# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Product line		: NEMA Premium Effi	ciency Three-	Produ	ct code :	14157	409	
		Phase		Catalog # :		75018ET3G588/9-W22		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree		: 588/9T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55	Mour Rota Start Appr	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 : 5770 lb : 347 sq.ft.lb		
Output [HP]	-	750	640		64		640	
Poles		4	4		4	-	4	
Frequency [Hz]		60	50		5	0	50	
Rated voltage [V]		460	380		40		415	
Rated current [A]		855	871		83		826	
. R. Amperes [A]		6156	6271		67		7186	
RC [A]	-	7.2x(Code H)	7.2x(Code	eH)	8.1x(C		8.7x(Code K)	
No load current [A		320	315		34		366	
Rated speed [RPN	/I]	1790	1490		14		1490	
Slip [%] Patad targua [ft lb]	1	0.56 2200	0.67 2260		0.6		0.67 2260	
Rated torque [ft.lb]		2200	2260		22		2260	
Locked rotor torque [%] Breakdown torque [%]		240	220		20		270	
Service factor	.[,0]	1.00	1.00		1.0		1.00	
Temperature rise		80 K	80 K		80		80 K	
Locked rotor time		52s (cold) 29s (hot)	39s (cold) 22	s (hot)	39s (cold)		39s (cold) 22s (hot)	
Noise level <sup>2</sup>		81.0 dB(A)	76.0 dB(		76.0 0		76.0 dB(A)	
	25%	96.1	96.1	,	96	. ,	95.4	
	50%	96.3	96.2		96.2		95.8	
Enciency (%)	75%	96.6	96.5		96	.5	96.2	
	100%	96.7	96.5		96	.5	96.5	
	25%	0.45	0.46		0.4		0.39	
Power Factor	50%	0.70	0.71		0.6		0.64	
	75%	0.80	0.81		0.7		0.76	
	100%	0.85	0.85		0.8	34	0.82	
Bearing type Sealing Lubrication interval		: 6322 C3 63 : Taconite Ta Labyrinth Lat : 6000 h 80	19 C3 Max. conite Max. pyrinth 000 h	Foundation loads Max. traction : 10762 lb Max. compression : 16533 lb				
Lubricant amoun Lubricant type	ıt	: 60 g 4 : Mobil Polyrex E	15 g EM					
Notes								
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	acel the previous one, where shaft end. olerance of +3dB(A). t to changes after		supply, s			sts with sinusoidal s stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A).	powe MG-1	supply, s			stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after	powe MG-1	supply, s	subject to th	e tolerances	stipulated in NEMA	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after	powe MG-1	supply, s	subject to th	e tolerances	stipulated in NEMA	

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

### DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer

:



Space heater information

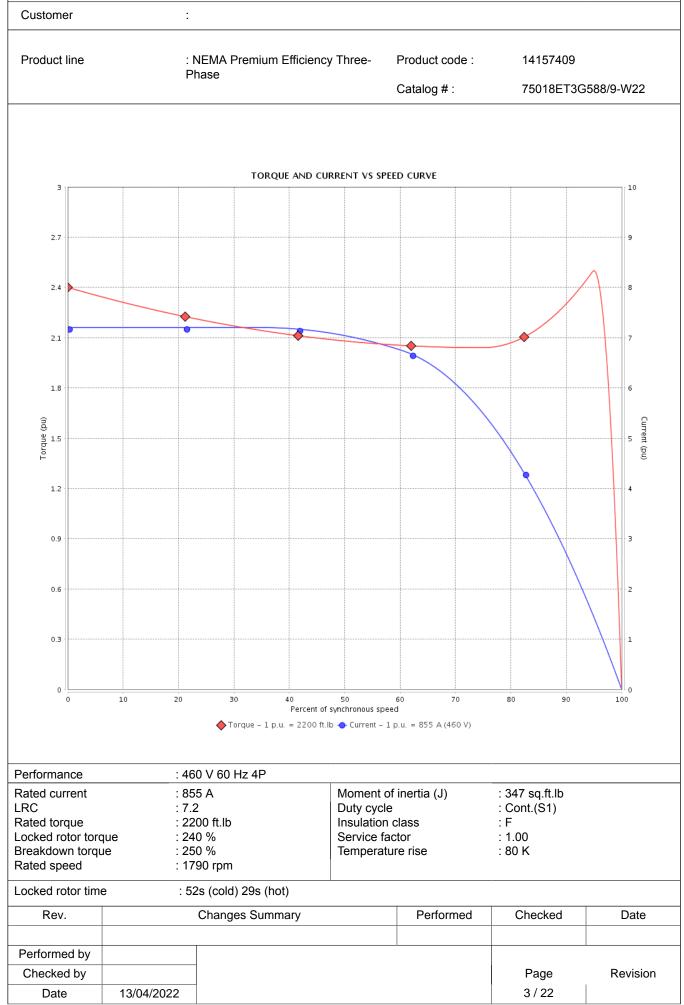


#### Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision 13/04/2022 2/22 Date

