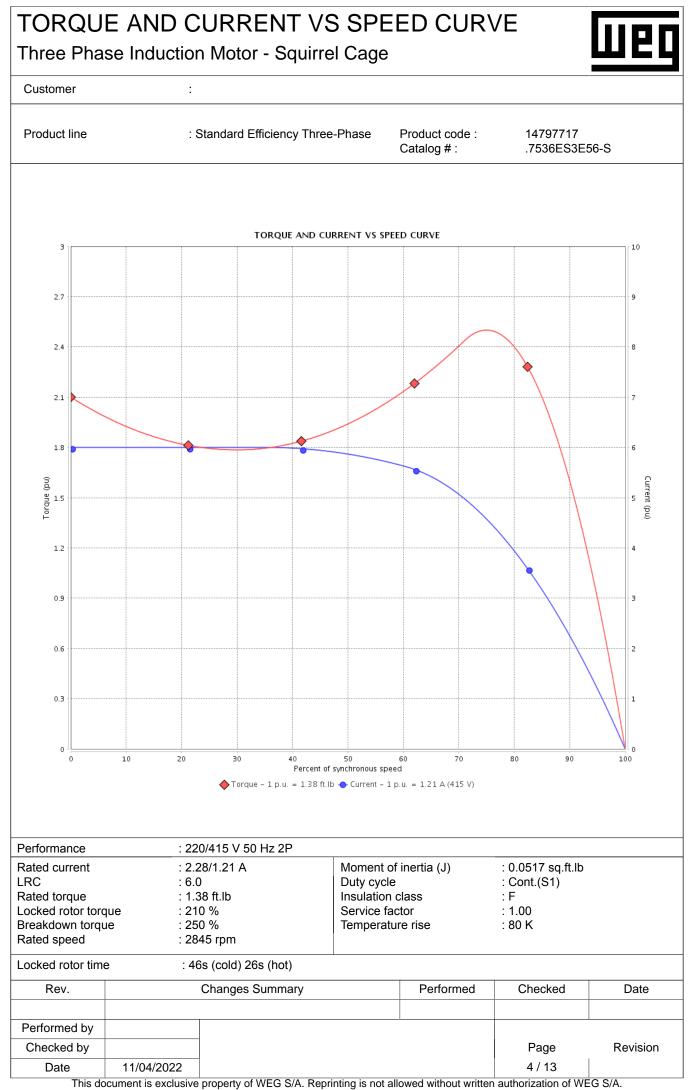
Three Phase Induction Motor - Squirrel Cage

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Customer



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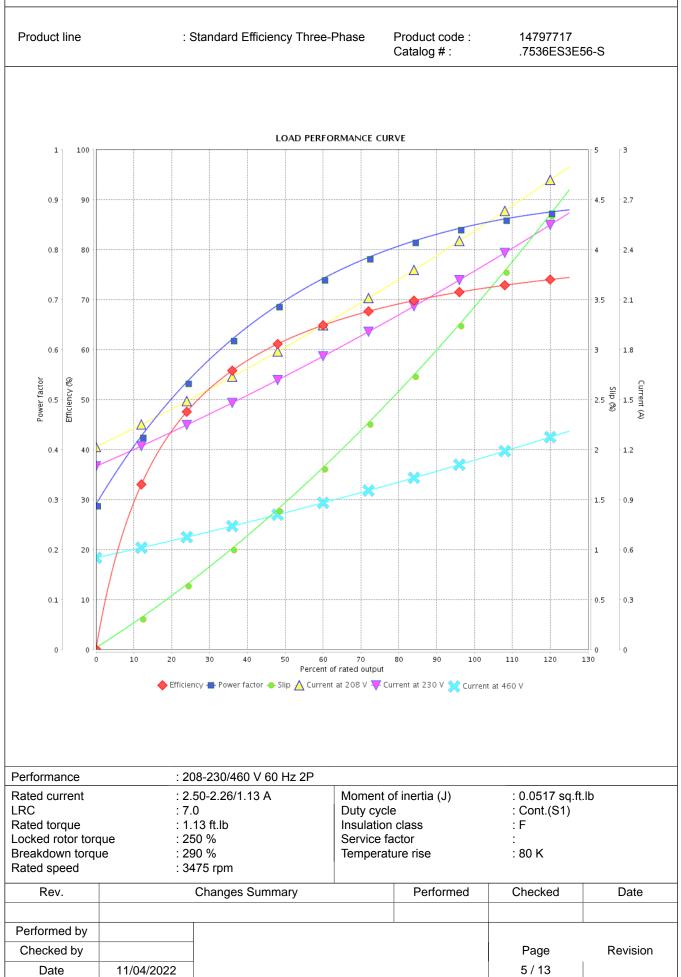
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## LOAD PERFORMANCE CURVE

