# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage

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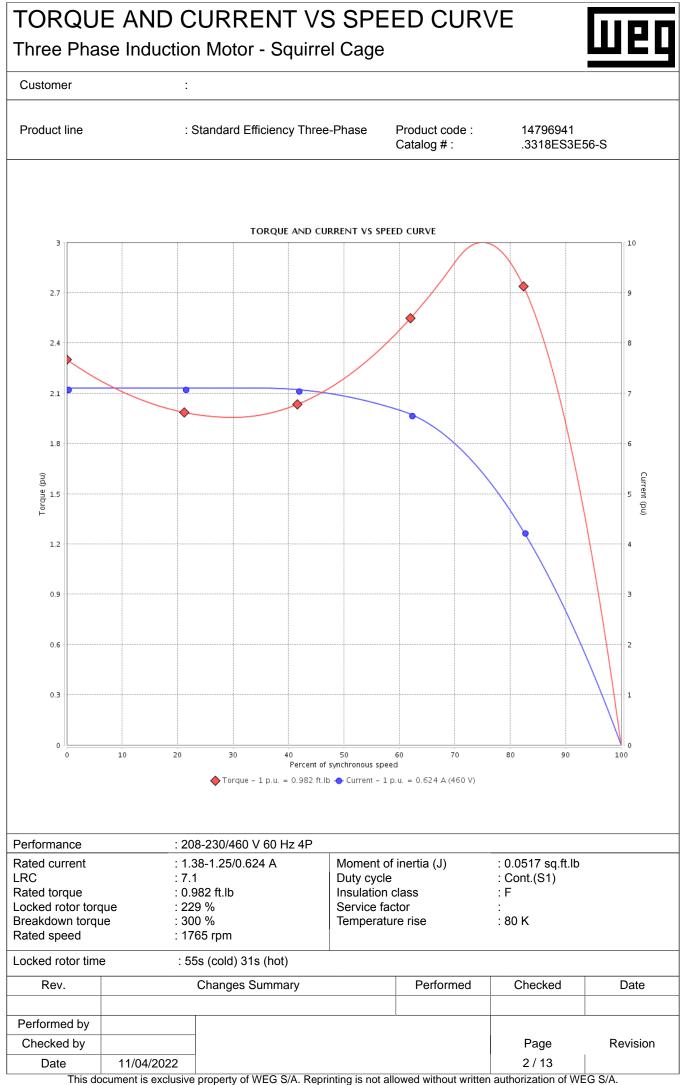
#### Customer

		: Standard Efficiency Three-Pl	nase Product code : Catalog # :	14796941 .3318ES3E56-S
Frame Insulation class Duty cycle Ambient tempera Altitude		: 56 : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55	Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup>	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 20.2 lb
Protection degre Dutput [HP]	e	0.33	Moment of inertia (J) 0.33	: 0.0517 sq.ft.lb
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.38-1.25/0.624	1.36/0.678	1.29/0.682
. R. Amperes [A]		9.80-8.86/4.43	7.59/3.80	7.59/4.02
RC [A]		7.1x(Code M)	5.6x(Code J)	5.9x(Code K)
No load current [A		0.810-0.940/0.470	0.924/0.462	0.941/0.499
Rated speed [RPI	VIJ	1765	1455	1460
Slip [%] Patad targua [ft lb	1	1.94	3.00	2.67
Rated torque [ft.lb _ocked rotor torqu		0.982 229	1.19 170	<u> </u>
Locked rotor torqu Breakdown torque		300	260	290
Service factor	· [ /0]		1.00	1.00
Temperature rise		80 K	80 K	80 K
_ocked rotor time		55s (cold) 31s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	62.0	64.9	62.8
$\Box$ fficience (0/)	50%	64.0	66.7	65.0
Efficiency (%)	75%	72.0	72.0	71.1
	100%	74.0	73.7	73.5
	25%	0.26	0.31	0.28
Power Factor	50%	0.47	0.55	0.51
	75%	0.58	0.67	0.63
	100%	0.68	0.76	0.72
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		Drive end Non drive end 6203 ZZ 6202 ZZ V'Ring Without Bearing Seal  Mobil Polyrex EM	Foundation loads Max. traction Max. compression	: 23 lb : 44 lb
Notes USABLE @208V	′ SF 1.00			
must be eliminate (1) Looking the m (2) Measured at 7	ed. notor from the 1m and with to weight subjec ocess.	cel the previous one, which shaft end. olerance of +3dB(A). t to changes after		based on tests with sinusoidal ne tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	ed. notor from the 1m and with to weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to the	based on tests with sinusoidal ne tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pr (4) At 100% of fu Rev.	ed. notor from the 1m and with to weight subjec ocess.	shaft end. olerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	he tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate w manufacturing pr (4) At 100% of fu Rev. Performed by	ed. notor from the 1m and with to weight subjec ocess.	shaft end. olerance of +3dB(A). t to changes after	power supply, subject to the MG-1.	ne tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pr (4) At 100% of fu Rev.	ed. notor from the 1m and with to weight subjec ocess.	shaft end. olerance of +3dB(A). t to changes after Changes Summary	power supply, subject to the MG-1.	he tolerances stipulated in NEMA

