DATA SHEET

Three Phase Induction Motor - Squirrel Cage

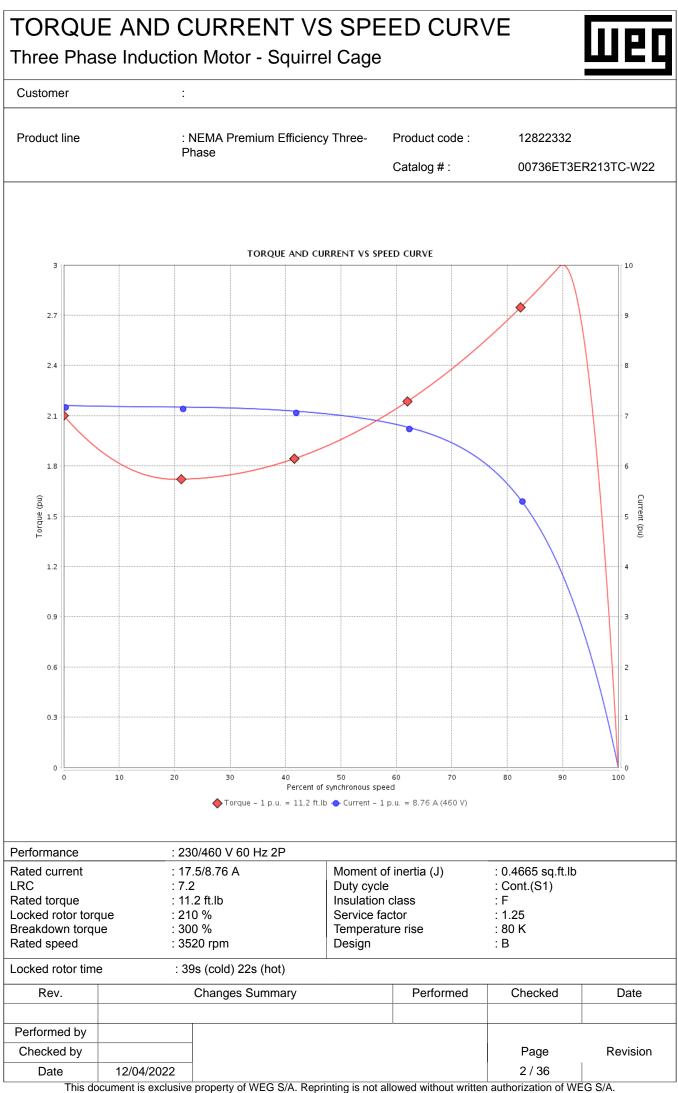
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Customer

Product line		: NEMA Premium Efficiency Three- Phase			Product code	e: 12	822332	
		Thase			Catalog # :	00	736ET3ER21	13TC-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 213TC : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B		Mour Rota Start Appr		: V : E : C : 1	C411 - TEFC V-6 Both (CW and Direct On Line 50 lb 0.4665 sq.ft.lb)
Output [HP]		7.5	5.5	5.5	5.5	7.5	7.5	7.5
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A] L. R. Amperes [A]		17.5/8.76 126/63.1	7.83 60.3	7.60 57.8	7.49 62.2	10.6 60.4	10.2 65.3	9.82 67.8
LRC [A]					J) 8.3x(Code K)			6.9x(Code F
No load current [A	.]	5.40/2.70	2.84	3.05	3.22	2.70	2.90	3.30
Rated speed [RPN		3520	2930	2940	2945	2895	2905	2915
Slip [%]		2.22	2.33	2.00	1.83	3.50	3.17	2.83
Rated torque [ft.lb]		11.2	9.86	9.82	9.81	13.6	13.6	13.5
Locked rotor torqu		210	220	250	270	170	190	210
Breakdown torque	e [%]	300	310	350	370	229	260	280
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	50s (cold) 28s (hot)	46s (cold) 26s (hot)	25s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	25%	68.0 dB(A) 87.2	63.0 dB(A) 86.4	63.0 dB(A 86.1) 63.0 dB(A) 85.8	63.0 dB(A) 89.1	63.0 dB(A) 87.3	63.0 dB(A) 87.2
	50%	87.5	86.7	86.4	86.1	88.5	87.5	87.5
Efficiency (%)	75%	89.5	88.2	88.3	88.5	88.5	87.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	87.5	88.5
	25%	0.52	0.48	0.45	0.42	0.57	0.54	0.50
	50%	0.75	0.74	0.70	0.67	0.80	0.77	0.74
Power Factor	75%	0.84	0.83	0.81	0.78	0.87	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.90	0.89	0.88
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		Drive end : 6308 ZZ : V'Ring : - : - : Mobi		ZZ Max.	lation loads traction compression		38 lb 38 lb	
Notes USABLE @208V This revision repla				n These	are average v	alues based o	on tests with s	inusoidal
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	notor from the Im and with the weight subject ocess.	tolerance of +3		powe MG-1	supply, subjec	t to the tolera	nces stipulate	d in NEMA
Rev.		Changes	Summary	1	Performe	ed Che	ecked	Date
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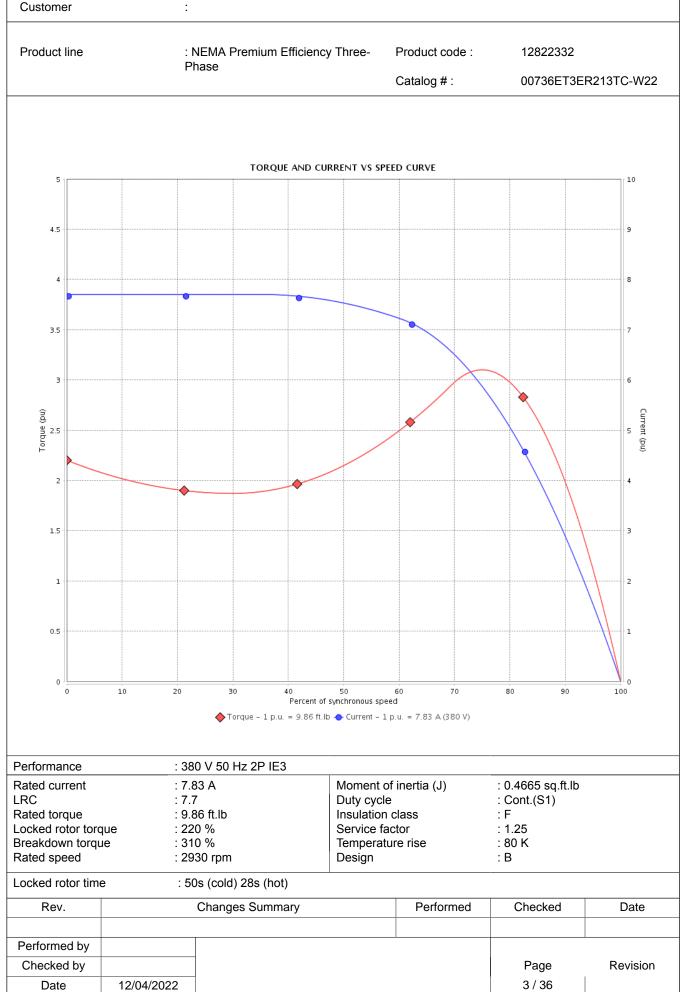
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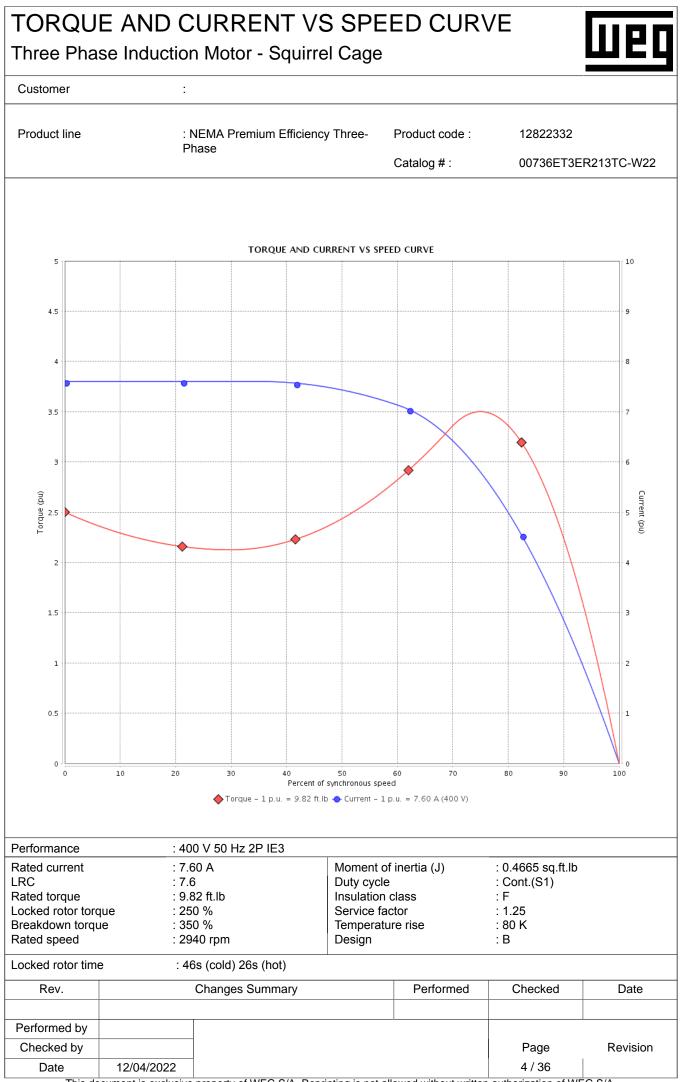
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





