DATA SHEET

Three Phase Induction Motor - Squirrel Cage

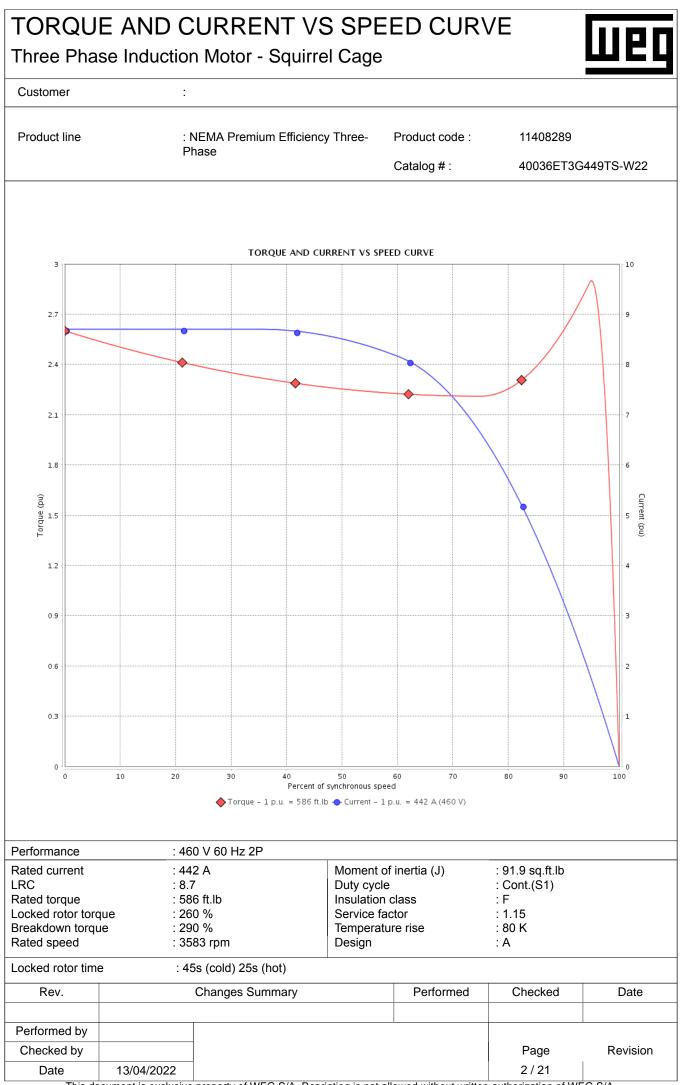
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Customer

		: NEMA Premium Efficiency Three- Product code : Phase			ict code :	e: 11408289		
		Flidse		Catal	og # :	40036	ET3G449TS-W22	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: L447/9TS : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : A		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 3189 lb : 91.9 sq.ft.lb		
Output [HP]		400		350	350		350	
Poles		2		2	2		2	
Frequency [Hz]		60		50	50		50	
Rated voltage [V]		460		380	400		415	
Rated current [A]		442		458	435		424	
. R. Amperes [A]		3845		3618	3872		4070	
_RC [A]		8.7x(Code J)	7.9	Dx(Code H)	8.9x(Cod		9.6x(Code K)	
No load current [A	1	118		115	122		129	
Rated speed [RPN		3583		2982	2984		2985	