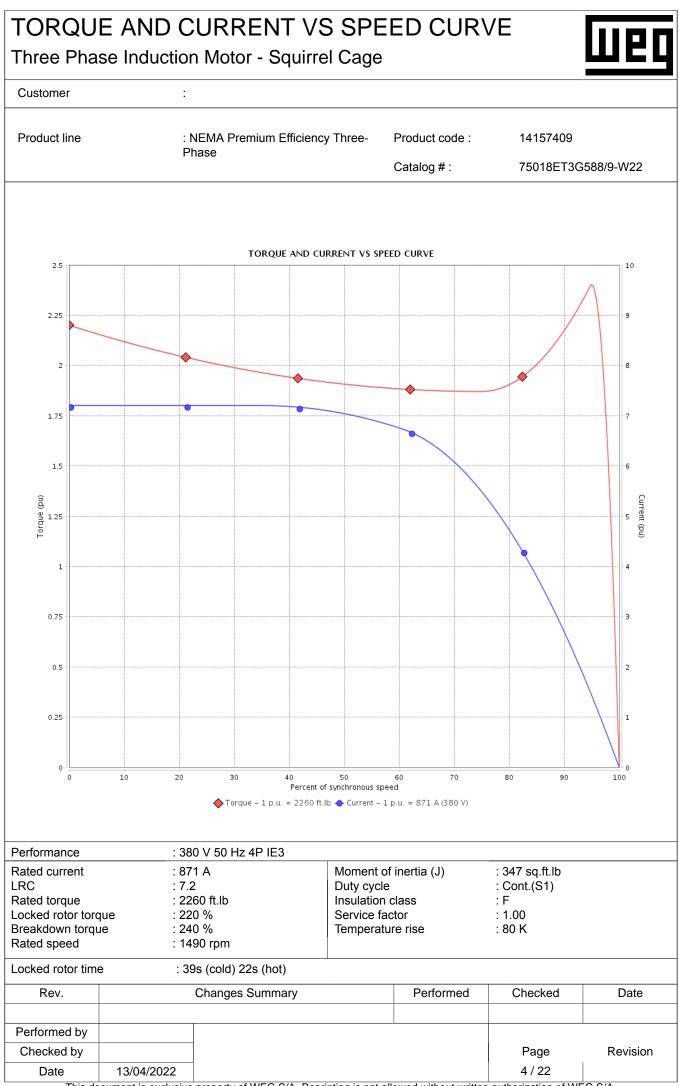


### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



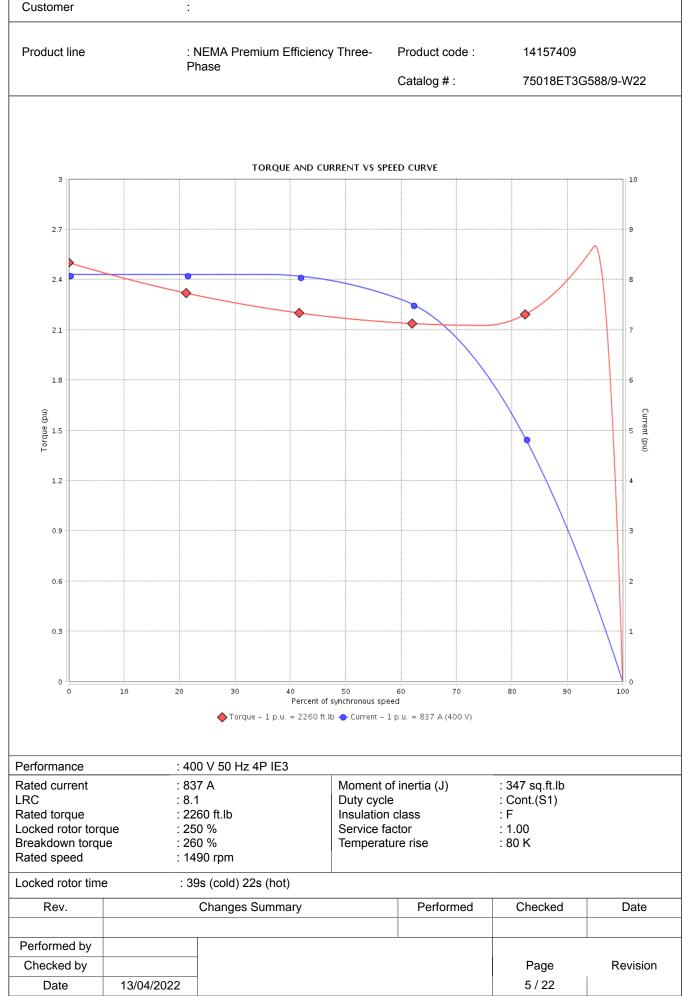
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



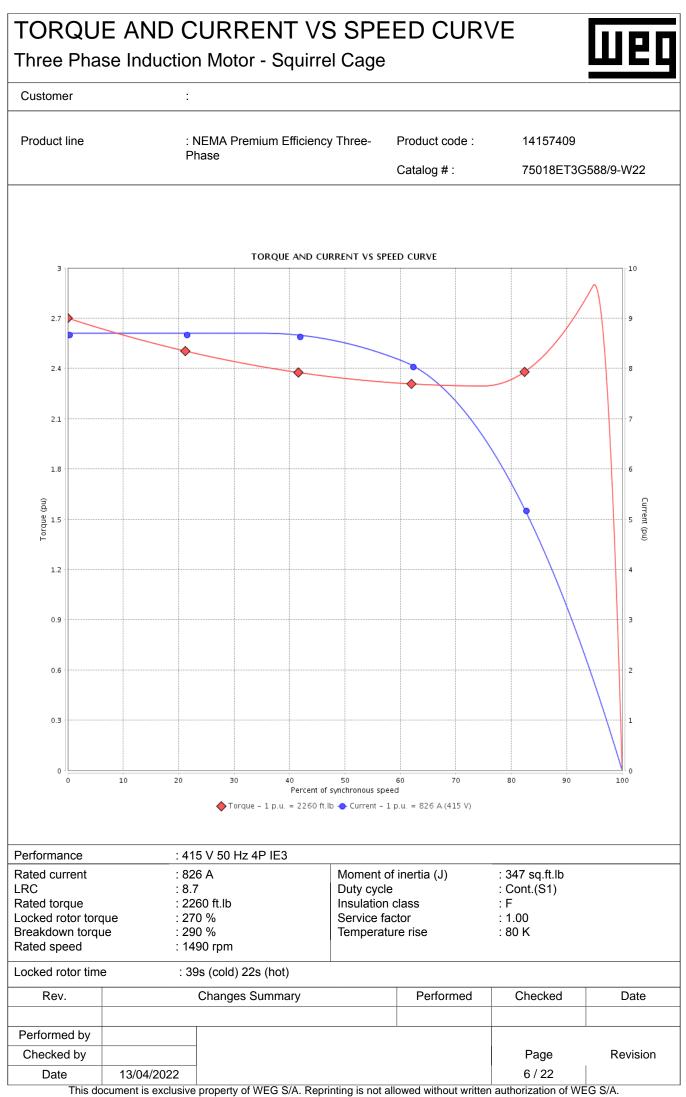
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





