DATA SHEET

Three Phase Induction Motor - Squirrel Cage

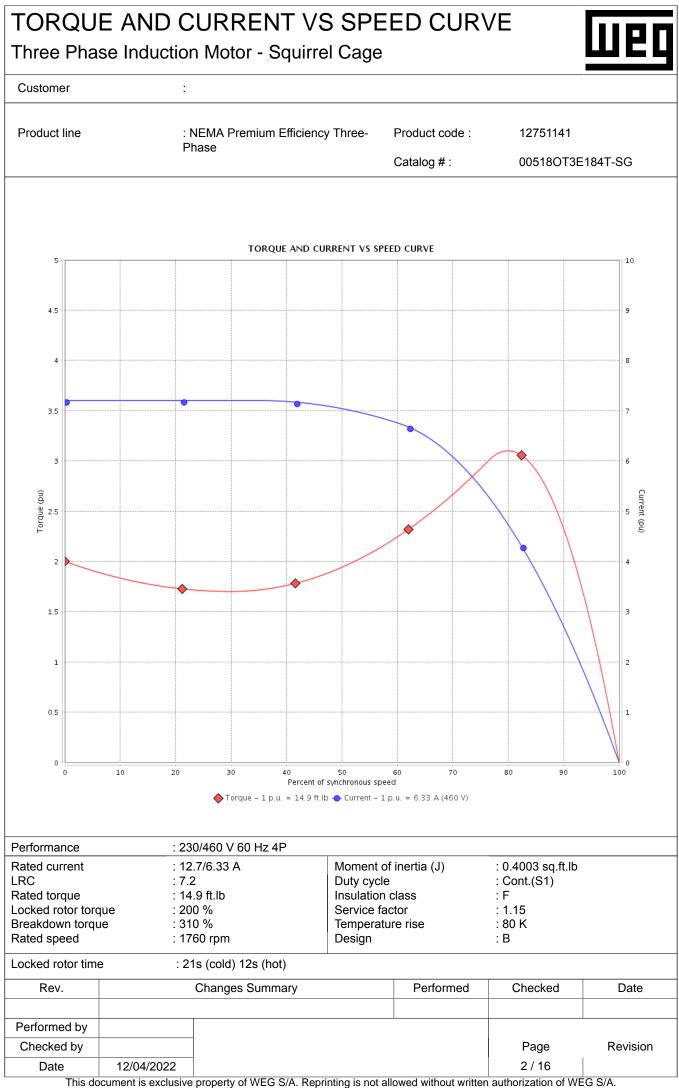
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Customer

Product line		: NEMA Premium Efficiency [·] Phase	12751141	
			00518OT3E184T-SG	
Frame		: 182/4T	Cooling method	: IC01 - ODP
Insulation class		: F	Mounting	: F-1
Duty cycle		: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l. Approx. weight ³ : 81.8 lb		
Design		: B	Moment of inertia (J)	: 0.4003 sq.ft.lb
Output [HP]		5	5	5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		12.7/6.33	15.4/7.71	13.8/7.32
L. R. Amperes [A]		91.2/45.6	89.4/44.7	89.8/47.6
LRC [A]		7.2x(Code J)	5.8x(Code G)	6.5x(Code H)
No load current [A]	6.29/3.15	6.19/3.10	6.38/3.38
Rated speed [RPN	-	1760	1445	1450
Slip [%]		2.22	3.67	3.33
Rated torque [ft.lb]	14.9	18.2	18.1
Locked rotor torqu		200	140	160
Breakdown torque		310	220	250
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	87.5	90.4	89.3
	50%	88.5	88.2	87.9
Efficiency (%)	75%	88.5	87.3	87.6
	100%	89.5	84.8	85.8
	25%	0.38	0.44	0.40
-	50%	0.63	0.71	0.67
Power Factor	75%	0.76	0.82	0.79
	100%	0.82	0.86	0.85
	1	Drive end Non drive end		
Bearing type		: 6206 ZZ 6205 ZZ	Max. traction	: 248 lb
Sealing		: Without Without	Max. compression	: 330 lb
county		Bearing Seal Bearing Sea		
Lubrication interv	val	:		
Lubricant amour				
Lubricant type		: Mobil Polyrex EM		
,				
Notes USABLE @208V	′ 14.0A SF 1.	00 SFA 14.0A		
This revision repl must be eliminate	ed. notor from the 1m and with t	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after		s based on tests with sinusoidal he tolerances stipulated in NEMA
(1) Looking the m(2) Measured at 1(3) Approximate vmanufacturing pro-	ocess.			
(1) Looking the m(2) Measured at 1(3) Approximate v	ocess.			
(1) Looking the m(2) Measured at 1(3) Approximate vmanufacturing pro-	ocess.	Changes Summary	Performed	Checked Date
(1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pr (4) At 100% of ful Rev.	ocess.	Changes Summary	Performed	Checked Date
(1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	ocess.	Changes Summary	Performed	
(1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pr (4) At 100% of ful Rev.	ocess.	Changes Summary	Performed	Checked Date Page Revision