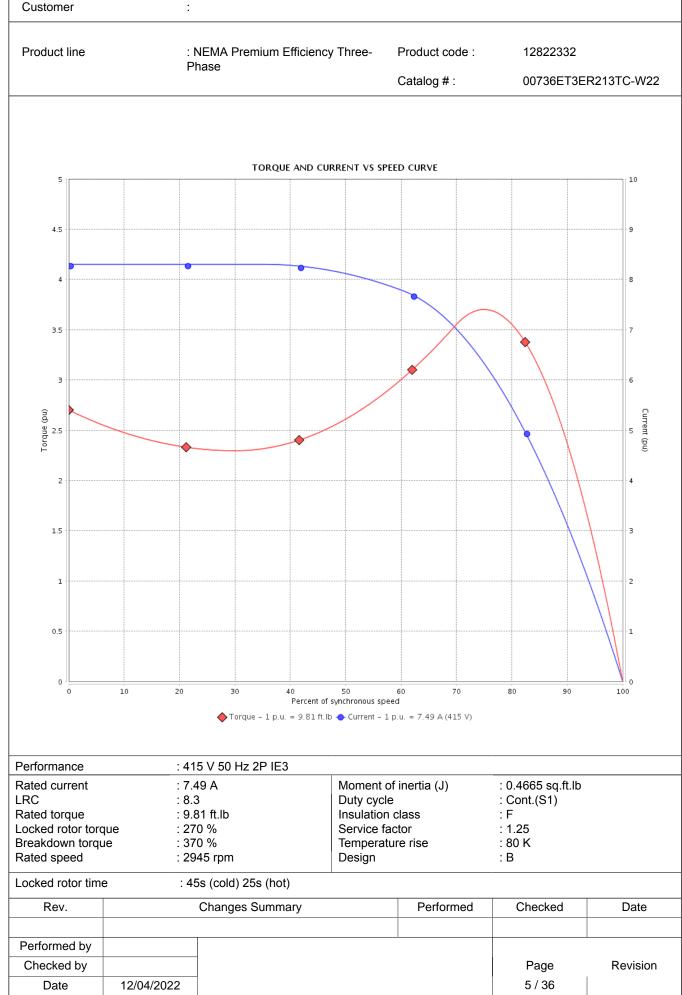
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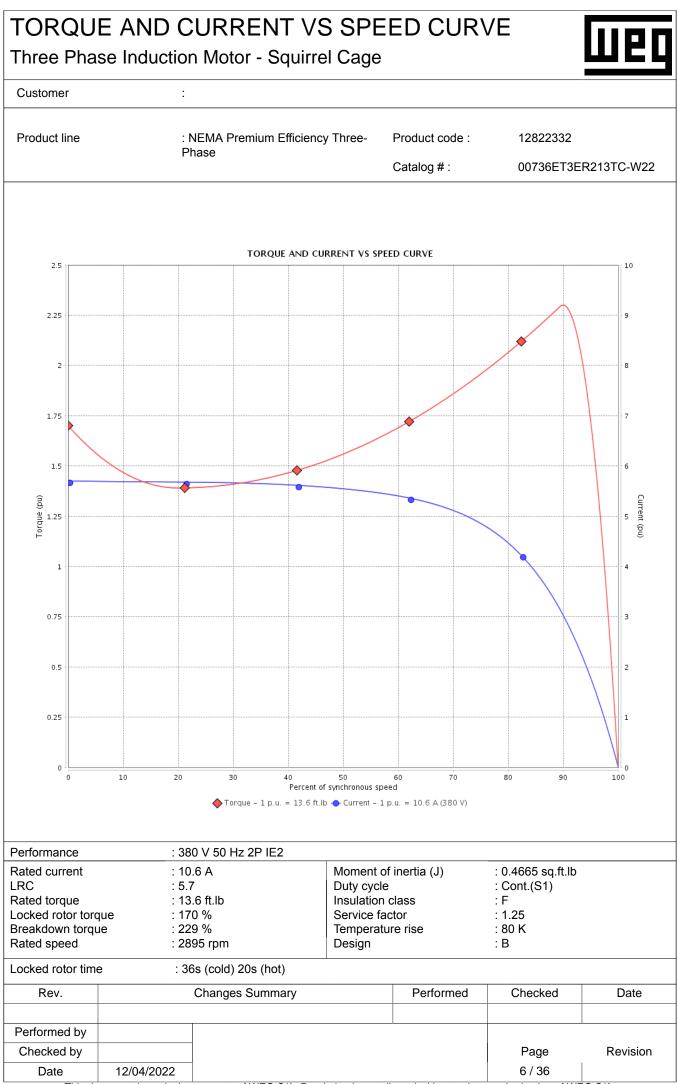
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





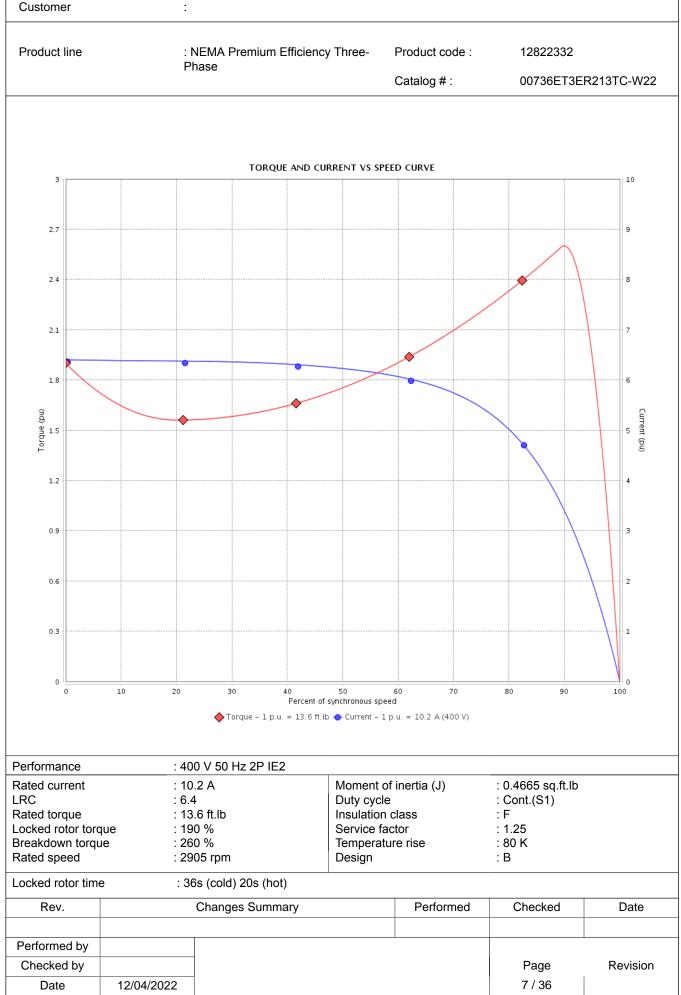
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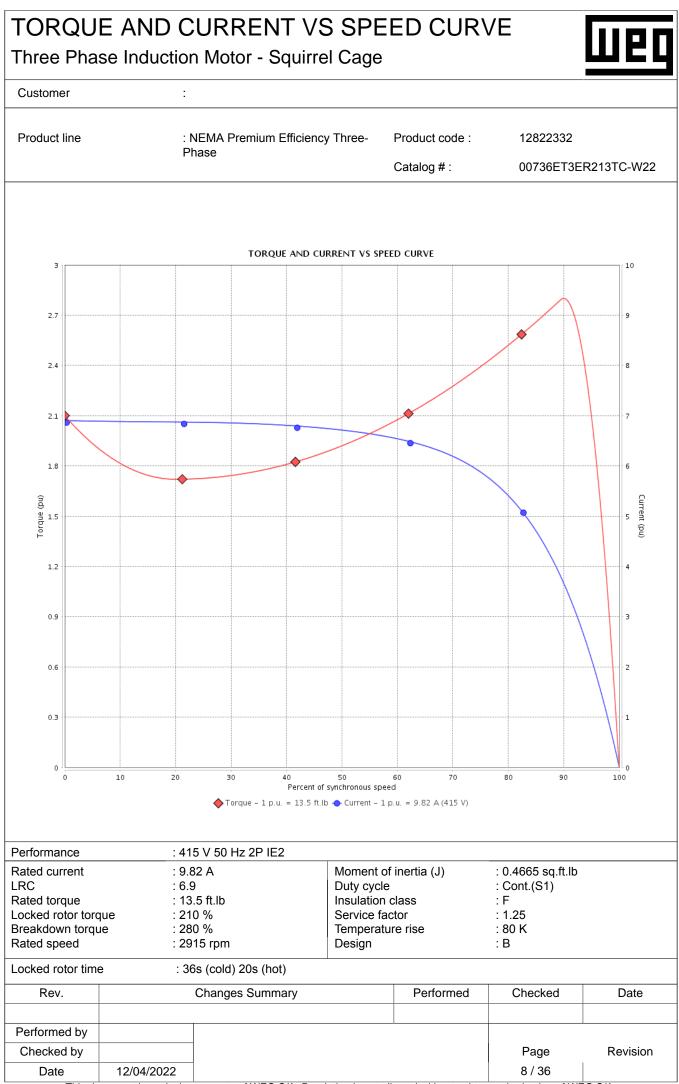
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Three Phase Induction Motor - Squirrel Cage