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 11/04/2022

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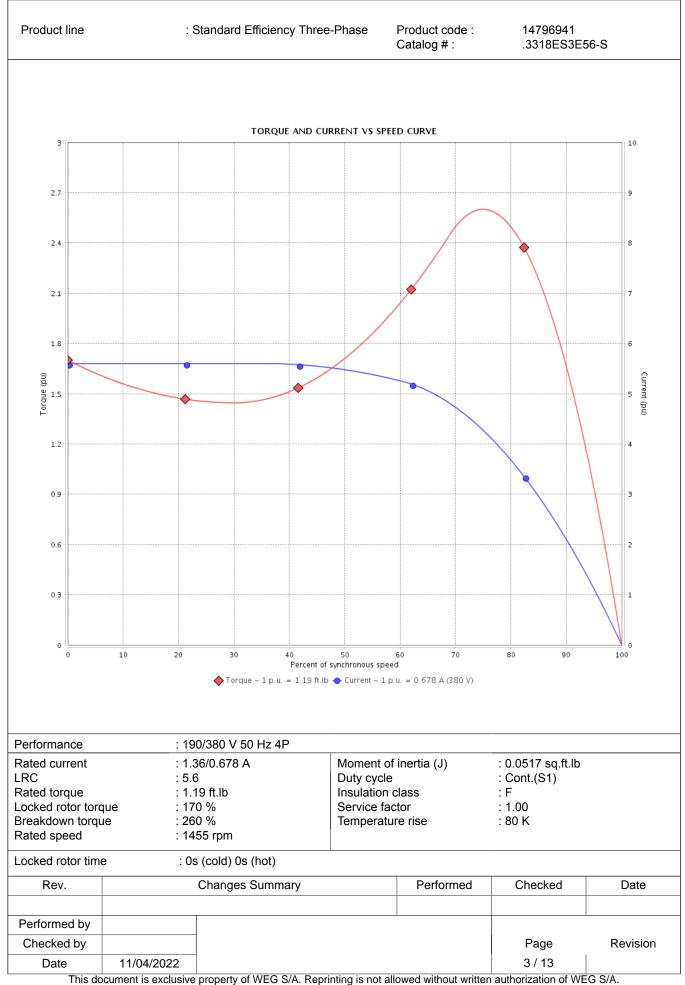
### TORQUE AND CURRENT VS SPEED CURVE