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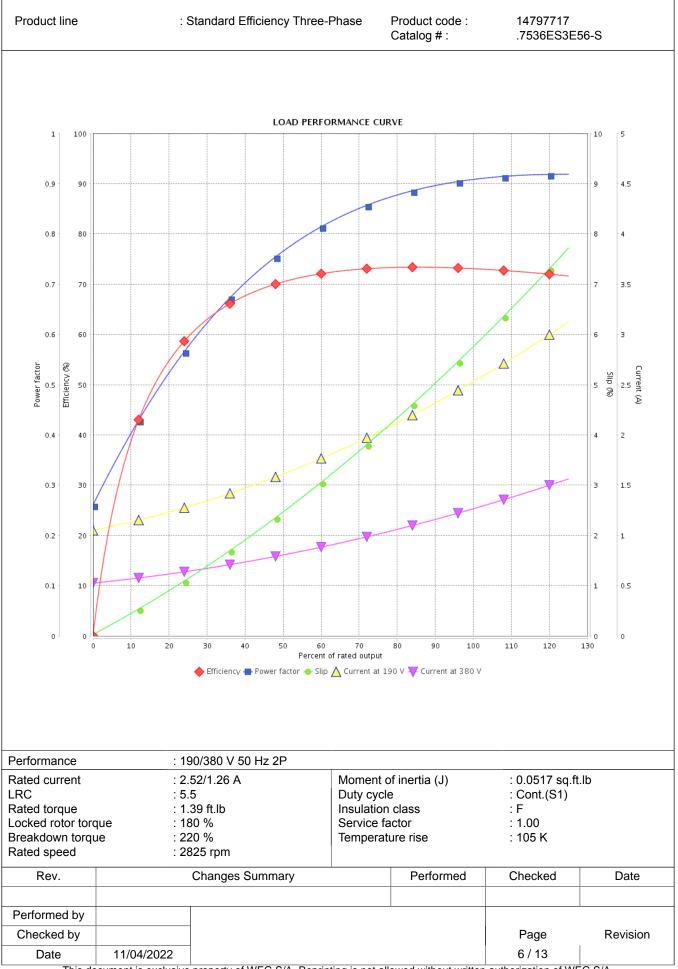
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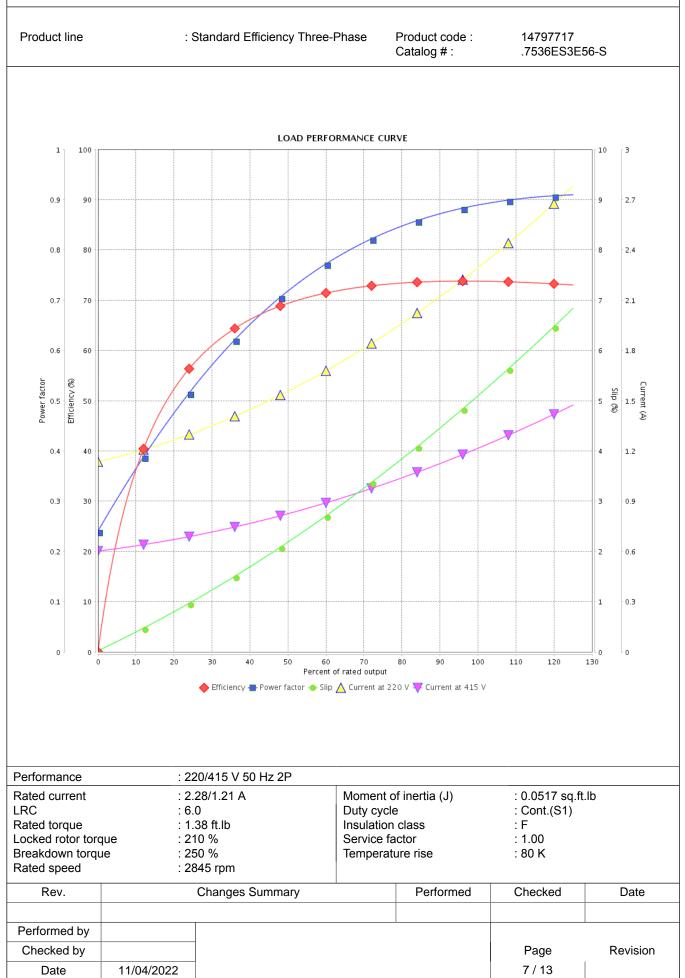
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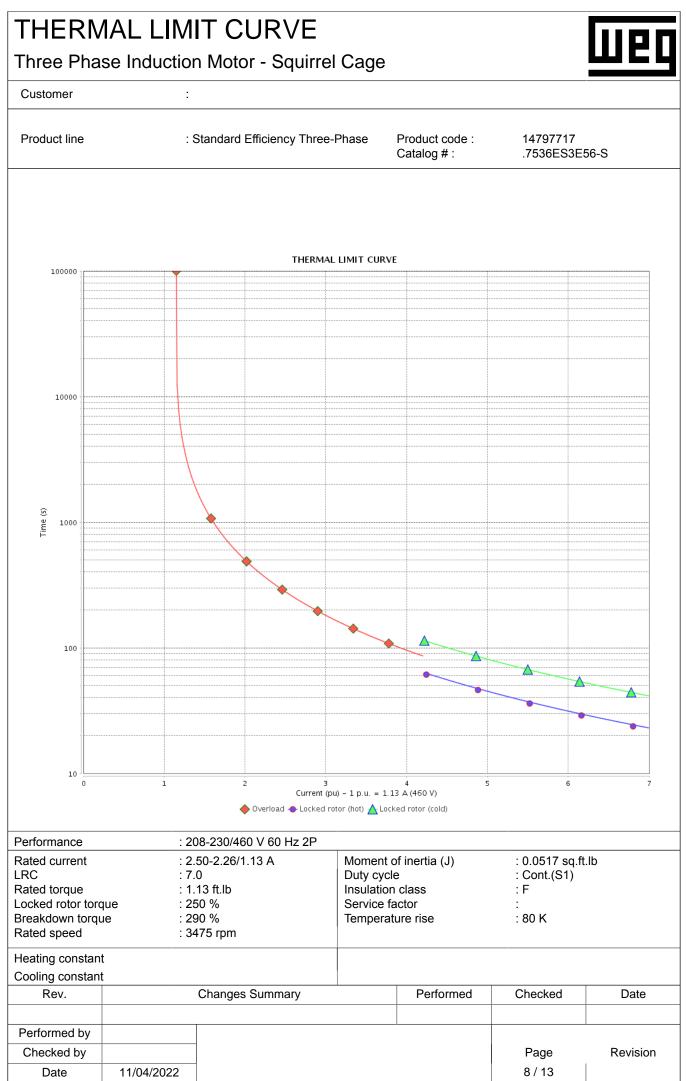
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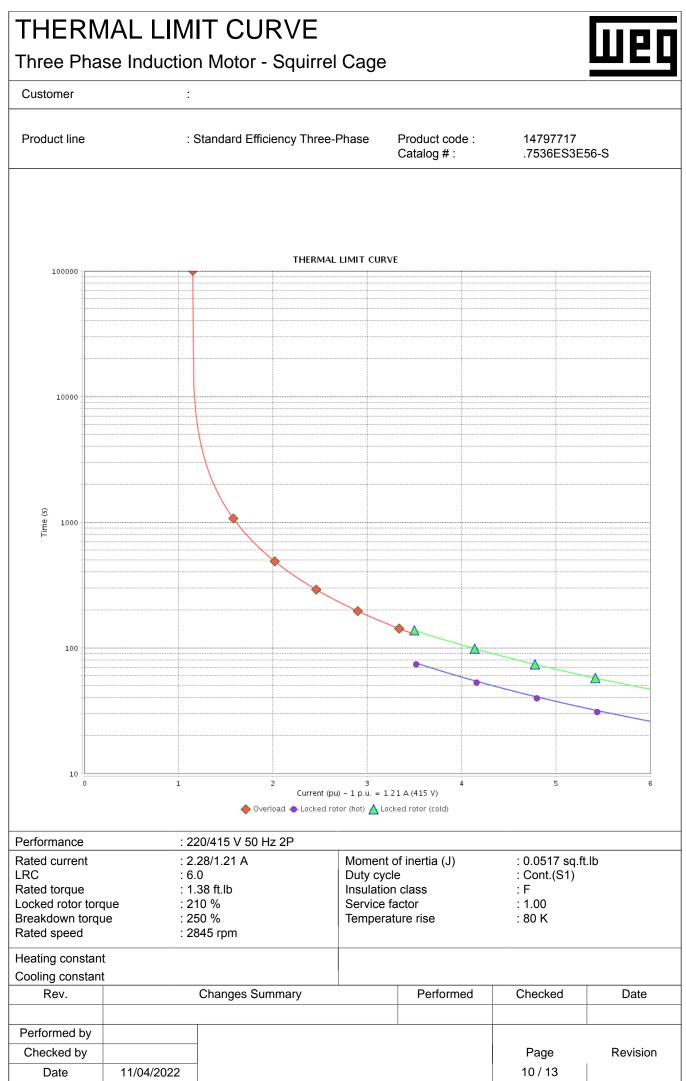
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Customer	:						
Product line	: :	Standard Effi	ciency Three-	Phase	Product code : Catalog # :	14797717 .7536ES3E5	6-S
100000 1			THERMAL	. LIMIT CU	RVE		
100000							
10000							
1000							
<u>م</u>							
Time (s)							
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			<b>k</b>				
10							
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					<b>`</b>		
1							
1 /	1	<b>0</b> V	2 Current (pr erload - Locked ro		4 1.26 A (380 V) Locked rotor (cold)	5	6
Performance	: 19	90/380 V 50	Hz 2P				
Rated current		52/1.26 A			nt of inertia (J)	: 0.0517 sq.ft.l	b
₋RC Rated torque		.39 ft.lb			ion class	: Cont.(S1) : F	
_ocked rotor torqu Breakdown torque		80 % 20 %			e factor erature rise	: 1.00 : 105 K	
Rated speed		825 rpm				. 100 K	
Heating constant							
Cooling constant		Characa C			Daufe	Chaster-I	Dete
Rev.		Changes Su	immary		Performed	Checked	Date
Performed by							
Checked by		-				Page	Revision
Date	11/04/2022					9 / 13	