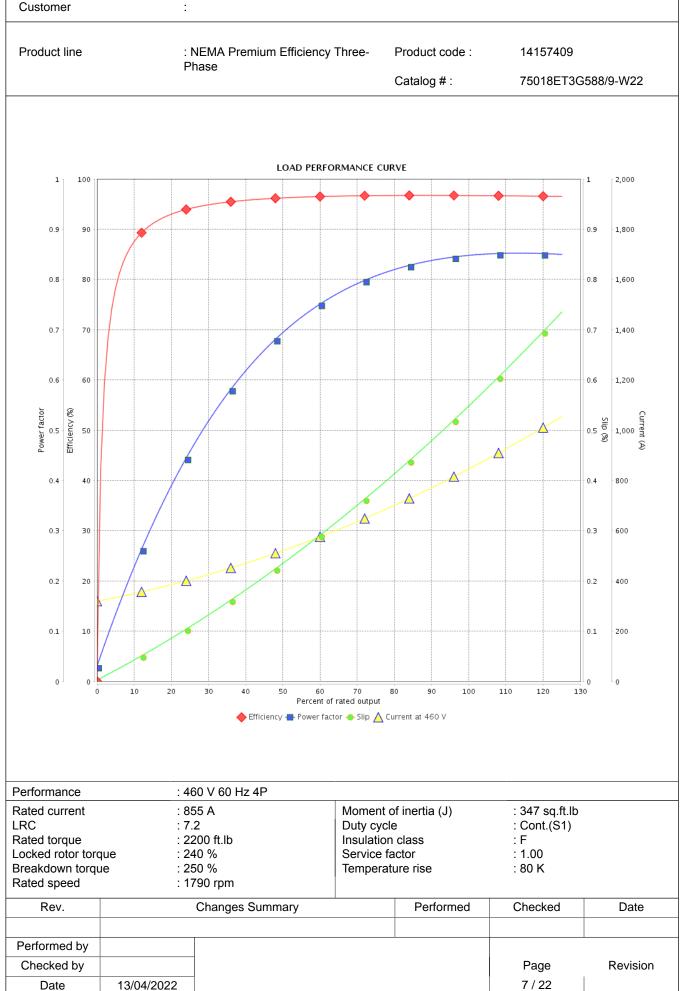
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



Subject to change without notice

Three Phase Induction Motor - Squirrel Cage

### Customer



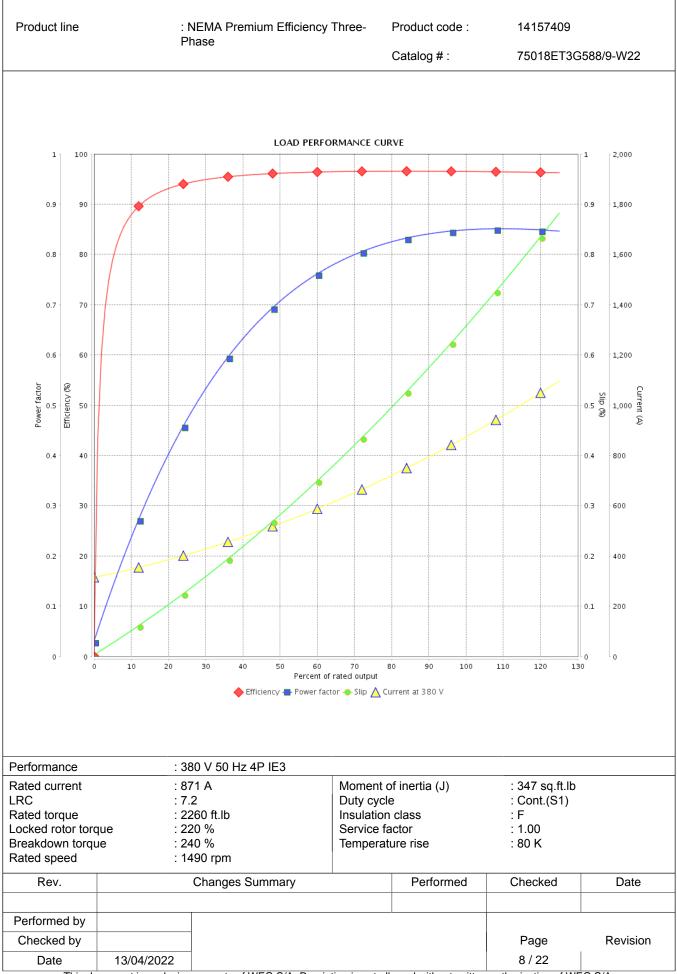
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