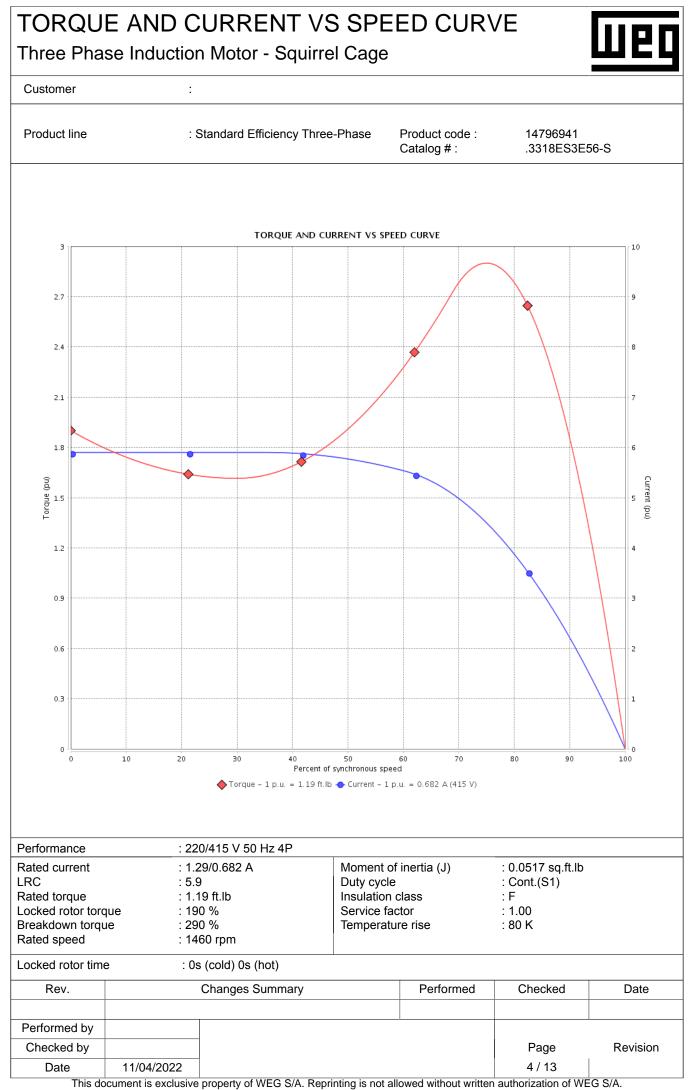
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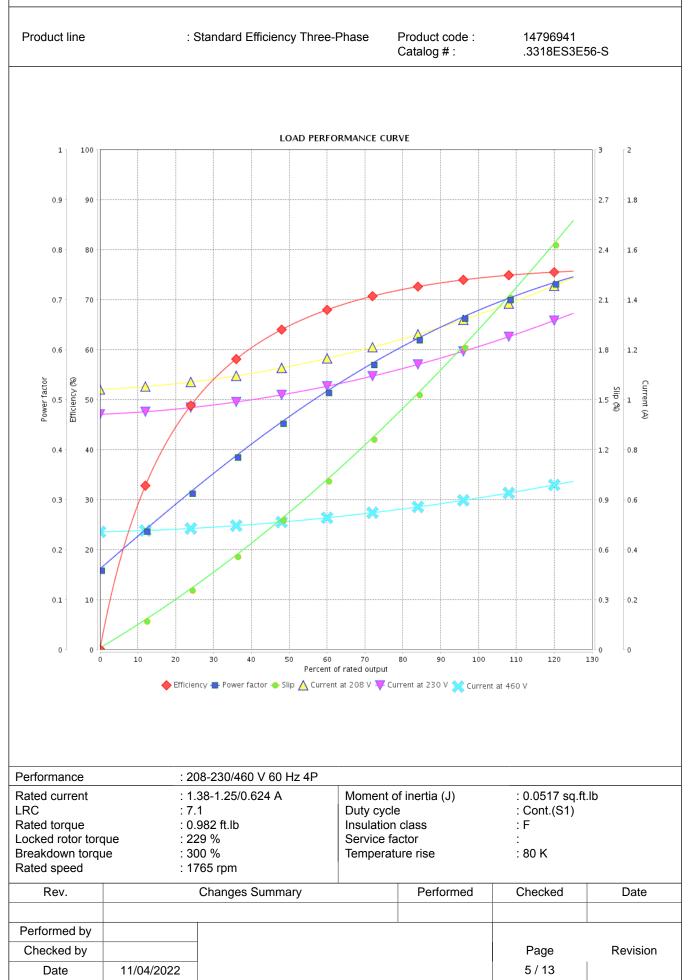
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### LOAD PERFORMANCE CURVE

