DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Frame Insulation class Duty cycle Ambient temper Altitude Protection degre Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] L. R. Amperes [A] LRC [A] No load current [A] LRC [A] No load current [A] Lated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Service factor Temperature rise Locked rotor time Noise level ²	ee \] \] M] Jue [%]	Phase : 404/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B 100 4 60 230/460 226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270 280	7.5	Catal Cooling meth Mounting Rotation ¹ Starting meth Approx. weig Moment of in 75 4 50 380 103 773 5x(Code H) 39.0	nod ht ³ ertia (J) 79 4 50 40 10 84	: IC411 : F-1 : Both (: Direct : 1201 I : 26.4 s	
Insulation class Duty cycle Ambient temper Altitude Protection degre Design Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] L. R. Amperes [A] LRC [A] No load current [/ Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Service factor Temperature rise Locked rotor time Noise level ²	ee \] \] M] Jue [%]	: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B 100 4 60 230/460 226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	Mounting Rotation ¹ Starting meth Approx. weig Moment of in 75 4 50 380 103 773 5x(Code H)	nod ht ³ ertia (J) 79 4 50 40 10 84	: F-1 : Both (: Direct : 1201 I : 26.4 s	(CW and CCW) COn Line b sq.ft.lb 75 4 50 415
Output [HP] Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time Noise level ²	N] M])] Je [%]	100 4 60 230/460 226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	4 50 380 103 773 5x(Code H)	40 50 40 10 84	0 0 00	4 50 415
Poles Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A LRC [A] No load current [/ Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Service factor Temperature rise Locked rotor time Noise level ²	N] M])] Je [%]	4 60 230/460 226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	4 50 380 103 773 5x(Code H)	40 50 40 10 84	0 0 00	4 50 415
Frequency [Hz] Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Service factor Temperature rise Locked rotor time Noise level ²	N] M])] Je [%]	60 230/460 226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	50 380 103 773 5x(Code H)	50 40 10 84	0 10 10	50 415
Rated voltage [V] Rated current [A] L. R. Amperes [A] LRC [A] No load current [A Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time Noise level ²	N] M])] Je [%]	230/460 226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	380 103 773 5x(Code H)	40 10 84	0	415
Rated current [A] L. R. Amperes [A LRC [A] No load current [A Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time Noise level ²	N] M])] Je [%]	226/113 1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	103 773 5x(Code H)	10 84	0	
L. R. Amperes [A LRC [A] No load current [/ Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time Noise level ²	N] M])] Je [%]	1627/814 7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	773 5x(Code H)	84		
RC [A] No load current [/ Rated speed [RP Slip [%] Rated torque [ft.lt ocked rotor torque Breakdown torque Service factor Temperature rise ocked rotor time Noise level ²	N] M])] Je [%]	7.2x(Code H) 78.0/39.0 1780 1.11 295 270	7.5	5x(Code H)		.0	898
No load current [/ Rated speed [RP Slip [%] Rated torque [ft.lt _ocked rotor torque Breakdown torque Service factor Temperature rise _ocked rotor time Noise level ²	M])] Je [%]	78.0/39.0 1780 1.11 295 270			8.4x(C		9.1x(Code K)
Rated speed [RP Slip [%] Rated torque [ft.lt Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time Noise level ²	M])] Je [%]	1780 1.11 295 270		00.0	42		45.0
Slip [%] Rated torque [ft.lk Locked rotor torqu Breakdown torqu Service factor Temperature rise Locked rotor time Noise level ²) Je [%]	1.11 295 270		1480	148		1485
Rated torque [ft.lk Locked rotor torq Breakdown torqu Service factor Temperature rise Locked rotor time Noise level ²	ie [%]	295 270	1	1.33	1.0		1.00
Locked rotor torque Breakdown torque Service factor Temperature rise Locked rotor time Noise level ²	ie [%]	270		266	26		265
Breakdown torqui Service factor Temperature rise Locked rotor time Noise level ²				270	30		320
Service factor Temperature rise Locked rotor time Noise level ²	< [\0]	280		310	36		370
Temperature rise Locked rotor time Noise level ²		1.15		1.00	1.0		1.00
Locked rotor time Noise level ²		80 K		80 K	80		80 K
Noise level ²		23s (cold) 13s (hot)	215 (0	cold) 12s (hot)	21s (cold)		21s (cold) 12s (hot)
		75.0 dB(A)		0.0 dB(A)	70.0 c		70.0 dB(A)
	25%	94.0		93.9	93		93.4
	50%	94.5		94.0	93		93.6
Efficiency (%)	75%	95.0		94.5	94		94.5
	100%	95.4		94.5	94		94.5
	25%	0.47		0.44	0.4		0.38
	50%	0.47		0.69	0.6		0.62
Power Factor	75%	0.82		0.80	0.0		0.75
	100%	0.87		0.86	0.7		0.82
Bearing type Sealing Lubrication inter Lubricant amou Lubricant type	val	Drive end Non dr : 6217 C3 63 : Oil Seal Lip : 9149 h 97	789 h 27 g	1	ads	: 2342 lk : 3543 lk	b
Notes USABLE @208\	′ 250A SF 1.0	00 SFA 250A					
must be eliminat (1) Looking the n (2) Measured at	ed. notor from the 1m and with t weight subjec ocess.	ncel the previous one, wh e shaft end. olerance of +3dB(A). et to changes after	hich				sts with sinusoidal stipulated in NEMA
		Changes Summary	,	P	erformed	Checked	d Date
Rev.							
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Performed by				I			
	14/04/202			l		Page 1 / 22	Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

ID	Application	Thermal protection Type	Quantity	Sonaina	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
_	Chang	ges Summary	Performed	Checked	Date
Rev.					
Rev.					

