DATA SHEET

Three Phase Induction Motor - Squirrel Cage

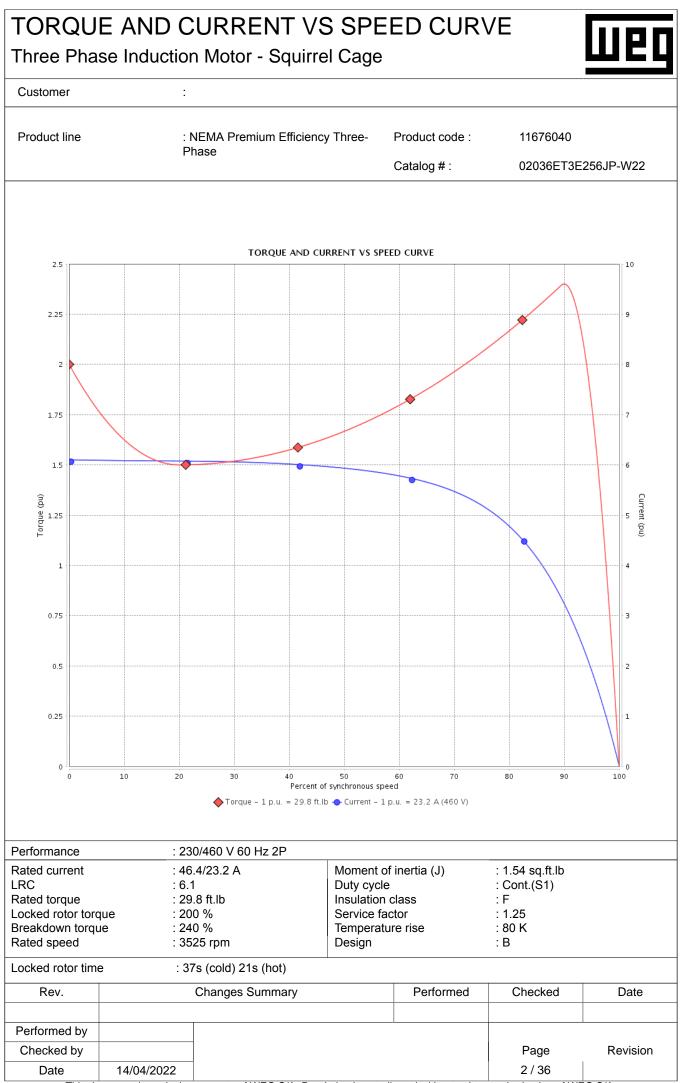
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Customer

Product line : NEMA Premium Efficiency Phase			: NEMA Premium Efficiency Three-			e: 11	11676040	
			Catalog # :		02036ET3E256JP-W22			
Frame Insulation class		: 254/6JP : F		Cooling Mounti	g method ng		C411 - TEFC -1	
Duty cycle		: Cont.(S1)		Rotatic			Both (CW and	CCW)
Ambient tempera	ature	: -20°C to +			g method		Direct On Line	
Altitude		: 1000 m.a.s	s.l.		. weight ³		606 lb	
Protection degre	e	: IP55 : B		Momer	nt of inertia (J)	:1	.54 sq.ft.lb	
Design								
Dutput [HP]		20	15	15	15	20	20	20
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]		46.4/23.2	20.4	19.6	19.1	28.9	27.2	26.2