Slip [%]	L	0.47		0.60	0.53		0.50	
Rated torque [ft.lb]	1	586		616	616		616	
_ocked rotor torqu		260		250	270		290	
Breakdown torque		290		260	290		320	
Service factor	. [, .]	1.15			1.00		1.00	
Temperature rise			80 K		105 1		105 K	
Locked rotor time		45s (cold) 25s (hot)	365 (0	105 K cold) 20s (hot)	32s (cold) 1		30s (cold) 17s (hot)	
Noise level ²		88.0 dB(A)		6.0 dB(A)	86.0 dE		86.0 dB(A)	
	25%	95.3		95.3	95.3		95.3	
	50%	95.4		95.4	95.4		95.4	
Efficiency (%)	75%	95.8		95.8	95.8		95.8	
	100%	95.8		95.8	95.8		95.8	
	25%	0.56		0.56	0.55		0.53	
	50%	0.80		0.80	0.80		0.33	
Power Factor	75%	0.85		0.85	0.85		0.85	
	100%	0.89		0.90	0.90		0.89	
Bearing type Sealing Lubrication interval		<u>Drive end</u> <u>Non dr</u> : 6314 C3 63 : WSeal W	<u>ive end</u> 14 C3 /Seal	Foundation loadsMax. traction: 3658 lbMax. compression: 6847 lb				
