# DATA SHEET

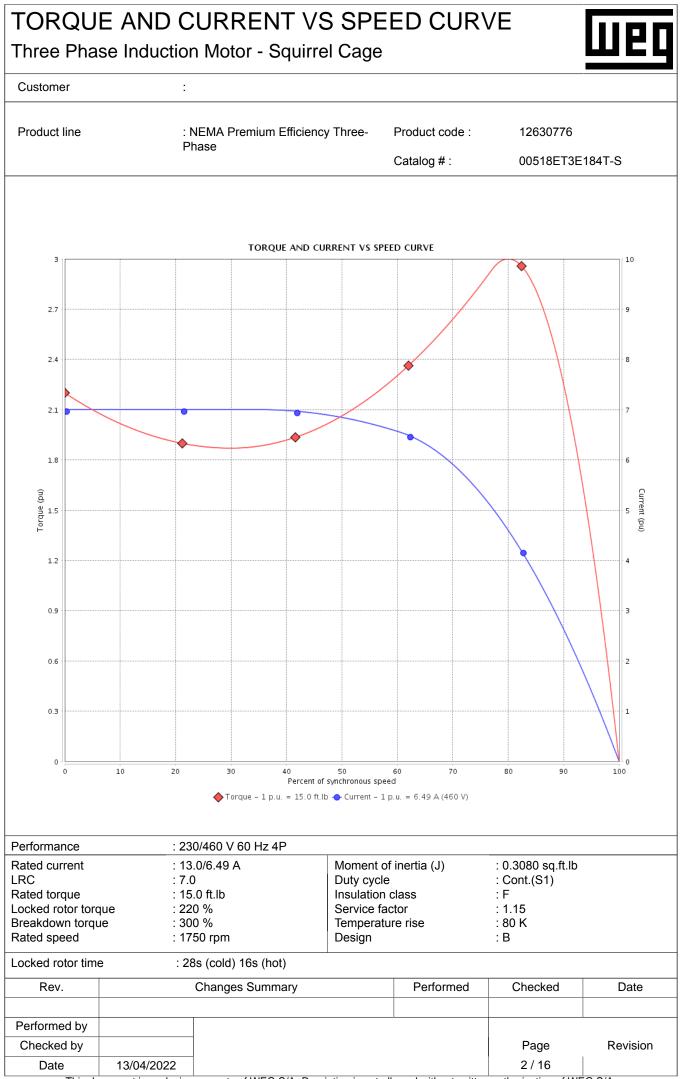
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

		: NEMA Premi Phase	ium Efficiency T	hree-	Product code :	12630776	
		1 11000			Catalog # :	00518ET3E	184T-S
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 182/4T : 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 : 77.1 lb : 0.3080 sq.ft.lb	
Output [HP]		5	5		5		5
Poles		4	ŀ		4		4
Frequency [Hz]		6	0		50		50
Rated voltage [V]		230/	460		190/380	22	20/415
Rated current [A]		13.0/			15.8/7.88		.3/7.59
L. R. Amperes [A]		90.9/	45.4		91.4/45.7	91	.6/48.6
LRC [A]		7.0x(C		5	.8x(Code G)	6.4x	Code H)
No load current [A	1	6.89/			6.74/3.37		0/3.77
Rated speed [RPN		17		<u> </u>	1425		1435
Slip [%]	-	2.7		L	5.00		4.33
Rated torque [ft.lb]	1	15			18.4		18.3
Locked rotor torqu		22		<u> </u>	170		200
Breakdown torque		30			229		260
Service factor	. [ , , ]	1.1			1.00		1.00
Temperature rise		80		<u> </u>	105 K		05 K
Locked rotor time		28s (cold)		0-	(cold) 0s (hot)		d) 0s (hot)
Noise level <sup>2</sup>							0 dB(A)
	25%	56.0 dB(A) 88.2			53.0 dB(A) 89.7		0 dB(A) 88.2
Efficiency (%)	50%	88			87.9		87.2
J \**/	75%	89			87.2		87.3
	100%	89			84.9		85.8
	25%	0.35			0.42		0.37
Power Factor	50%	0.60			0.68		0.63
	75%	0.7			0.80		0.76
	100%	0.8	80		0.84		0.82
Bearing type Sealing		Drive end 6206 ZZ V'Ring				: 265 lb : 342 lb	
Lubrication interv		: -	Bearing Seal -				
Lubricant type	it.	· - · Mobil P	- Polyrex EM				
Notes USABLE @208V	14.4A SF 1.0	00 SFA 14.4A					
This revision repla 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 to weight subject ocess.	e shaft end. olerance of +3dE	3(A).			based on tests wine tolerances stipu	
<b>D</b>		Changes Su	ummary		Performed	Checked	Date
Rev.							
Rev.							
Performed by						Page	Revision
-	13/04/2022					Page 1 / 16	Revision