. R. Amperes [A]		283/142	141	151 7 7x(Codo LI)	155 8 1x(Codo, I)	147 5 1x(Codo E)	155 5 7x(Codo E)	160
_RC [A]		6.1x(Code	,	r.rx(Code H)	o.ix(Code J)	p. Tx(Code E)	5.7x(Code F)	· ·
No load current [A	1	G) 13.0/6.50	G) 6.20	6.60	6.90	6.20	6.60	G) 6.90
Rated speed [RPI		3525	2935	6.60 2945	6.90 2950	6.20 2885	2905	2915
Slip [%]	vi]	2.08	2935	2945 1.83	2950	3.83	2905 3.17	2915
Slip [%] Rated torque [ft.lb	1	2.08	2.17	26.8	26.8	3.83	3.17	2.83
_ocked rotor torqu		29.0	20.9	20.0	20.0	160	180	200
Breakdown torque		200	220	240	310	190	210	200
Service factor	• [/v]	1.25	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
_ocked rotor time		37s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)	28s (cold)
		21s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)	16s (hot)
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A
	25%	91.4	90.2	90.2	89.5	93.3	92.1	92.2
	50%	91.0	90.6	90.4	89.8	91.0	91.0	91.0
Efficiency (%)	75%	91.7	90.9	91.2	91.1	90.2	91.0	91.0
	100%	91.0	91.2	91.2	91.2	87.5	89.5	89.5
	25%	0.57	0.54	0.50	0.48	0.63	0.60	0.57
	50%	0.82	0.78	0.75	0.73	0.86	0.84	0.82
Power Factor	75%	0.87	0.87	0.85	0.84	0.89	0.88	0.87
	100%	0.89	0.90	0.89	0.88	0.90	0.89	0.89
	1	Drive end	Non drive	end Founda	tion loads			
Bearing type		: 6309 C3				· 24	44 lb	
Sealing		: V'Ring	V'Rin		mpression		50 lb	
Lubrication inter	val	: 19000 h			1		-	
Lubricant amour		: 13 g	9 g					
Lubricant type			I Polyrex EM					
Notes								
USABLE @208V	′ 51.3A SF 1.	15 SFA 59.0A						