TORQUE AND CURRENT VS SPEED CURVE

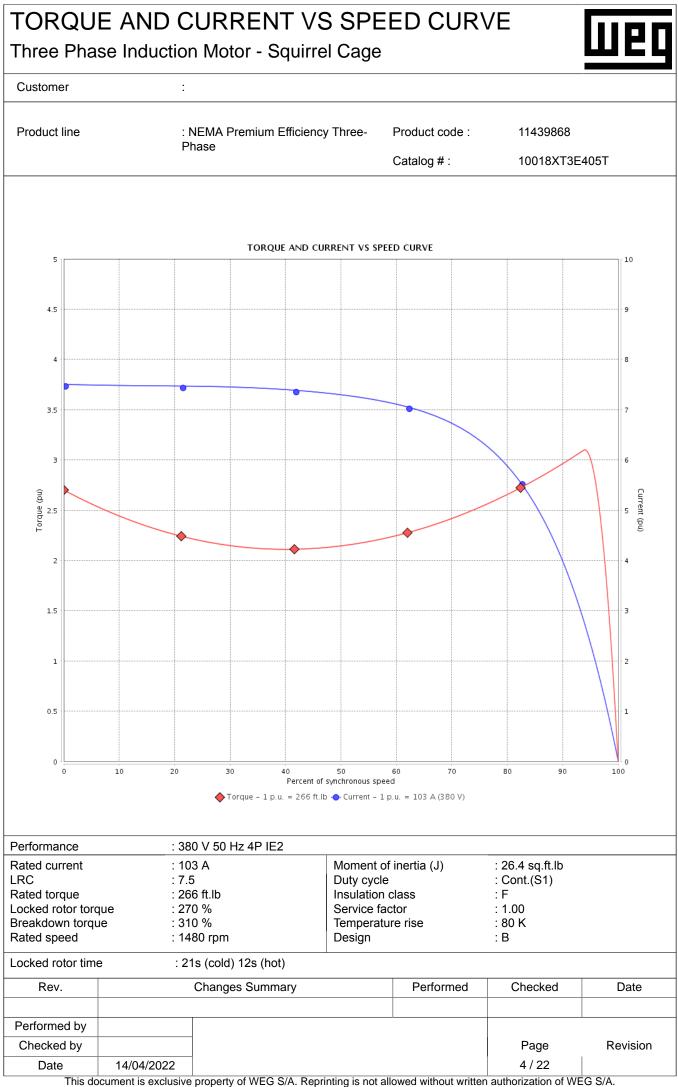
Three Phase Induction Motor - Squirrel Cage

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Product line		um Efficiency Three-	Product code :	11439868	
	Phase		Catalog # :	10018XT3E4	405T
	то	RQUE AND CURRENT VS SI	PEED CURVE		
3					10
2.7					9
2.7					
2.4					8
2.1	• ~~~	•			7
1.8					6
(n d) 9 1.5 0 L				A	Current (pu)
Torqu					, t (pu)
1.2					4
0.9 -					3
0.6					2
0.3					
0	10 20 30	40 50	60 70	80 90	100
	◆Torque -	Percent of synchronous sp 1 p.u. = 295 ft.lb 🔶 Current -			
Performance	: 230/460 V 60 H	1	after attack		
Rated current	: 226/113 A : 7.2	Duty cyc	of inertia (J) le	: 26.4 sq.ft.lb : Cont.(S1)	
Rated torque .ocked rotor torqu	: 295 ft.lb ie : 270 %	Insulation Service f		: F : 1.15	
Breakdown torque	e : 280 %	Tempera		: 80 K	
Rated speed	: 1780 rpm	Design		: B	
ocked rotor time Rev.	: 23s (cold) 13s Changes Su		Performed	Checked	Date
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Checked by				Page	Revision



TORQUE AND CURRENT VS SPEED CURVE

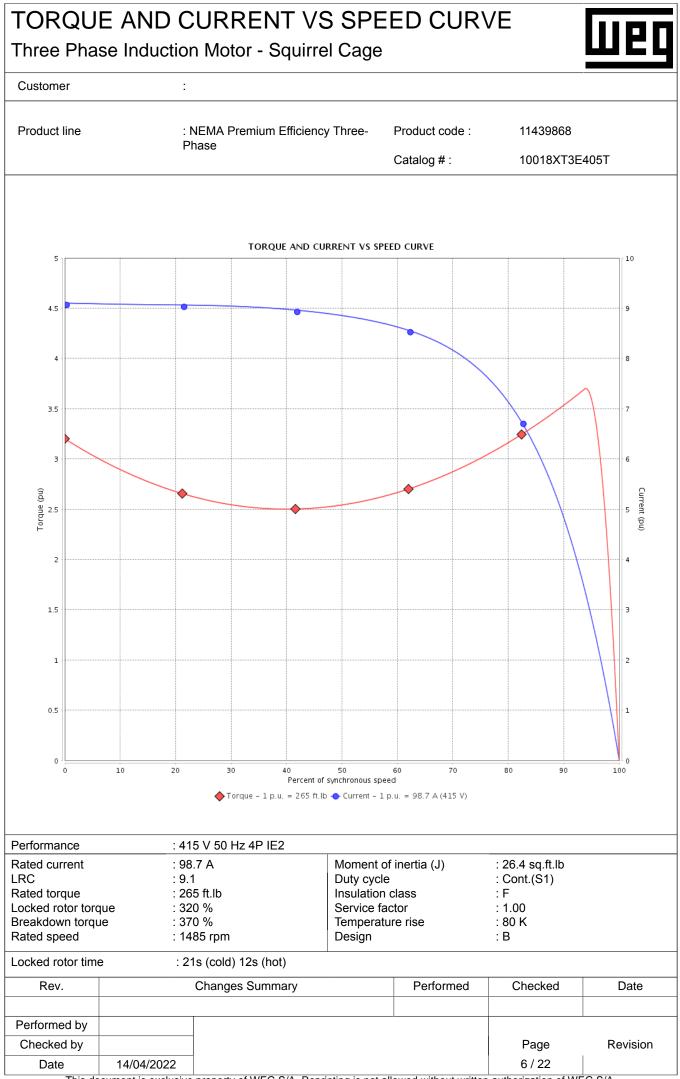
Three Phase Induction Motor - Squirrel Cage