			000 h				-	
Lubricant amoun Lubricant type			27 g					
Lubricant amoun Lubricant type Notes This revision repl must be eliminate (1) Looking the m (2) Measured at 1	aces and can ed. hotor from the 1m and with to	: 27 g 2 : Mobil Polyrex E cel the previous one, w shaft end. olerance of +3dB(A).	27 g EM		erage values b		sts with sinusoidal stipulated in NEMA	
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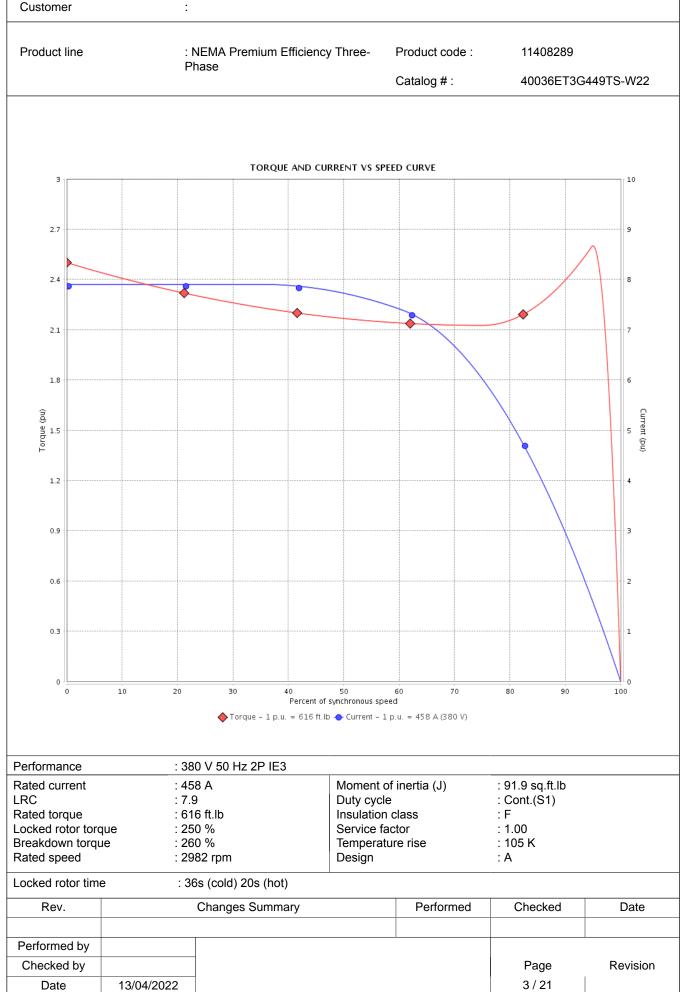


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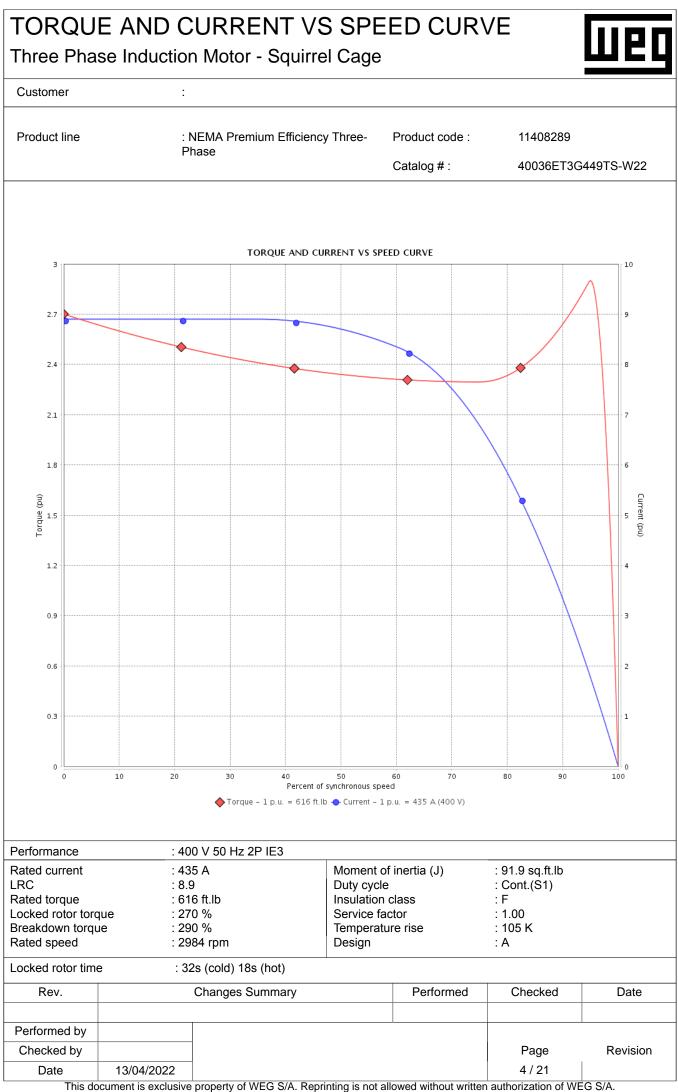
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



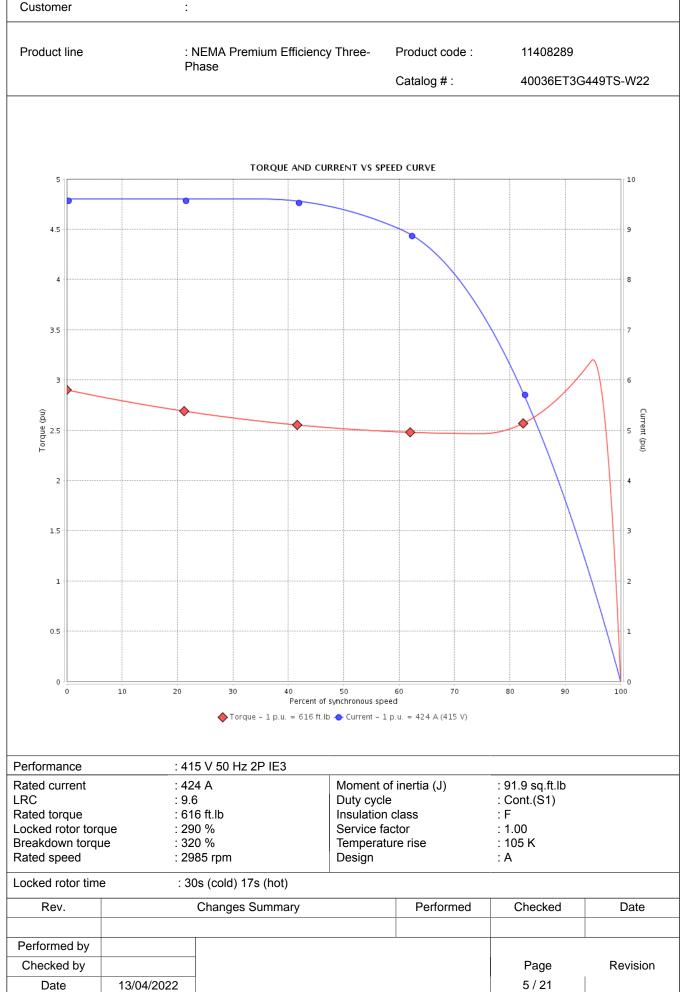
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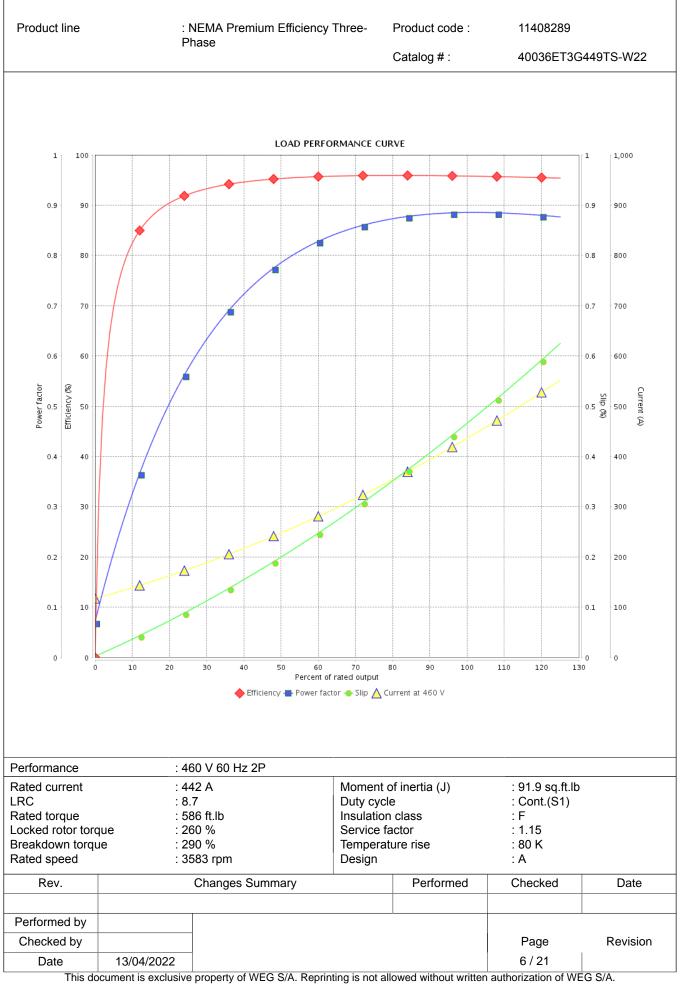
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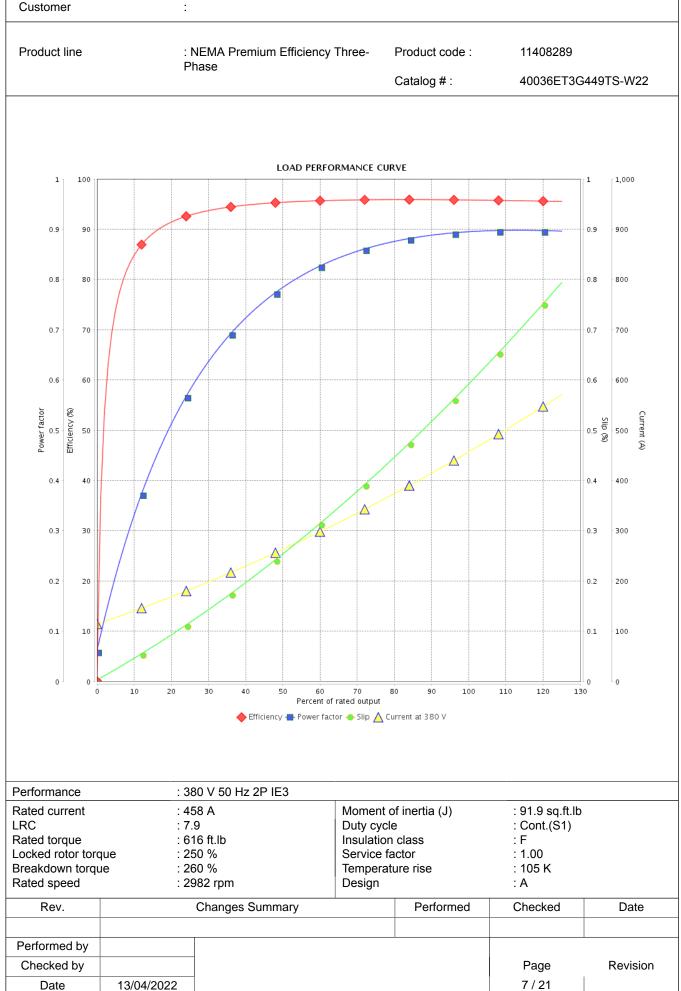