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	aces and car ed. notor from the 1m and with t weight subject ocess.	ncel the previo e shaft end. tolerance of +3	us one, which dB(A).				on tests with si nces stipulated	
This revision repl must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate manufacturing pr (4) At 100% of fu	aces and car ed. notor from the 1m and with t weight subject ocess.	ncel the previo e shaft end. tolerance of +3 ct to changes a	us one, which dB(A). after	power s	supply, subject	to the tolera	nces stipulated	
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr	aces and car ed. notor from the 1m and with t weight subject ocess.	ncel the previo e shaft end. tolerance of +3 ct to changes a	us one, which dB(A).	power s		to the tolera		d in NEMA
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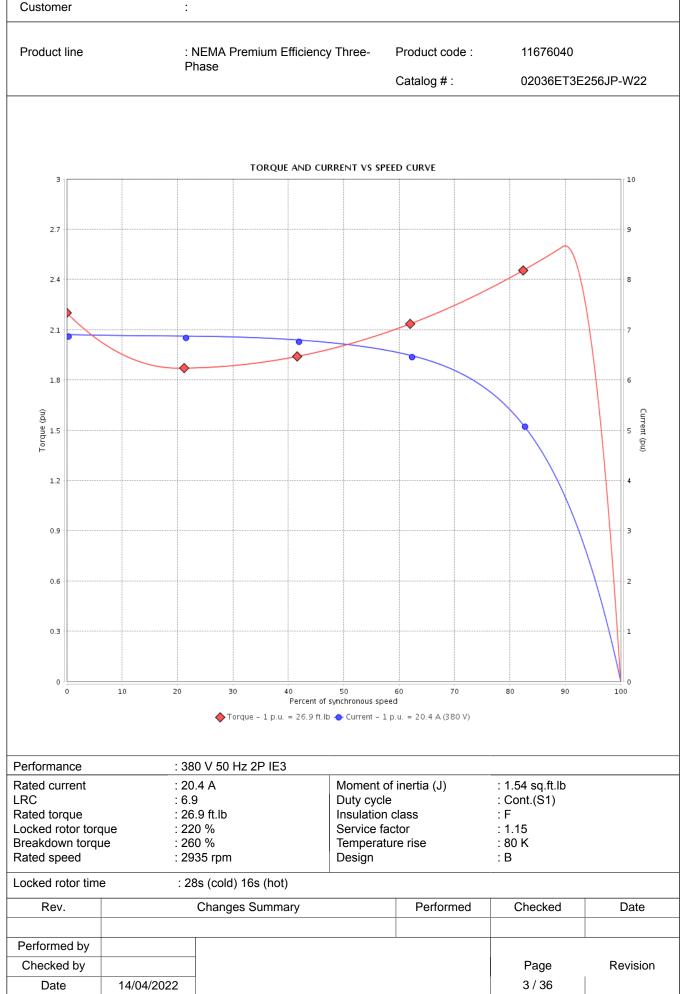