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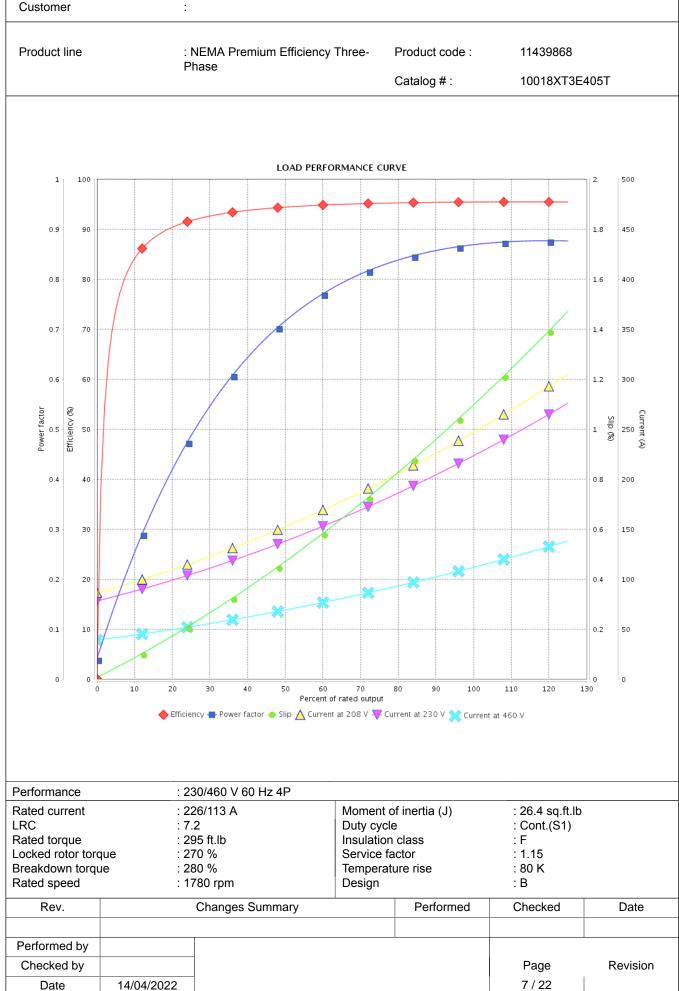
Customer

	Phase		Catalas # .		
			Catalog # :	10018XT3E	405T
5 11	TORQUE AND CU	IRRENT VS SF	PEED CURVE		10
4.5					
4	•				8
3.5					7
3					6
3					5
(ind) a 2.5					Current (pu)
	•				
1.5					3
1					2
0.5					1
0					
0 10	20 30 40 Percent of	50 synchronous sp	60 70 eed	80 90	100
	♦ Torque – 1 p.u. = 265 ft.II	b 🔶 Current – 🗄	1 p.u. = 100 A (400 V)		
erformance	: 400 V 50 Hz 4P IE2				
ated current	: 100 A		of inertia (J)	: 26.4 sq.ft.lb	
RC ated torque	: 8.4 : 265 ft.lb	Duty cycl		: Cont.(S1) : F	
ocked rotor torque reakdown torque	: 300 % : 360 %	Service f		: 1.00 : 80 K	
lated speed	: 1485 rpm	Design		: B	
ocked rotor time	: 21s (cold) 12s (hot)				
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision



Three Phase Induction Motor - Squirrel Cage

Customer



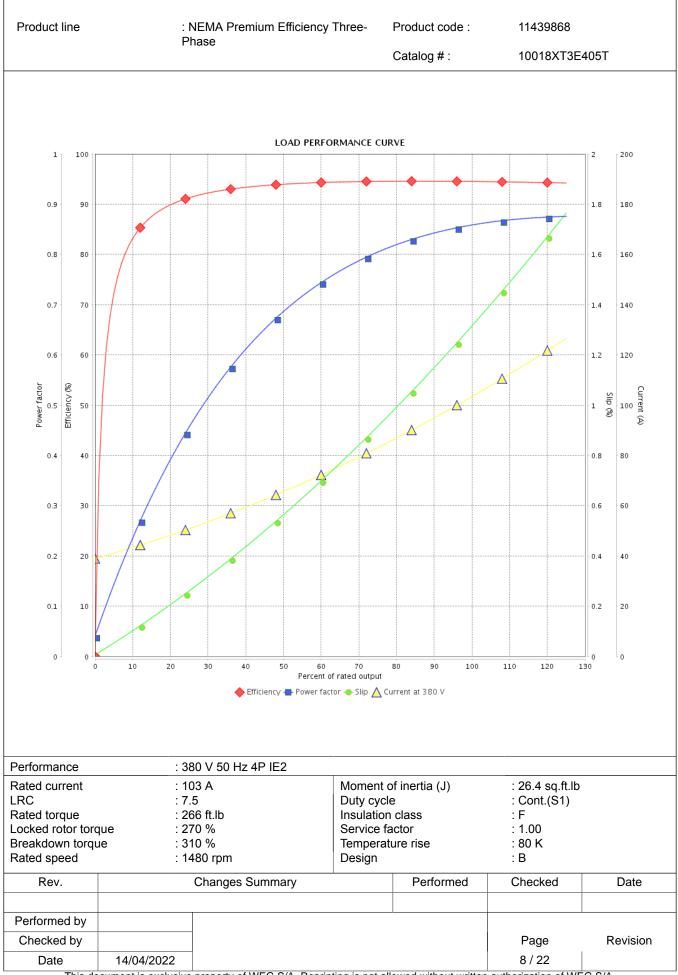
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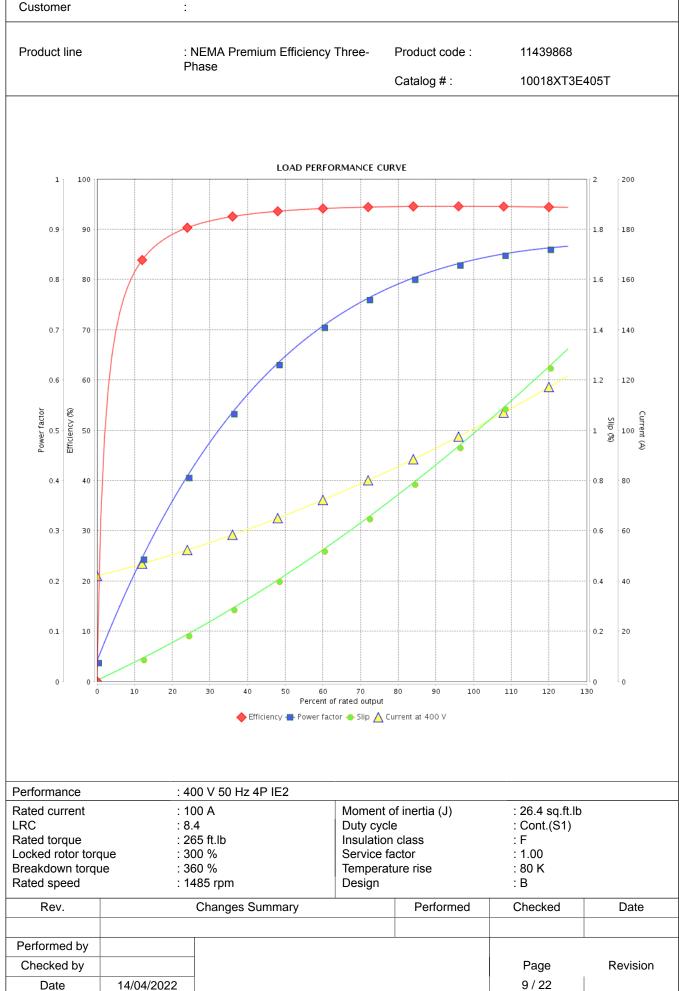