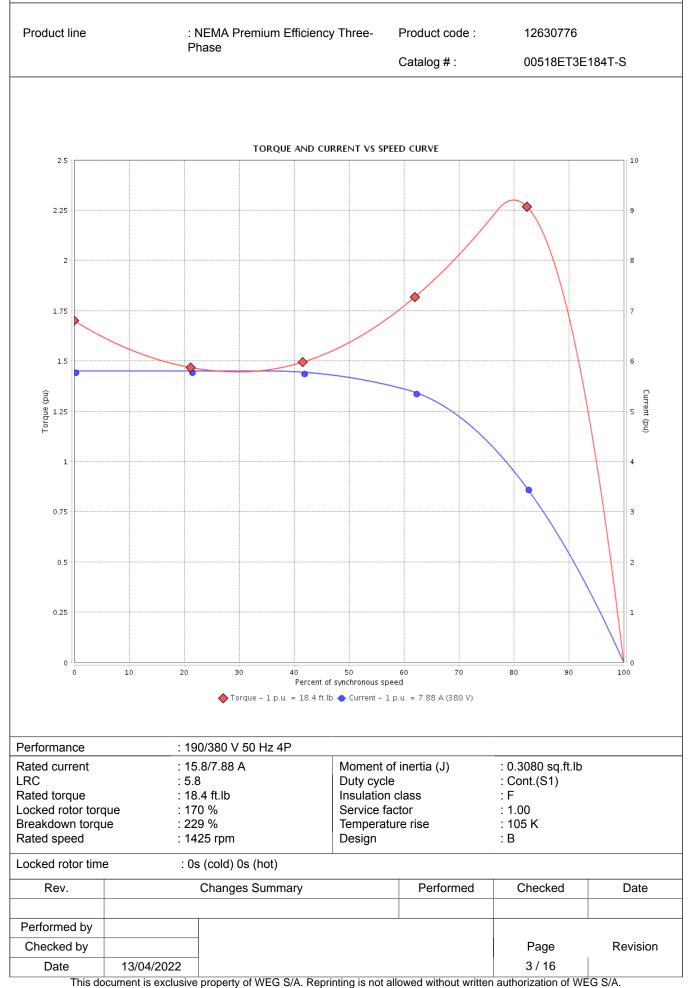
### TORQUE AND CURRENT VS SPEED CURVE

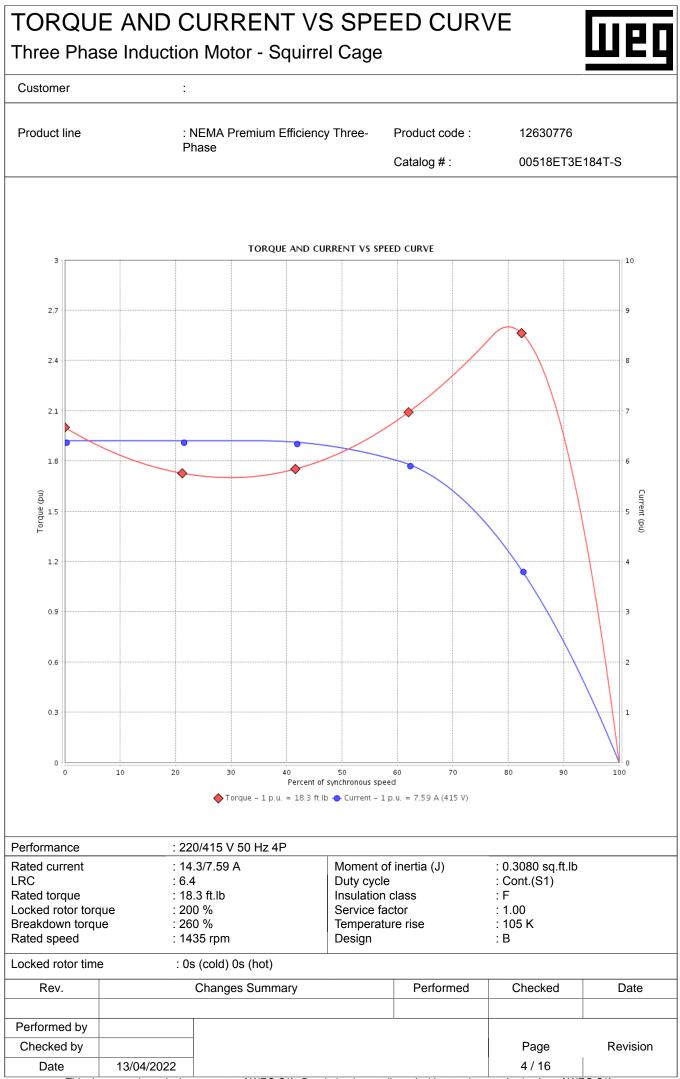
Three Phase Induction Motor - Squirrel Cage

:





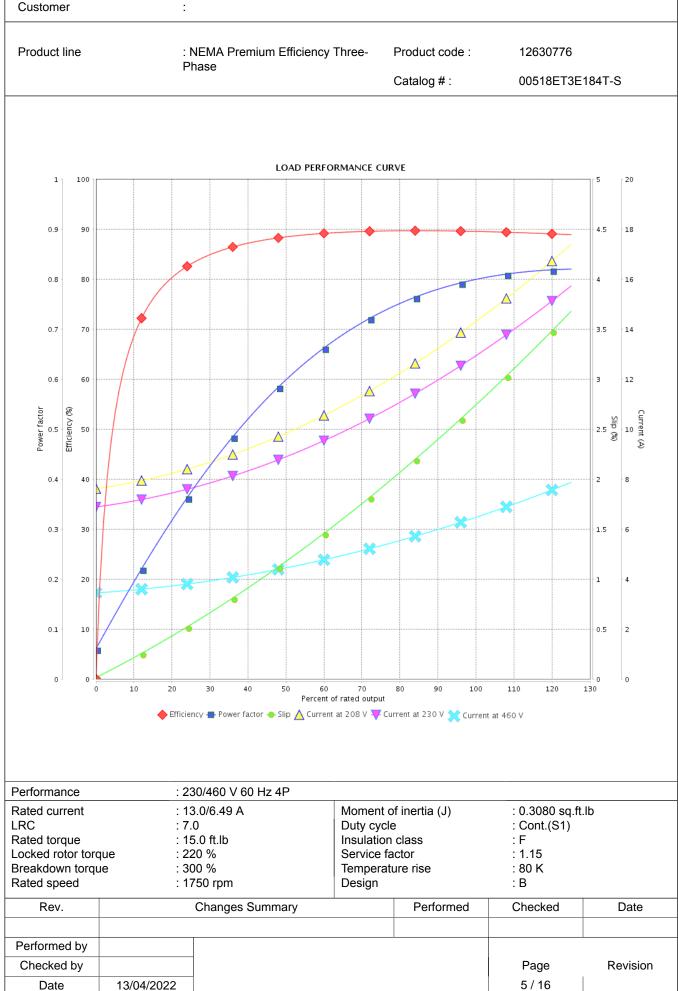




## LOAD PERFORMANCE CURVE

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.

#### LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 12630776 Phase Catalog # : 00518ET3E184T-S LOAD PERFORMANCE CURVE 20 1 100 10 9 18 0.9 90 0.8 80 8 16 $\wedge$ 7 14 0.7 70 Δ 0.6 60 6 12 $\wedge$ Power factor Efficiency (%) 10 Current Slip (%) 5 0.5 50 Þ $\triangle$ 0.4 40 4 8 $\triangle$ Δ 0.3 30 З 6 2 0.2 20 4 0.1 10 1 2 0 0 0 0 ó 10 20 110 120 130 30 40 50 60 70 80 90 100 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛆 Current at 190 V 🐺 Current at 380 V Performance : 190/380 V 50 Hz 4P : 15.8/7.88 A Rated current Moment of inertia (J) : 0.3080 sq.ft.lb LRC Duty cycle : Cont.(S1) : 5.8 : 18.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1425 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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