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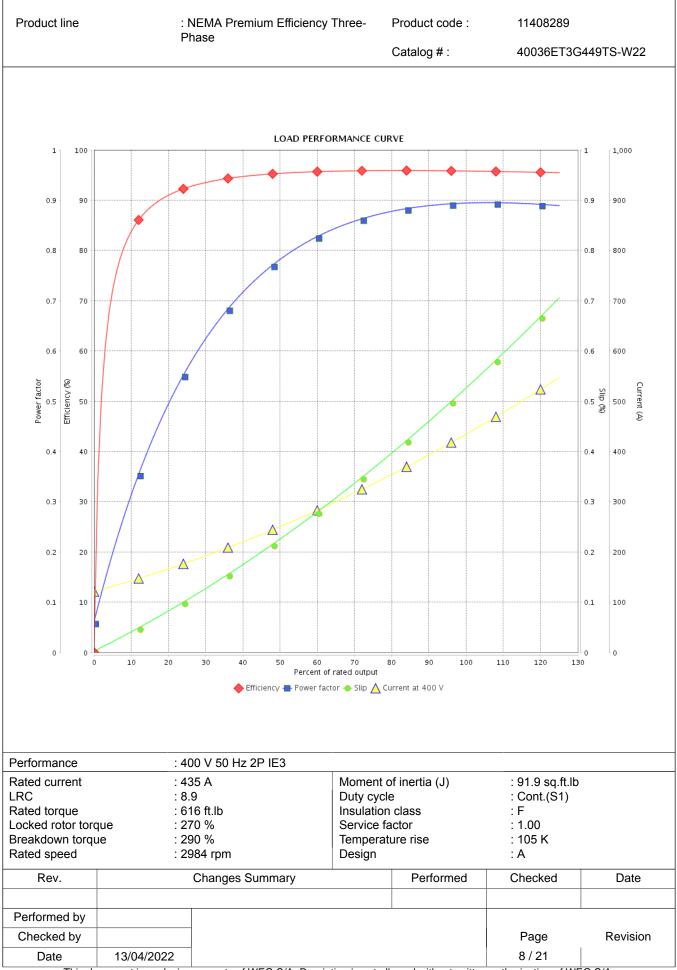
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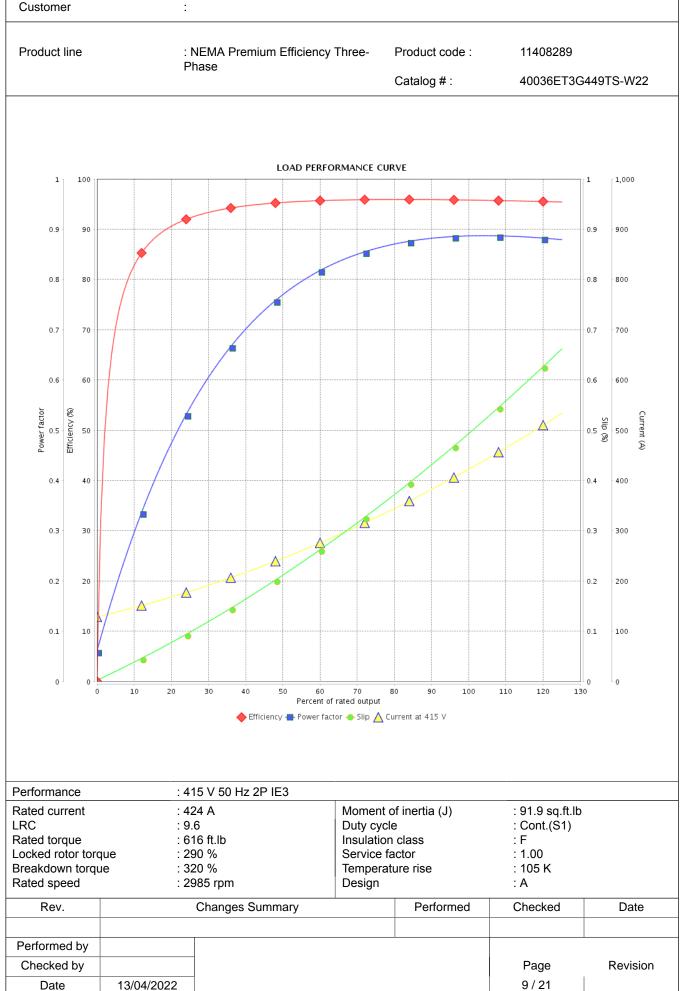
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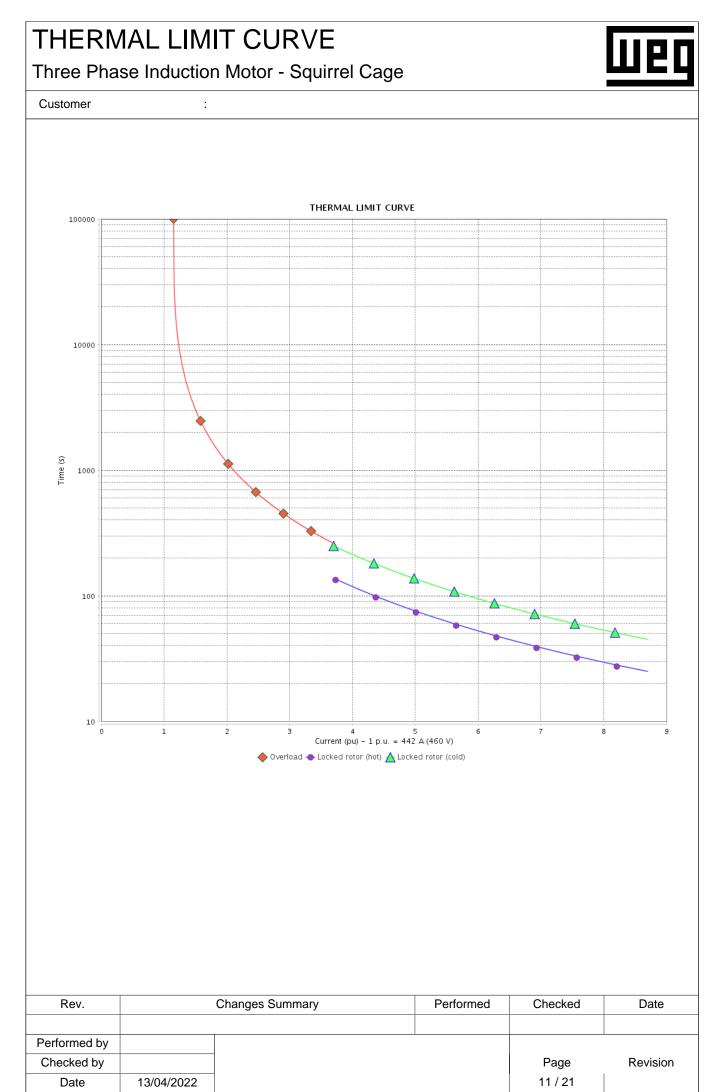
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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer Product line	: : NEMA Premium Efficiency Phase	Three-	Product code : Catalog # :	11408289 40036ET3G	449TS-W22			
Performance	: 460 V 60 Hz 2P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 442 A : 8.7 : 586 ft.lb Je : 260 %	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design					
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date			

Performed by					
Checked by				Page	Revision
Date	13/04/2022			10 / 21	