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



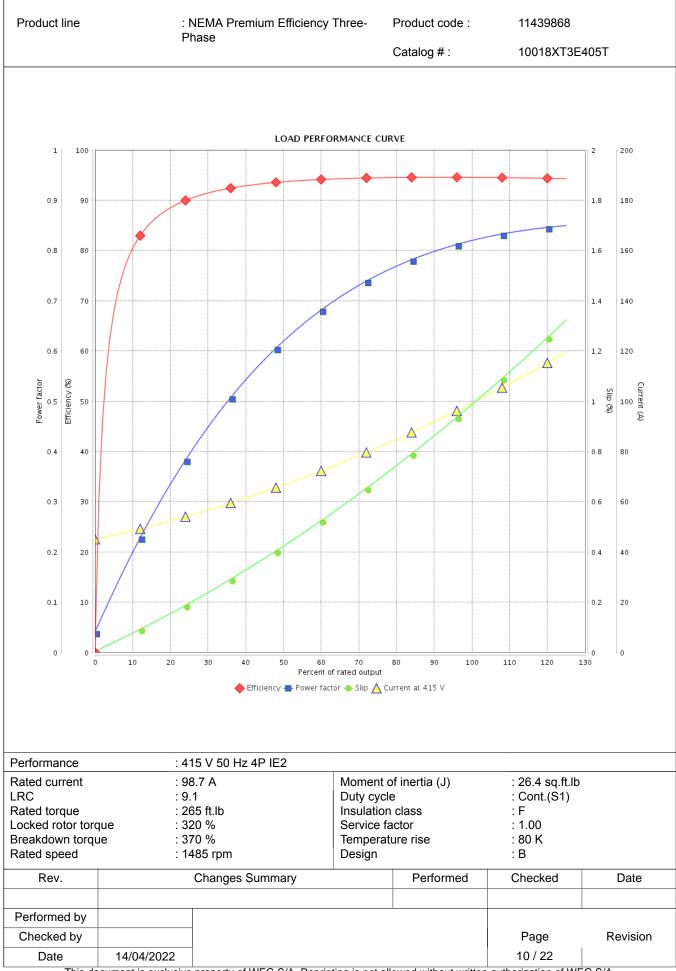
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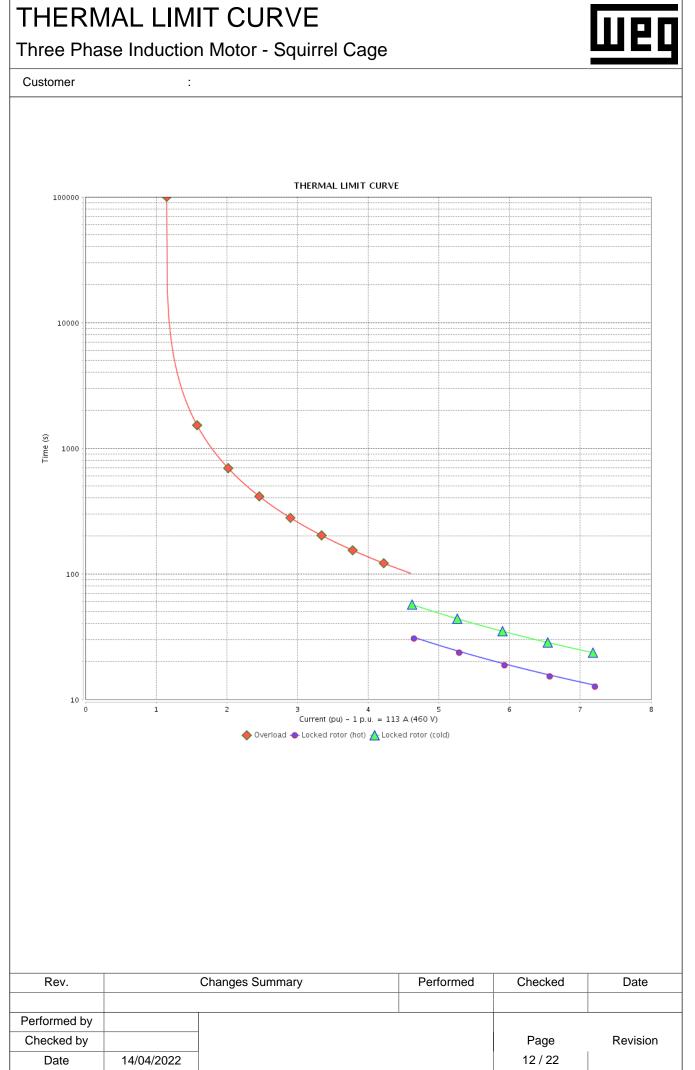
Three Phase Induction Motor - Squirrel Cage

Customer

	Product line	: NEMA Premium Efficiency Three-	Product code :	11439868	
Catalog # : 10018XT3E405T		Phase	Catalog # :	10018XT3E405T	