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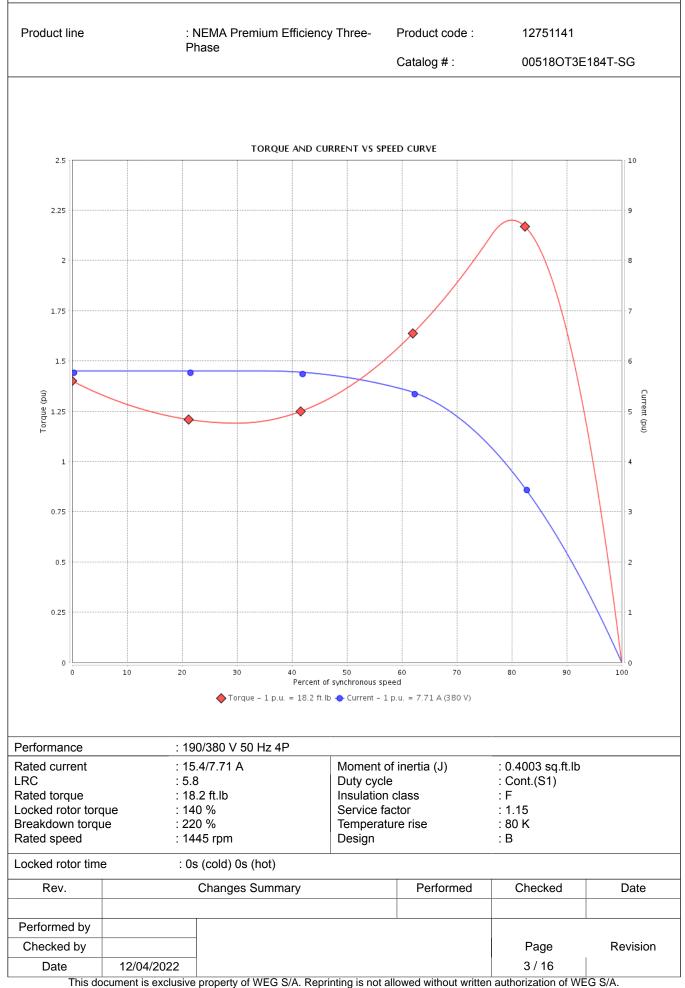
TORQUE AND CURRENT VS SPEED CURVE

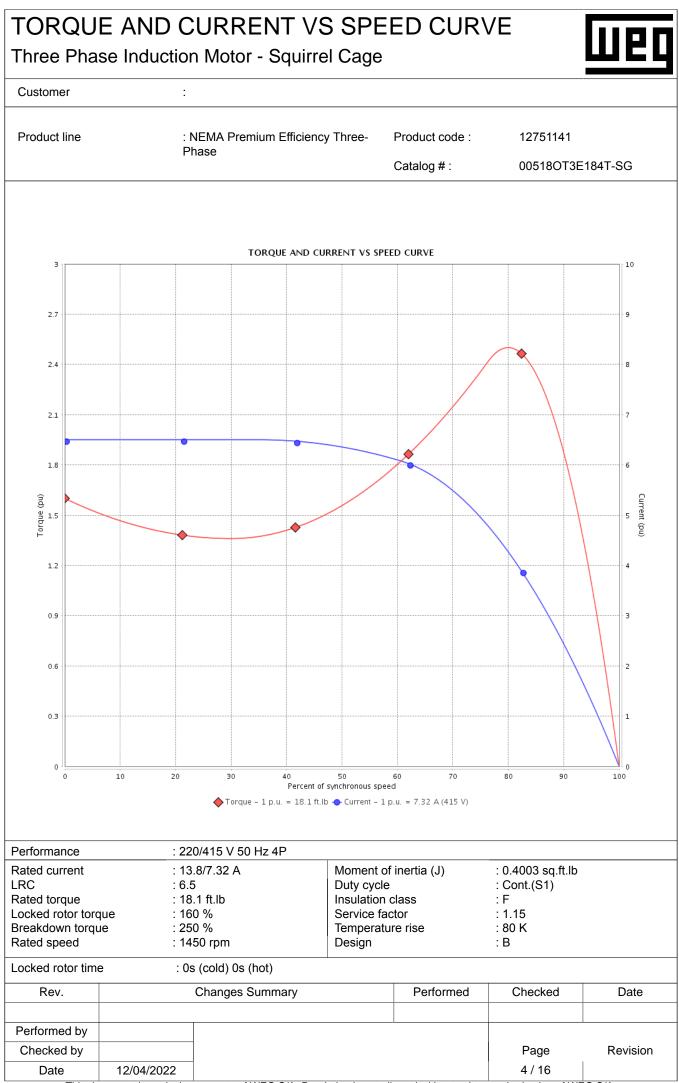
Three Phase Induction Motor - Squirrel Cage