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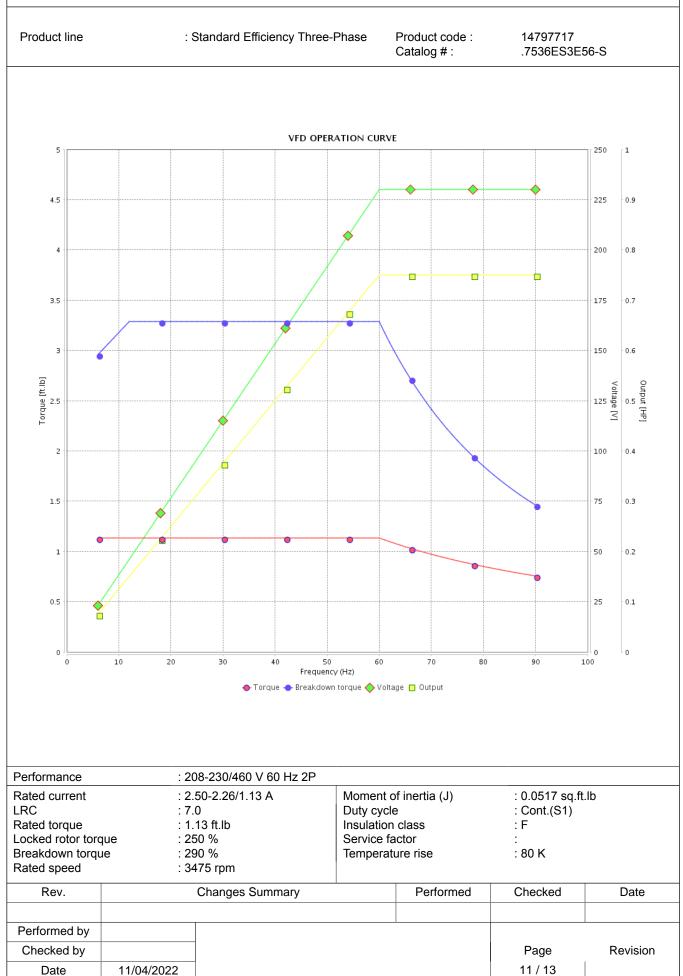
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### VFD OPERATION CURVE