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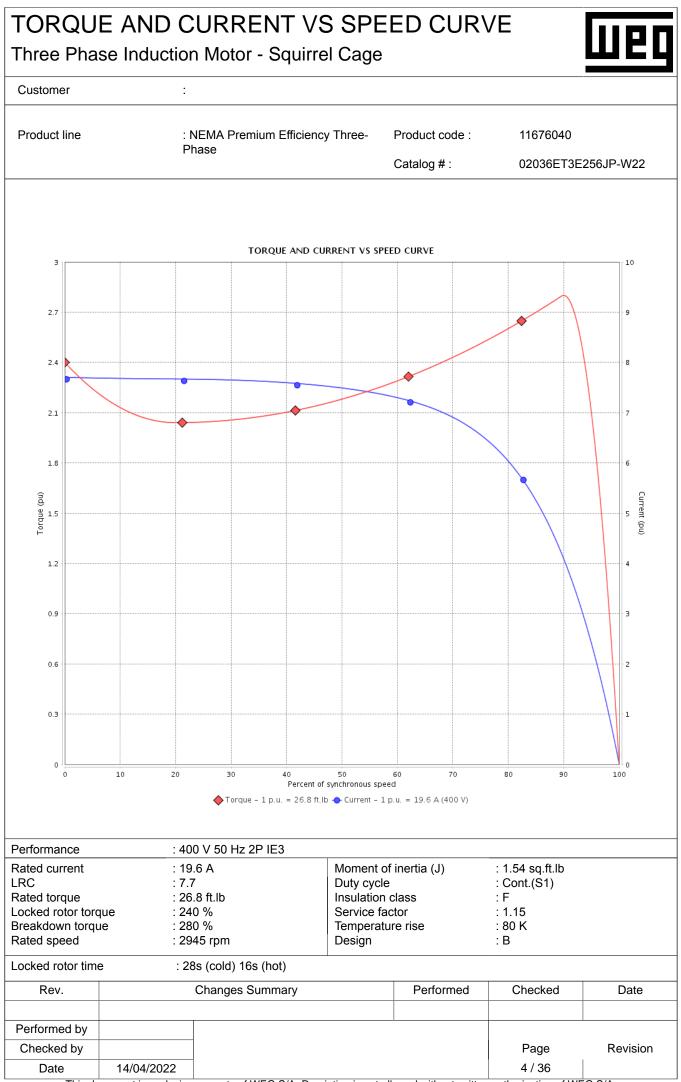
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





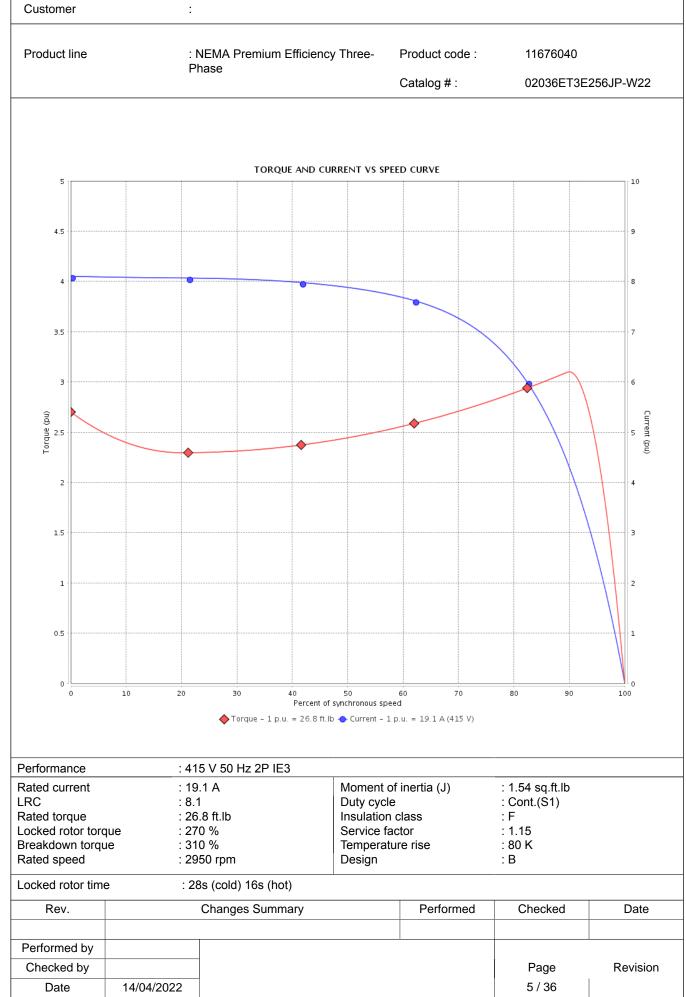
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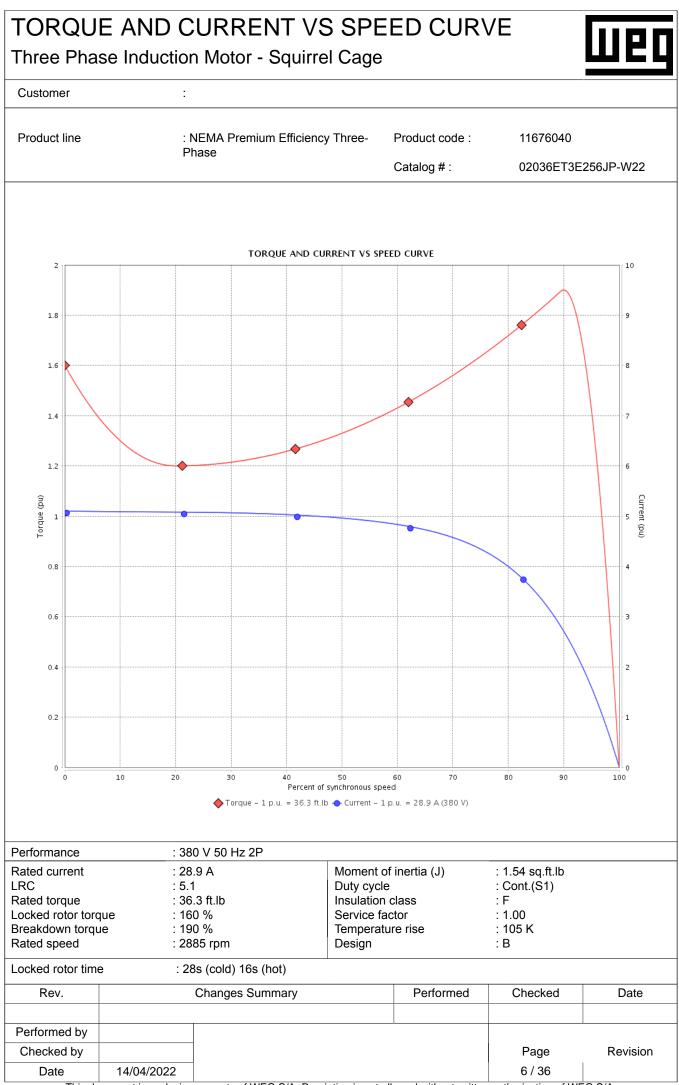
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



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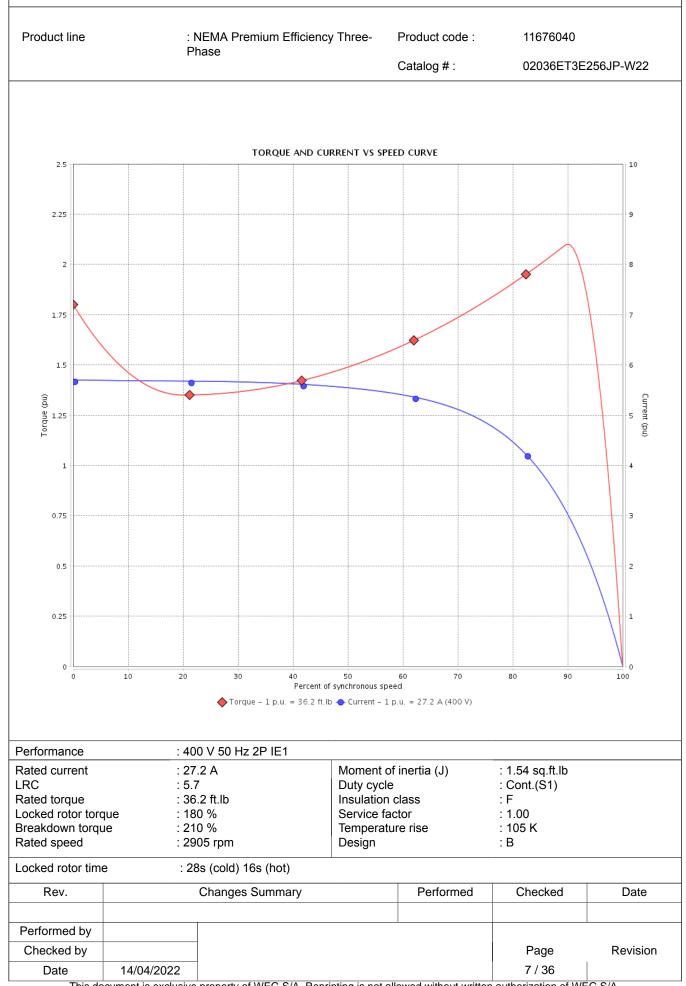
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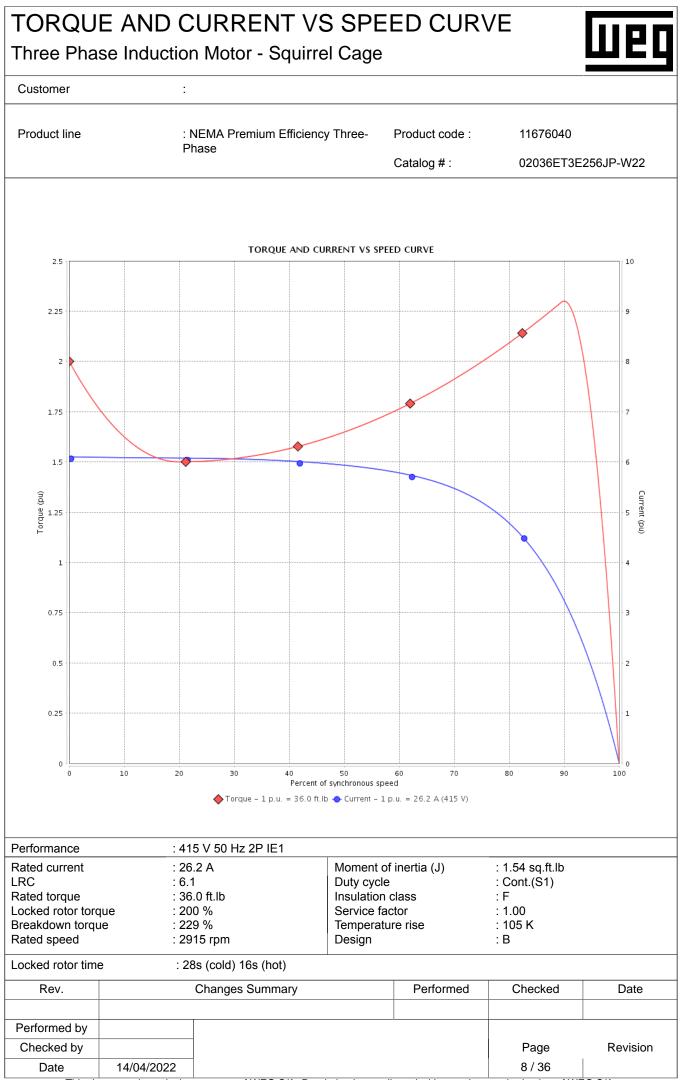
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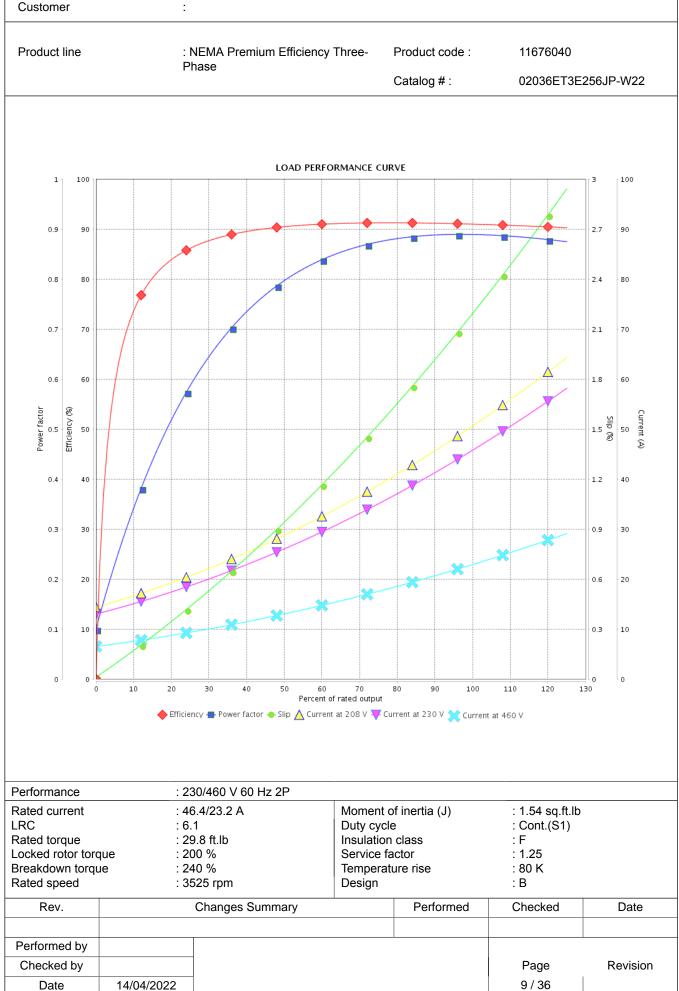
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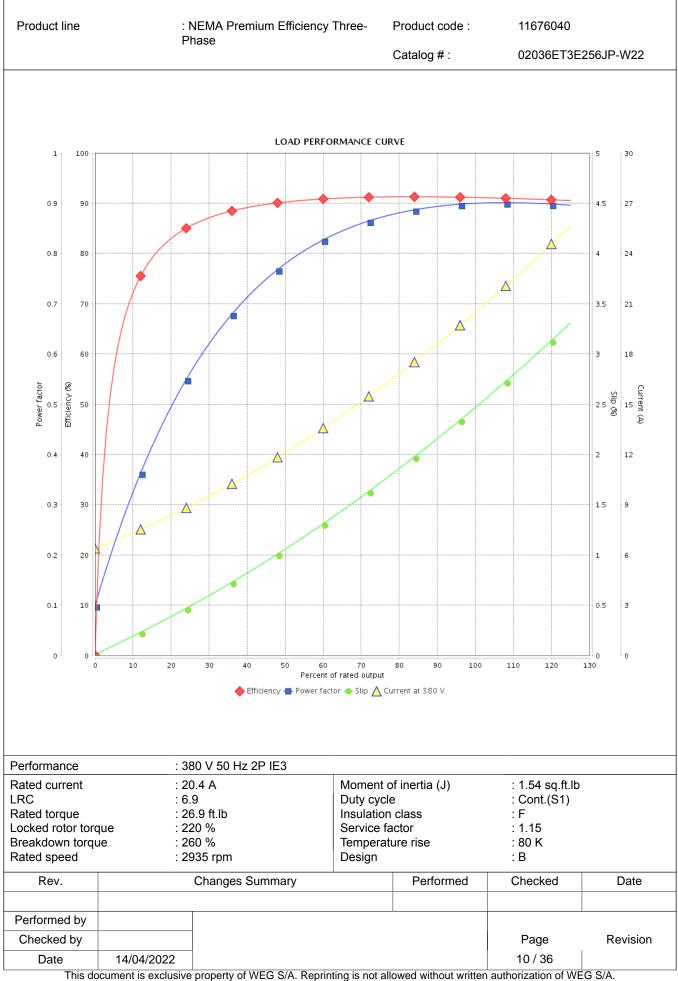