6/16

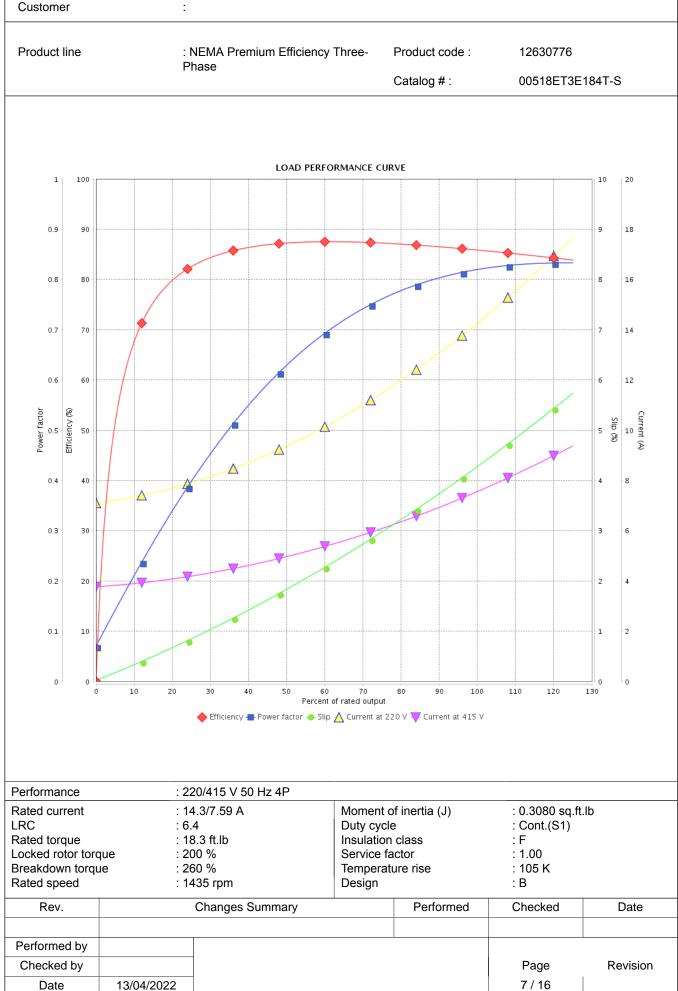
Date

13/04/2022

## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

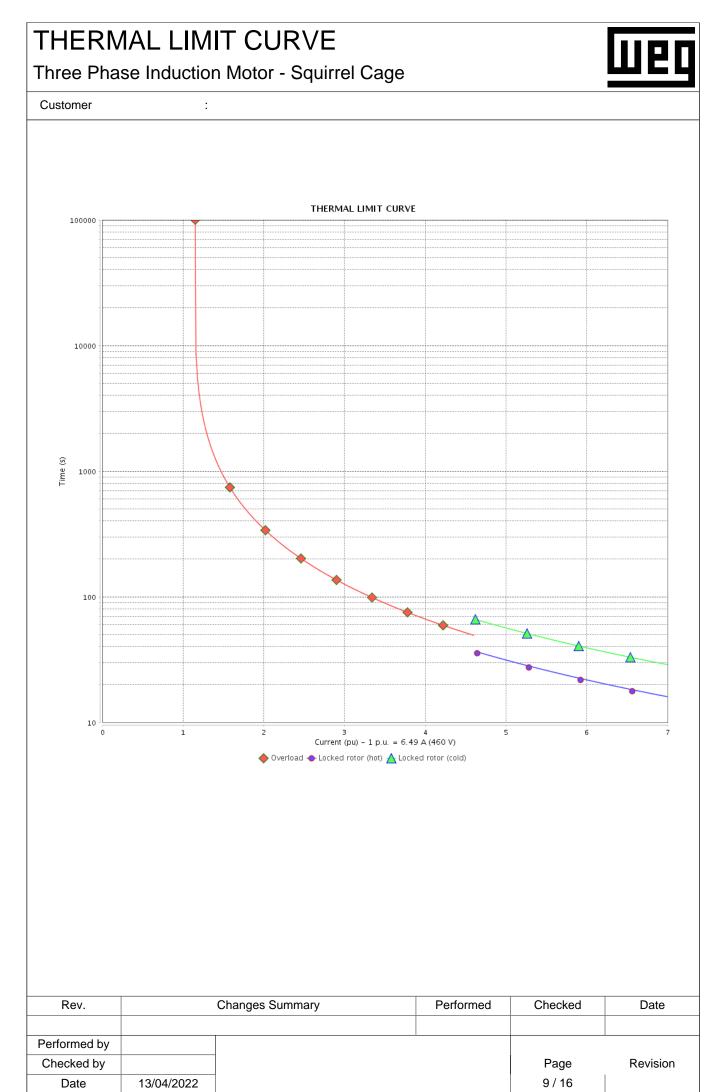
### Customer



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

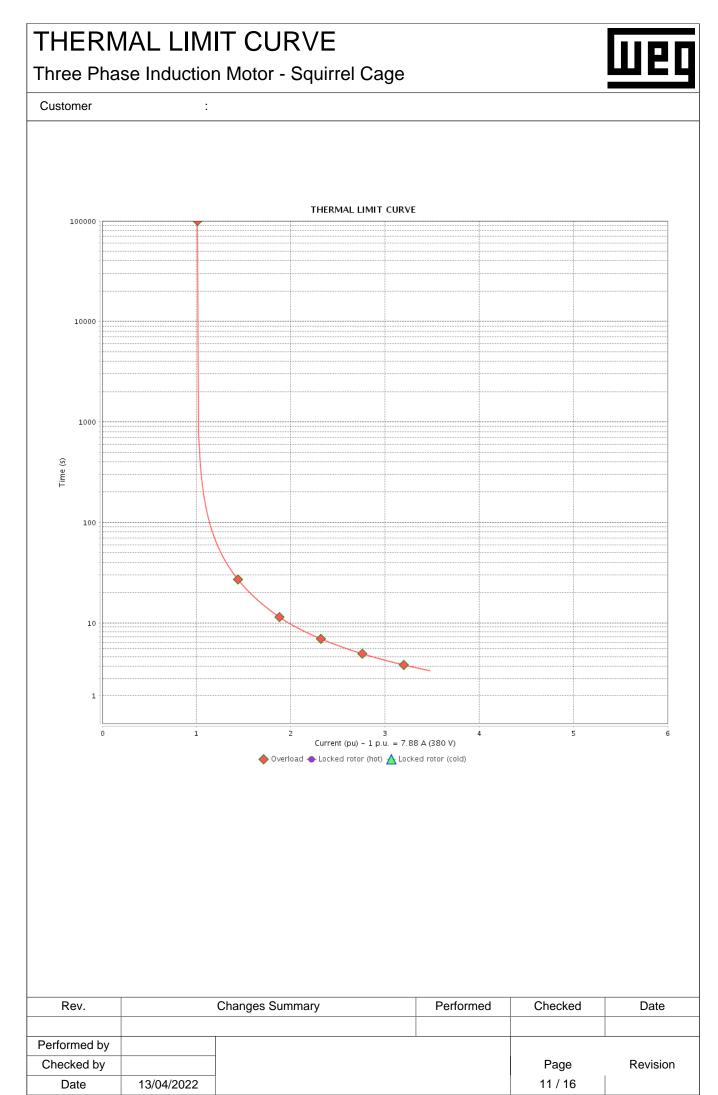
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12630776			
	Thase	Catalog # :	00518ET3E184T-S			

Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 1! que : 22 ue : 30	13.0/6.49 AMoment of7.0Duty cycle15.0 ft.lbInsulation c220 %Service fact300 %Temperatur1750 rpmDesign		class ctor	: Cont.(S1) ss : F r : 1.15	
Heating constant	t					
Cooling constant	t					
Rev. Changes Summary		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/04/2022				8 / 16	



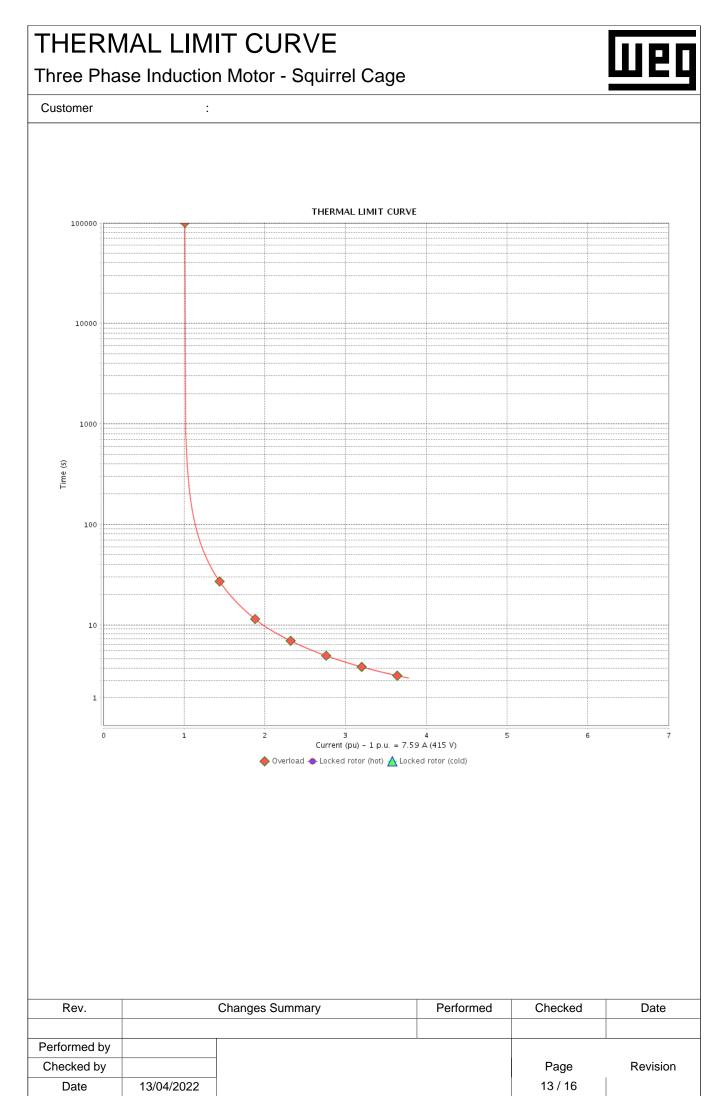
Three Phase Induc	tion Motor - Squirrel Cage					
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12630776			
		Catalog # :	00518ET3E184T-S			