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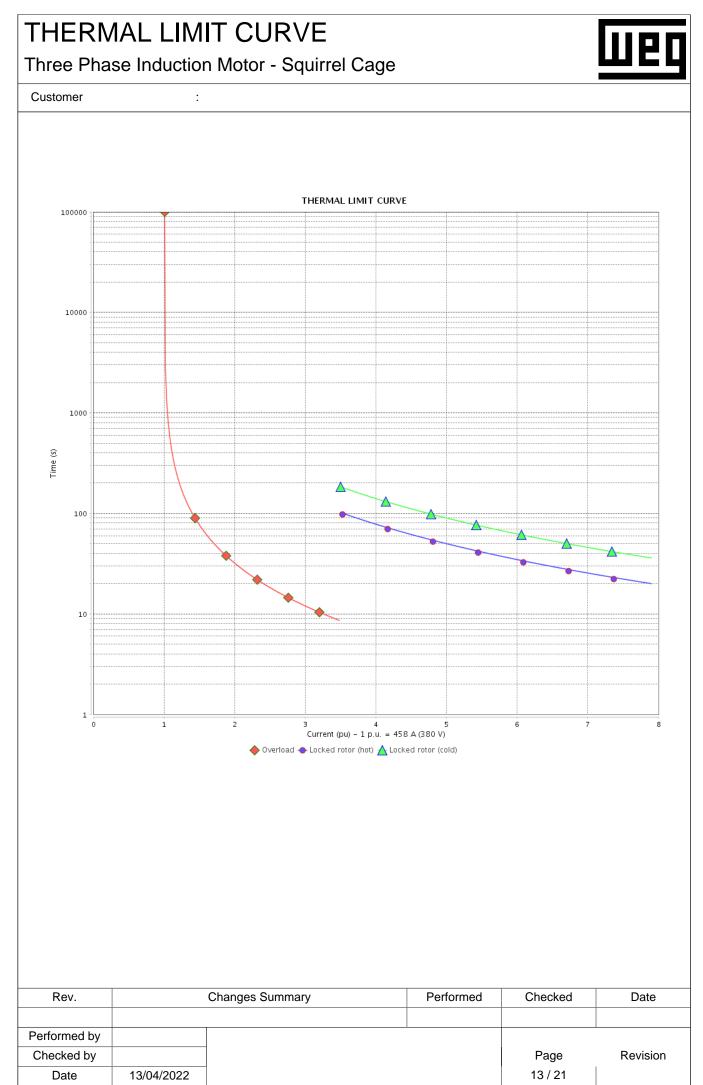


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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage								
Customer		:						
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11408289 40036ET3G	6449TS-W22		
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	lue Ie	: 380 V 50 Hz 2P IE3 : 458 A : 7.9 : 616 ft.lb : 250 % : 260 % : 2982 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 91.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A			
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date		

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Checked by					Page	Revision
Date	13/04/2022				12 / 21	
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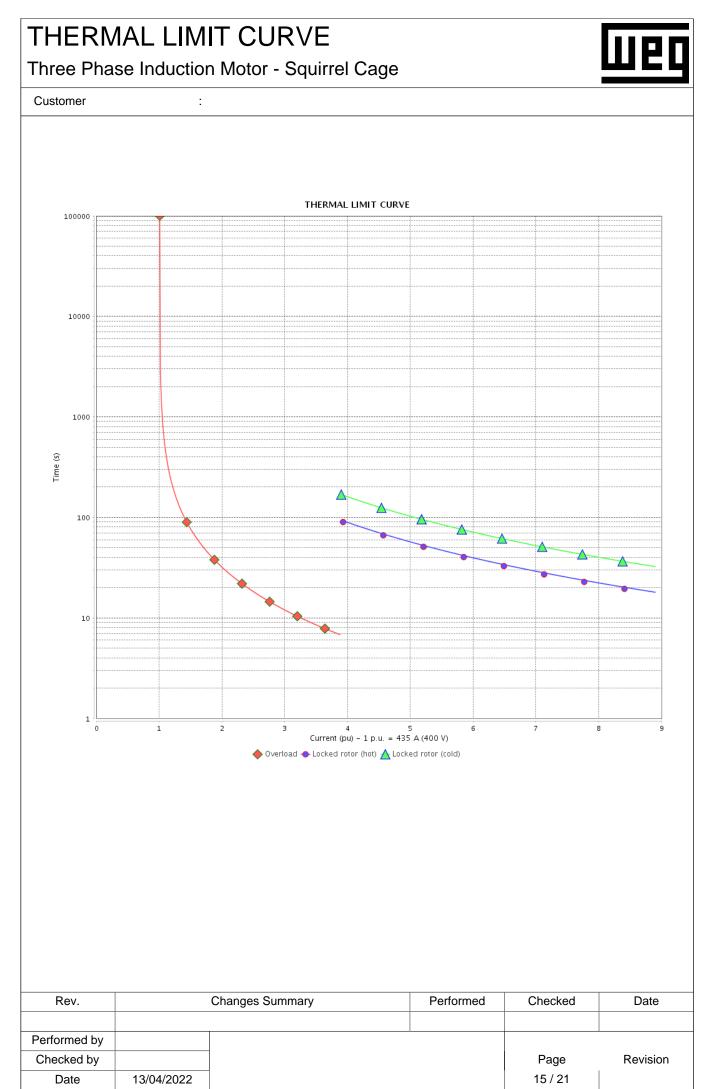