Шеq

Performance	: 2:	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 29 jue : 2 ie : 2	26/113 A .2 95 ft.lb 70 % 80 % 780 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 26.4 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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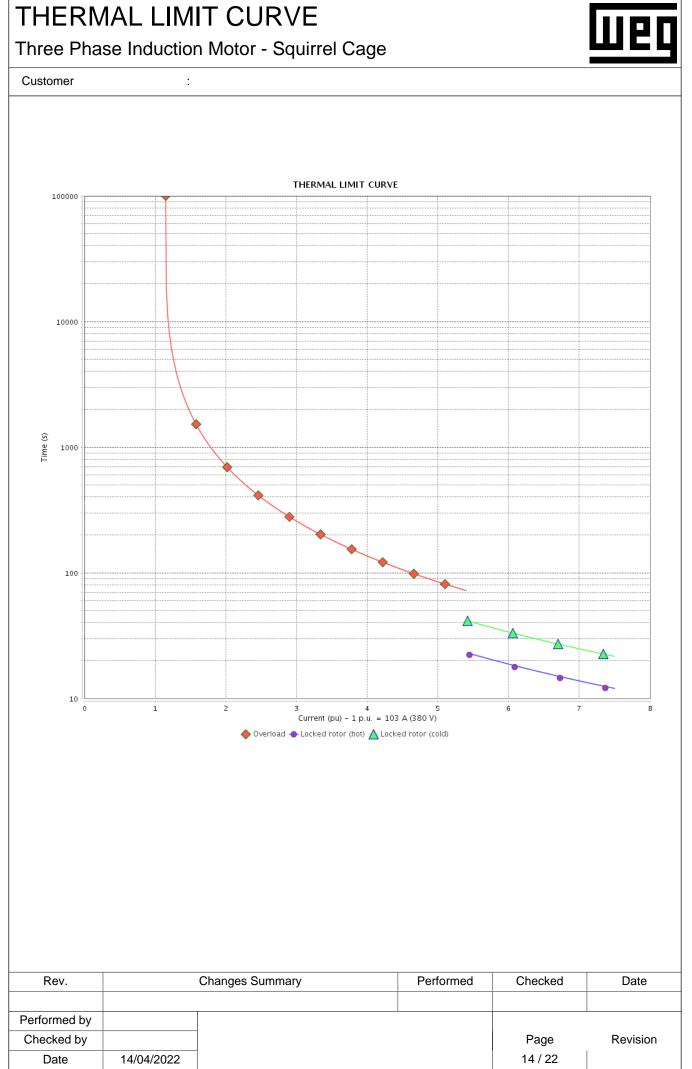
Three Phase Induction Motor - Squirrel Cage

Customer

	Product line	: NEMA Premium Efficiency Three-	Product code :	11439868	
Catalog # : 10018XT3E405T		Phase	Catalog # :	10018XT3E405T	

Шеq

Performance	:	380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	103 A 7.5 266 ft.lb 270 % 310 % 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 26.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					·	
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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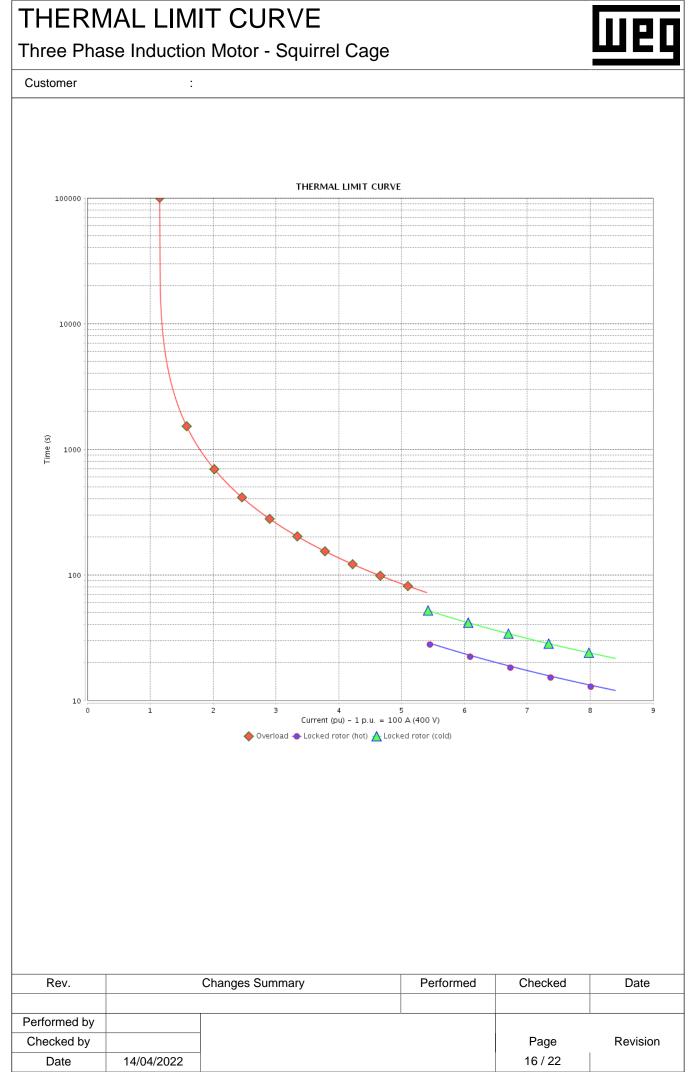
Three Phase Induction Motor - Squirrel Cage