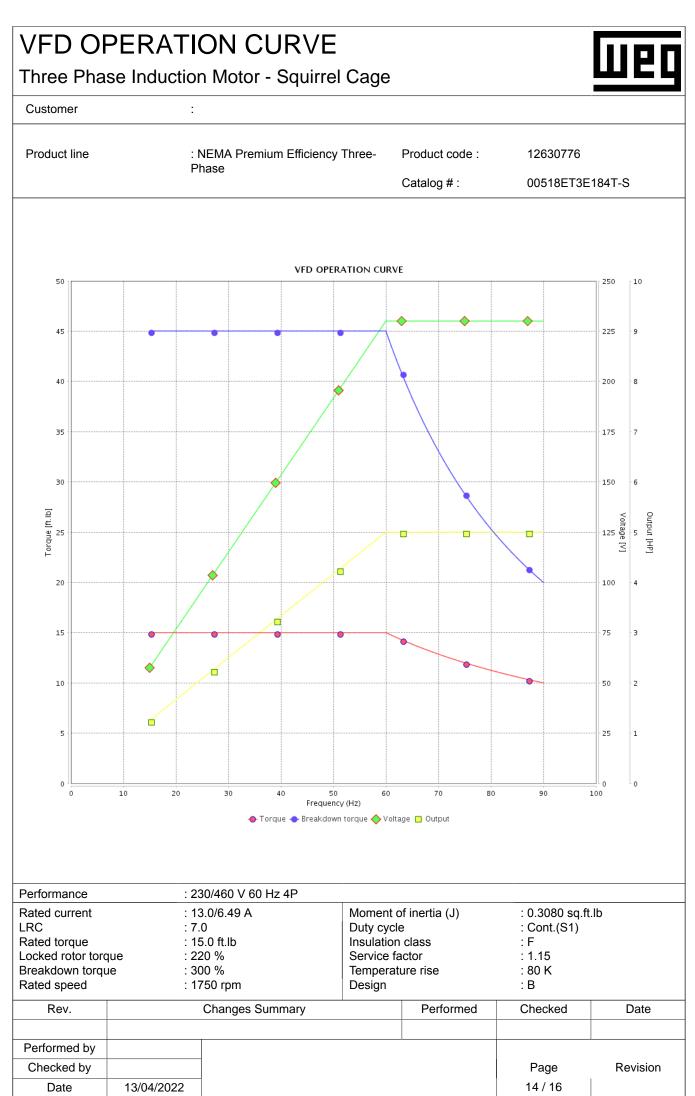
Performance	: 1	90/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constan	: 5 : 1 que : 1 ue : 2 : 1	15.8/7.88 AMoment of5.8Duty cycle18.4 ft.lbInsulation170 %Service fa		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		lb
Cooling constant	t					
Rev. Changes Summary		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				10 / 16	