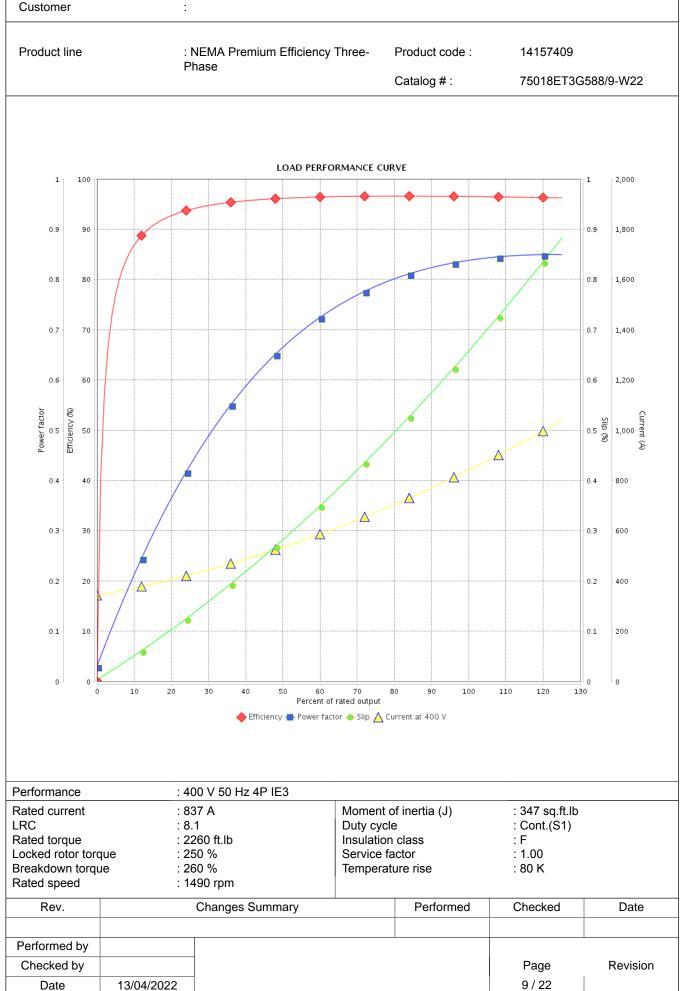


Customer



Three Phase Induction Motor - Squirrel Cage

#### Customer



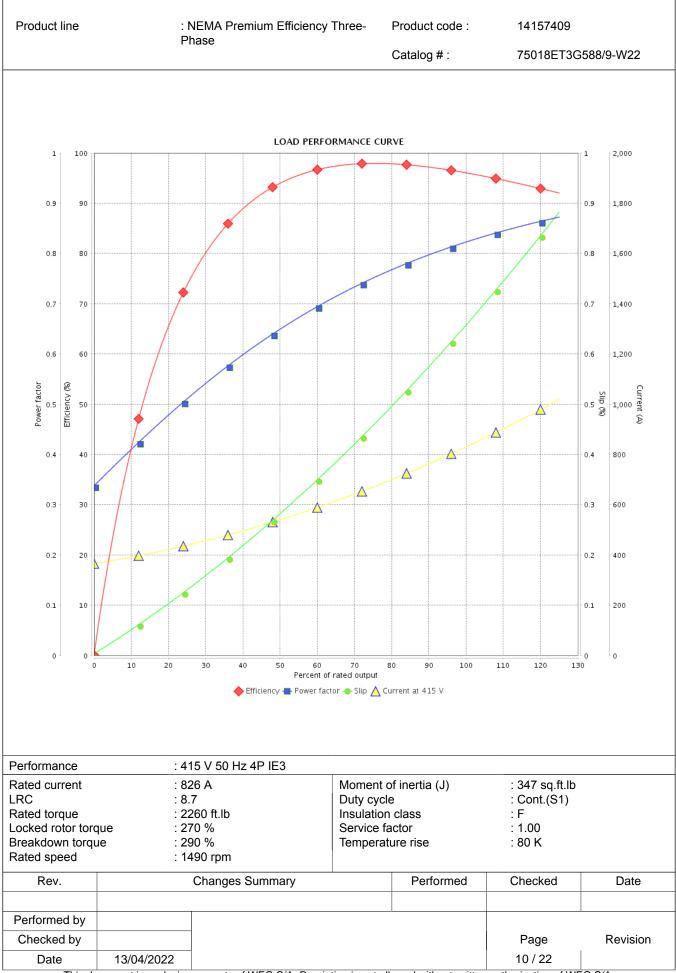
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



Customer



# THERMAL LIMIT CURVE

:

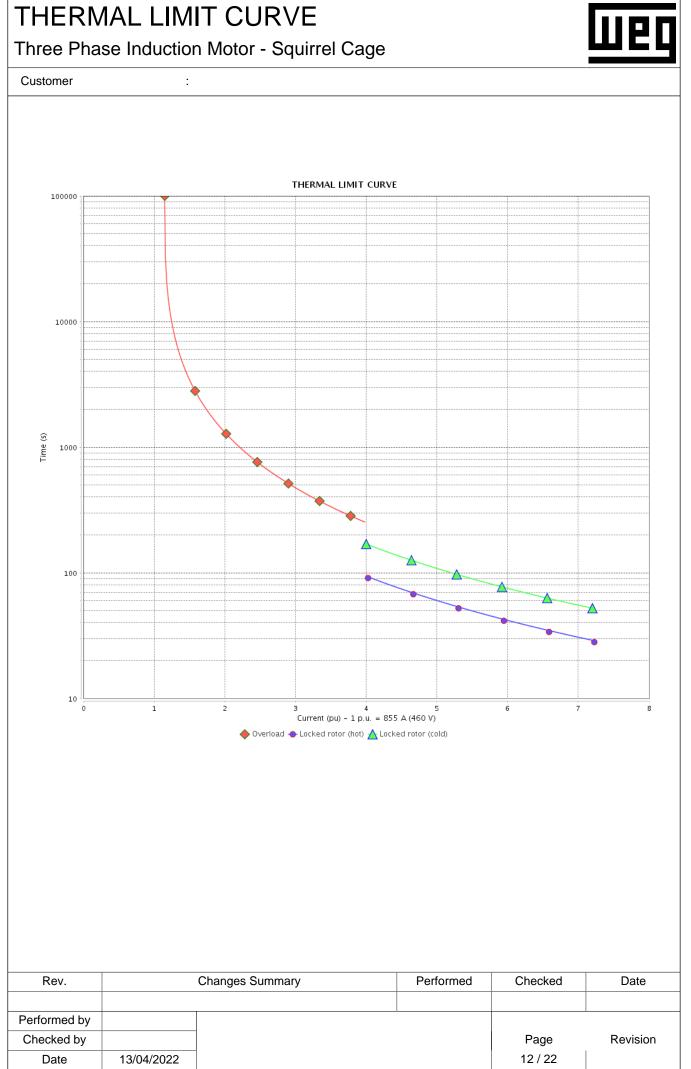
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14157409
Phase	Phase	Catalog # :	75018ET3G588/9-W22

Шед

Performance	: 4	460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 2 jue : 2	855 A 7.2 2200 ft.lb 240 % 250 % 1790 rpm	Moment or Duty cycle Insulation Service far Temperatu	class ctor	: 347 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constant	t					
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				11 / 22	
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.						



# THERMAL LIMIT CURVE

:

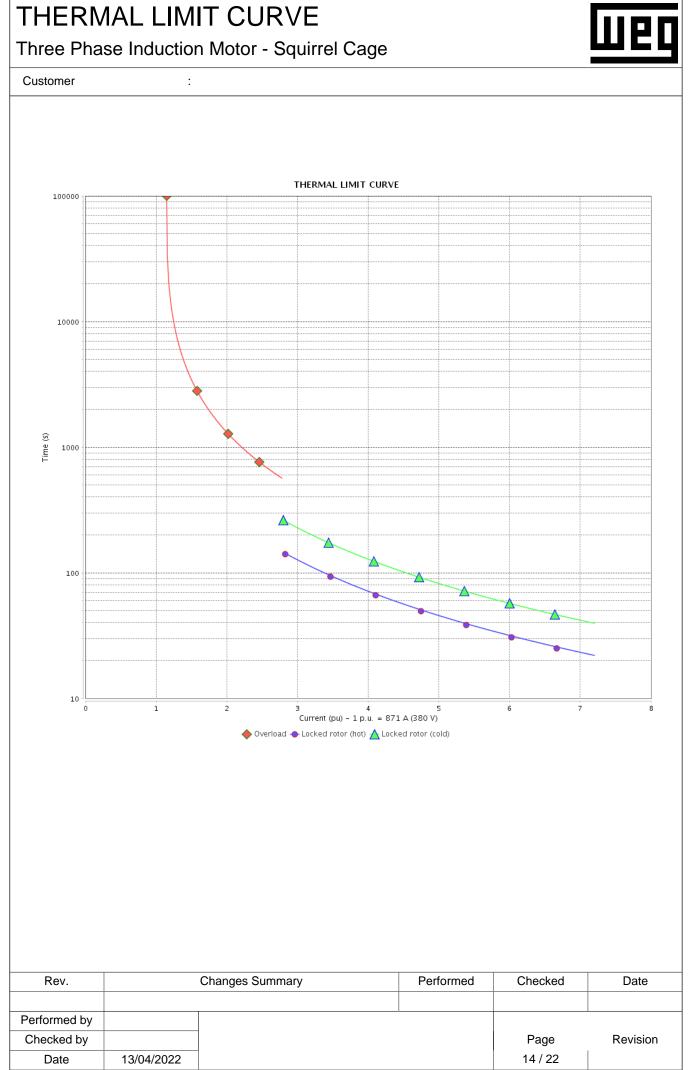
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14157409
Phase	Catalog # :	75018ET3G588/9-W22	

Шеq

Performance	:	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	871 A 7.2 2260 ft.lb 220 % 240 % 1490 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 347 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				13 / 22	
This do	cument is exclus	ive property of WEG S/A. Reprir Subject to cha	•		authorization of WEC	G S/A.



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

# THERMAL LIMIT CURVE

:

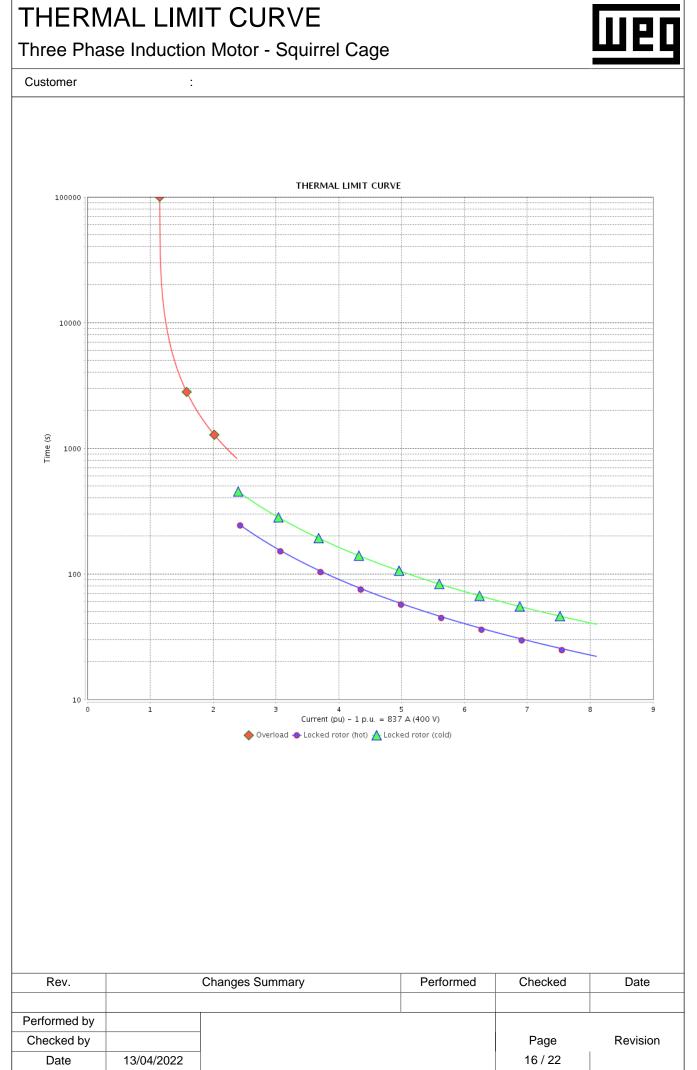
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14157409
Phase	Phase	Catalog # :	75018ET3G588/9-W22

Шед

Performance	: 4	400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8 : 2 jue : 2 ie : 2	837 A 8.1 2260 ft.lb 250 % 260 % 1490 rpm	Moment or Duty cycle Insulation Service fa Temperatu	class ctor	: 347 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K		
Heating constant	t				·		
Cooling constant	t						
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by		1			Page	Revision	
Date	13/04/2022				15 / 22		
This do	This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.						