Customer

Phase	
Catalog # : 10018XT3E405T	

Шед

Performance	: 4	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	jue :	100 A 8.4 265 ft.lb 300 % 360 % 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 26.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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Date	14/04/2022				15 / 22	
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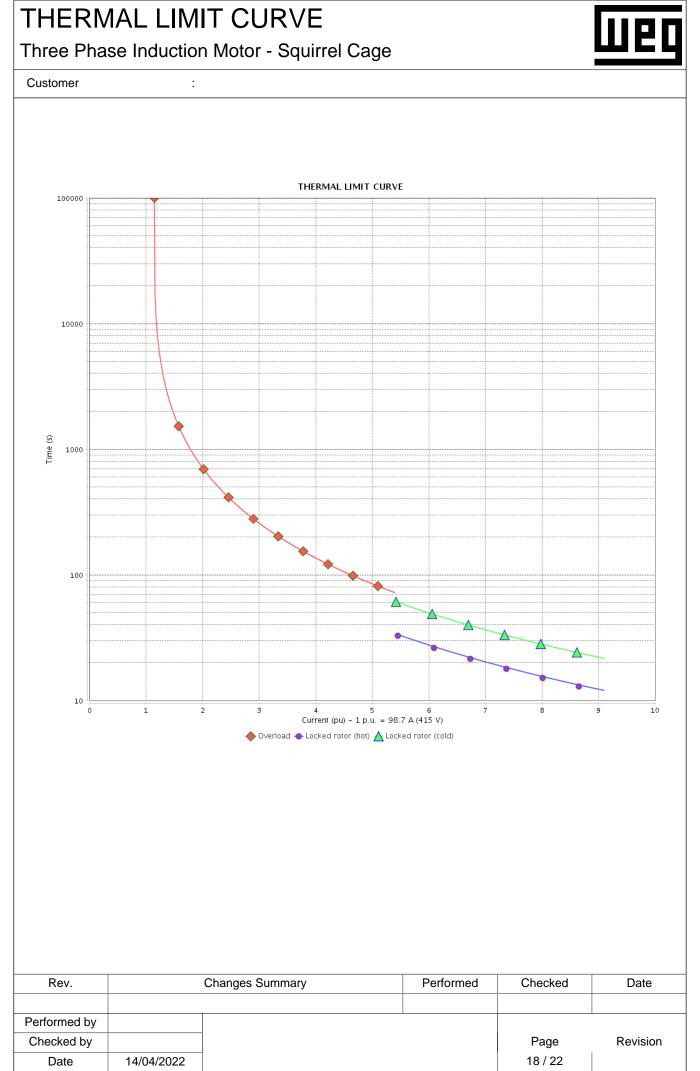
Three Phase Induction Motor - Squirrel Cage

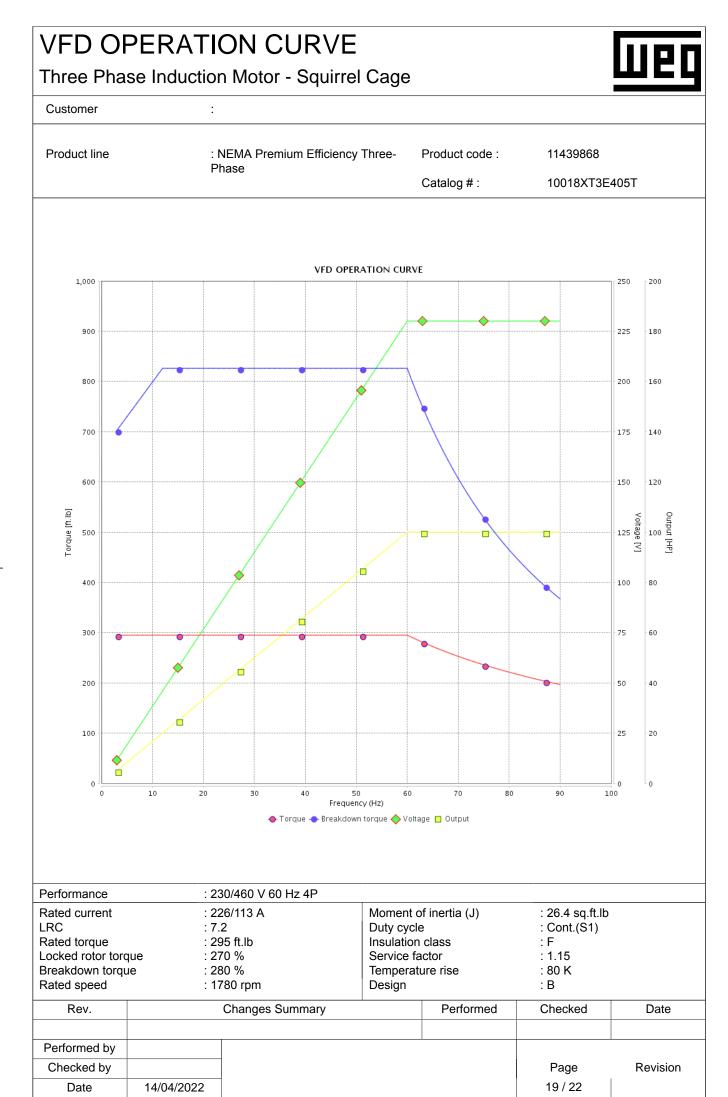
Customer

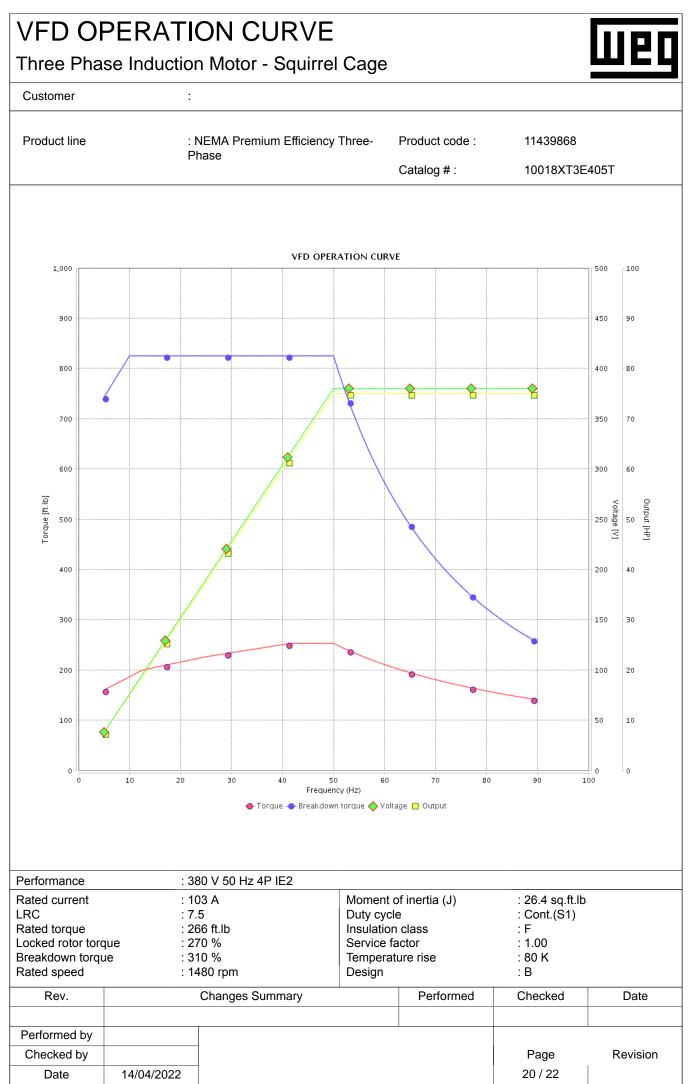
	roduct line	: NEMA Premium Efficiency Three-	Product code :	11439868	
Catalog # : 10018X13E4051		Phase	Catalog # :	10018XT3E405T	