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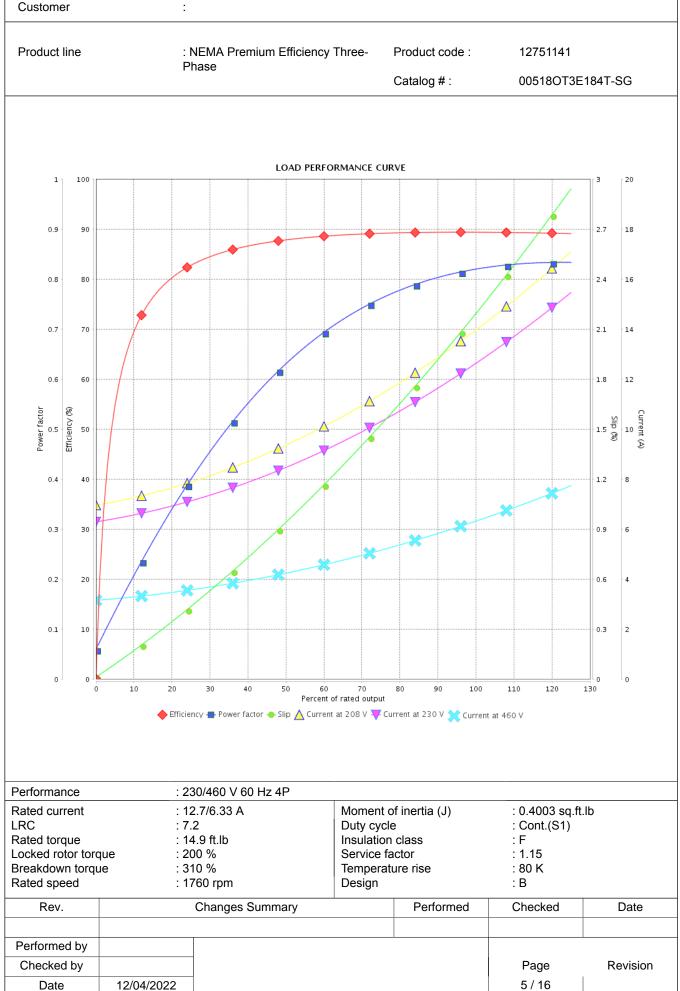




LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



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LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 12751141 Phase Catalog # : 00518OT3E184T-SG LOAD PERFORMANCE CURVE 1 100 20 4.5 0.9 90 18 0.8 80 16 4 14 0.7 70 3.5 Δ 0.6 60 З 12 Δ Power factor Efficiency (%) 10 Current 2.5 % 0.5 50 Þ \wedge 0.4 40 2 8 Δ 0.3 30 1.5 6 0.2 20 1 4 0.1 10 0.5 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 : 15.4/7.71 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb LRC Duty cycle : Cont.(S1) : 5.8 Insulation class Rated torque : 18.2 ft.lb : F Locked rotor torque : 140 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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6/16