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THERMAL LIMIT CURVE							
	se Induct	ion Motor - Squirrel	Cage				
Customer		:					
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	11408289		
				Catalog # :	40036E13G	449TS-W22	
Performance Rated current LRC		: 400 V 50 Hz 2P IE3 : 435 A : 8.9	Moment o Duty cycle	f inertia (J)	: 91.9 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor toro Breakdown torqu	ant ant	: 616 ft.lb : 270 % : 290 %	Insulation class Service factor Temperature rise		: F : 1.00 : 105 K		
Rated speed		: 2984 rpm	Design		: A		
Heating constant							
Rev.		Changes Summary		Performed	Checked	Date	

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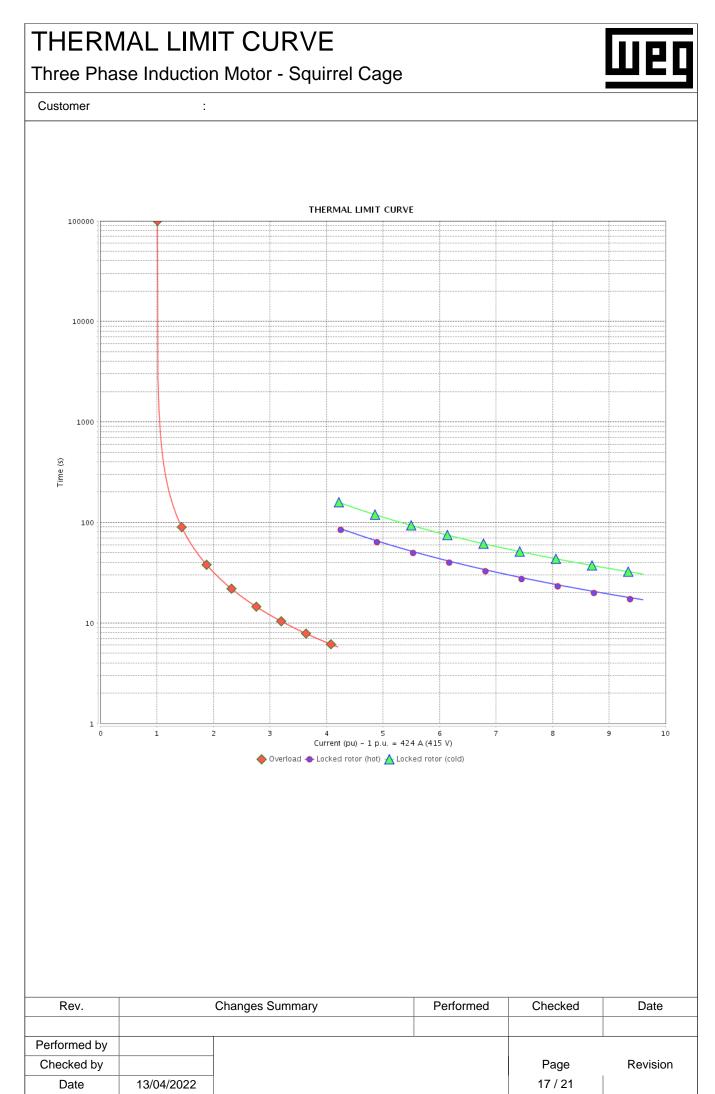


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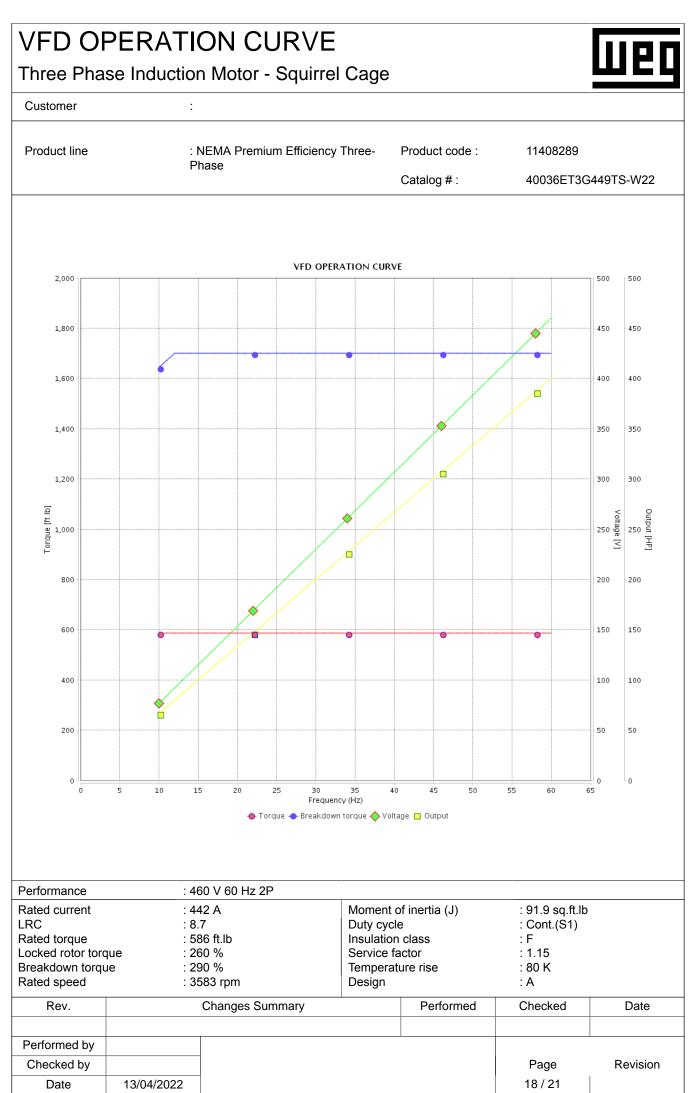