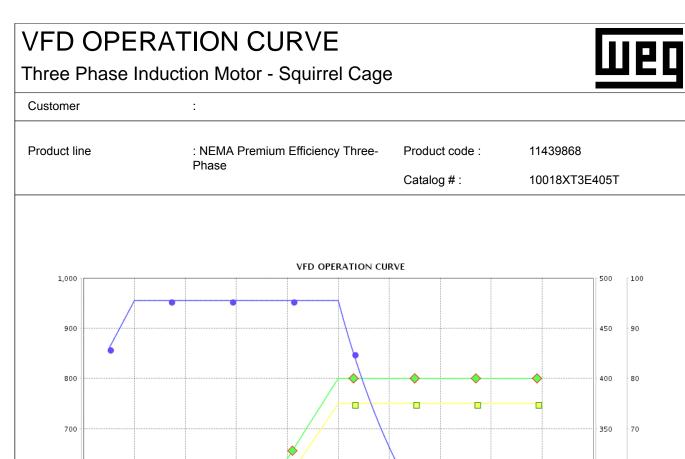
Шед

Performance	: 4	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 9. : 20 iue : 3 ie : 3	8.7 A 1 65 ft.lb 20 % 70 % 485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 26.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					·	
Cooling constant						
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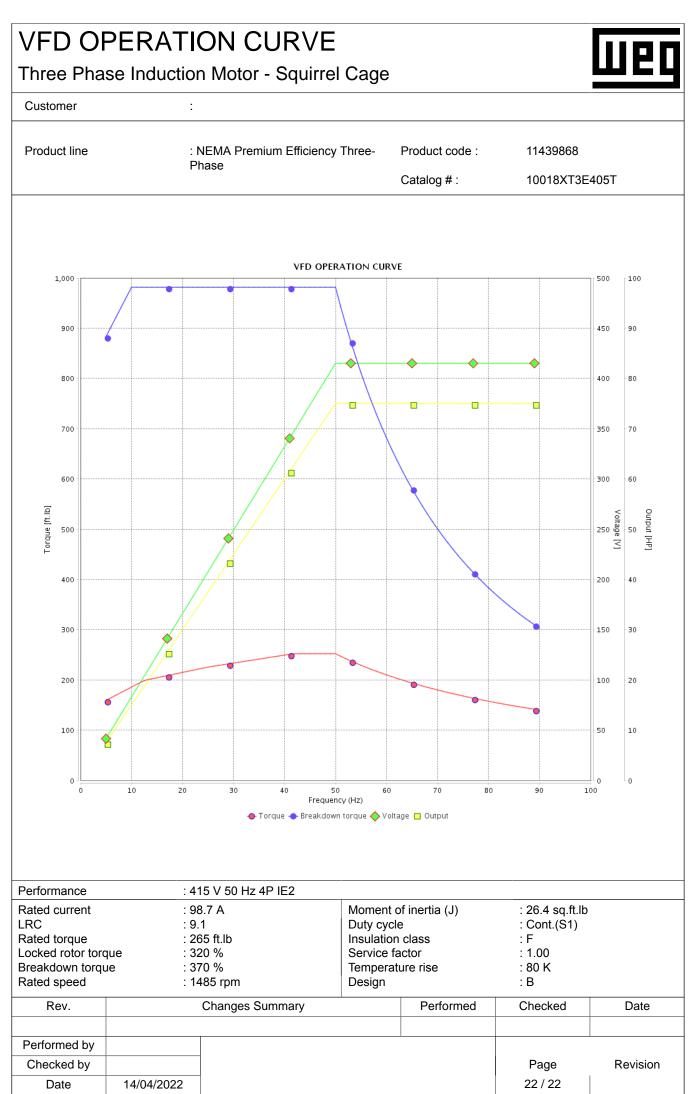