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

# THERMAL LIMIT CURVE

:

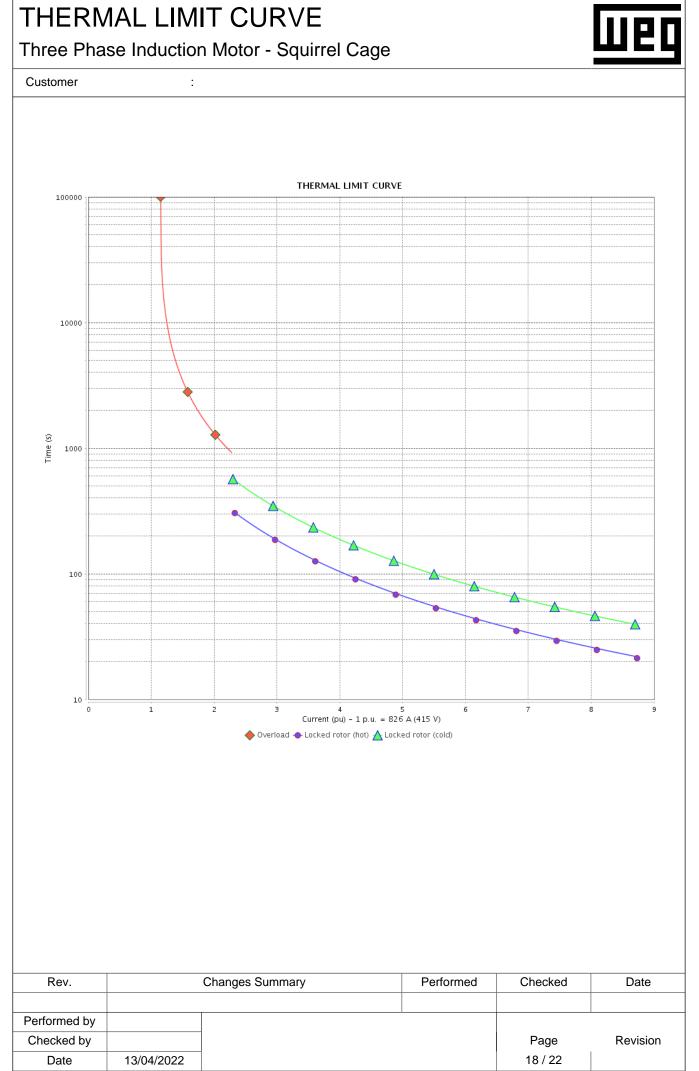
Three Phase Induction Motor - Squirrel Cage

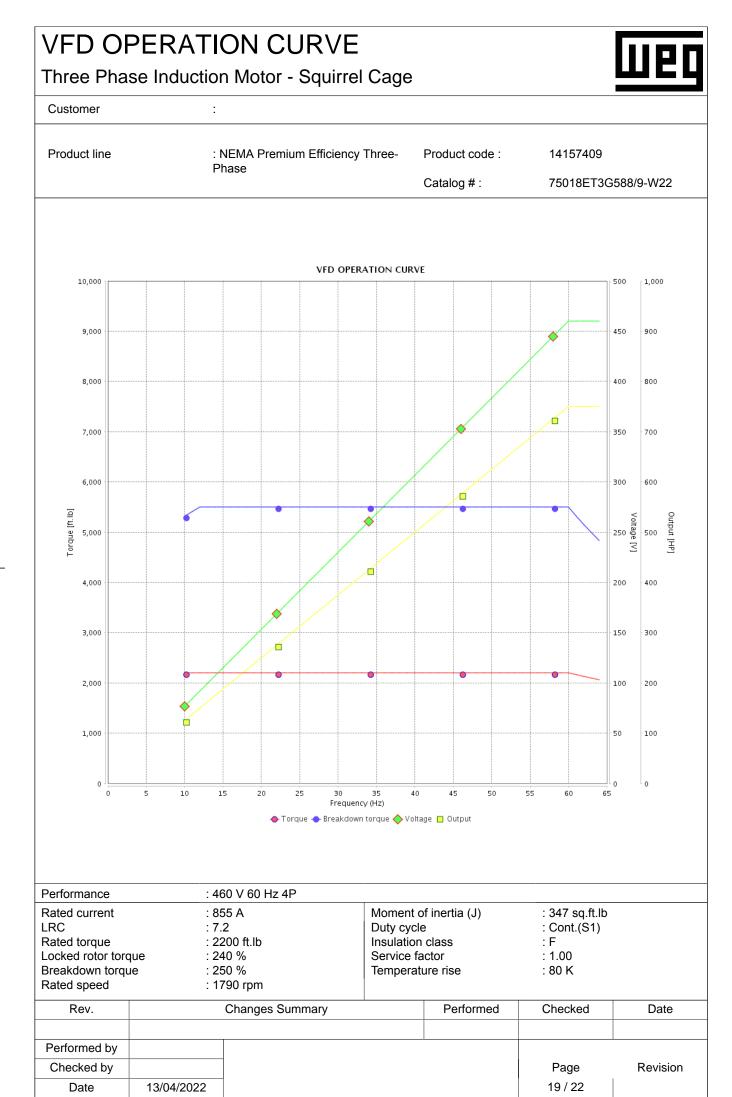
#### Customer

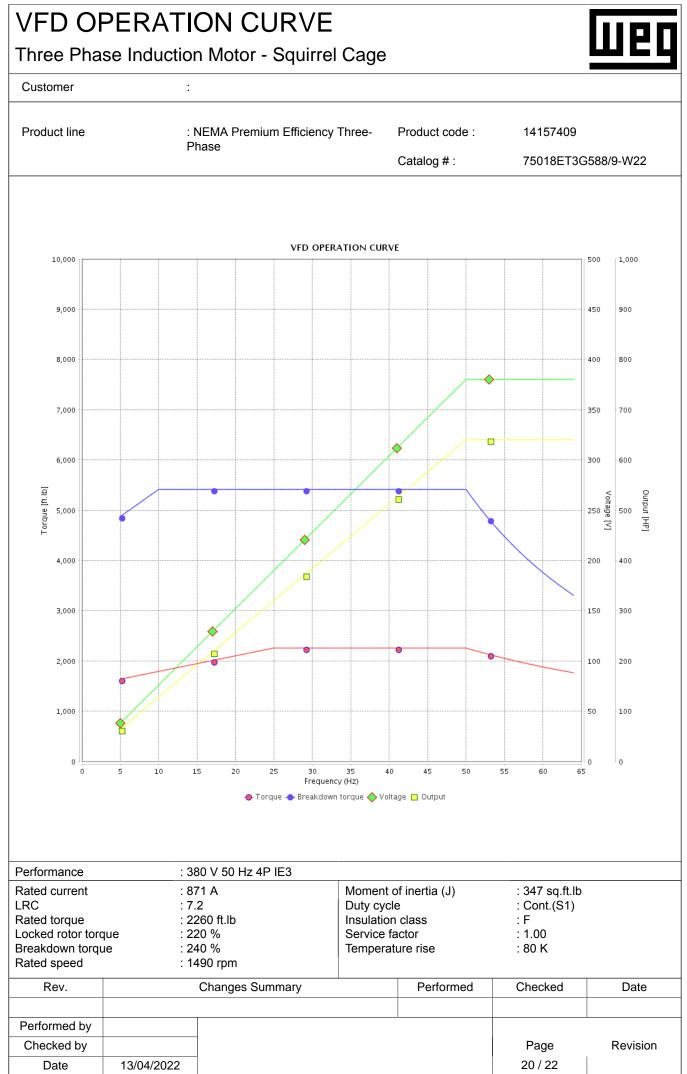
Product line	: NEMA Premium Efficiency Three-	Product code :	14157409
Phase	Phase	Catalog # :	75018ET3G588/9-W22

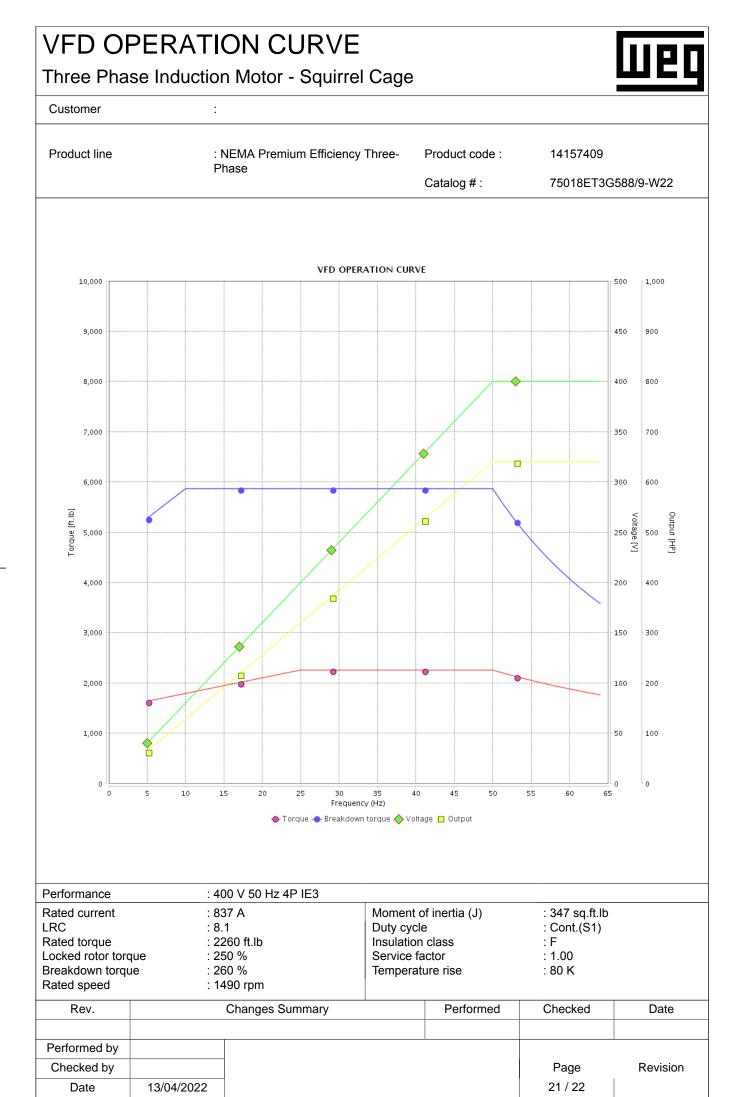
Шед

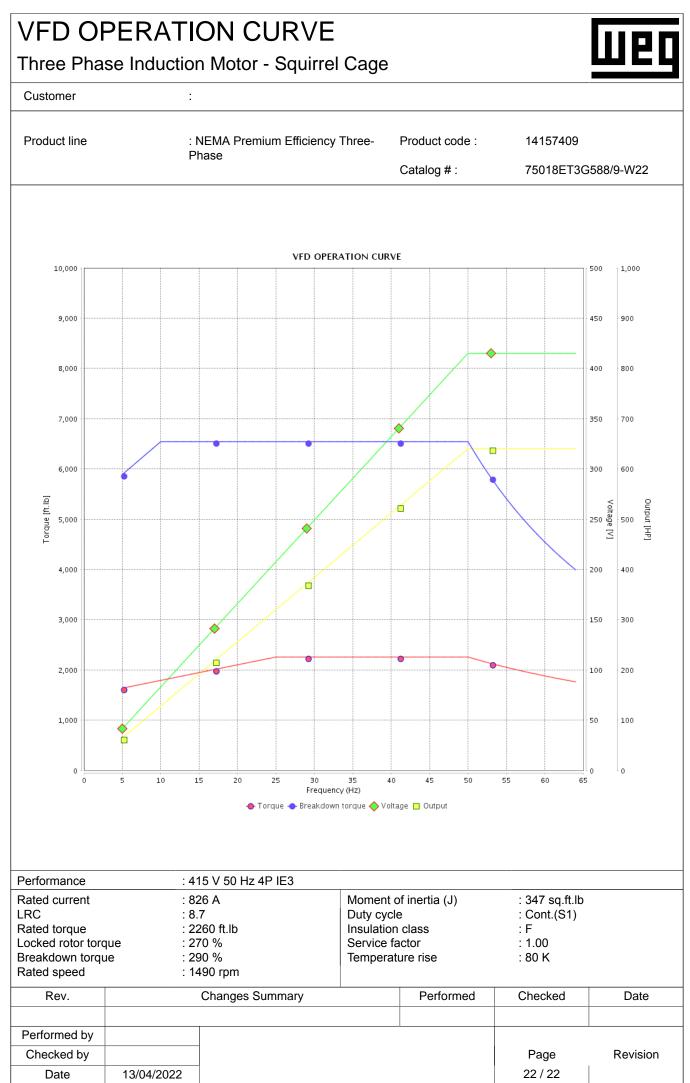
Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8. : 22 jue : 23 ie : 29	26 A .7 260 ft.lb 70 % 90 % 490 rpm	Moment of Duty cycle Insulation Service far Temperatu	class ctor	: 347 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Heating constant	t				·	
Cooling constant	:					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/04/2022	1			17 / 22	
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.						

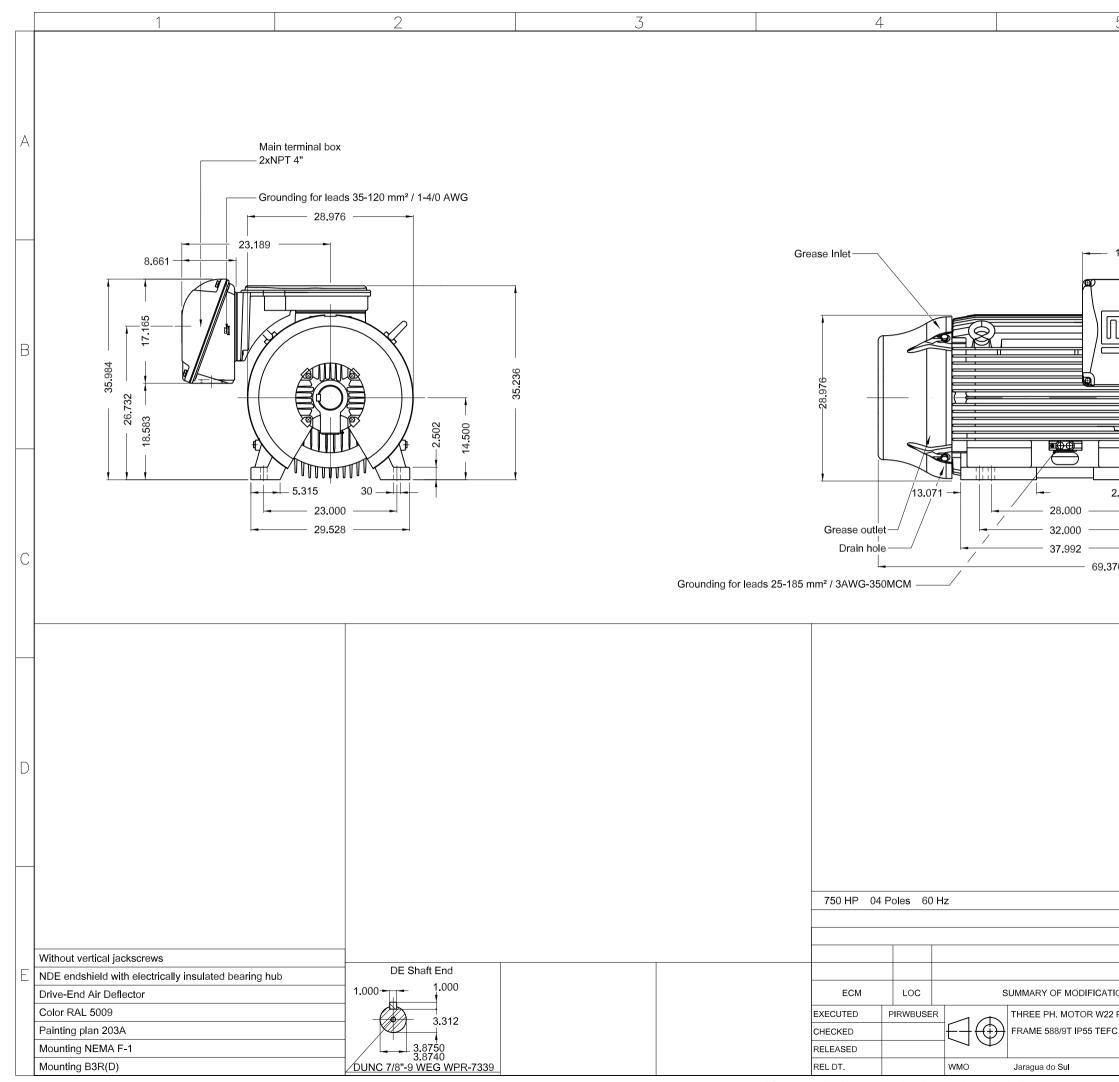












WEG's property. Forbidden reproduction without previous authorization.

5			6			
- 13.346 -						
15.906						
	Gre	ase Inlet				
	Á					
गहत( 🚽	N					
	╽║┍───	8.661				
─────────────────────────────────────						
2.756						
		11.625 Grease outlet				
		Drain hole				
/0						
						Sť
						Dimensions in inches
						sions ii
						Diment
						-
					A	
					-	
					+	
ONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
PREM. EFF.		PREV	IEW			
2		WDD		ШP		A3
Produc	t Engineering		1 / 1			XME
			,		]	



\_

Inverter Duty Motor Severe Duty CULISTIC CULIS Mod.TE1BF0X0N

For use on PWM: VT 1000:1, CT 6:1, 1.00SF

Ξ.				
Δ Δ			PART-WINDING WYE-DELTA	
BRAZ 409	PH3 60Hz	Fr. 588/9T 1000m.a.s.l. IP55 TEFC 5768lb	START RUN START RUN 011201100111 011201100111 0120100111 01120100111	
Ň	V 460	A 855		
⊇ i⊆			016 014 015 016 014 015 017 018 019 017 018 019	
ш, <del>4</del>	HP 750	kW 560	li 112 li 13	
AD 1	SF 1.00	SFA —		
Ň	RPM 1790	PF 0.85	→ 6322-C3 (60g)	
	AMB 40°C	INS cl. F DT80K NEMA NOM EFF 96.7%	≝ → 6319-C3 (45g)	
	DUTY CONT.	DES - Code H		
			MOBIL POLYREX EM (6000h)	
•				