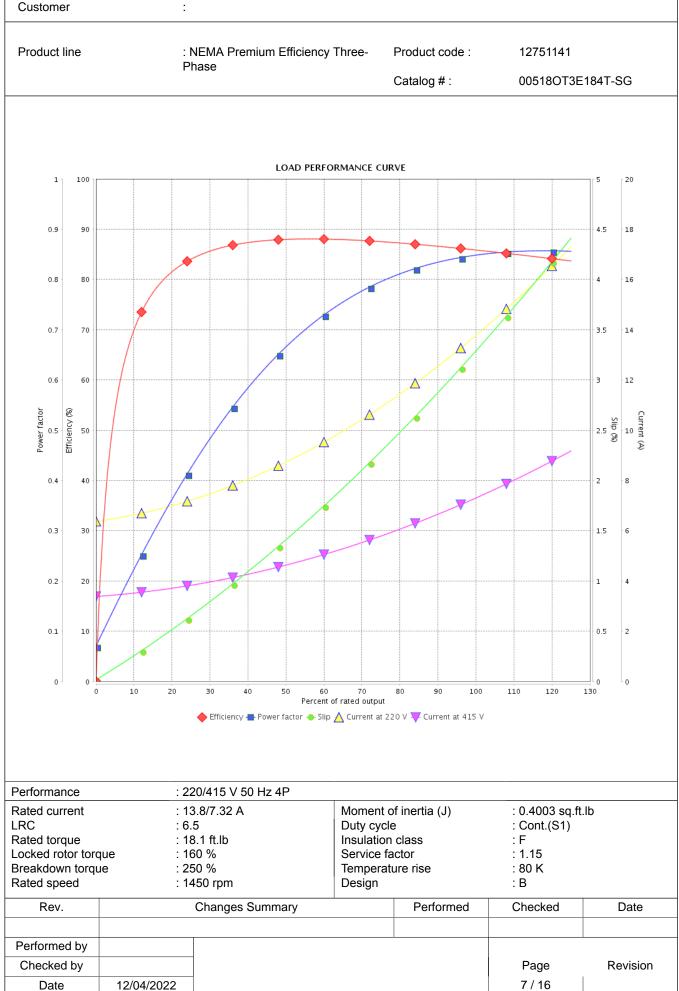
Date

12/04/2022

LOAD PERFORMANCE CURVE

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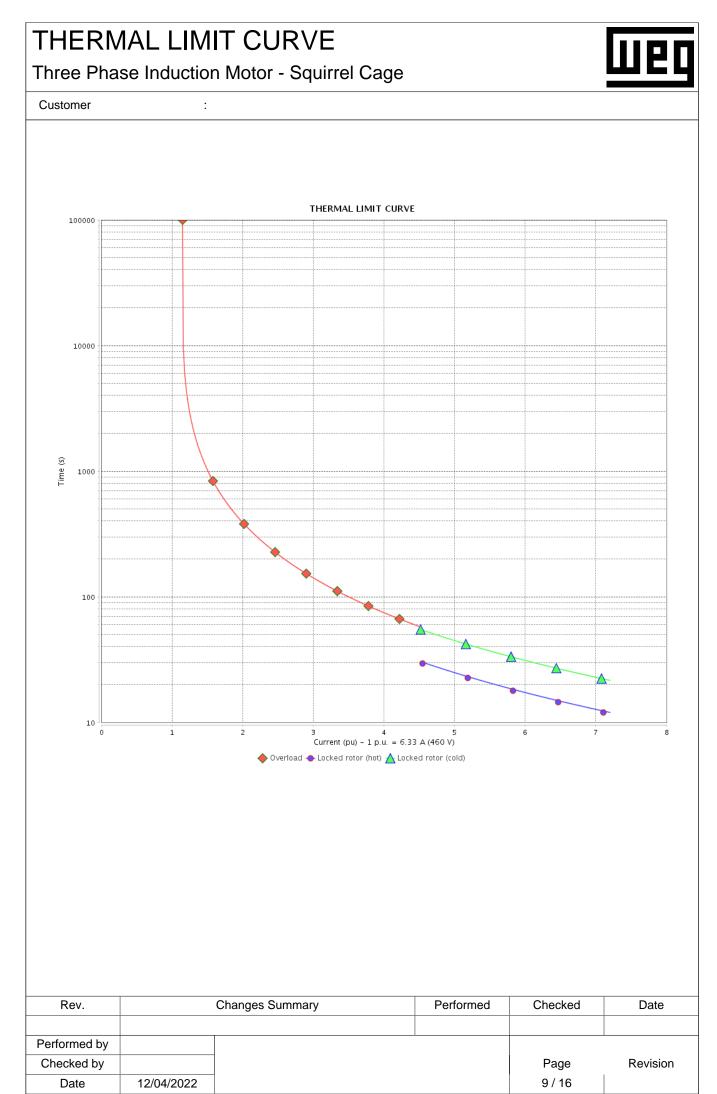
Customer