THERMAL LIMIT CURVE							
Three Pha	se Induct	ion Motor - Squirrel	Cage				
Customer		:					
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11408289 40036ET3G	449TS-W22	
Performance		: 415 V 50 Hz 2P IE3					
Rated current LRC		: 424 A : 9.6	Moment o Duty cycle	f inertia (J) e	: 91.9 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torc		: 616 ft.lb : 290 %	Insulation Service fa		: F : 1.00		
Breakdown torqu Rated speed	le	: 320 % : 2985 rpm	Temperatu Design		: 105 K : A		
Heating constant			Design		. ^		
Cooling constant							
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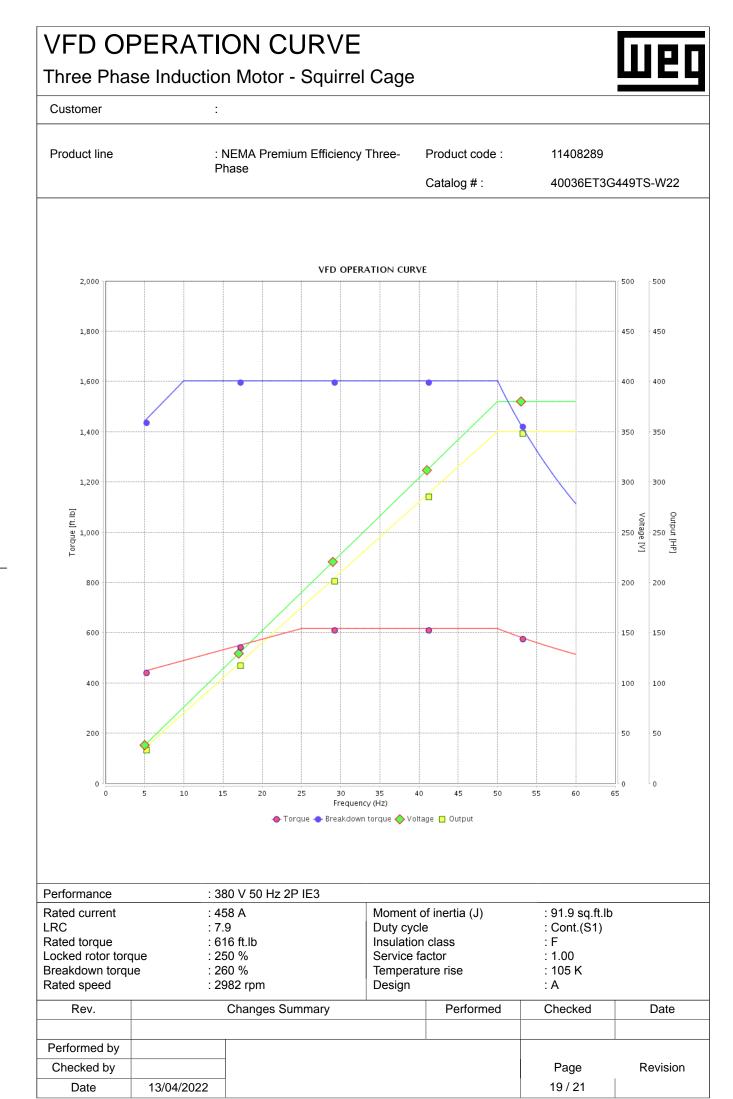
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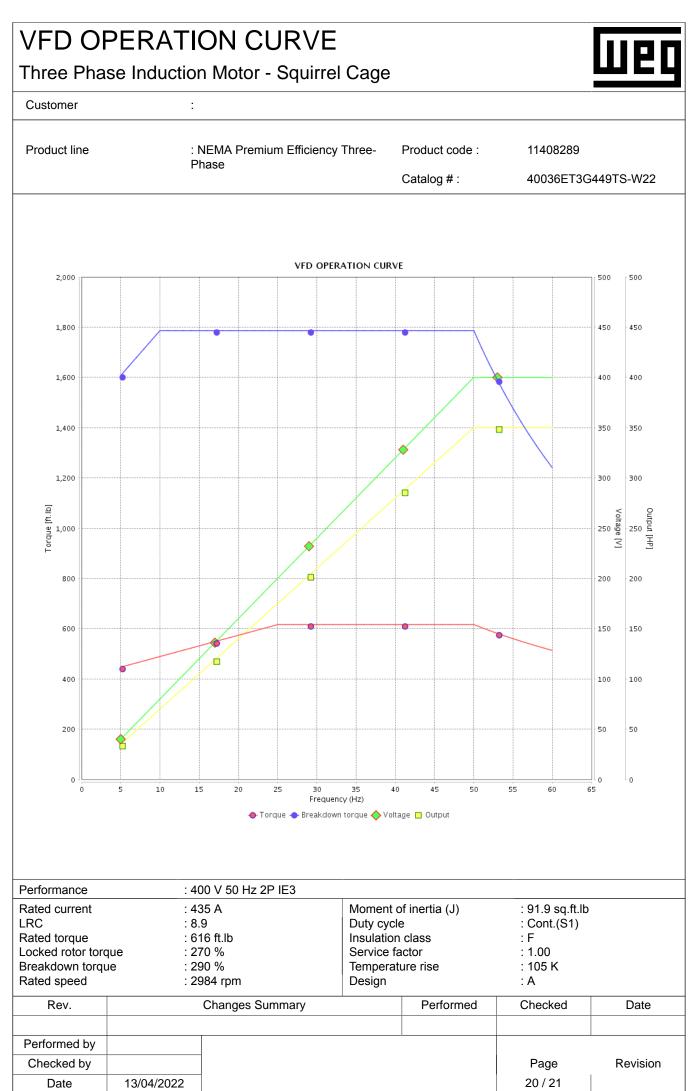
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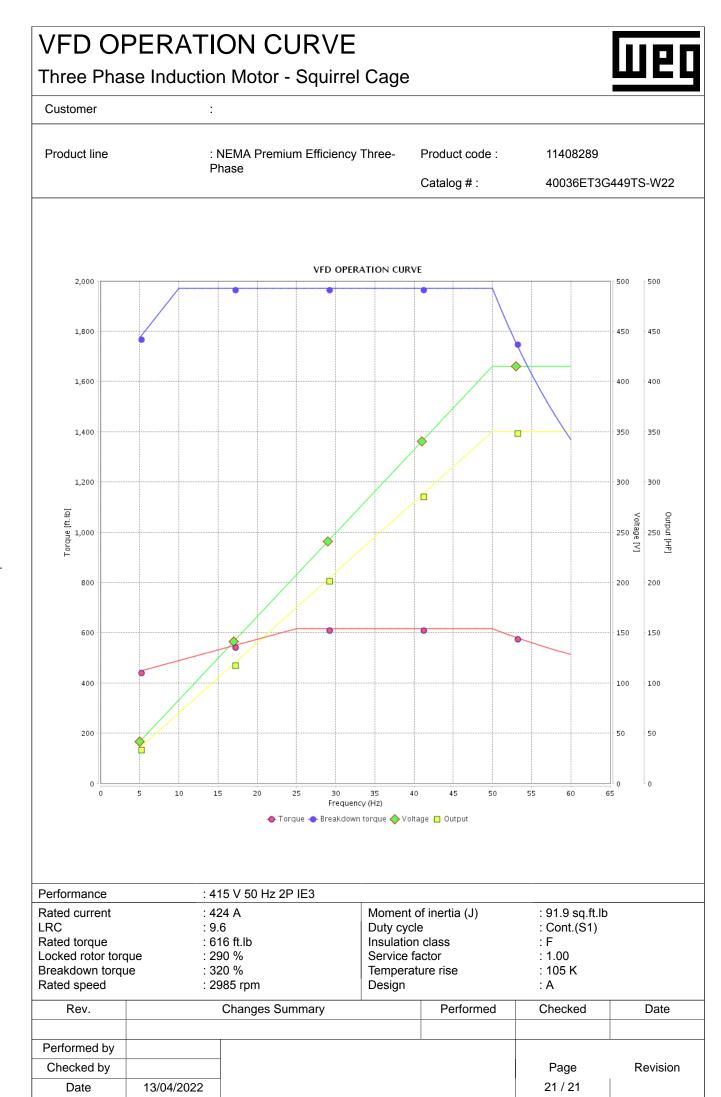