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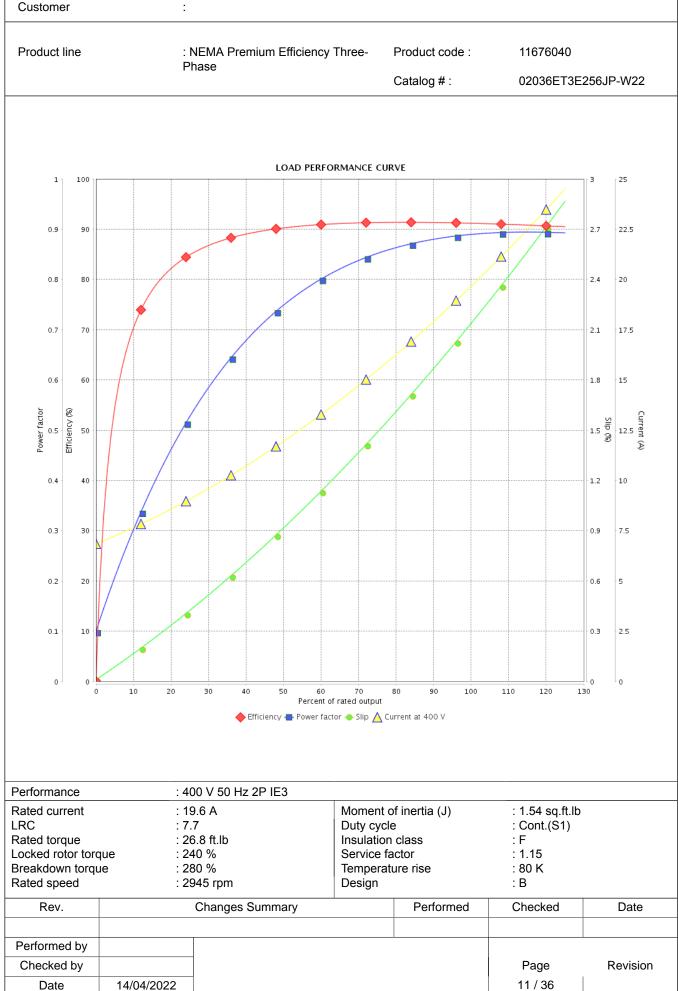


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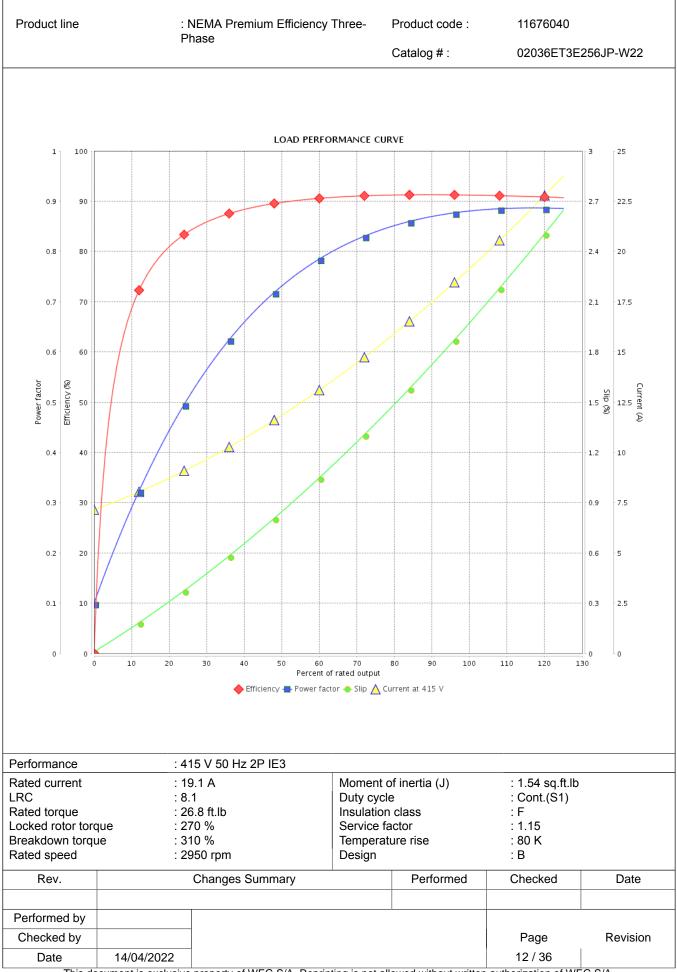
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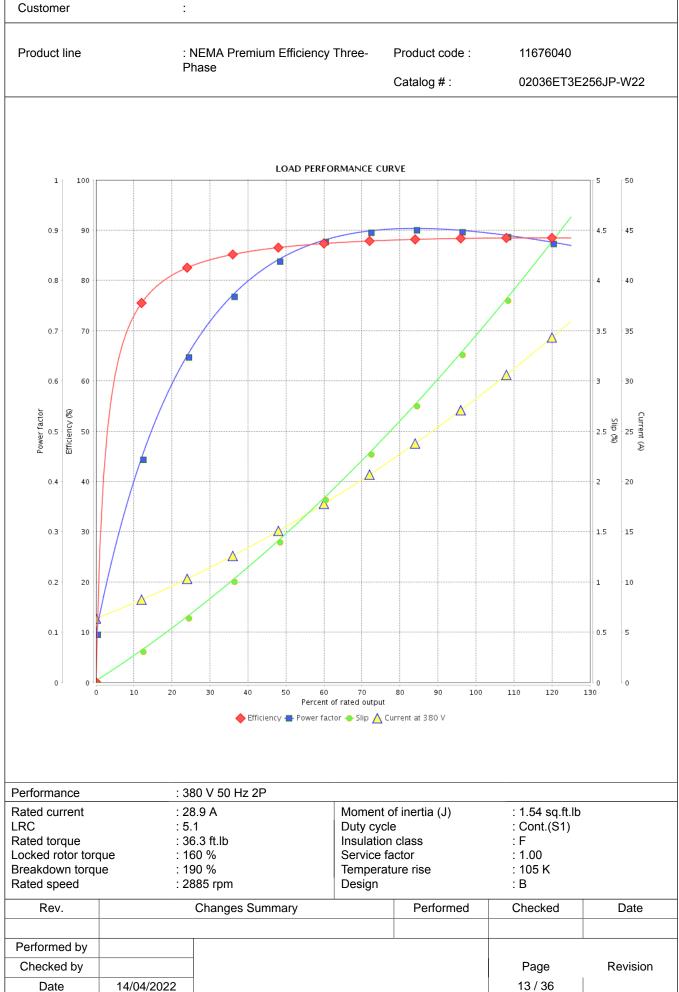


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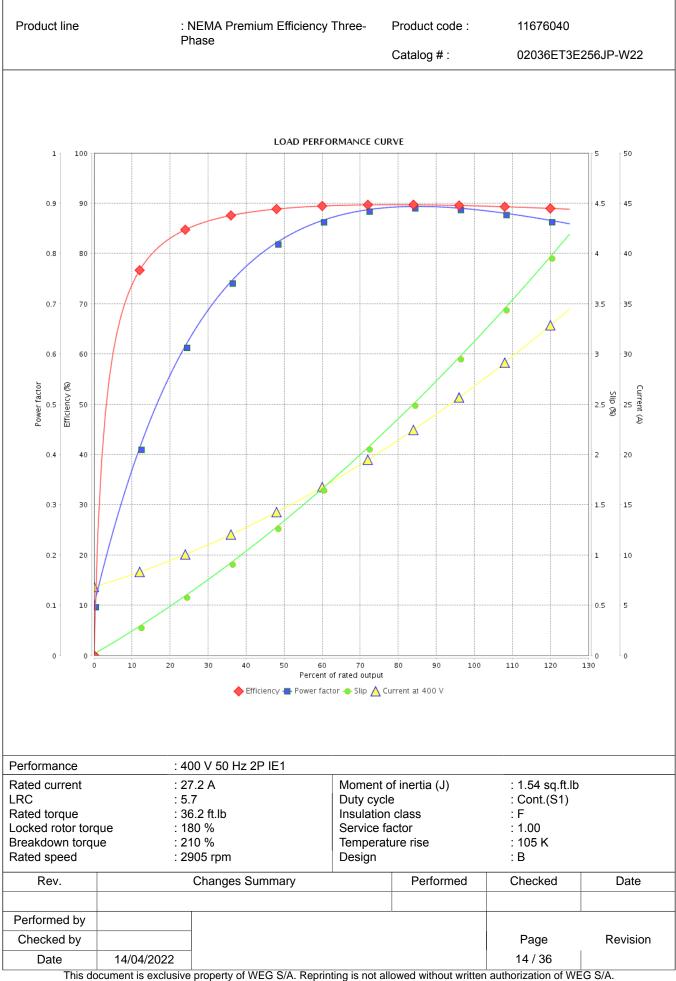
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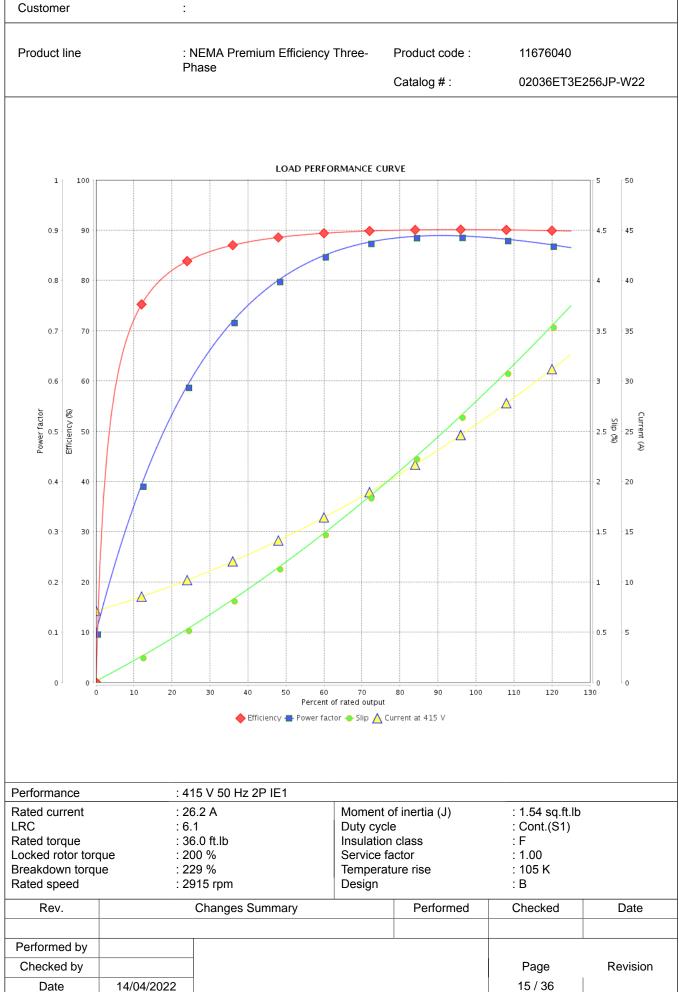


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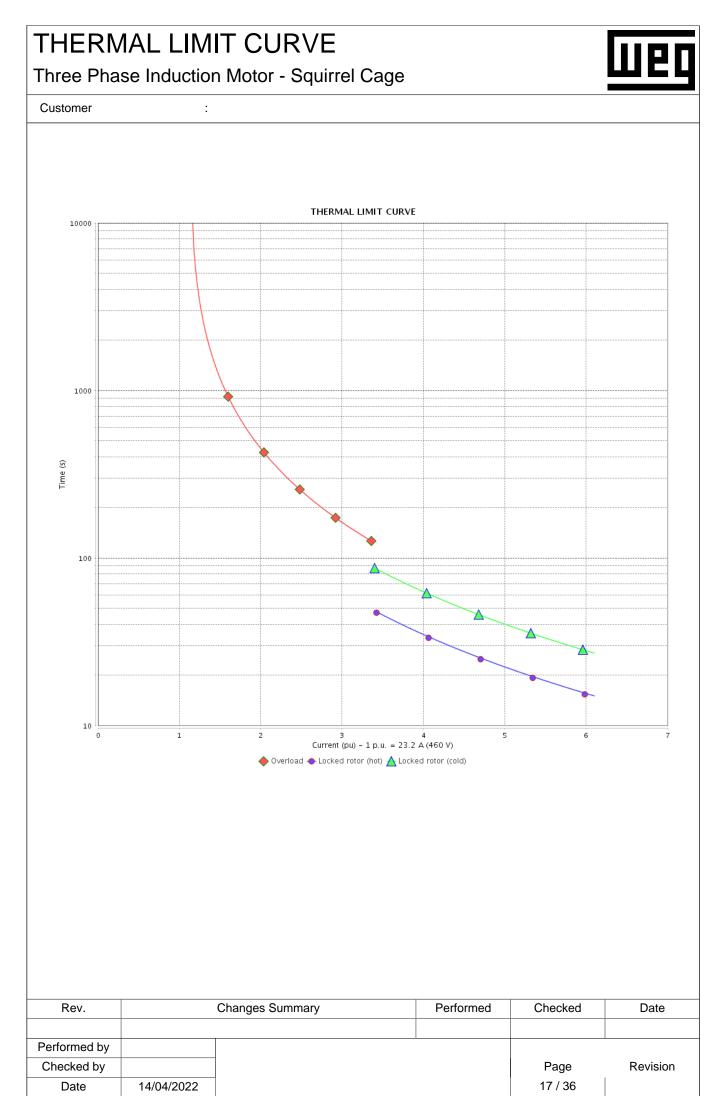
THERMAL LIMIT CURVE							
Three Phase Induction Motor - Squirrel Cage							
Customer		:					
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11676040		
				Catalog # :	02036ET3E	256JP-W22	
Performance		230/460 V 60 Hz 2P		.			
Rated current LRC		46.4/23.2 A 6.1	Moment of Duty cycle	of inertia (J) e	: 1.54 sq.ft.lb : Cont.(S1)		
Rated torque		29.8 ft.lb	Insulation	class	: F		
Locked rotor toro Breakdown torqu		200 % 240 %	Service fa Temperat		: 1.25 : 80 K		
Rated speed		3525 rpm	Design		: B		
Heating constant							
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date	
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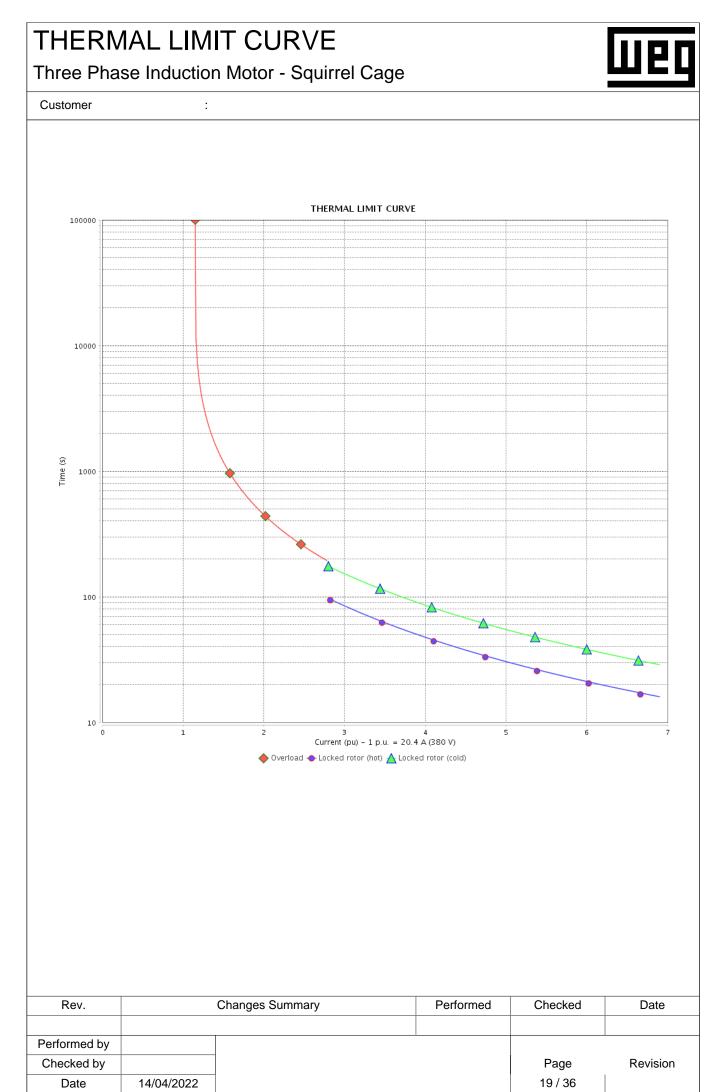
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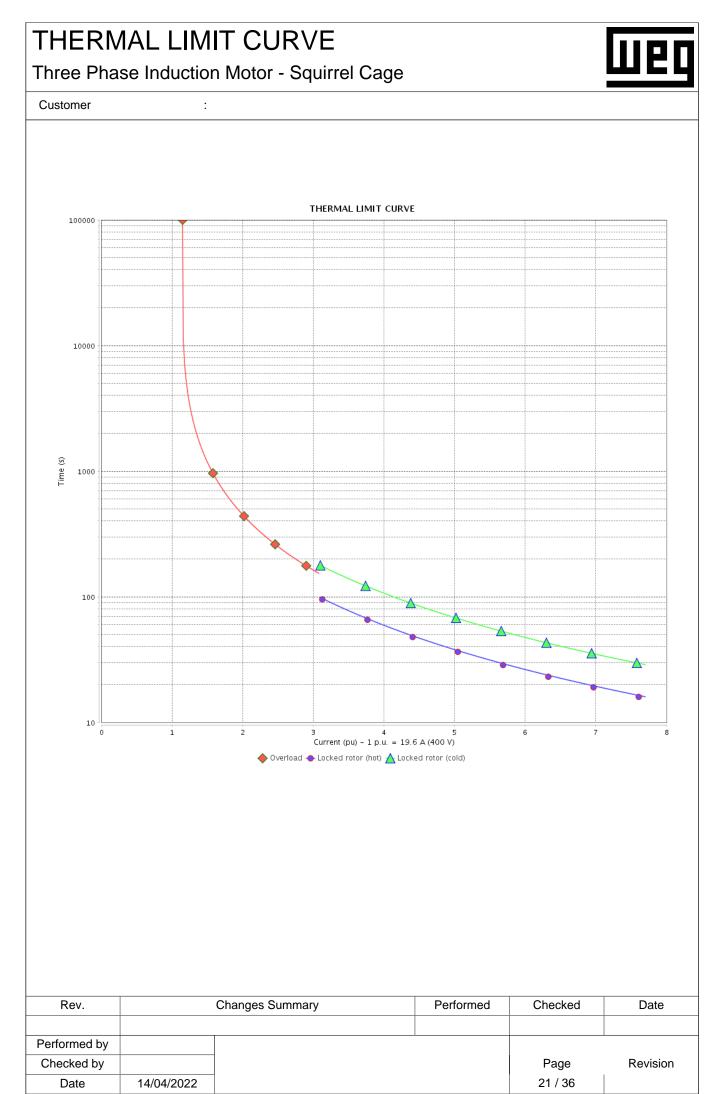
THERMAL LIMIT CURVE						
Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11676040 02036ET3E2	56.IP-W22
Performance Rated current		80 V 50 Hz 2P IE3 0.4 A	Moment o	of inertia (J)	: 1.54 sq.ft.lb	
LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 2 que : 2 Je : 2		Duty cycle Insulation Service fa Temperate Design	e class ictor	: T.34 Sq.11.10 : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase	Three-	Product code :	11676040	
				Catalog # :	02036ET3E2	56JP-W22
Performance		00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 2 que : 2 ue : 2	9.6 A .7 6.8 ft.lb 40 % 80 % 945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t			· · · ·		