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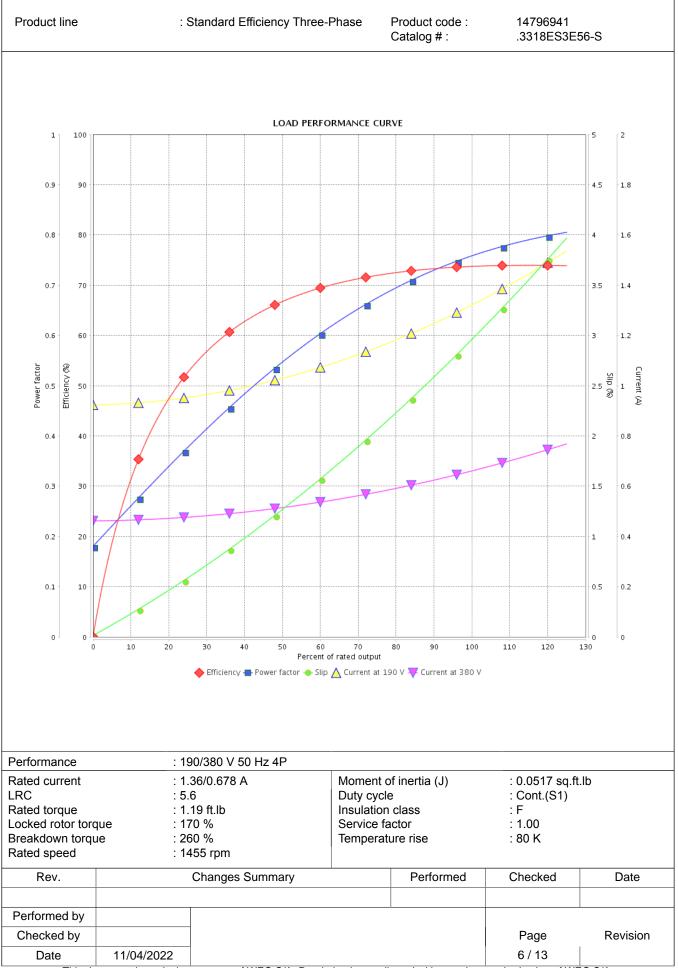
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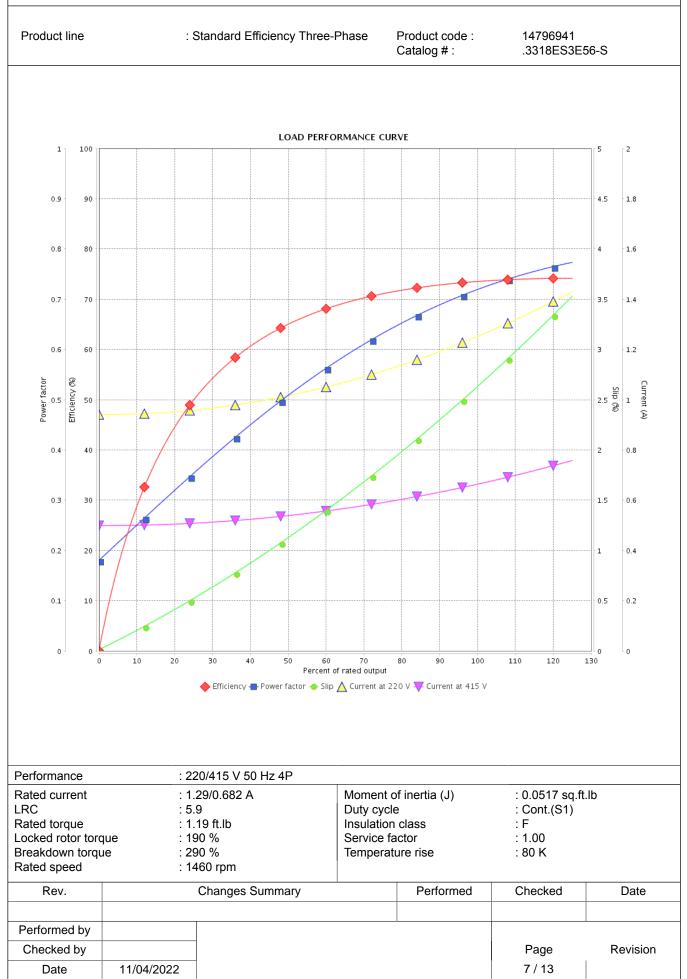
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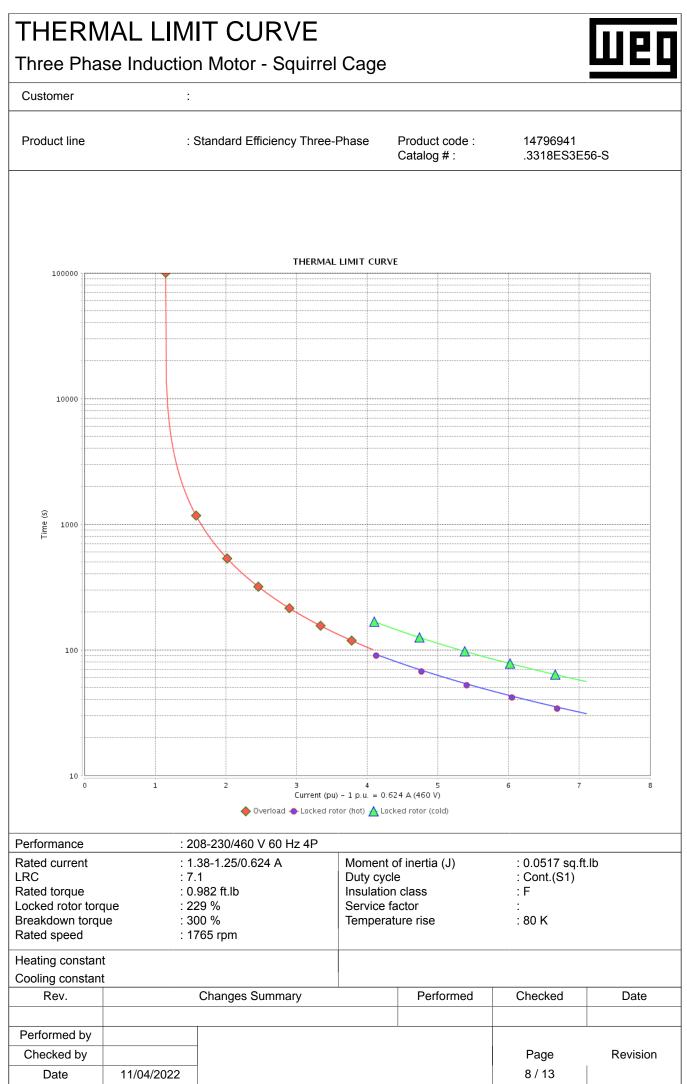
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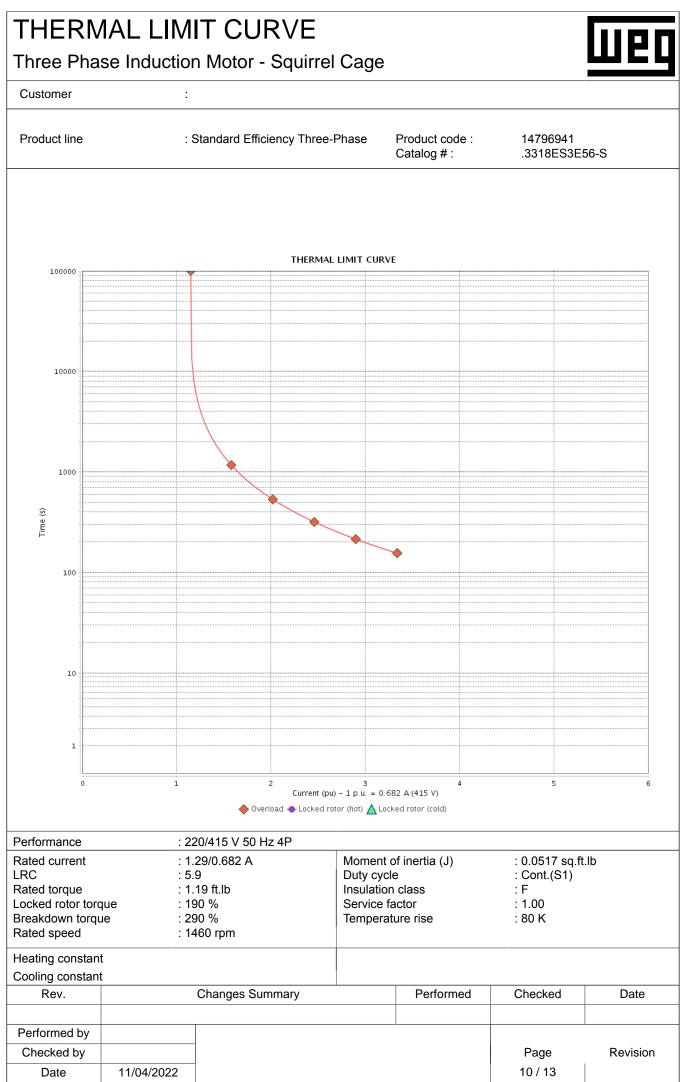
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Customer	:						
Product line	:	Standard Efficie	ncy Three	Phase	Product code : Catalog # :	14796941 .3318ES3E5	56-S
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Performance	:1	90/380 V 50 Hz	4P				
Rated current .RC	: 1 : 5	.36/0.678 A .6		Moment Duty cyc	of inertia (J) le	: 0.0517 sq.ft. : Cont.(S1)	lb
Rated torque .ocked rotor toro		.19 ft.lb 70 %		Insulatio Service	n class	: F : 1.00	
Breakdown torqu Rated speed	ie :2	60 % 455 rpm			ature rise	: 80 K	
leating constan							
Cooling constant Rev.	:	Changes Sure	mon		Performed	Checked	Dete
Rev.		Changes Sumr	пагу		renonneu	Checked	Date