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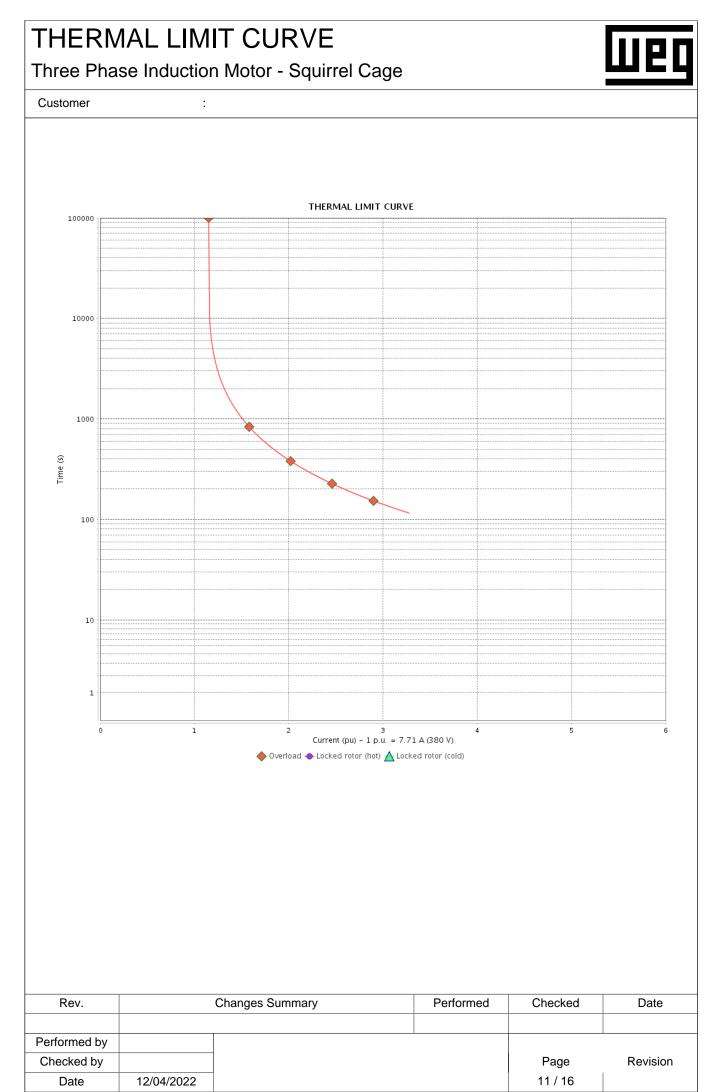
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
ustomer	:					
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	12751141			
	Pilase	Catalog # :	00518OT3E184T-SG			

Performance	: 2	30/460 V 60 Hz 4P				
Rated current: 12.7/6.33 ALRC: 7.2Rated torque: 14.9 ft.lbLocked rotor torque: 200 %Breakdown torque: 310 %Rated speed: 1760 rpm		.2 4.9 ft.lb 00 % 10 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan						
Cooling constan	L					1
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Date	12/04/2022				8 / 16	



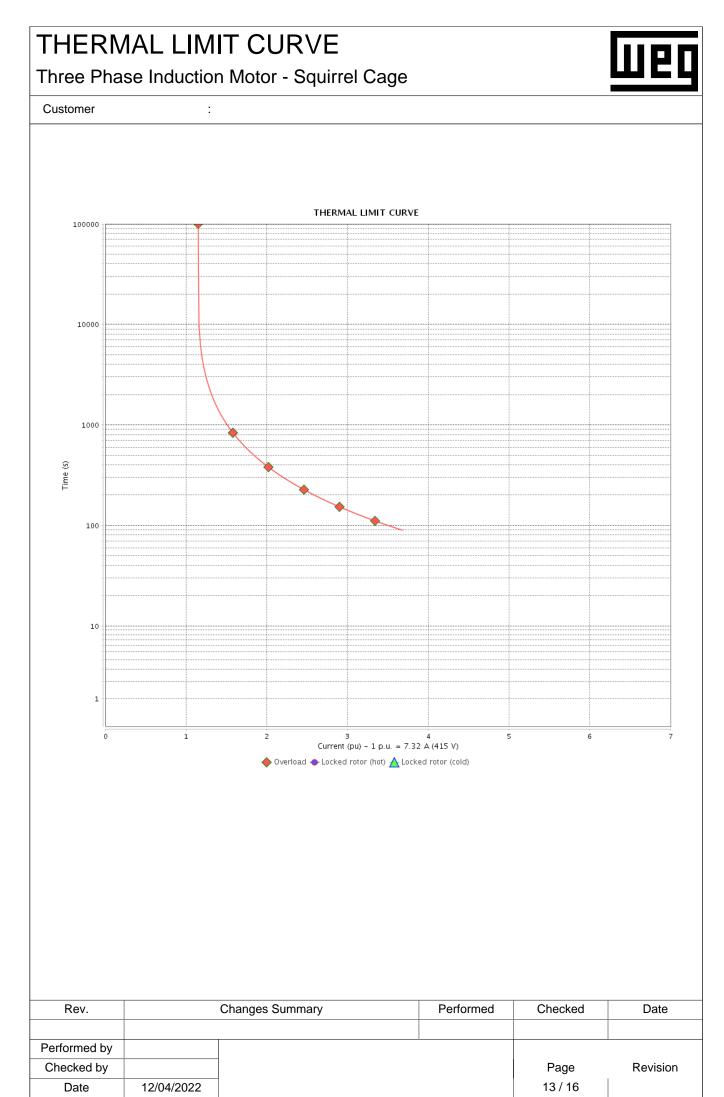
THERMAL LIMIT CURVE						
Three Phase Induct	tion Motor - Squirrel Cage		шед			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12751141			
	T hase	Catalog # :	00518OT3E184T-SG			