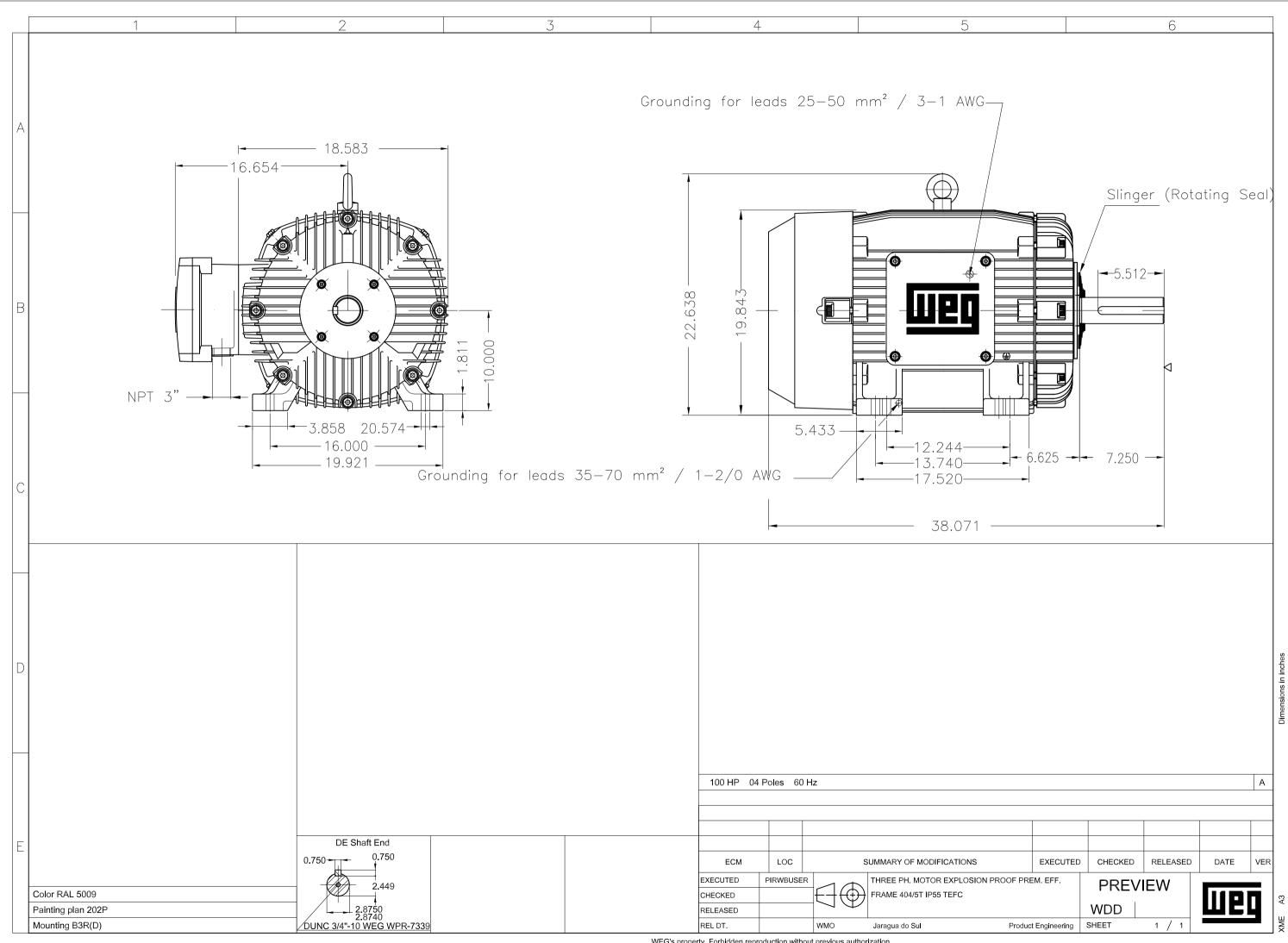






800 -			/	◆\					400	80
700 -									350	- 70
600					\				300	- 60
La transformed to the second s		•							Voltage [V]	Output [HP]
400									200	40
300 -		/						•	150	- 30
200			•						100	- 20
100								•	50	- 10
										_
0 <u> </u>	10 20	30 Tora	Freque	io 60 ncy (Hz)		70	80	90 :	릭 ^L 0 100	0
0		◆ Torqı	Frequei ue 🔶 Breakdow	ncy (Hz)			80	90 :		- 0
°erformance	: 4	● Torqu 00 V 50 Hz 4P	Frequei ue 🔶 Breakdow	ncy (Hz) /n torque 🔶 Vo	ltage 🖪 Ou	itput			100	- 0
°erformance Rated current RC Rated torque ocked rotor torque Breakdown torque	: 44 : 10 : 8 : 20 e : 30 : 30 : 30	● Torqu 00 V 50 Hz 4P 00 A	Frequei ue 🔶 Breakdow	ncy (Hz)	of inerticle	itput	: 2 : (: F	26.4 sq.ft.lk Cont.(S1) = 1.00 30 K	100	- 0
°erformance Rated current RC Rated torque ocked rotor torque Breakdown torque	: 44 : 10 : 8 : 20 e : 30 : 30 : 30	● Torqu 00 V 50 Hz 4P 00 A .4 65 ft.lb 00 % 60 %	Frequei	Momeni Duty cyu Insulatic Service Tempera	itage Ou of inerticle on class factor ature rise	itput	: 2 : (: F : 2 : 8 : E	26.4 sq.ft.lk Cont.(S1) = 1.00 30 K	100	Date
Performance Rated current RC Rated torque ocked rotor torque Rated speed Rev.	: 44 : 10 : 8 : 20 e : 30 : 30 : 30	● Torqu 00 V 50 Hz 4P 00 A .4 65 ft.lb 00 % 60 % 485 rpm	Frequei	Momeni Duty cyu Insulatic Service Tempera	itage Ou of inerticle on class factor ature rise	ia (J)	: 2 : (: F : 2 : 8 : E	26.4 sq.ft.lk Cont.(S1) - I.00 30 K 3	100	
Performance Rated current RC Rated torque ocked rotor torque Breakdown torque Rated speed	: 44 : 10 : 8 : 20 e : 30 : 30 : 30	● Torqu 00 V 50 Hz 4P 00 A .4 65 ft.lb 00 % 60 % 485 rpm	Frequei	Momeni Duty cyu Insulatic Service Tempera	itage Ou of inerticle on class factor ature rise	ia (J)	: 2 : (: F : 7 : 8 : E C	26.4 sq.ft.lk Cont.(S1) - I.00 30 K 3)	





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	CC029A Inverter Duty Severe Duty				D C C C C C C C C C C C C C C C C C C C	TEMP CODE T3C CSA/UL: Class I - Div. 1 - Groups C and D CSA: Class II - Div. 1 - Groups F and G CSA: Class I - Zone 1 - IIB EXPLOSION PROOF MOTOR FOR USE ON VPWM VFD 1000:1VT, 2:1CT, 1.0SF, T3C, AMB 40°C.
10018XT3E405T E IN BRAZIL 1439868	PH 3 FR 404/5T	HP(kW) 1	kW) 100.0(75.0)		Iz 60	
	V 230/460	A 22	A 226/113		0	015 016 014 015 016 014
018X N B 398	NEMA NOM. EFF. 95.4	INS CL F	∆T 80	D K IP55	- ΥΤΙ ΥΤΙ ΟΤΙ ΟΤΙ ΟΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ Ο ΤΙ	
<u>е</u> 14 10	PF 0.87	DUTY CONT.	•		CODE H	208-230V 460//380V
MODEL 1 MADE 11	ENCL. TEFC	SF 1.15	SFA 26	0/130		→ 6217-C3(21g) MOBIL POLYREX EM
ž	AMB 40°C	DES B US	SABLE @208V 250) A SF 1	.00	$1 \oplus \rightarrow 6314 - C3(21g)$ MOBIL POLYREX EM
	AMB 55°C SF1.0 -b	pearings lub in	terval reduced by	a factor	of 50%	ALT 1000 m.a.s.l 1202 Lbs
	75HP 55kW 50Hz 3	380V 103A	1480RPM SF1.	00 EFF	94.5% (IE2)	