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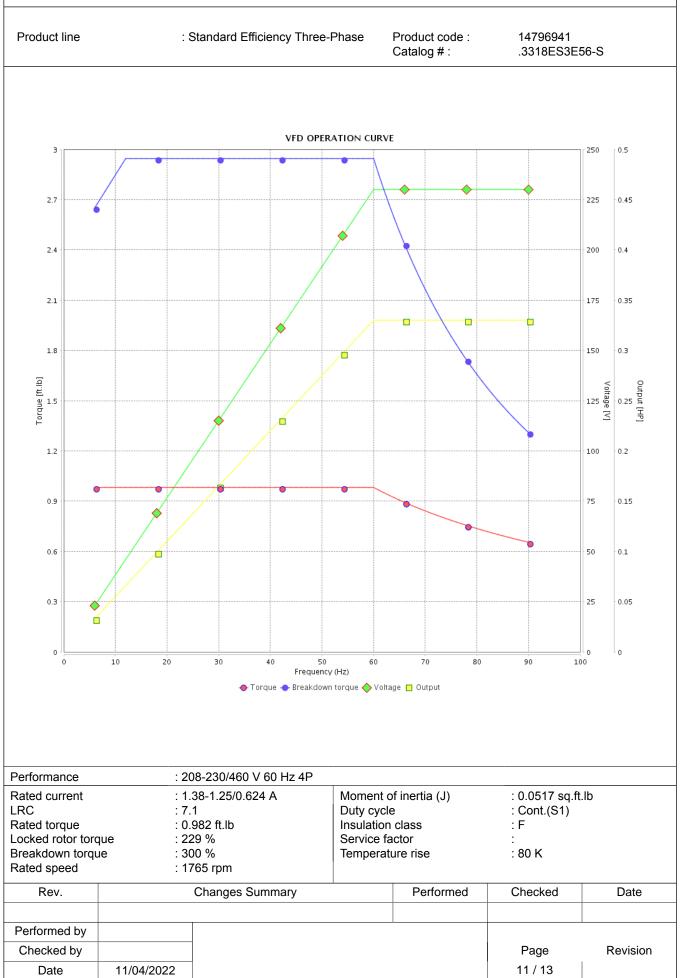
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## VFD OPERATION CURVE