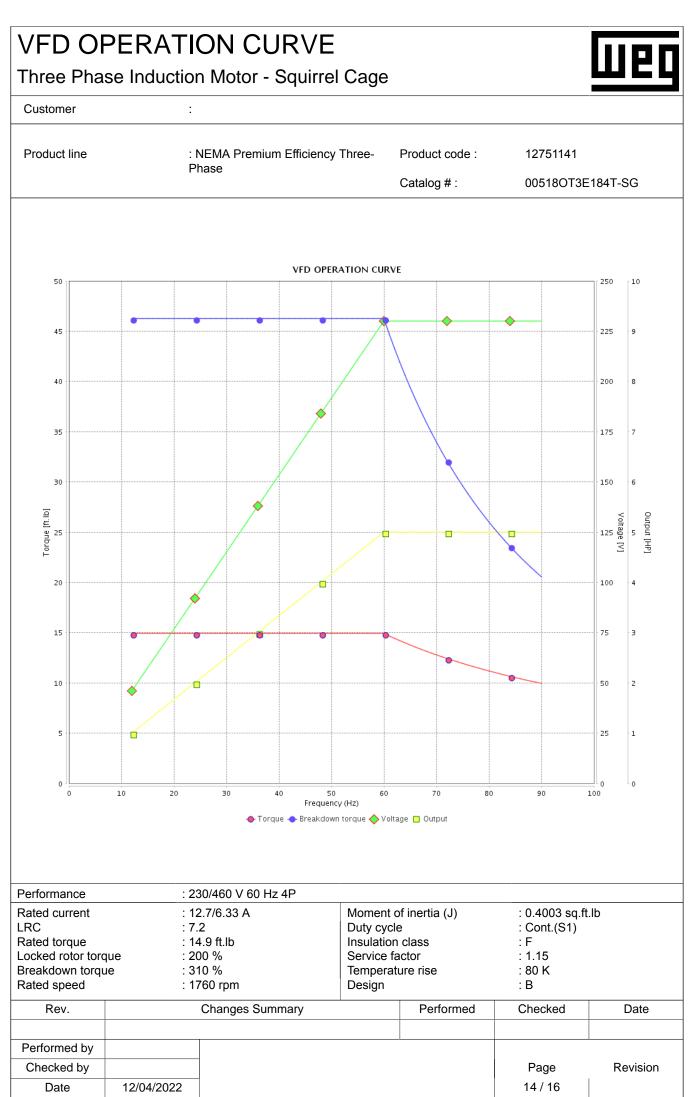
Performance	: 1	90/380 V 50 Hz 4P				
Rated current: 15.4/7.LRC: 5.8Rated torque: 18.2 ft.Locked rotor torque: 140 %Breakdown torque: 220 %		8.2 ft.lb 40 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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Date	12/04/2022				10 / 16	



roduct line : NEMA Premium Efficiency Three- Product code : 12751141 Phase Catalog # : 00518OT3E184T-	ustomer	:		
	oduct line		Product code :	12751141
		FildSC	Catalog # :	00518OT3E184T-SG

Performance	: 2	220/415 V 50 Hz 4P				
Rated current: 13.8/7.32 ALRC: 6.5Rated torque: 18.1 ft.lbLocked rotor torque: 160 %Breakdown torque: 250 %Rated speed: 1450 rpm		.5 8.1 ft.lb 60 % 50 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constan	t					
Cooling constant	t					
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Date	12/04/2022	1			12 / 16	