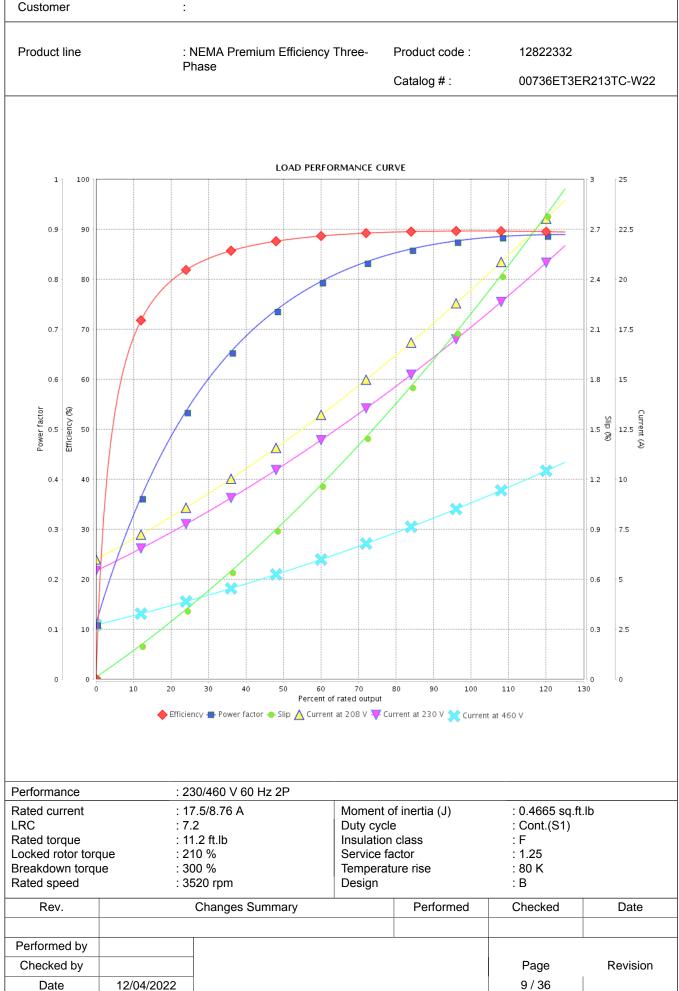


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Three Phase Induction Motor - Squirrel Cage

Customer



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LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 12822332 Phase Catalog # : 00736ET3ER213TC-W22 LOAD PERFORMANCE CURVE 100 1 10 4.5 0.9 90 9 Δ 0.8 80 4 8 Δ 0.7 70 3.5 7 Δ 0.6 60 З 6 Power factor Efficiency (%) Current (A) Slip (%) 0.5 50 2.5 5 Δ 0.4 40 2 Δ 0.3 30 1.5 з Ä 0.2 20 1 2 0.1 10 0.5 1 0 0 0 0 ó 10 20 100 110 120 130 30 40 50 60 70 80 90 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛆 Current at 380 V Performance : 380 V 50 Hz 2P IE3 : 7.83 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb LRC : 7.7 Duty cycle : Cont.(S1) : 9.86 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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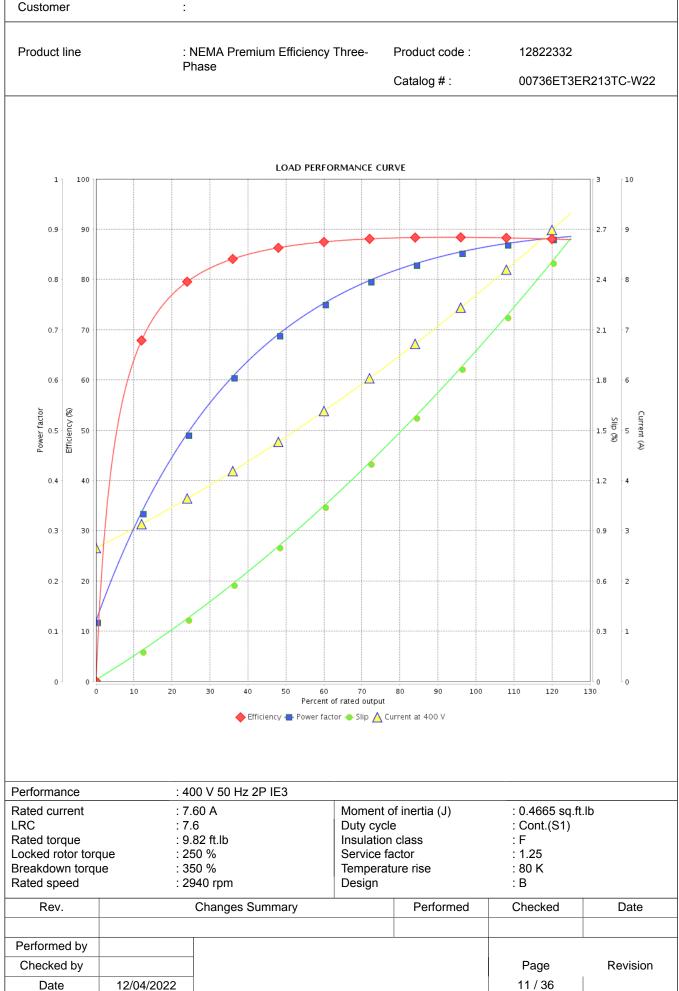
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Date

12/04/2022

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 : 12822332 Phase Catalog # : 00736ET3ER213TC-W22 LOAD PERFORMANCE CURVE 100 1 2.5 10 0.9 90 2.25 9 0.8 80 2 8 7 0.7 70 1.75 Δ 0.6 60 1.5 6 Power factor Efficiency (%) Current Slip (%) 0.5 50 1.25 Δ Þ \triangle 0.4 40 1 Δ 0.3 30 0.75 з 0.2 20 0.5 2 0.1 10 0.25 1 0 0 0 0 ó 10 20 100 110 120 130 30 40 50 60 70 80 90 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛕 Current at 415 V Performance : 415 V 50 Hz 2P IE3 : 7.49 A Rated current Moment of inertia (J) : 0.4665 sq.ft.lb LRC Duty cycle : Cont.(S1) : 8.3 : 9.81 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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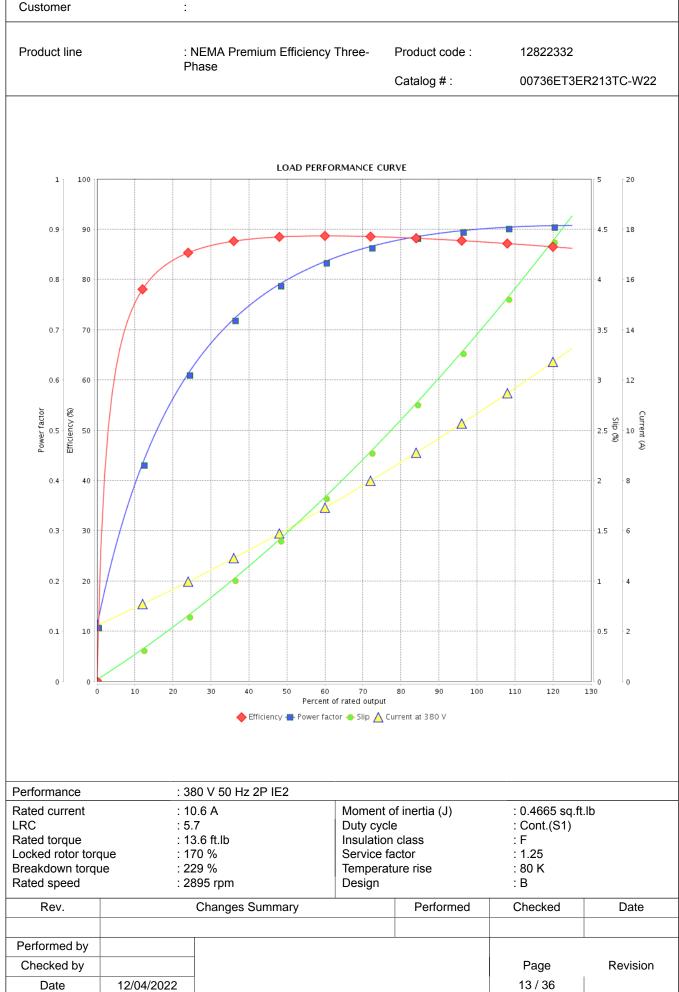
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Three Phase Induction Motor - Squirrel Cage

Customer



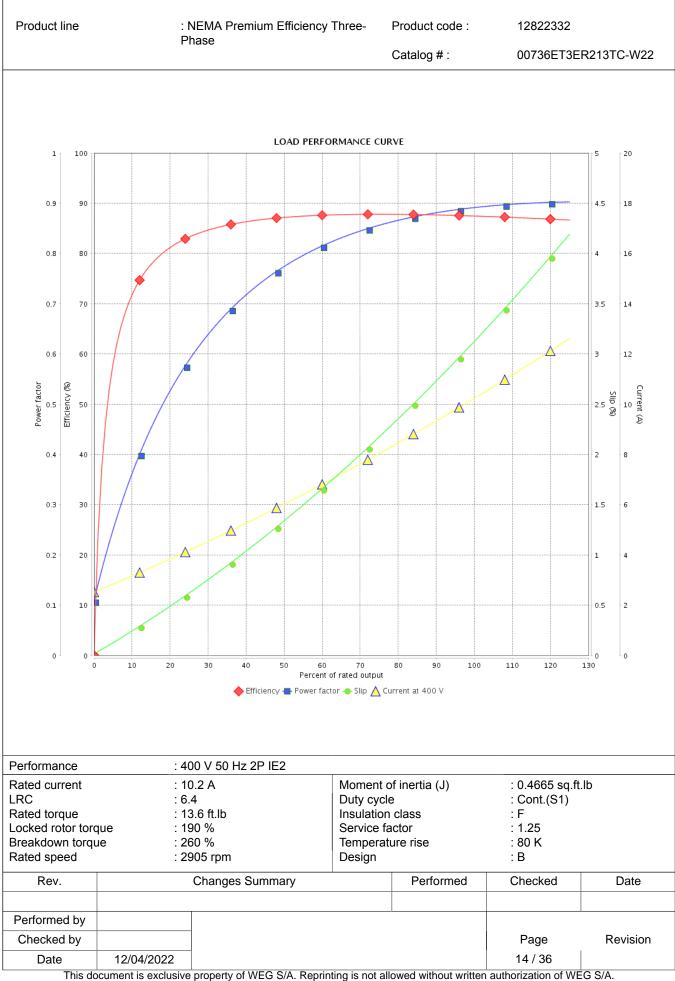
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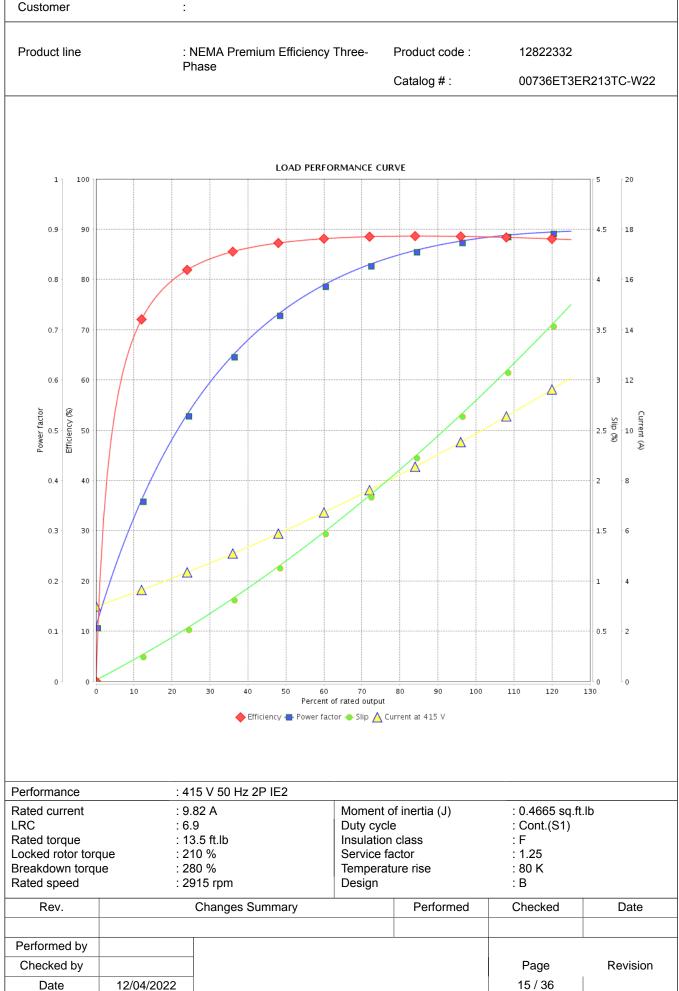


Customer



Three Phase Induction Motor - Squirrel Cage

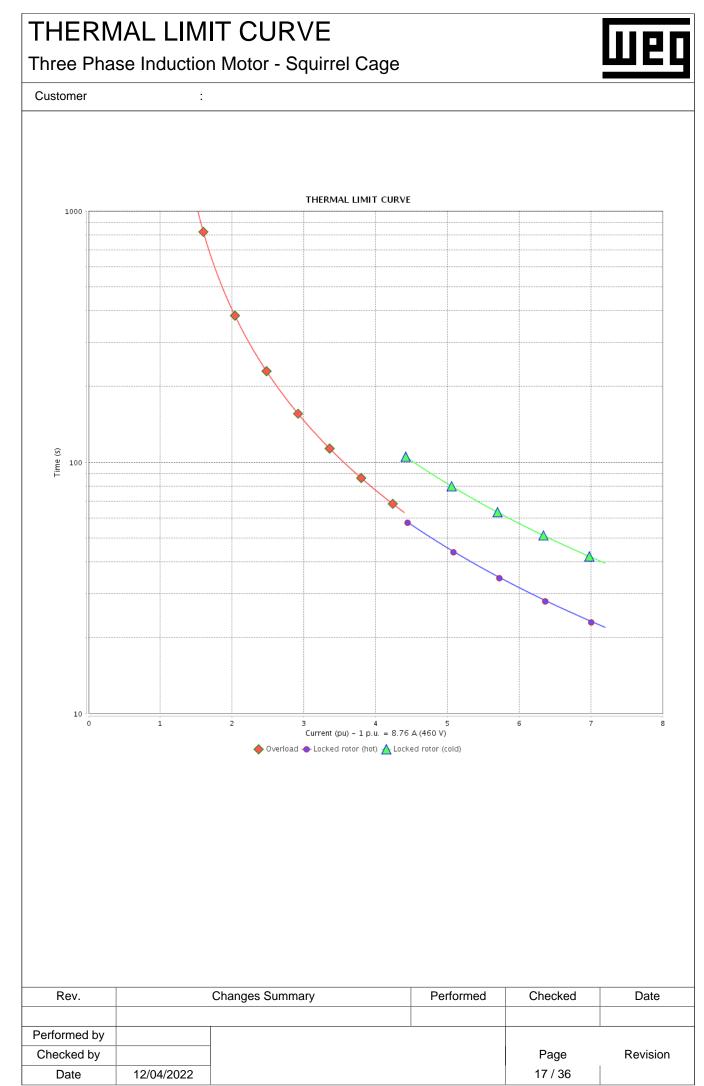
Customer



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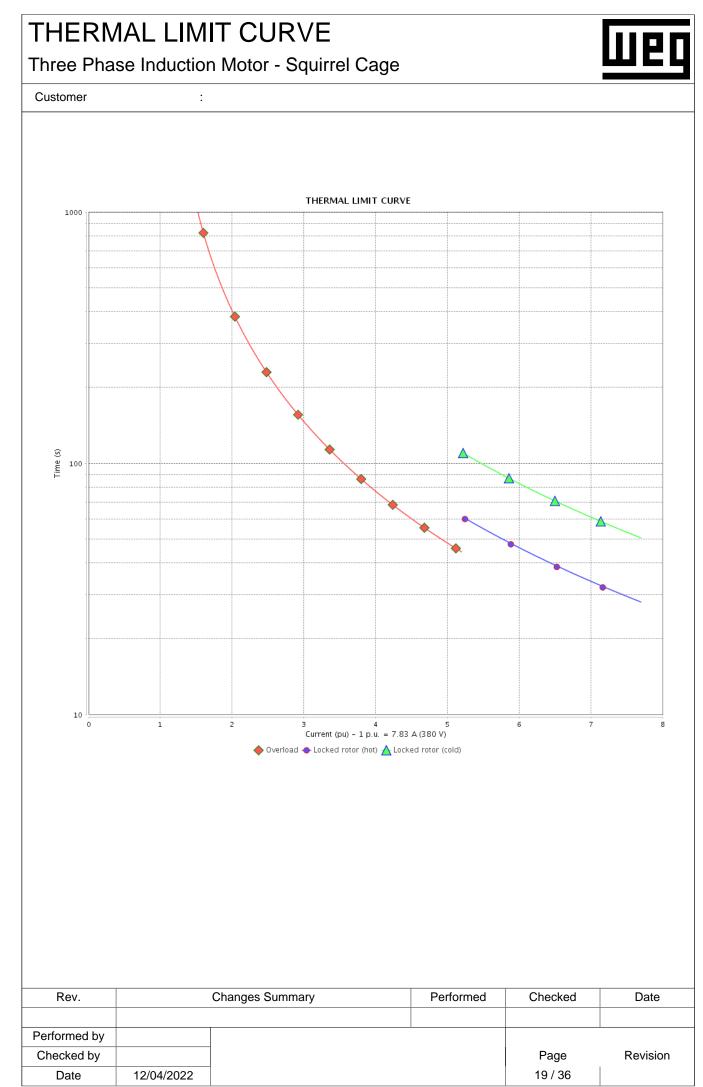
THERMAL LIMIT CURVE							
Three Phase Ind	uction Motor - Squirrel Cage)	шсч				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332				
		Catalog # :	00736ET3ER213TC-W22				

Performance	: :	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	jue :	17.5/8.76 A 7.2 11.2 ft.lb 210 % 300 % 3520 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant	t					
Cooling constant	t					
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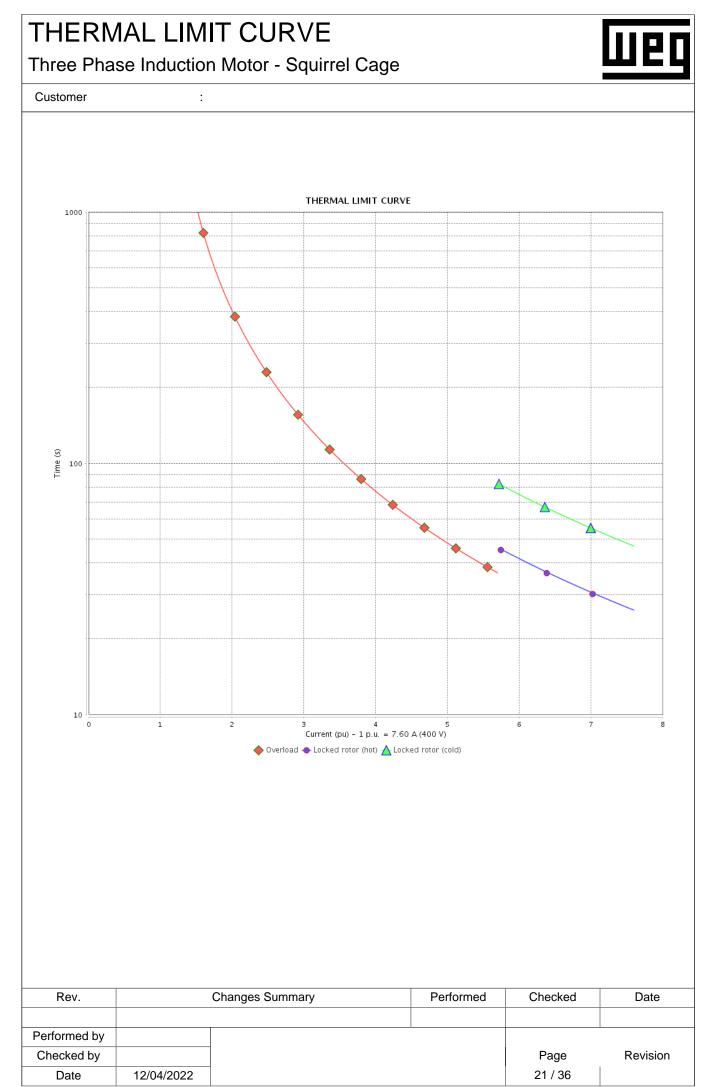
THERMAL LIMIT CURVE						
Three Phase In	duction Motor - Squirrel Cage)				
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332			
		Catalog # :	00736ET3ER213TC-W22			

Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 9 jue : 2 ie : 3	.83 A .7 .86 ft.lb 20 % 10 % 930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
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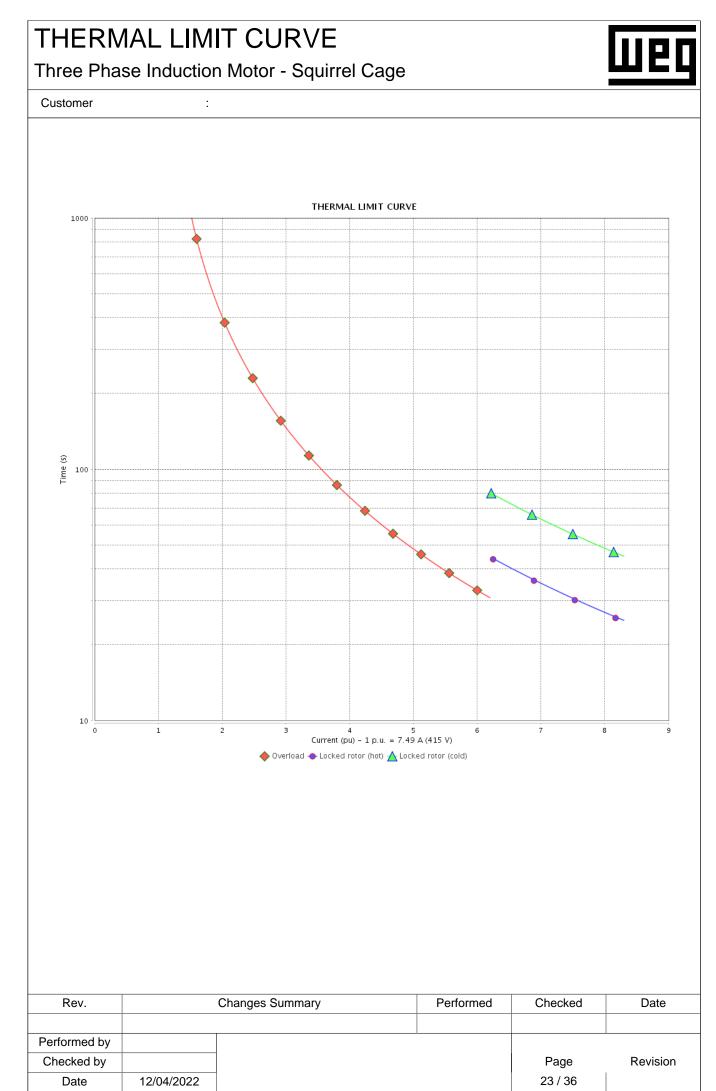
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Three Phase Induc	tion Motor - Squirrel Cage	:	шсц				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332				
		Catalog # :	00736ET3ER213TC-W22				

Performance	:	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	jue : ie :	7.60 A 7.6 9.82 ft.lb 250 % 350 % 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant	[
Cooling constant						
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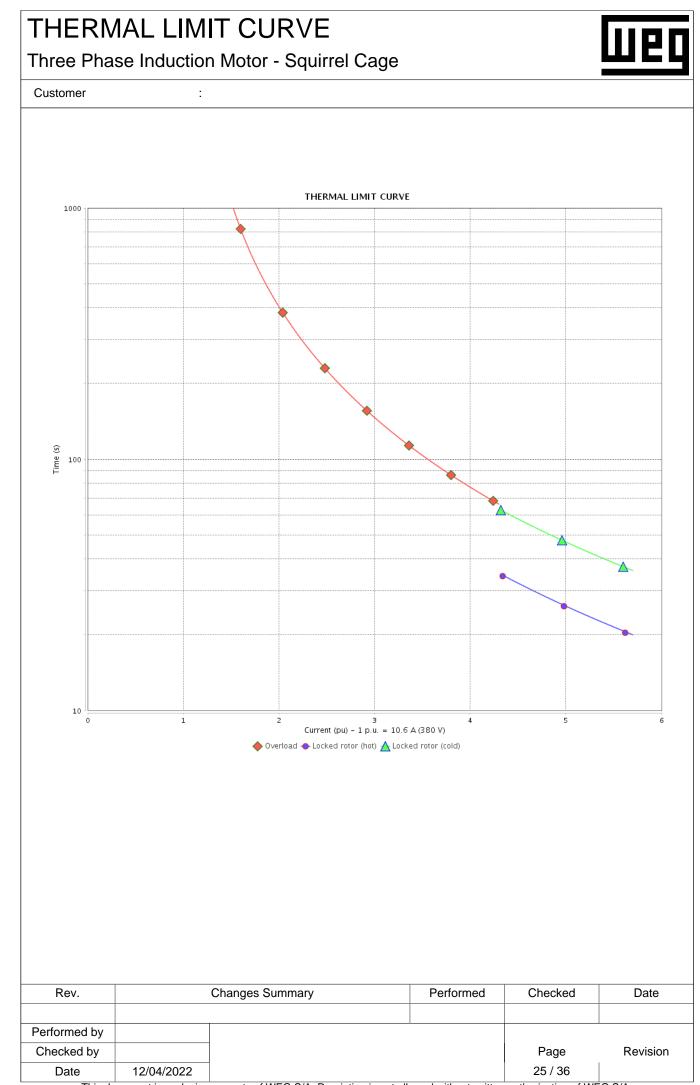
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Three Phase Indu	ction Motor - Squirrel Cage)	шсч				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332				
Thuse		Catalog # :	00736ET3ER213TC-W22				

Performance	:	415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que :	7.49 A 8.3 9.81 ft.lb 270 % 370 % 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant	t					
Cooling constant	t					
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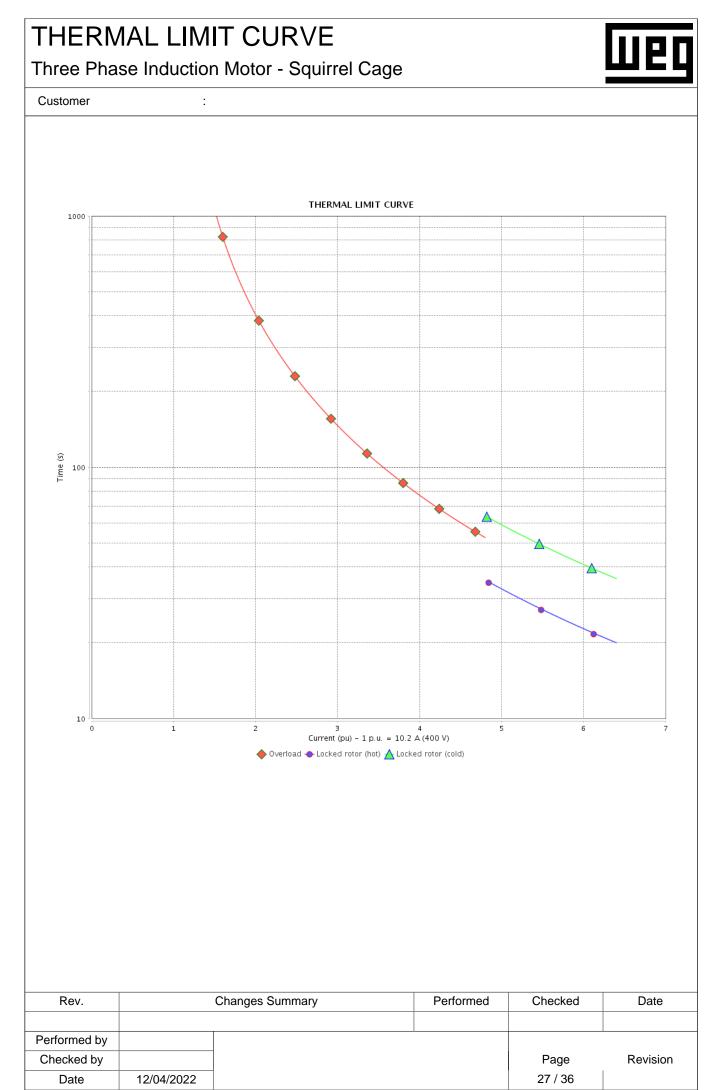
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Three Phase Induc	tion Motor - Squirrel Cage	•	шсч				
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332				
	11000	Catalog # :	00736ET3ER213TC-W22				

Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 10.6 A : 5.7 : 13.6 ft.lb : 170 % : 229 % : 2895 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constant						
Cooling constant						
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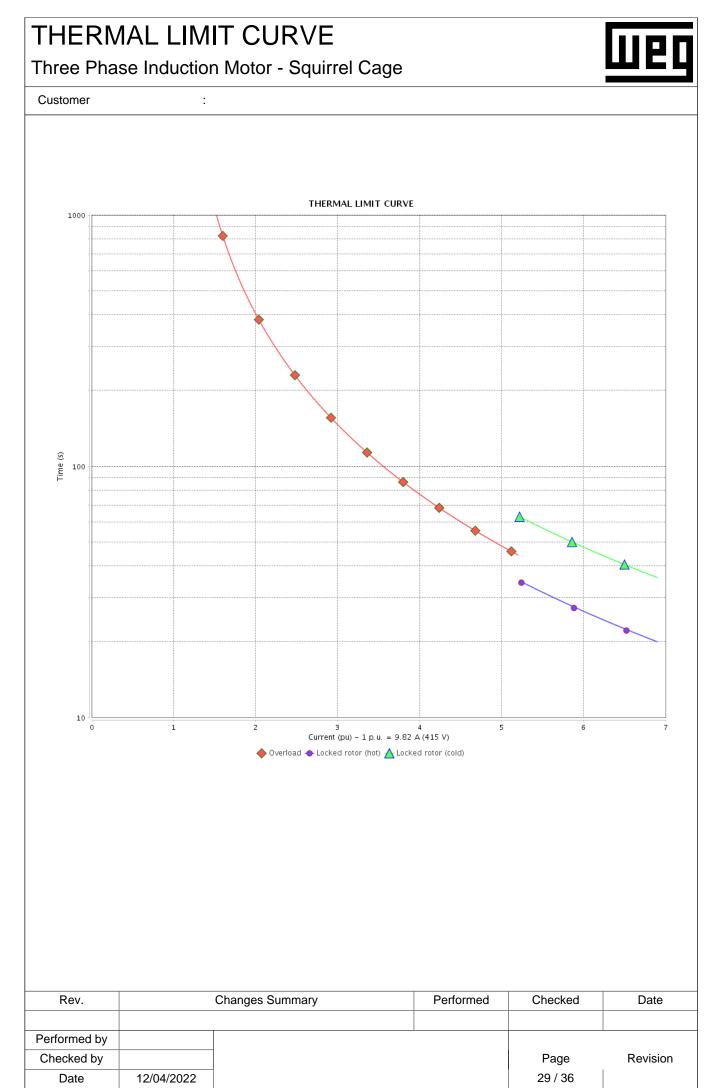
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Three Phase In	duction Motor - Squirrel Cage	9					
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332				
		Catalog # :	00736ET3ER213TC-W22				

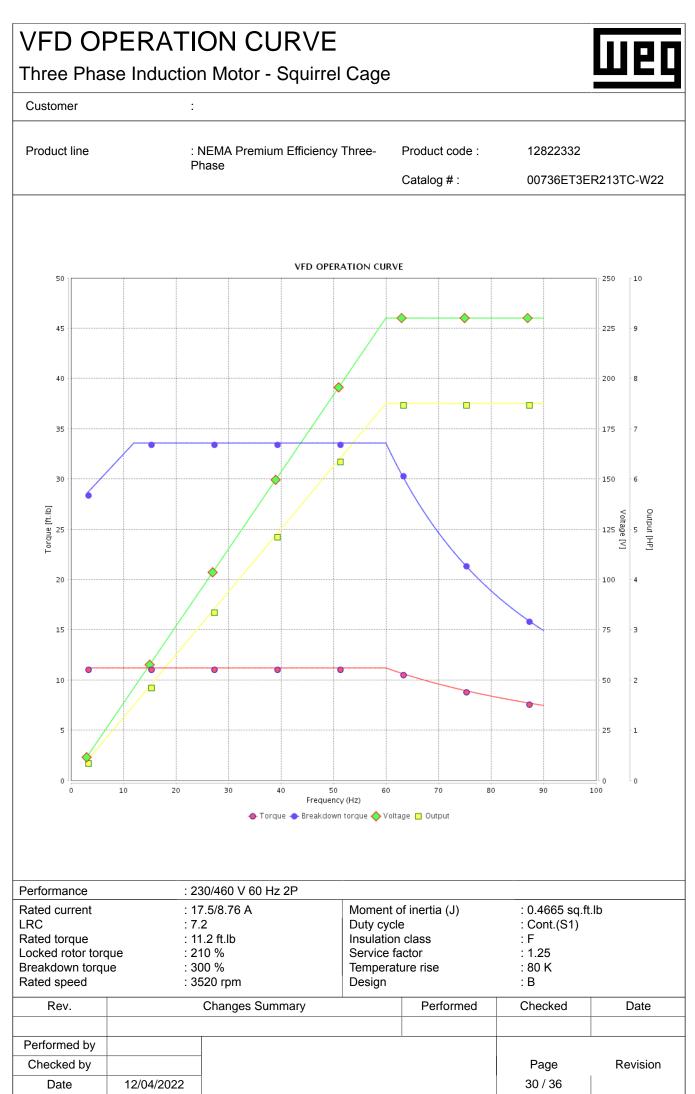
Performance	:	400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		10.2 A 6.4 13.6 ft.lb 190 % 260 % 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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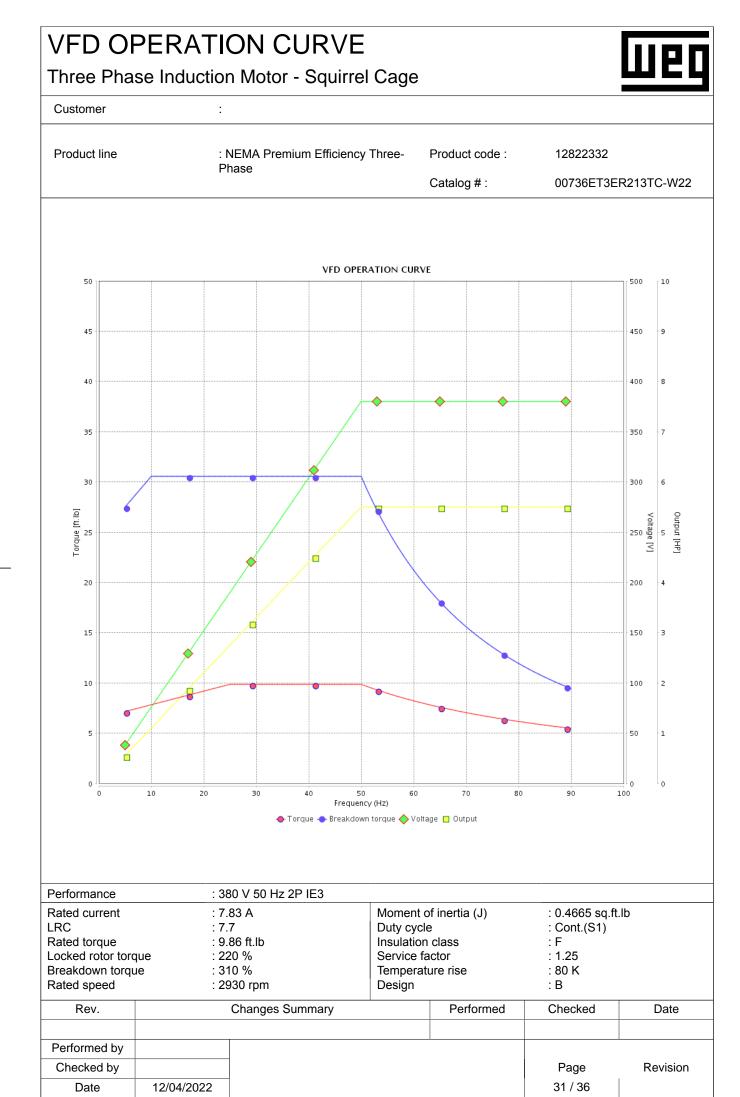


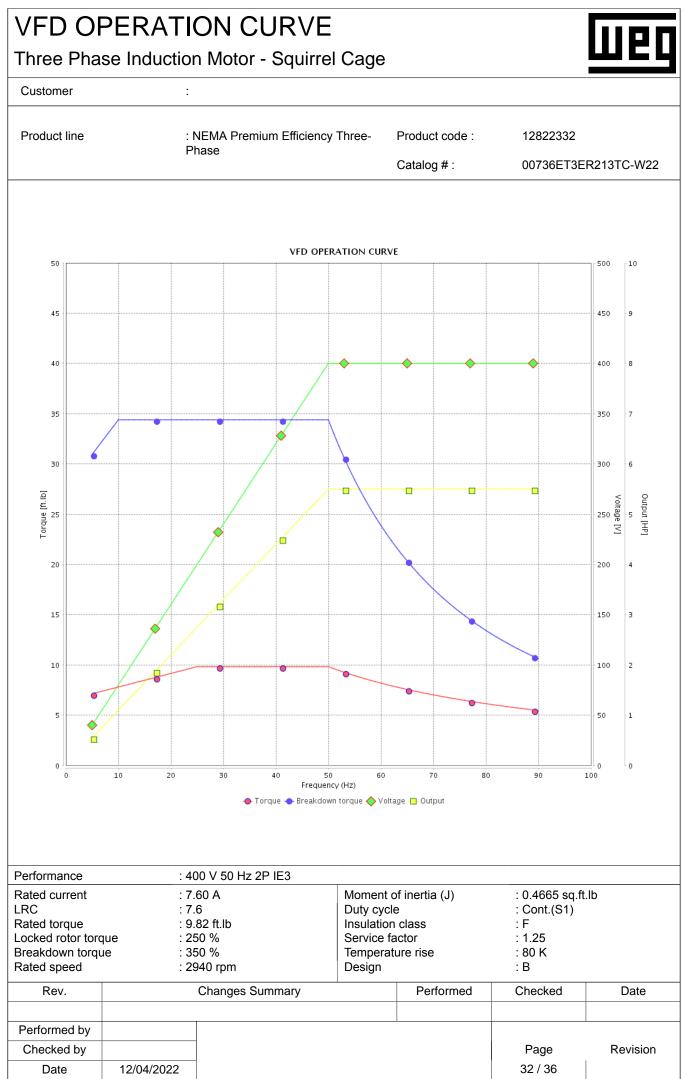
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Customer	:				
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12822332		
		Catalog # :	00736ET3ER213TC-W22		

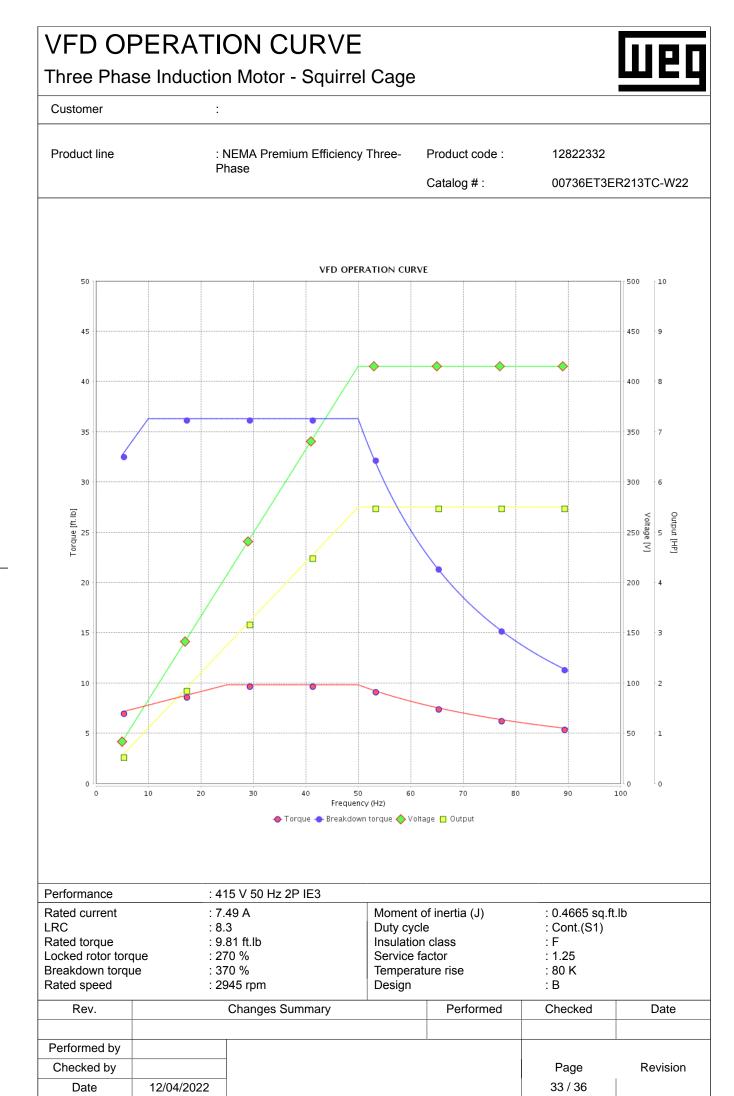
Performance	:	415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		9.82 A 6.9 13.5 ft.lb 210 % 280 % 2915 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4665 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	[
Cooling constant						
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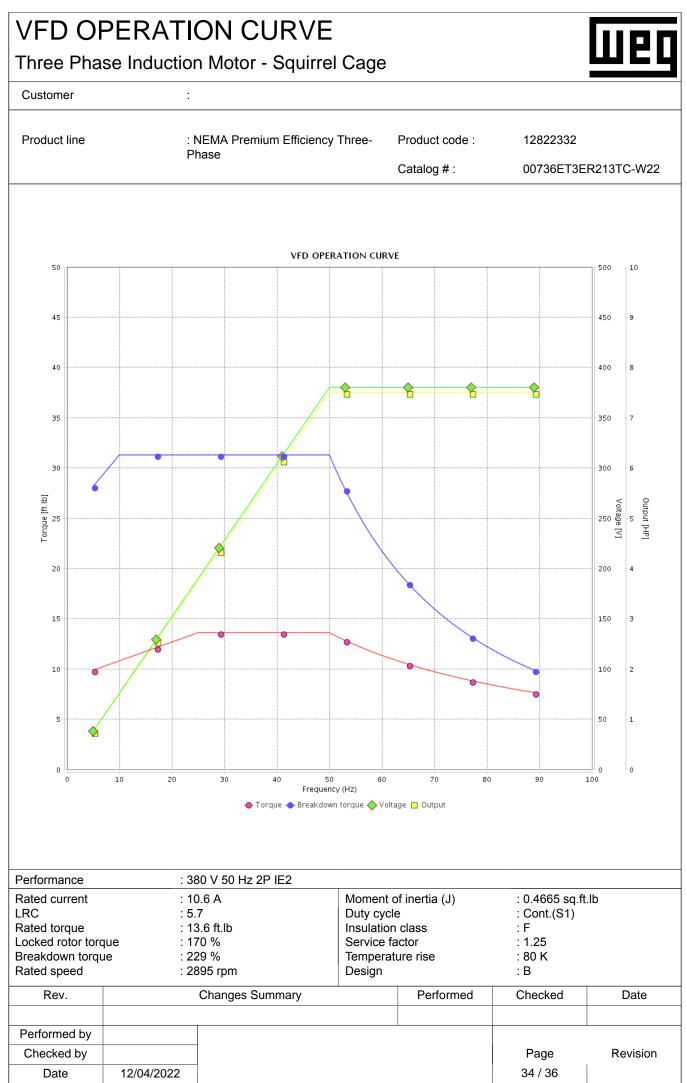


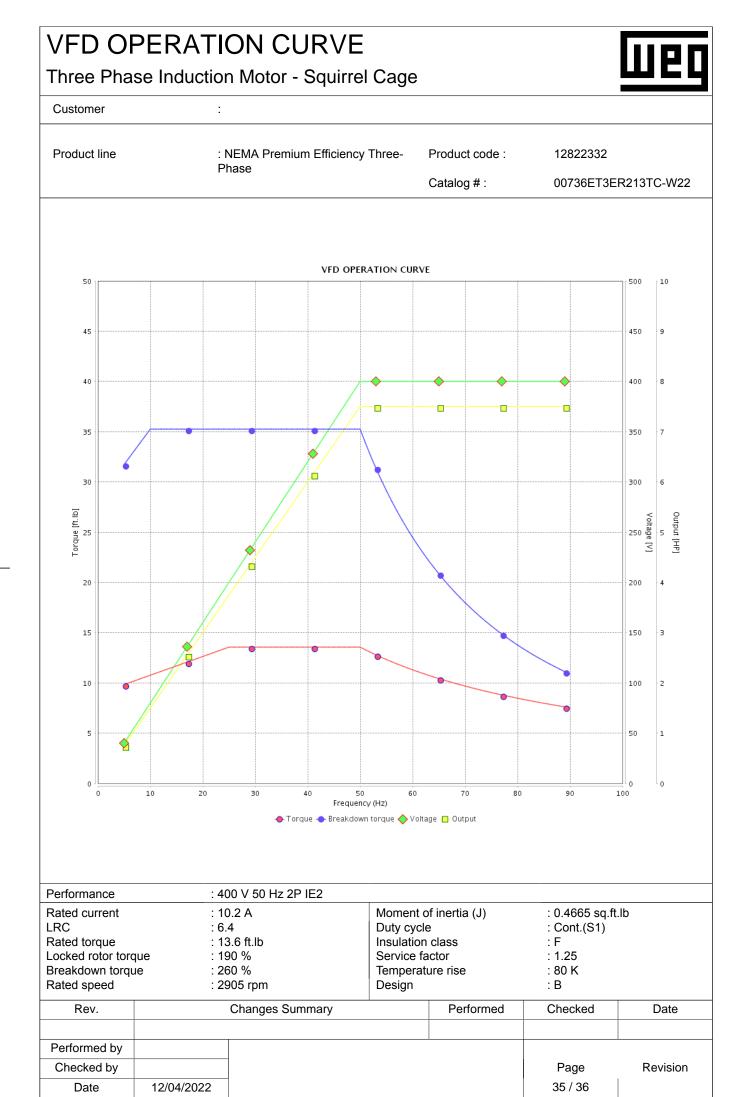


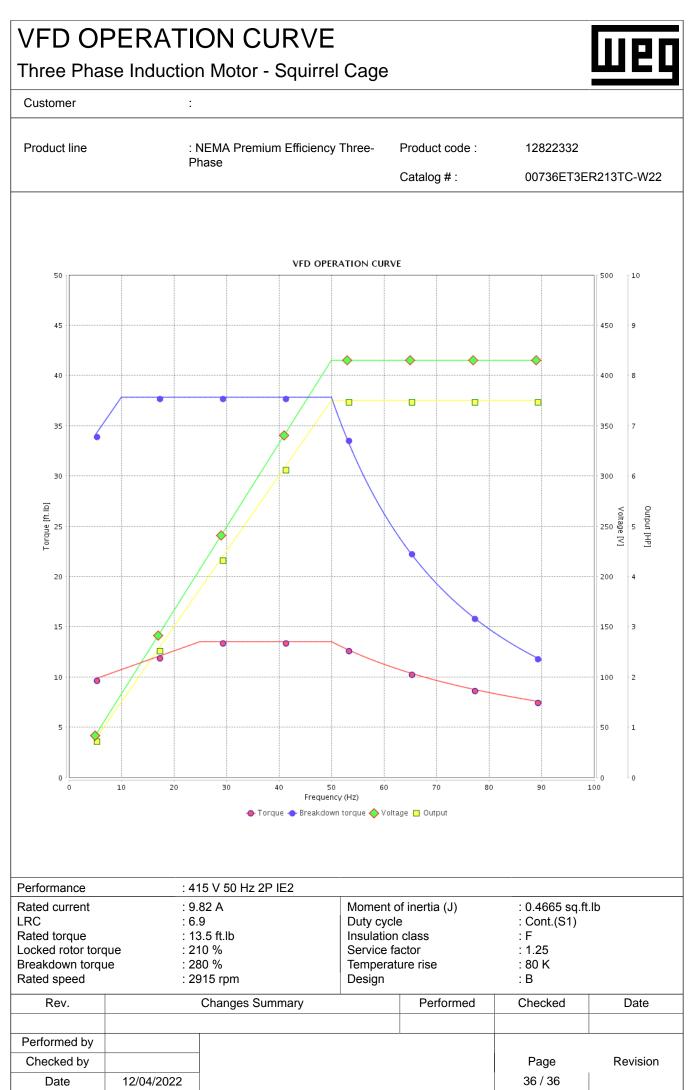


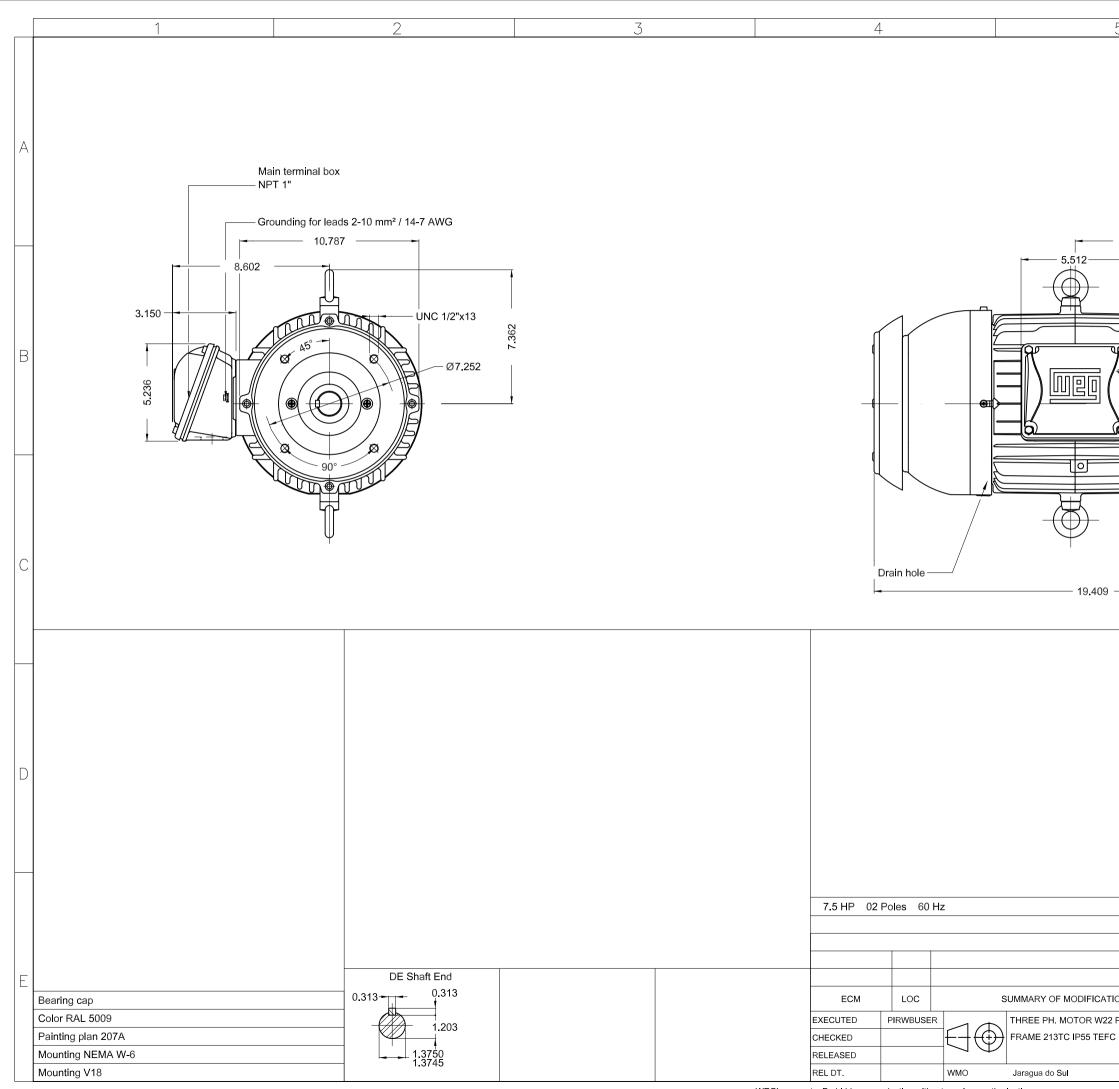












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6.260	0.250	2.480 - 00 3.375 Drain hole	8.858	
				Dimensions in inches
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