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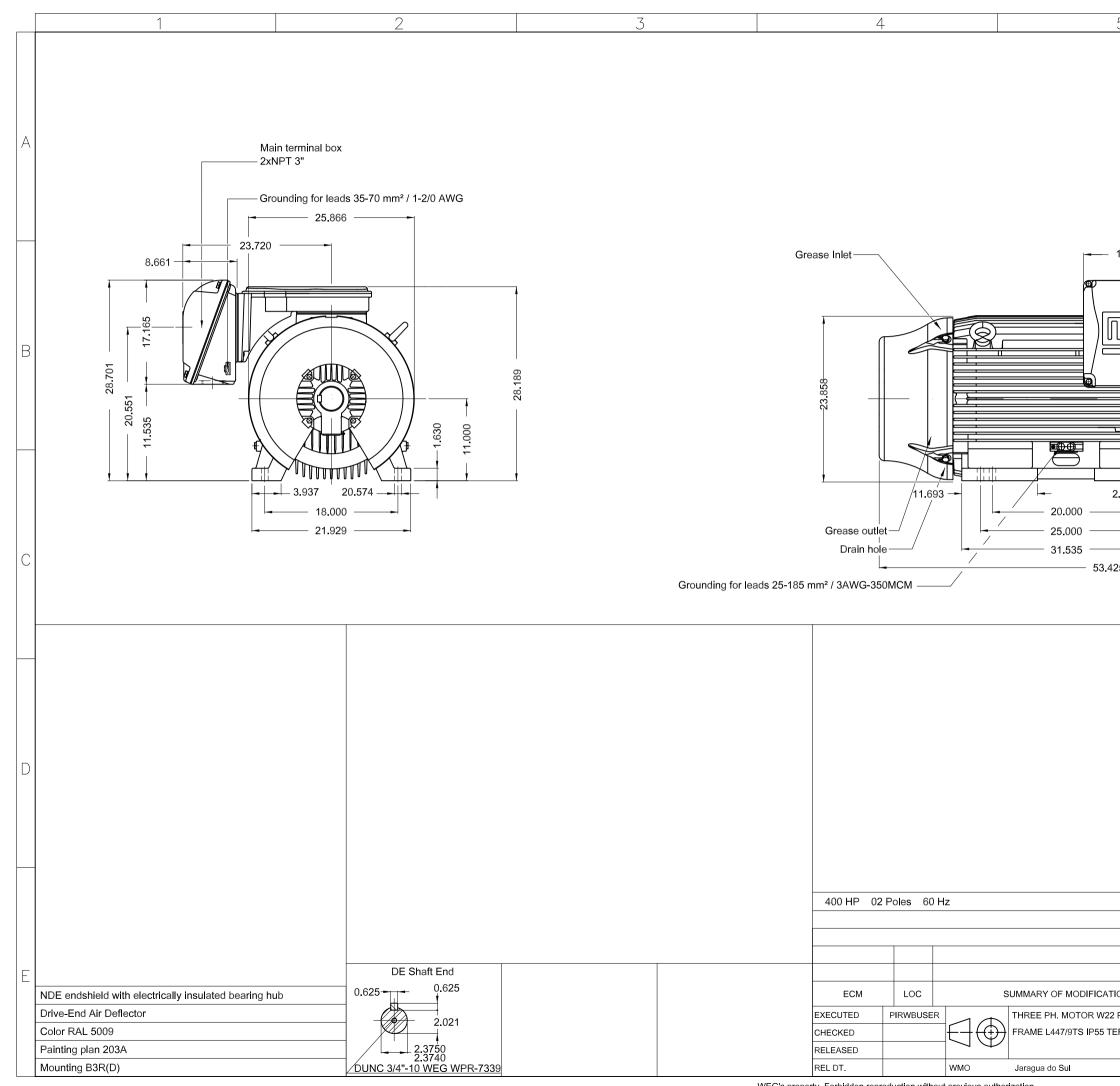
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		Premium W22				FOR SAFE A Mod.TE1BFC CCC	029A c*	SP. US ergy Verfled	Class II, Div 2, Gr F	B, C and D – T3 - T3 and G – T3C	
	MODEL 40036ET3	G449TS-W22							For use on PWM: Gr. VT 1000:1, CT 6:1, 1	A, B, C, D and F, .00SF — T3	
MEXICO 289	Inverter Duty Moto	r									
MEX 289	Severe Duty' PH3 60Hz		1000	TEEO	3186lb				PART-WINDING START RUN	WYE-DELTA START RUN 011201100111 011201100111	
828 82	PH3 60Hz V 460	Fr. L447/9TS	1000m.a.s.l. IP55 A 442	TEFC	31000				T12 T10 T11 012 T10 T11	0T120T100T11 0T120T100T11	
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	AMB 40°C		INS cl. F DT	BOK	NEMA NOM EFF 95	.8%	E	∃ →6	314–C3 (27g)		
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