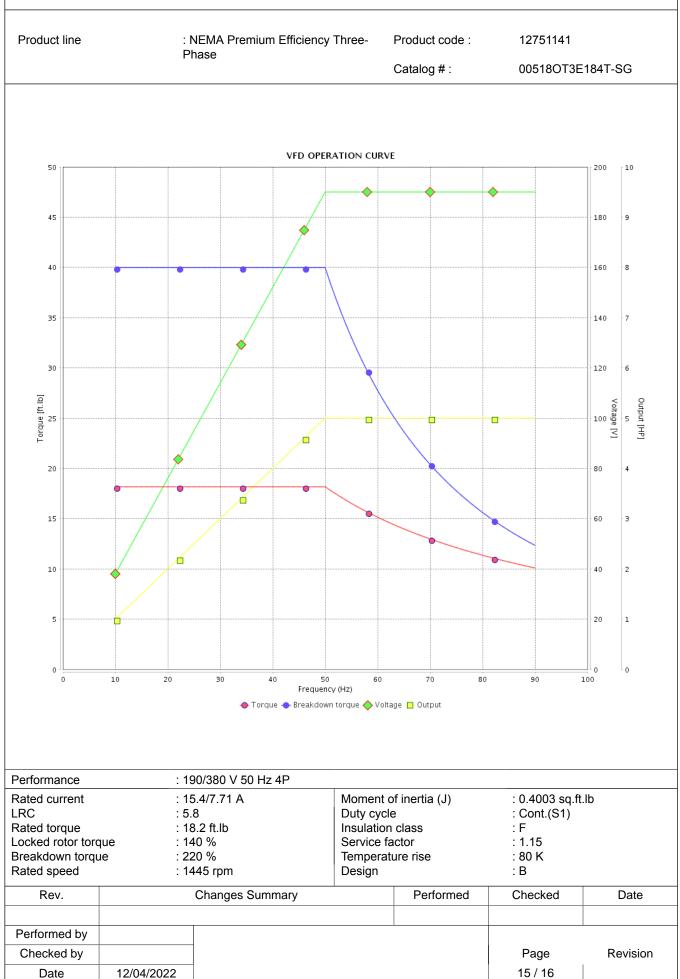
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VFD OPERATION CURVE

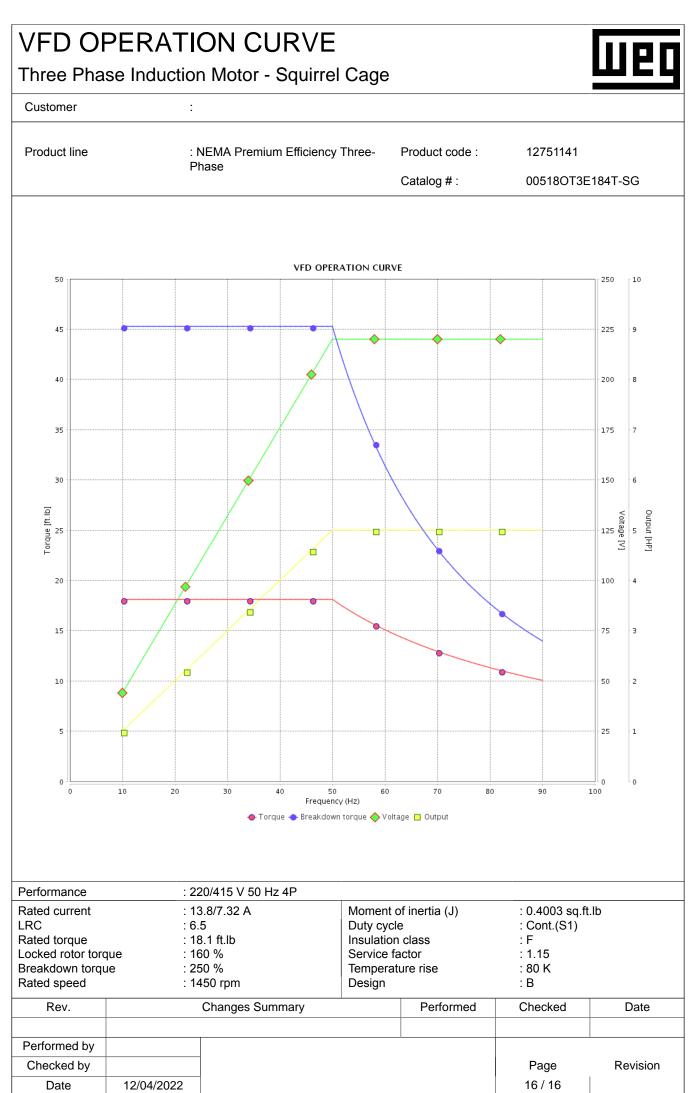
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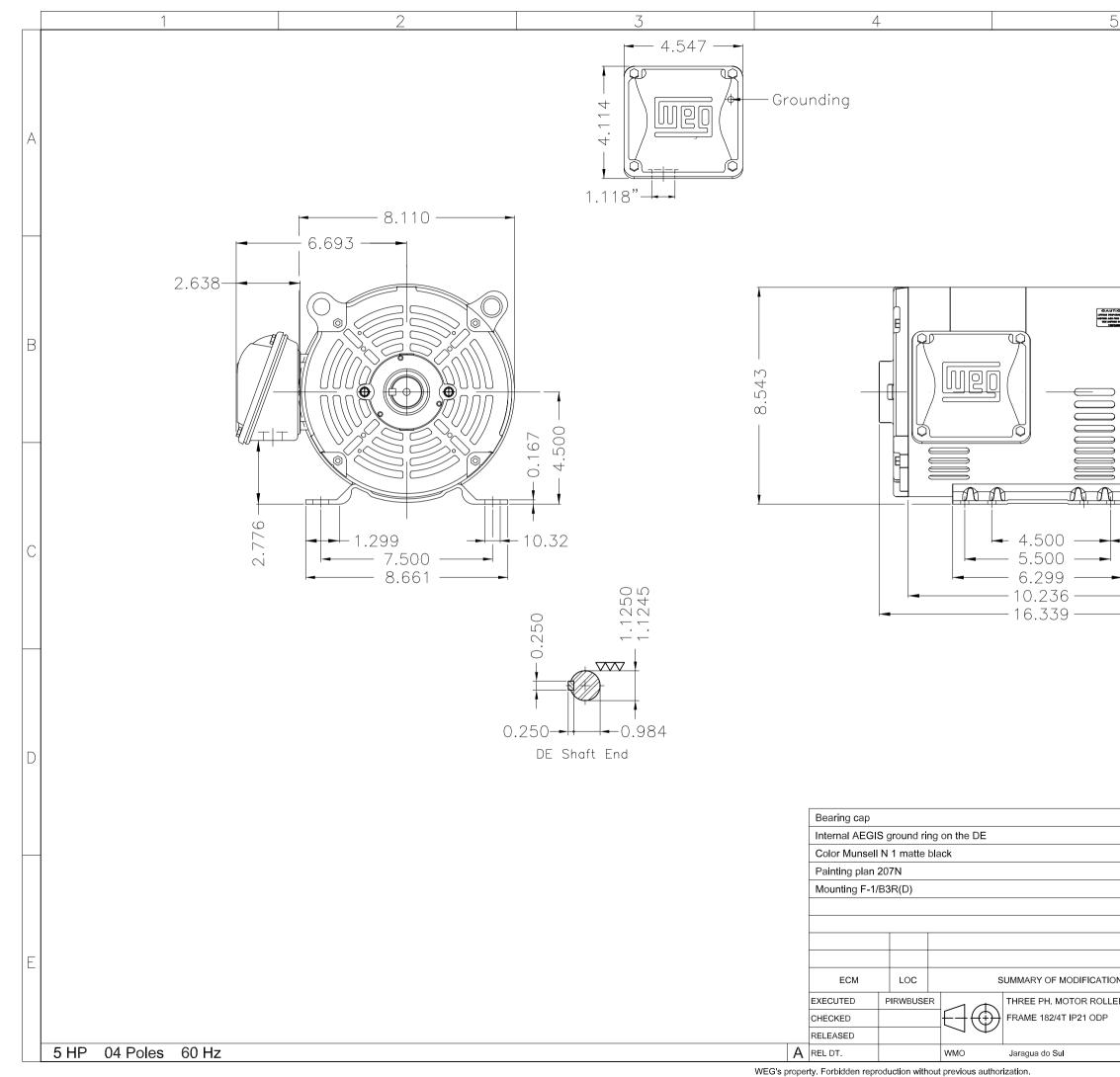
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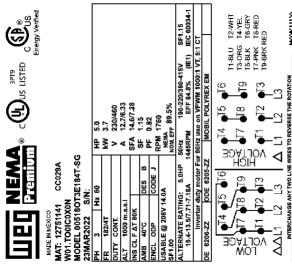
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5			6		
		- 2.750			Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER
LED STEEL PREM. E	FF.	PREVI	EW		
9		WDD		Ше	A3
Produc	t Engineering	SHEET	1 / 1		XME



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

chocks. Disconnect power source before servicing unit.

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical