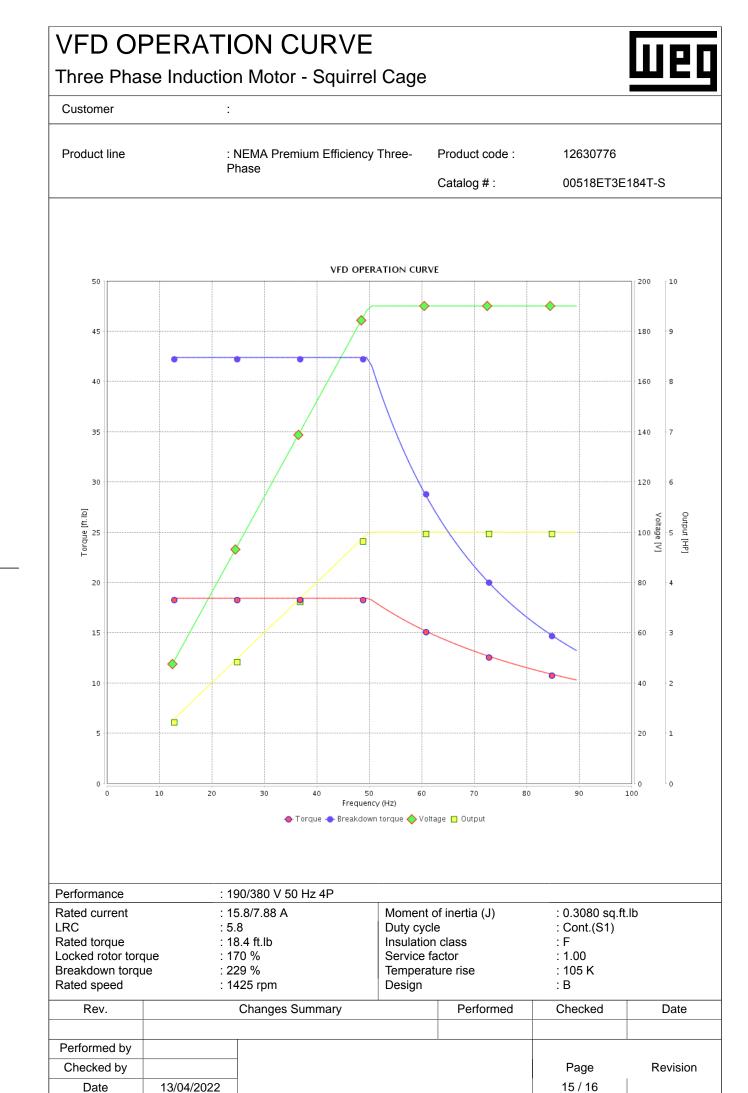


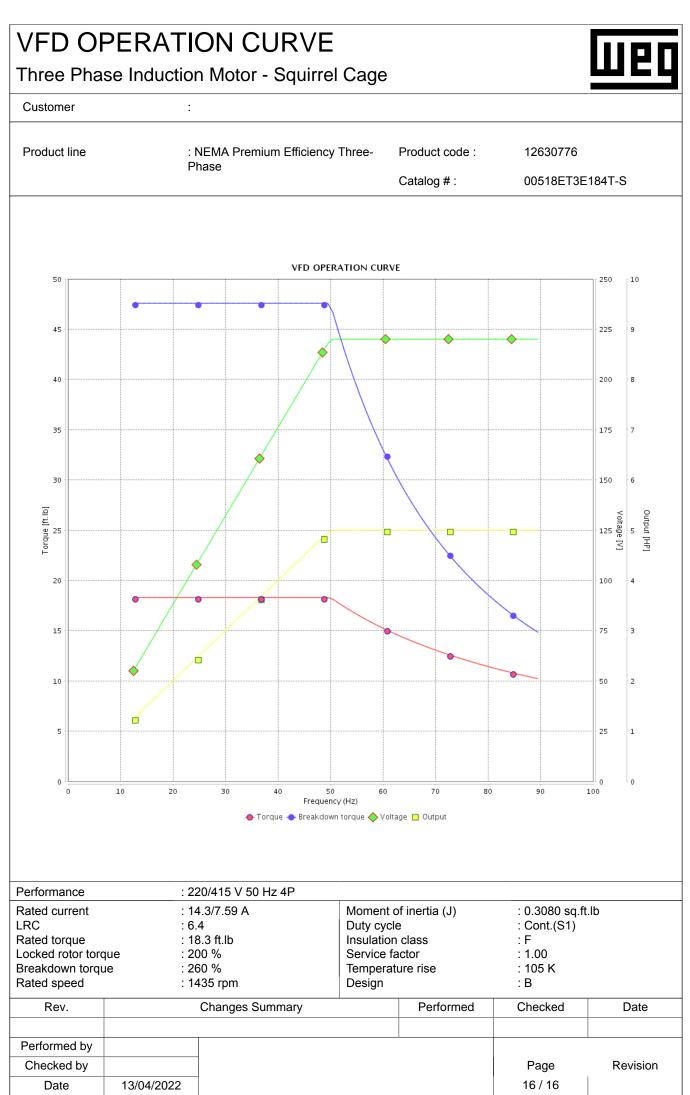
THERMAL LIMIT CURVE							
Three Phase Induc	ction Motor - Squirrel Cage	)	шсч				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12630776				
		Catalog # :	00518ET3E184T-S				

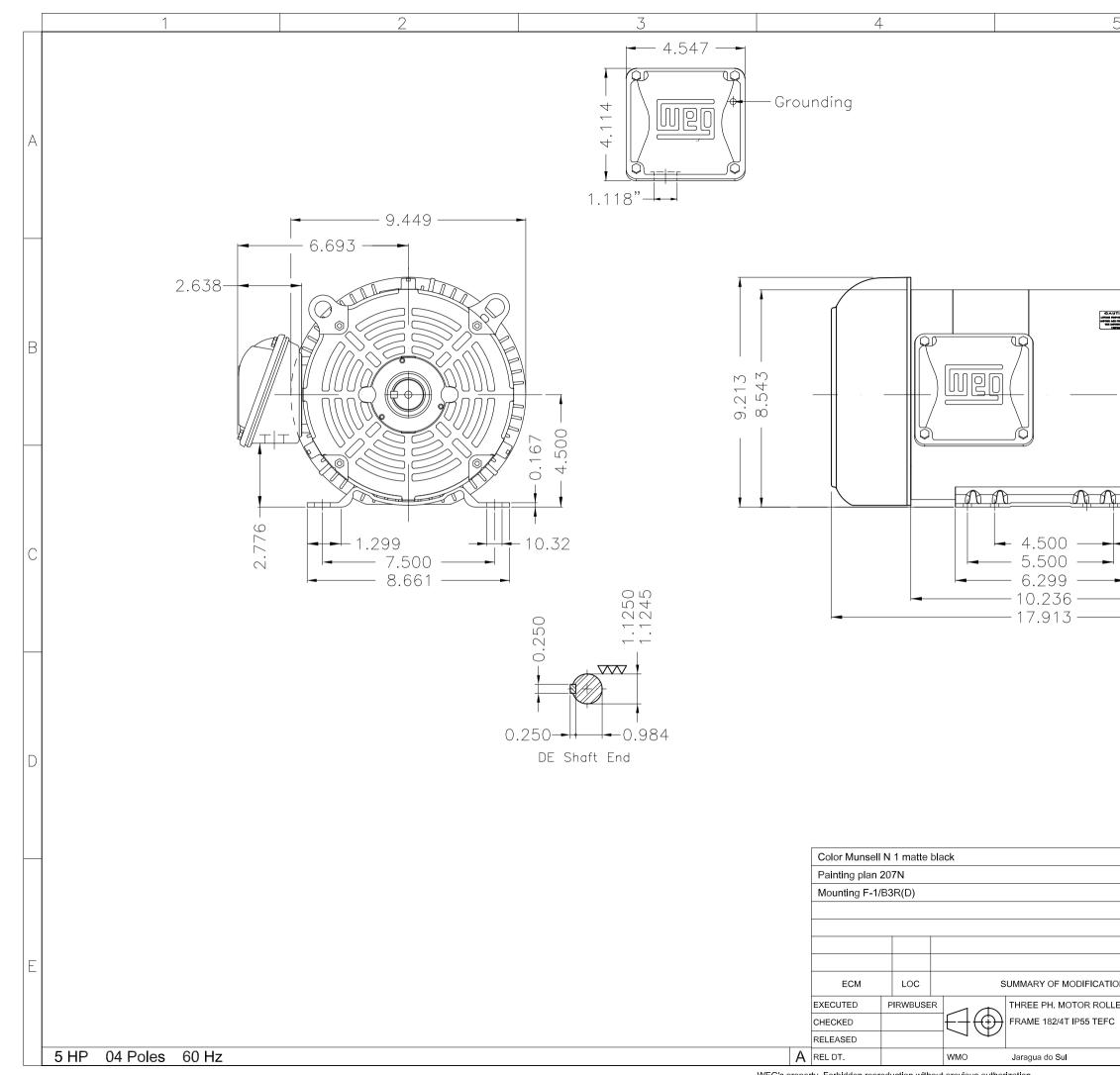
Performance		: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	lne Ie	: 14.3/7.59 A : 6.4 : 18.3 ft.lb : 200 % : 260 % : 1435 rpm	b Duty cycle Insulation class Service factor Temperature rise		: 0.3080 sq.ft : Cont.(S1) : F : 1.00 : 105 K : B	lb
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	2			12/16	
This do	cument is exclu	sive property of WEG S/A. Re	eprinting is not all	owed without written	authorization of WE	G S/A.











WEG's property. Forbidden reproduction without previous authorization.

5			6			
5			6			
	× •	+ 1.969				
	<u> </u>					
2.750-	<>	- 2.750				
		2.700				
-						
						s
						inche
						sions ir
						Dimensions in inches
						-
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL PREM. E C	FF.	PREVI	EW			
-		WDD		ШВ	4	E A3
Produc	t Engineering	SHEET	1 / 1			XME

COMPARE AREA 2019 FOR SAFE AREA Energy Verified For 60Hz: Class I, Zone 2, IIC Class I, Zone 2, IIC DN 2 Inverter DUY (5F1.00) CT 2:1/NT 1000:1	5.0 2301460 2301460 14.917.46 11.15 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.8	190-220380-415 V SF1 40   PM EF 4.9% EF1 000341   REIL POLYFEX EM 100011 VT.411 ET   MOBIL TOLYFEX EM 100011 VT.411 ET   MOBIL TOLYFEX EM 100011 VT.411 ET   MOBIL TOLYFEX EM 100011 VT.411 ET	LZ L3 RETHE ROTATION Researched in the second of the sec
MATERIAL CONSTRACTION FOR A CONSTRACT CONSTRAC	PH 3 Hz 60 HD 50   DUTY CONT. KW 3.7   DUTY CONT. KW 3.7   ALT 1000 m.a.s.i A 23,44   ALT 1000 m.a.s.i A 13,04   ALT 1000 m.a.s.i A 23,44   ALL 1000 m.a.s.i A 24,457   ANN 44 1995 87 14,367   ANN 44 14,344 14,367 14,367   ANN 44 14,344 14,367 14,367   ANN 44 14,367 14,367 14,367   ANN 44 14,367 14,367 14,367	ALTERNATE RATING: 5.0HP 50H2 100-220390-415V 5F1.00 15-141/178-17A 1245RPM E00220390-415V 5F1.00 F61-346 area-hwere duty motor For 61H2 use on PWPM 100:1V1, 4:161 E61 260 6206-22 JODE 6205-22 MOBIL POLYREX EM 100:1V1, 4:161 DE 6206-22 JODE 6205-22 MOBIL POLYREX EM 100:1V2, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17, 4:17	ADDLI LZ J LL LL LZ L3 MERCIANGE ANY THO LUE WREES TO REVERES THE ROTATON MARTHONE. Refore must be grounded in accordance with local and national detection close to prevent results electrical condi- action. Disconnect power source power source prior and a la user to conforminent aix rodos Meediques local et national and a la user to above descriptive grave. Determention results to mark to a mechine above descriptive grave. Determention results that are the anoline.