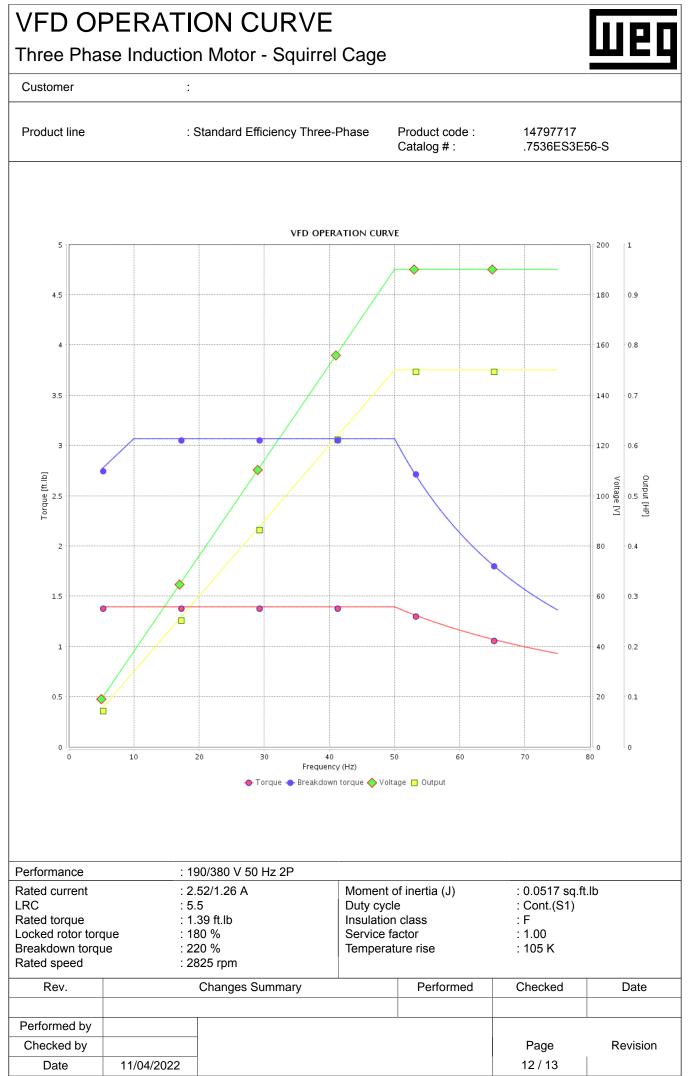
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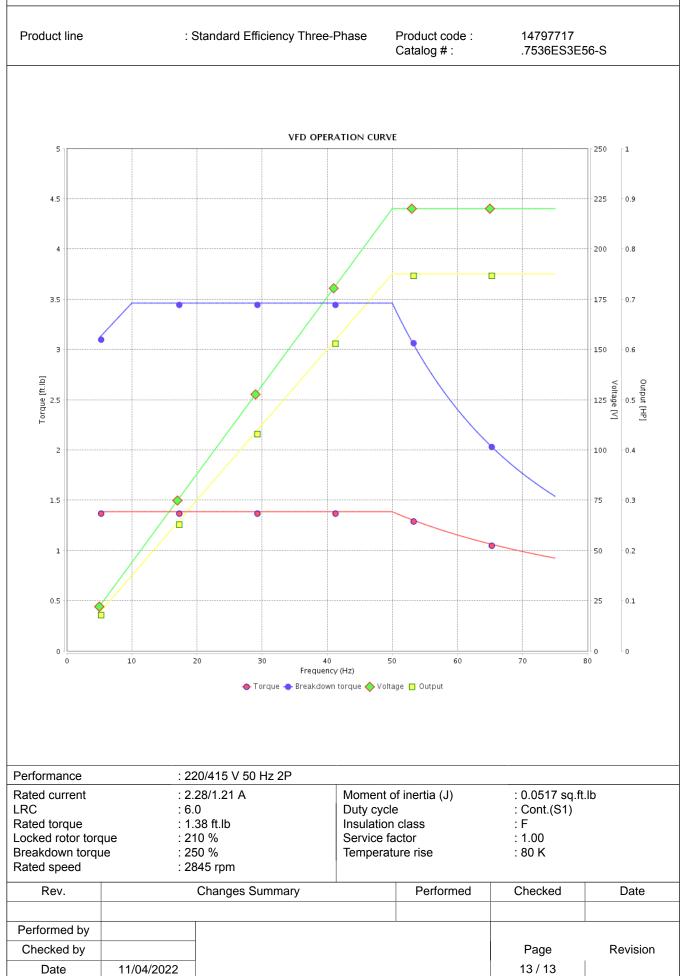
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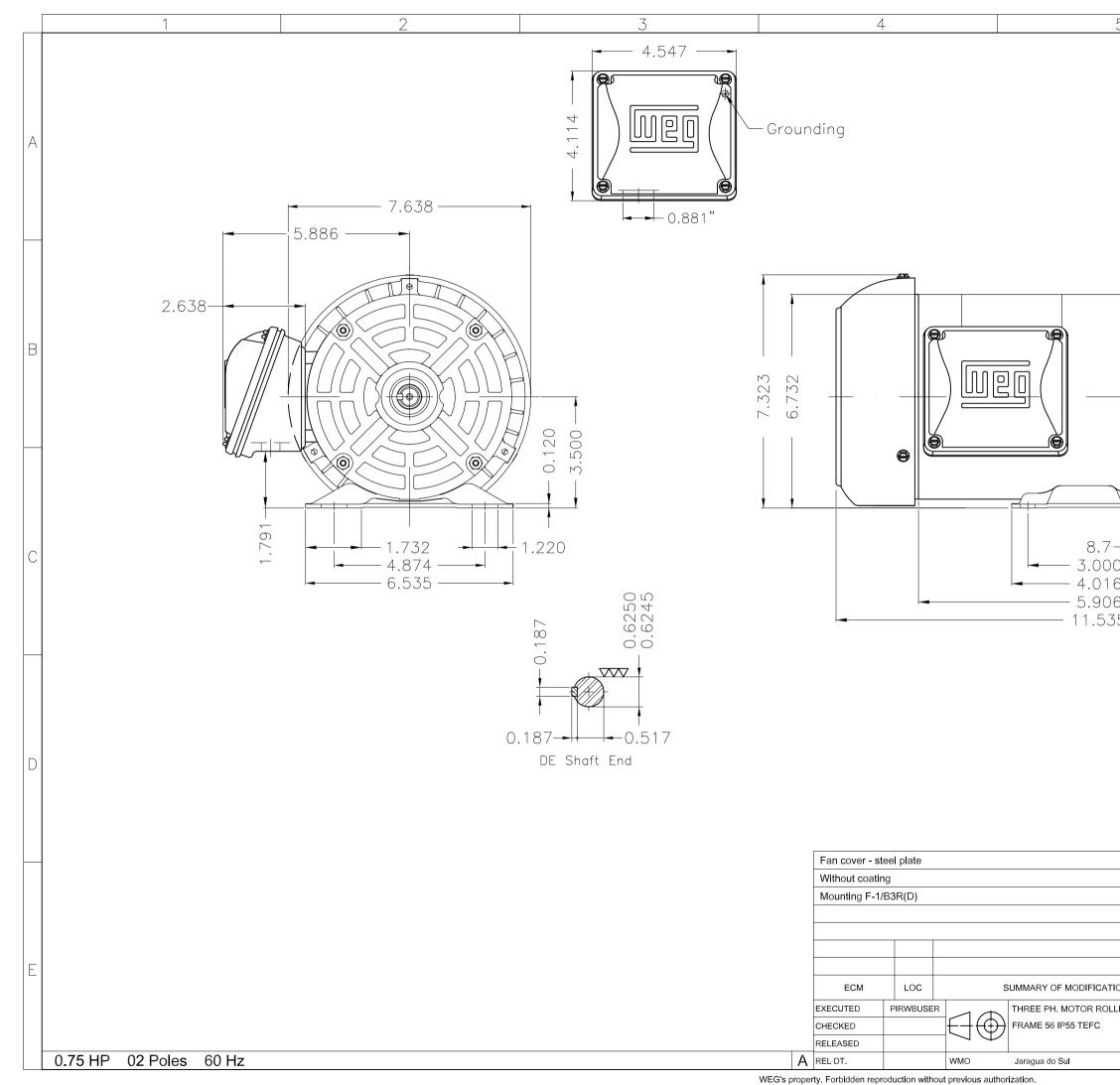
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5			6			
			-17 874 ±0.008			Dimensions in inches
		1				
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL		PREVI	EW	110		A3
Deaders	Engineering		1 / 1	ШР		XME A
Product	Engineering	SHEET	1 / 1			٧X