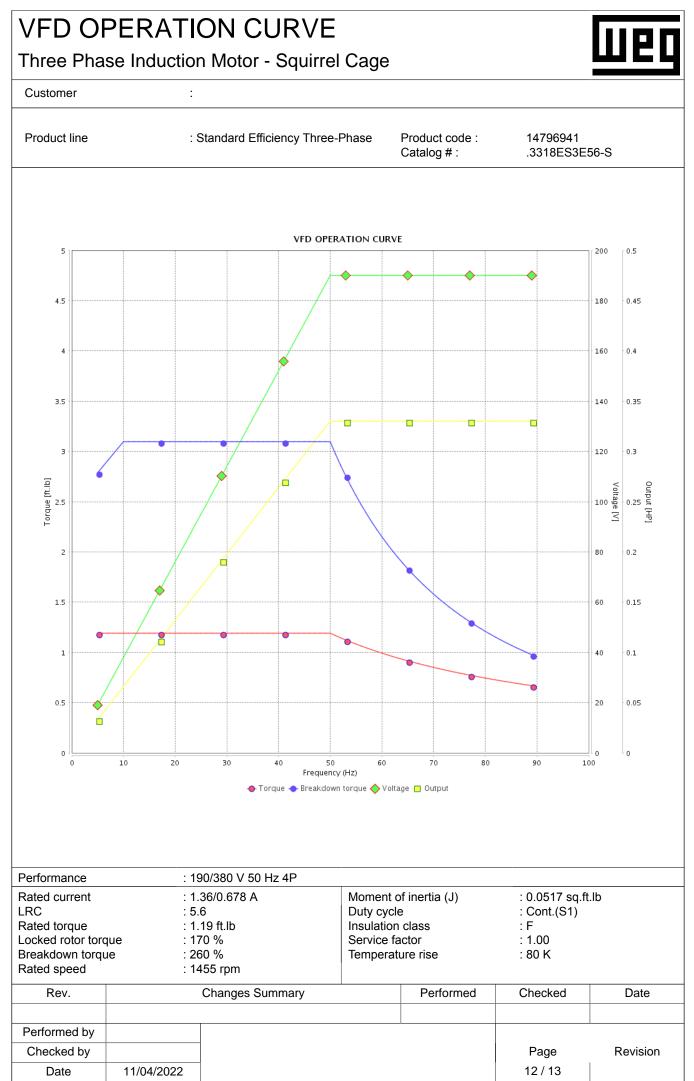
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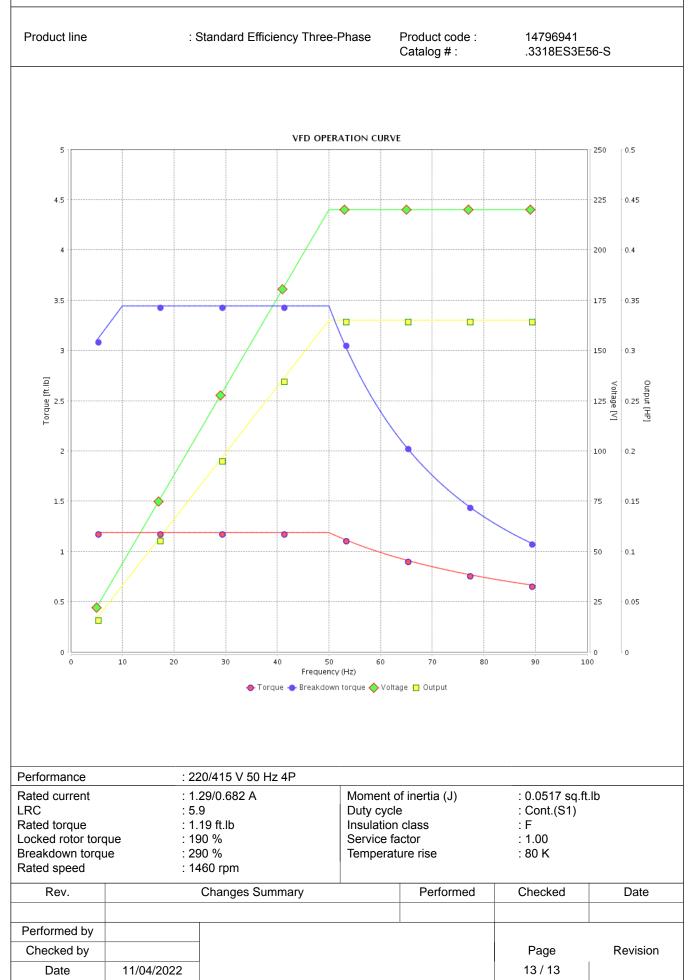
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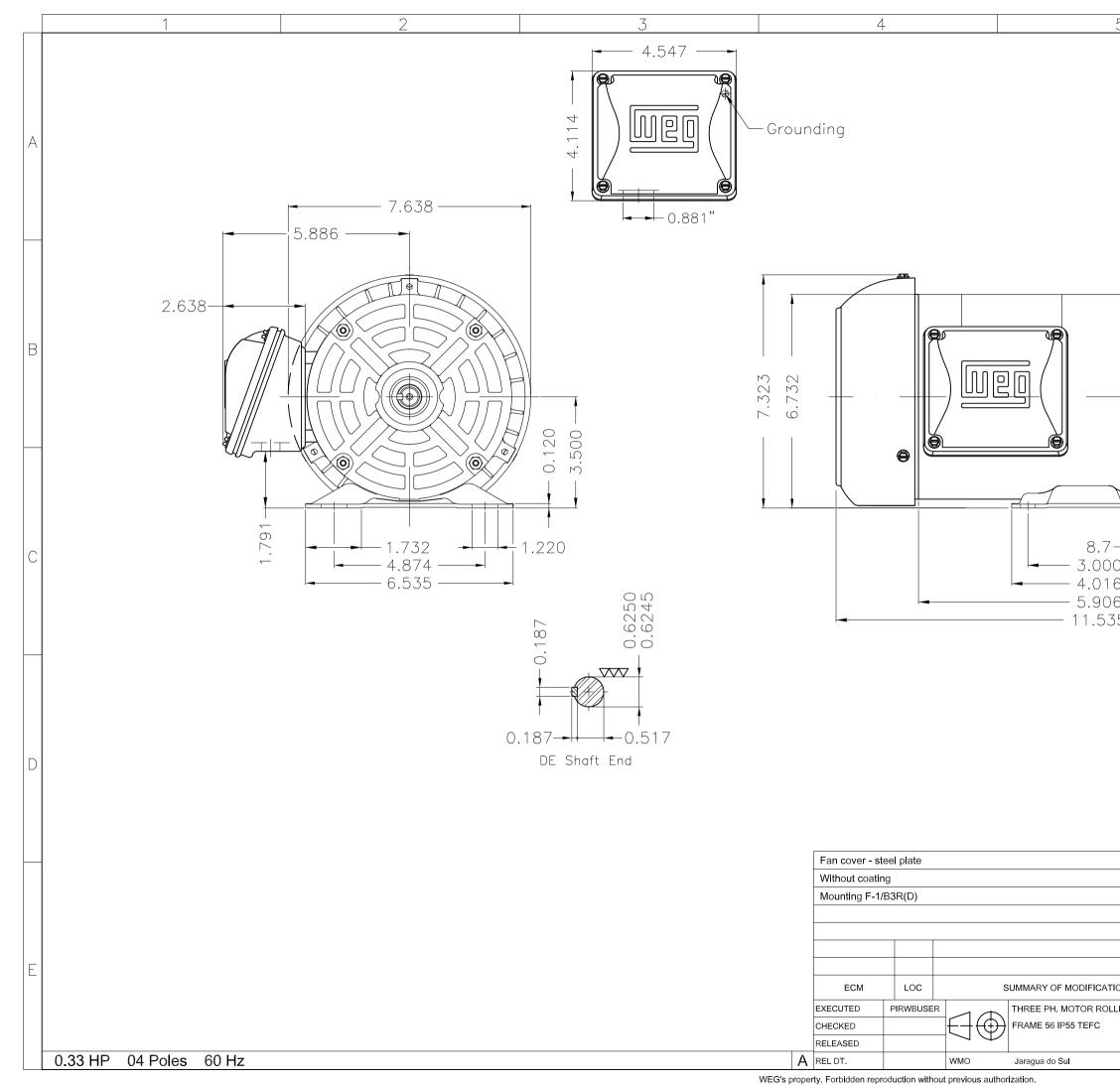
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5			6			
			-17 874 ±0.008			Dimensions in inches
					+	
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL		PREVI	EW	110		A3
Decdured	Engineering		1 / 1	ШВ		XME A
Product	Engineering	SHEET	1 / 1			Х







MADE IN BRAZIL MAT: 14796941

N01.TE0IC0X0X MODEL .3318ES3E56-S

29NOV2021 B/N:

For 60Hz: Class I, Zone 2, IIC Class I, DIV.2, Gr. A,B,C,D - T3 DIV 2 Inverter Duty (SF1.00) CT 241001

1707AONR7						CI 2:1/VI 1000:1
£ На	Ŧ	Hz 60	ЧH	0.33		
FR 56			ķ	0.25		
DUTY CONT.			>	208-230/460		
ALT 1000	1000 m.a.s.l			1.38-1.25/0.624		
INS CL F AT 80K	BOK	IP55	_	1.38-1.44/0.718		
AMB 40°C		DES -	2	CL.1		
ENCL TEFC		CODE M		765		
USABLE @ 208V SF1.00	08V SF		NEMA	NEMA 74.0%		
ALTERNATE RATING: 0.33HP	RATING	7~	50Hz	190-220/380-415V		SF1.00
1.38-1.30/0.678-0.690A	0.678-0.	·	1455RPM	EFF 73.1%	(IE2) IEC	IEC 60034-1
For safe ar	ea-Inve	rter duty mote	or For 6	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	ō	ODE 6202-ZZ	MO	MOBIL POLYREX EM		



WARNIN and r sho

chocks. Disconnect power source before servicing unit. NARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux ann d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre