# DATA SHEET

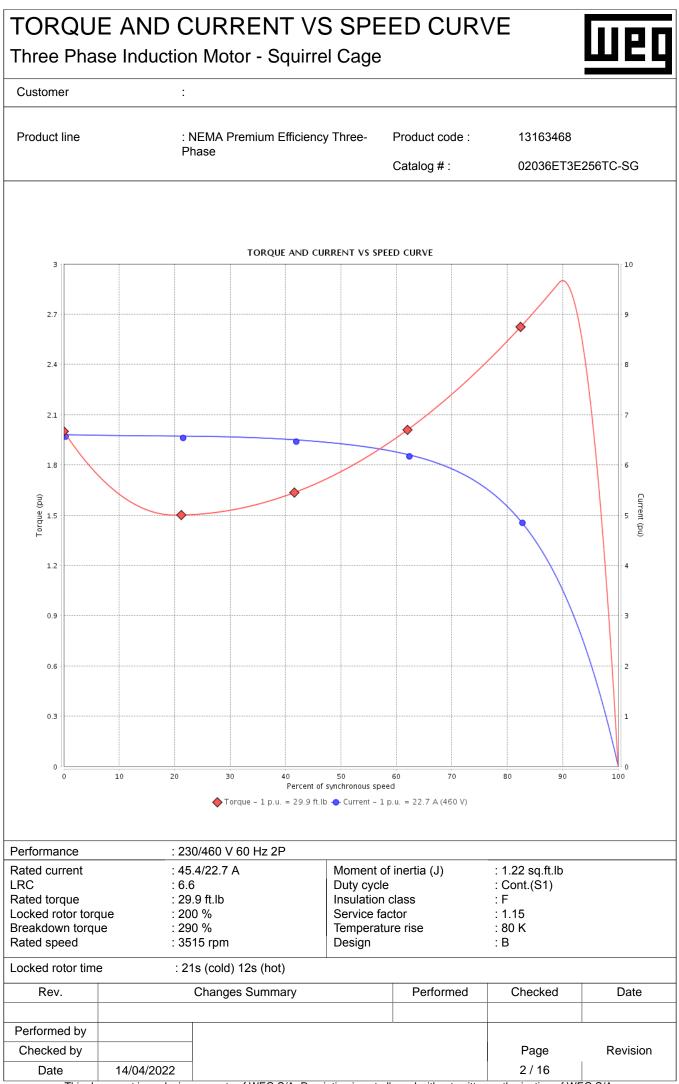
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Efficiency T Phase	hree- Product code :	13163468
		1 11450	Catalog # :	02036ET3E256TC-SG
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 254/6TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B	Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 211 lb : 1.22 sq.ft.lb
Output [HP]		20	15	15
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		45.4/22.7	40.8/20.4	36.8/19.5
. R. Amperes [A]		300/150	302/151	298/158
_RC [A]		6.6x(Code G)	7.4x(Code H)	8.1x(Code J)
No load current [A		13.8/6.88	13.6/6.79	13.7/7.26
Rated speed [RPN	/]	3515	2925	2935
Slip [%]		2.36	2.50	2.17
Rated torque [ft.lb]		29.9	26.9	26.8
Locked rotor torqu		200	210	240
Breakdown torque [%]		290	310	340
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		21s (cold) 12s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)
Noise level <sup>2</sup>	0=01	75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
	25%	89.7	91.9	91.8
Efficiency (%)	50%	90.0	91.6	91.5
	75%	91.0	91.7	92.0
	100%	91.0	91.2	91.4
	25%	0.55	0.52	0.48
Power Factor	50%	0.81	0.79	0.75
	75% 100%	0.88	0.87	0.85
	100%	0.91	0.90	0.89
Sealing:V'RingLubrication interval:15797Lubricant amount:13 g		: 6309 Z C3 6208 Z C3 : V'Ring Without Bearing Seal : 15797 h 20000 h	Foundation loads Max. traction Max. compression	: 332 lb : 543 lb
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v	aces and car ed. lotor from the lm and with t veight subject pocess.	ncel the previous one, which	-	based on tests with sinusoidal e tolerances stipulated in NEMA
manufacturing pro	l load.			<u> </u>
manufacturing pro (4) At 100% of ful Rev.		Changes Summary	Performed	Checked Date
(4) At 100% of ful Rev.		Changes Summary	Performed	Checked Date
(4) At 100% of ful Rev. Performed by		Changes Summary	Performed	
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### TORQUE AND CURRENT VS SPEED CURVE

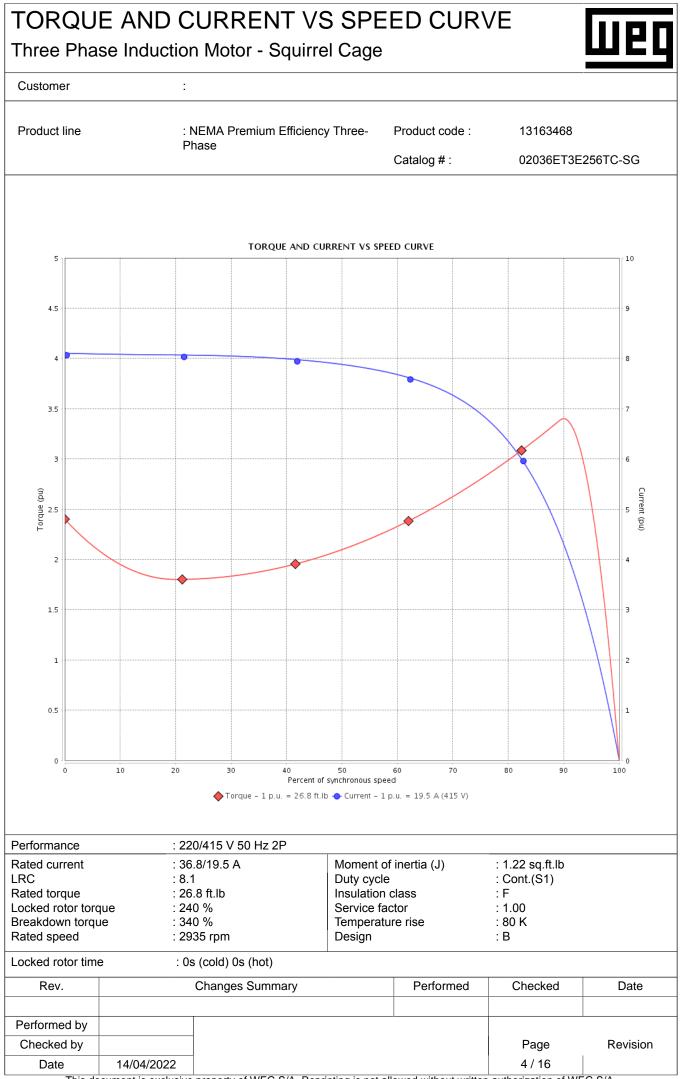
Three Phase Induction Motor - Squirrel Cage

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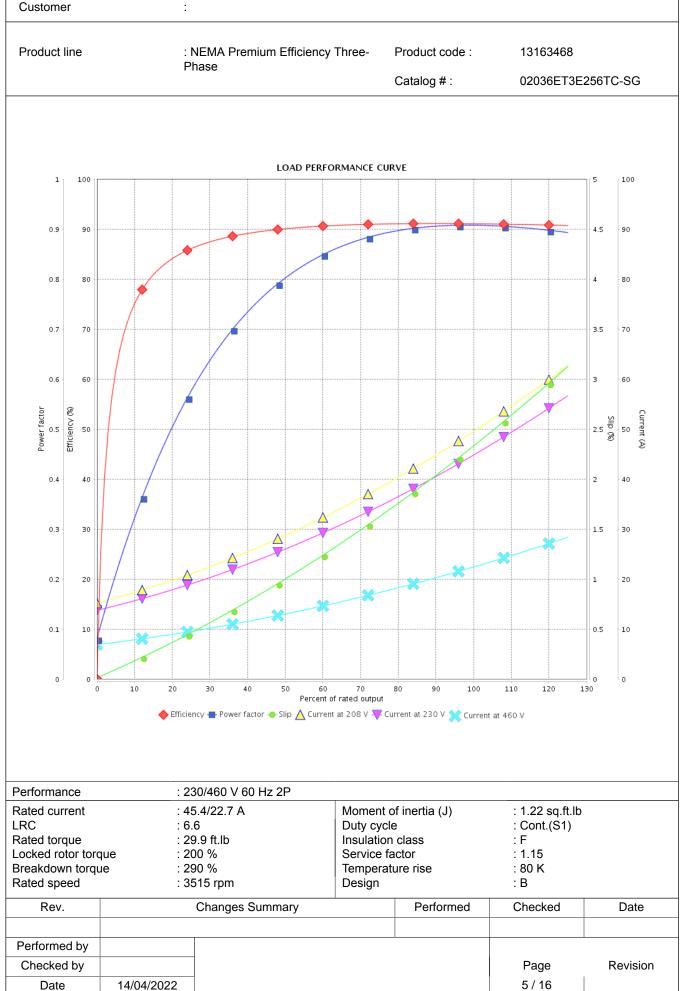
Product line	: NE Pha	MA Premium Efficiency T	iency Three- Product code :		13163468 02036ET3E256TC-SG	
	1 10			Catalog # :		
		TORQUE AND CURRE	ENT VS SPEEL	) CURVE		
5						10
4.5						9
4						8
•	•	•				
3.5						7
3						6
(nd)						Curr
(nd) 91 2.5 10 10						Current (pu)
2				•		4
		•				
1.5						З
1 -						2
0.5						1
0						
0	10 20	Percent of synd	50 6 chronous speed		80 90	100
		🔶 Torque – 1 p.u. = 26.9 ft.lb 🔦	Current – 1 p.i	ı. = 20.4 A (380 V)		
erformance	: 190/	380 V 50 Hz 2P				
ated current	: 7.4	C	/loment of i Duty cycle		: 1.22 sq.ft.lb : Cont.(S1)	
ated torque ocked rotor torqu	: 26.9 e : 210	ft.lb lr	nsulation cl Service fact		: F : 1.00	
eakdown torque		% Т	emperature Design		: 105 K : B	
cked rotor time		cold) 0s (hot)	-			
Rev.	C	hanges Summary		Performed	Checked	Date
erformed by						
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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



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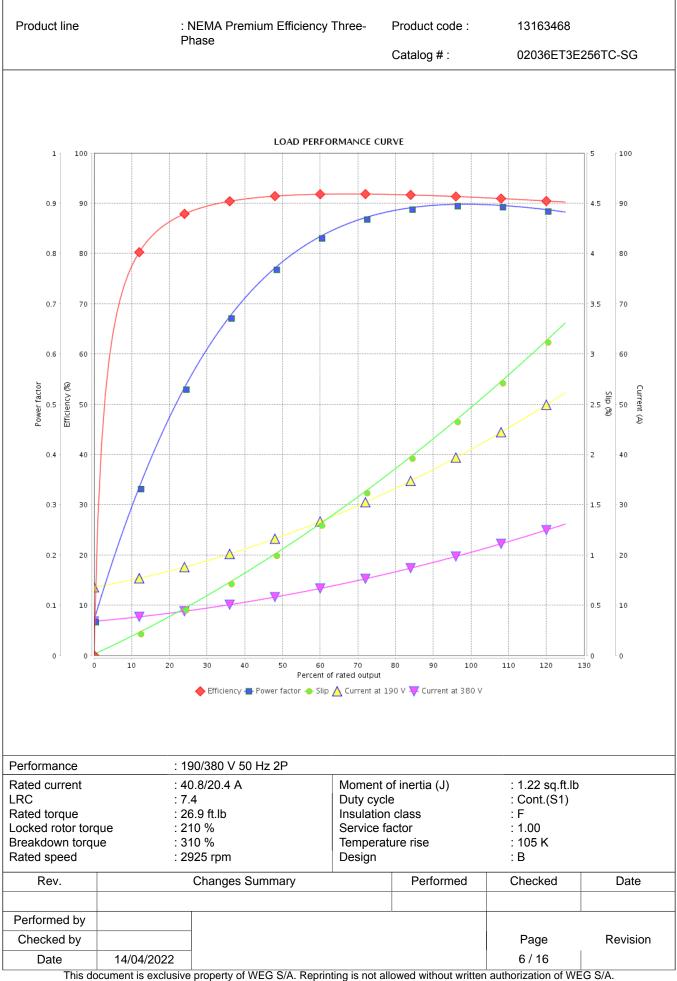
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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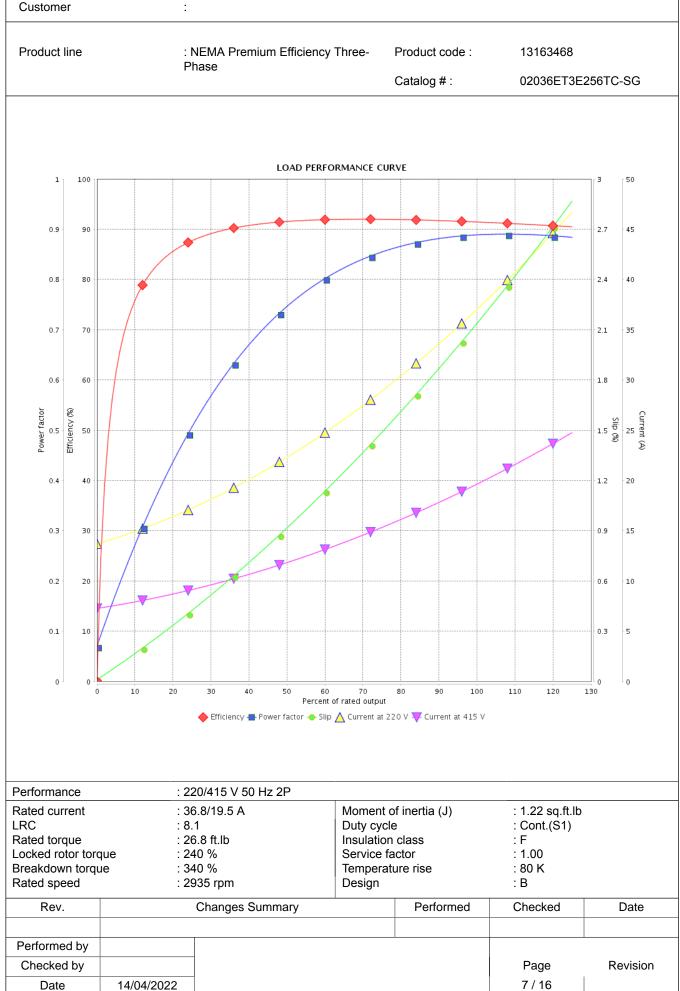
Customer



## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

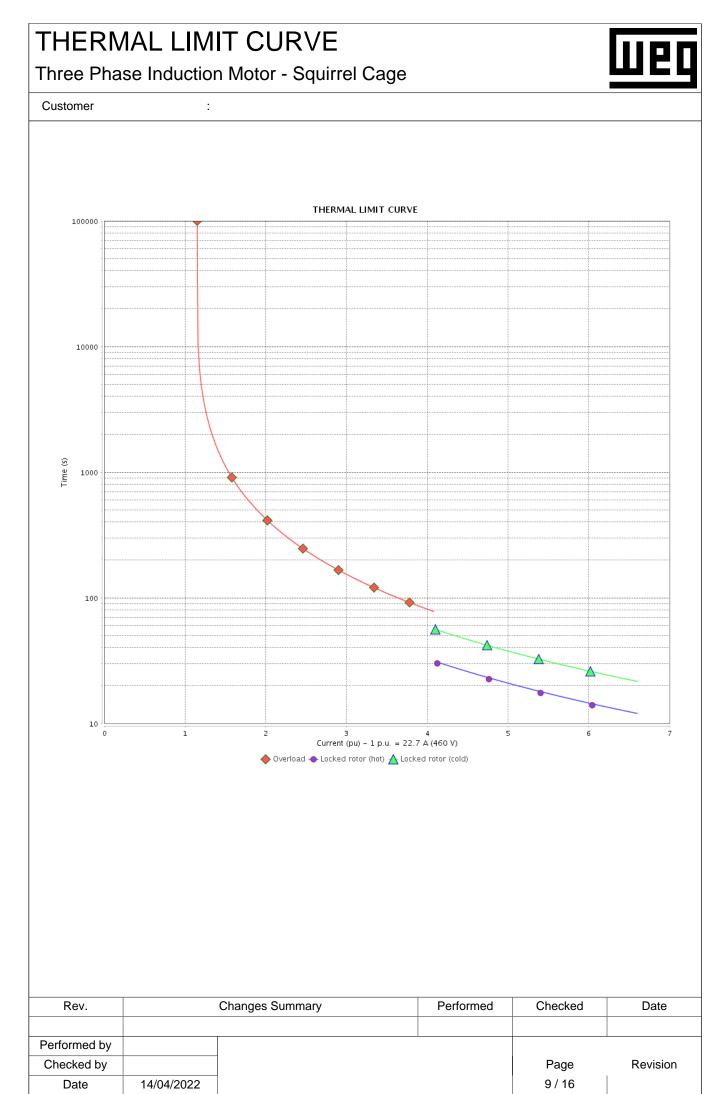
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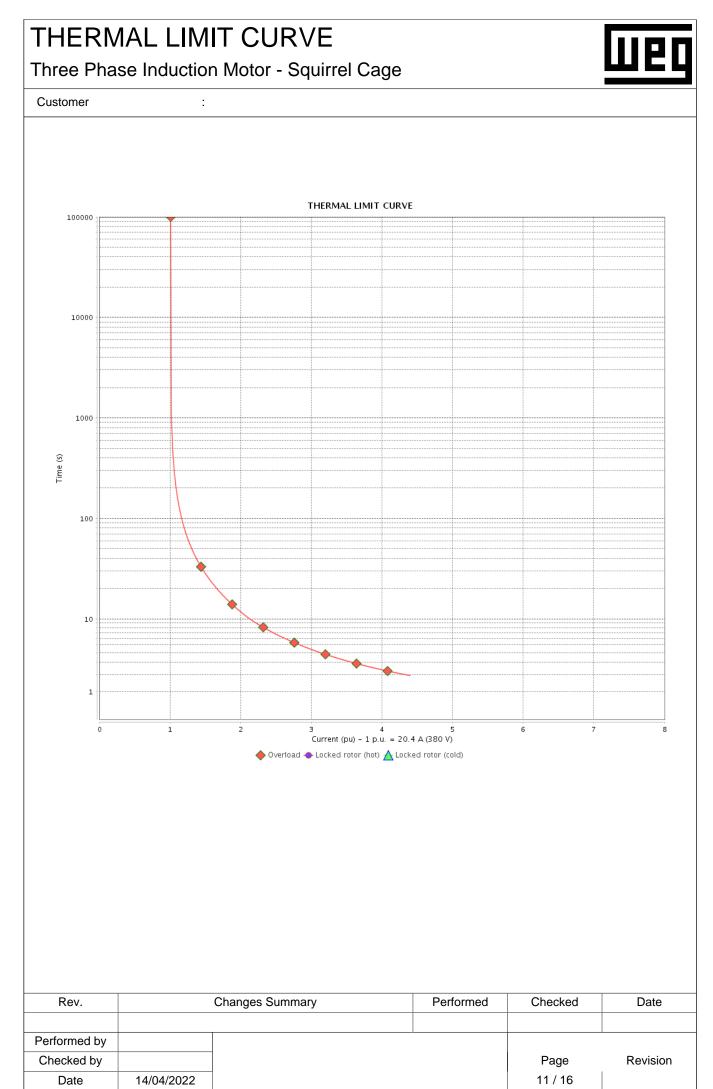
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	13163468
		Catalog # :	02036ET3E256TC-SG

Performance	-	230/460 V 60 Hz 2P				
Rated current	current : 45.4/22.7 A		Moment of inertia (J)		: 1.22 sq.ft.lb	
LRC	: 6.6		Duty cycle		: Cont.(S1)	
Rated torque : 29.9 ft.lb		29.9 ft.lb	Insulation class		:F	
Locked rotor torc	Locked rotor torque : 200 %		Service fa	ctor	: 1.15	
Breakdown torque : 290 %		290 %	Temperati	ure rise	: 80 K	
Rated speed	:	3515 rpm	Design		: B	
Heating constant	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
Date	14/04/2022				8 / 16	



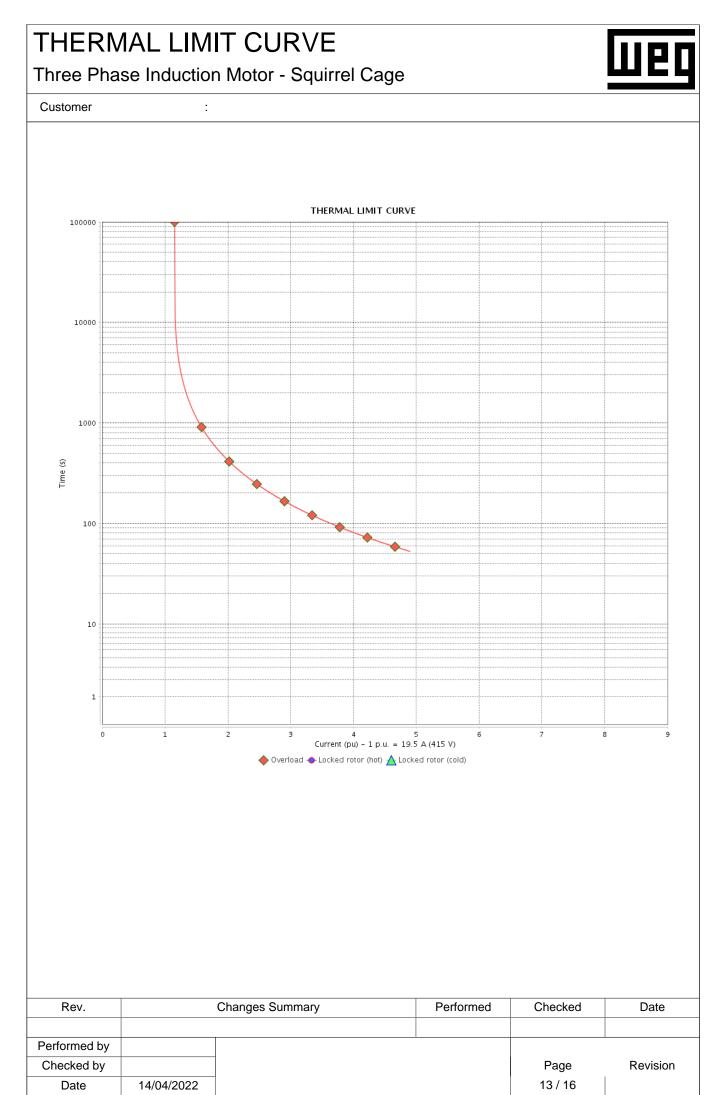
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three-	Product code :	13163468			
	Phase	Catalog # :	02036ET3E256TC-SG			

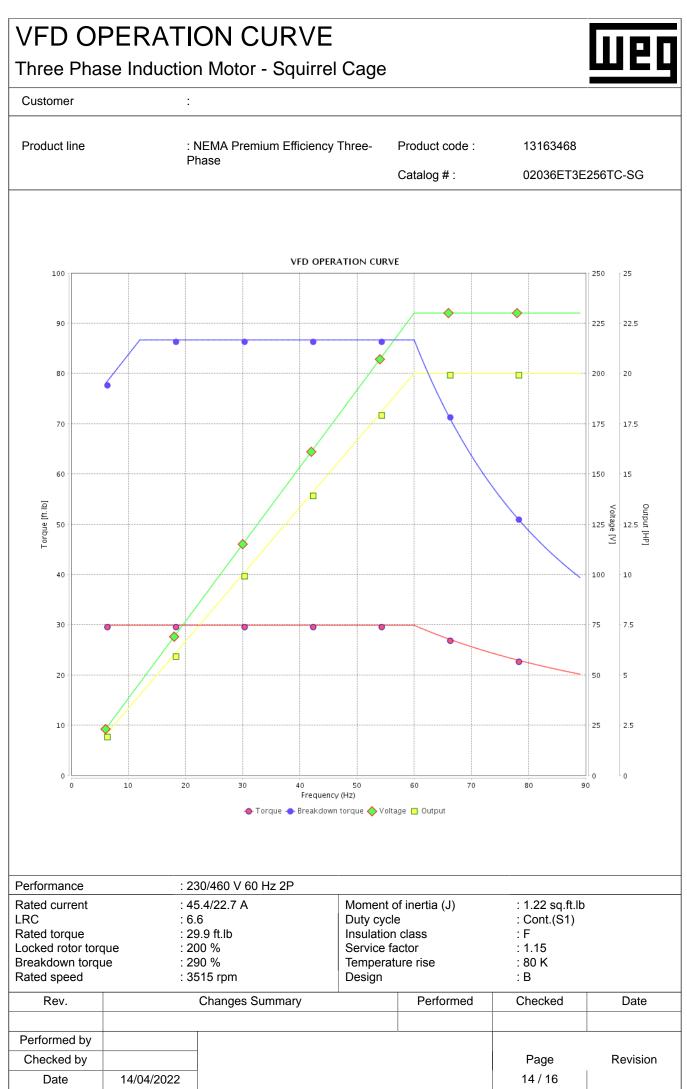
Performance	: 1	90/380 V 50 Hz 2P				
LRC: 7.Rated torque: 26Locked rotor torque: 27Breakdown torque: 37		0.8/20.4 A .4 6.9 ft.lb 10 % 10 % 925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.22 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constan Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
Date	14/04/2022				10 / 16	



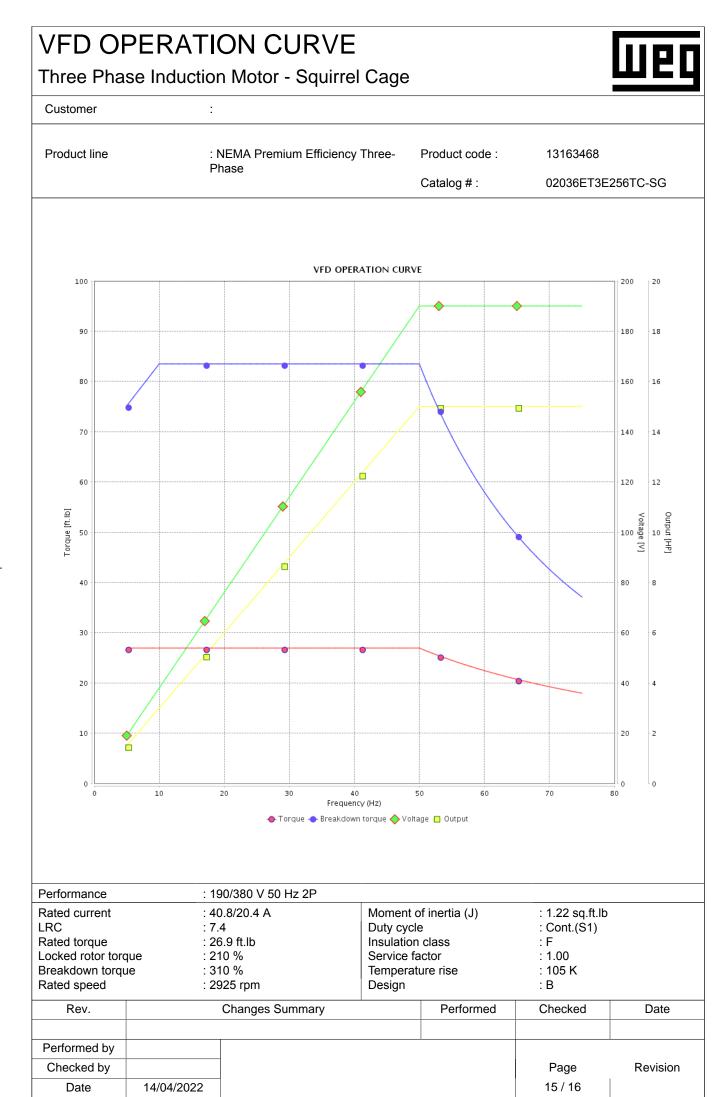
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	13163468 02036ET3E256TC-SG

Performance	: 2	20/415 V 50 Hz 2P				
Rated current	: 3	6.8/19.5 A	Moment of inertia (J)		: 1.22 sq.ft.lb	
LRC	: 8	.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	6.8 ft.lb	Insulation	class	:F	
Locked rotor tor	que : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	.e::34	40 %	Temperatu	ure rise	: 80 K	
Rated speed	: 2	935 rpm	Design		: B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022	1			12 / 16	

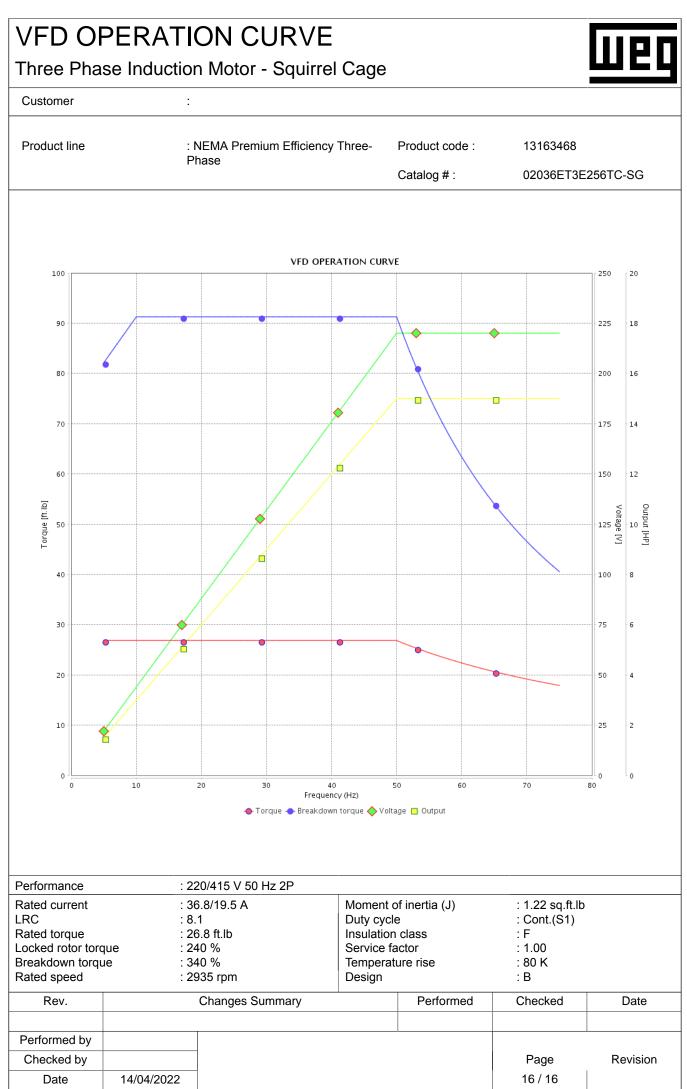




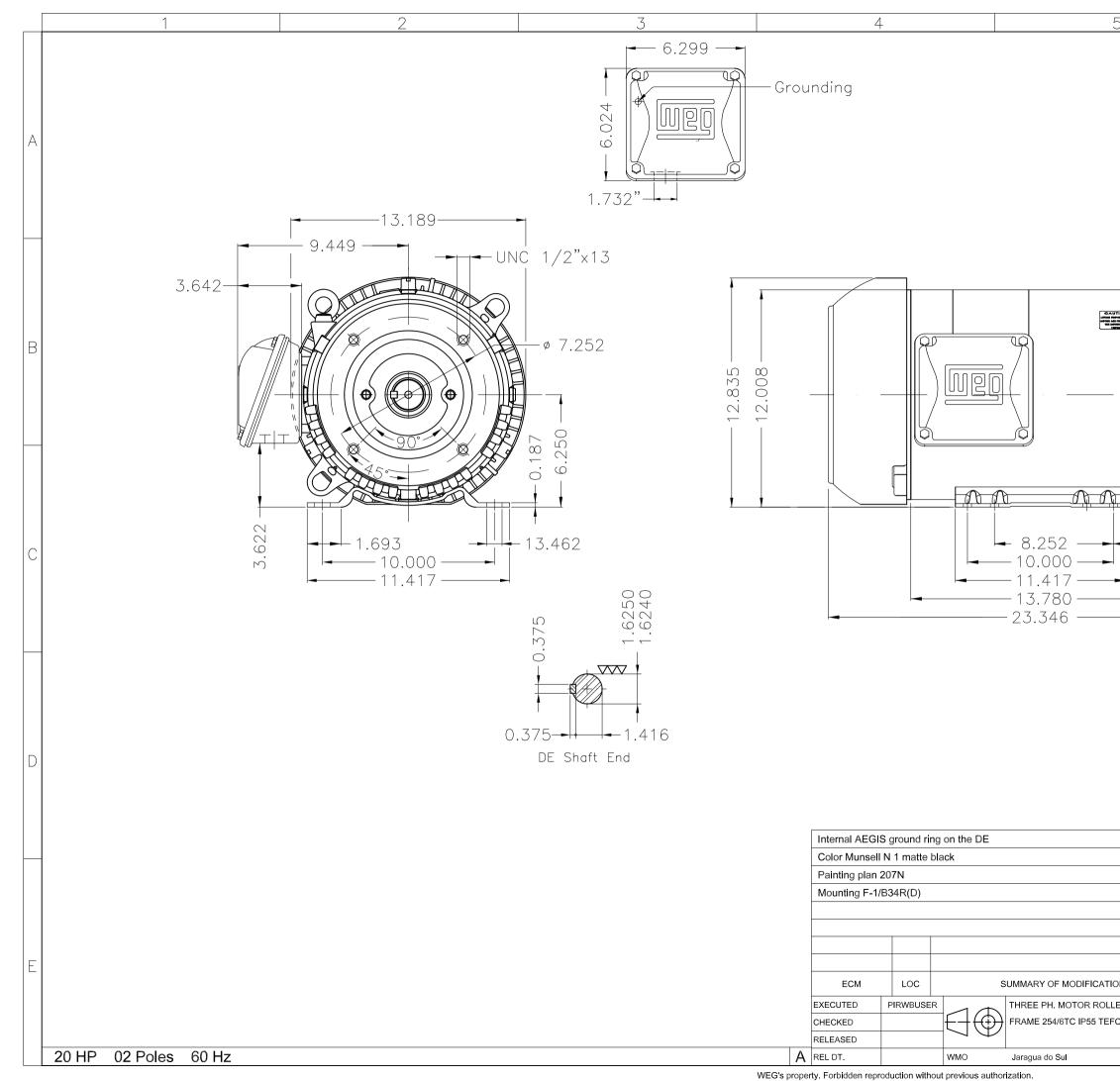
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						Dimensions in inches
ONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL PREM. E FC		PREVI WDD	EW	ШВ	9	E A3
Produc	t Engineering	SHEET	1 / 1			XME