MADE IN BRAZIL

MAT: 14797717 W01.TE0IC0X0X

MODEL .7536ES3E56-S

Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00)

For 60Hz: Class I, Zone 2, IIC

7707UWW07	440	2					
PH 3		Hz 60	60	₽	0.75		
FR 56				Ň	0.55		
DUTY CONT.	JNT.			>	208-230/460		
ALT 10	1000 m.a.s.	8.		•			
INS CL F AT 80K	<b>AT 80K</b>		IP55	SFA			
AMB 40°C	ပ့		DES -	5	1.15		
ENCL TEFC	FC		CODE K		DDM 9476		
USABLE @ 208V SF1.00	@ 208V	ŝ	1.00	NOM.EF	NEMA 34/3 NEMA 72.0%		
ALTERNA	TE RAT	DNI	ALTERNATE RATING: 0.75HP	50Hz	190-220/380-415V		SF1.00
2.52-2	2.52-2.26/1.26-1.20A	8-1.		2825RPM	EFF 73.0%	(IE1) IEC	IEC 60034-1
For safe	e area-	Inve	rter duty mo	otor For	For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT	1000:1 VT,	10:1 CT
DE 6203-ZZ	Z	ŏ	ODE 6202-ZZ		MOBIL POLYREX EM		

T6-GRY T2-WHT T8-RED T4-YEL **T9-BRK RED I3-ORG** T1-BLU I7-PNK T5-BLK 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  $\infty$ g ¥CE ≿ MOT

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