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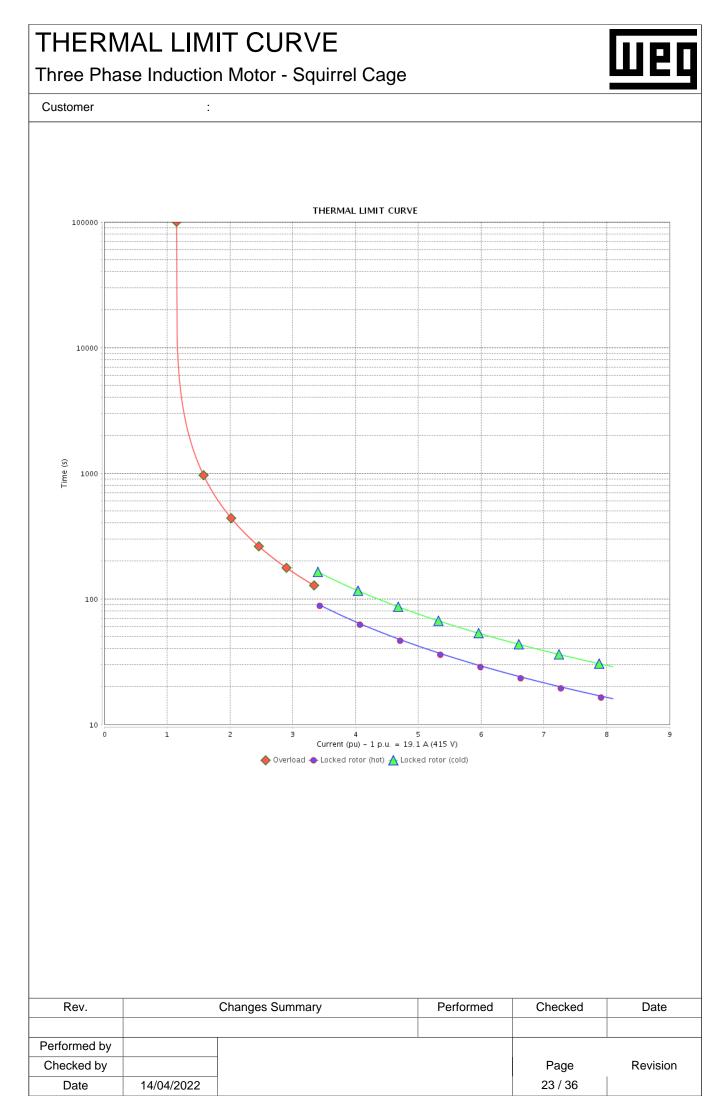


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Three Pha	se Inductio	n Motor - Squirrel	Cage			шсц
Customer	:				-	
Product line		NEMA Premium Efficiency		Product code :	11676040	
				Catalog # :	02036ET3E2	56JP-W22
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 1 : 8 : 2 que : 2 ue : 3	9.1 A	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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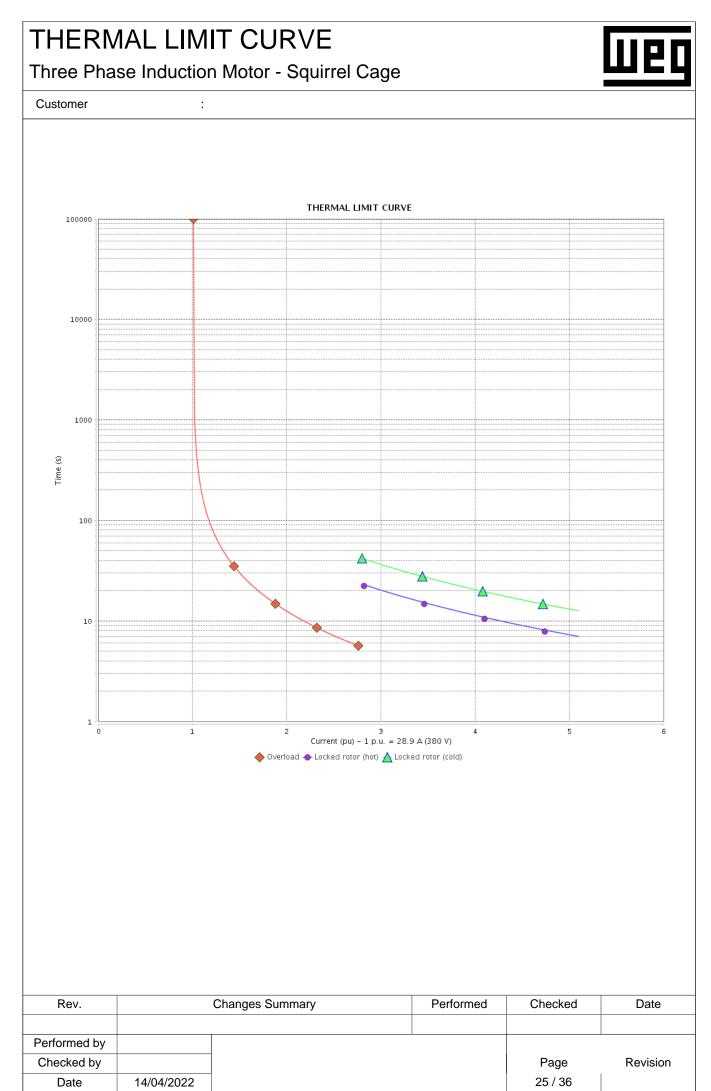


THERMAL LIMIT CURVE							
Three Pha	se Inductio	on Motor - Squirrel	Cage				
Customer	:						
Product line	:	NEMA Premium Efficiency	Three-	Product code :	11676040		
		Phase		Catalog # :	02036ET3E2	56.JP-W22	
Performance		380 V 50 Hz 2P					
Rated current	::	28.9 A		of inertia (J)	: 1.54 sq.ft.lb		
LRC Rated torque		5.1 36.3 ft.lb	Duty cycl Insulatior		: Cont.(S1) : F		
Locked rotor toro Breakdown torqu	que :	160 % 190 %	Service fa Temperat	actor	: 1.00 : 105 K		
Rated speed		2885 rpm	Design		: 105 K : B		
Heating constan	t						
Cooling constant							
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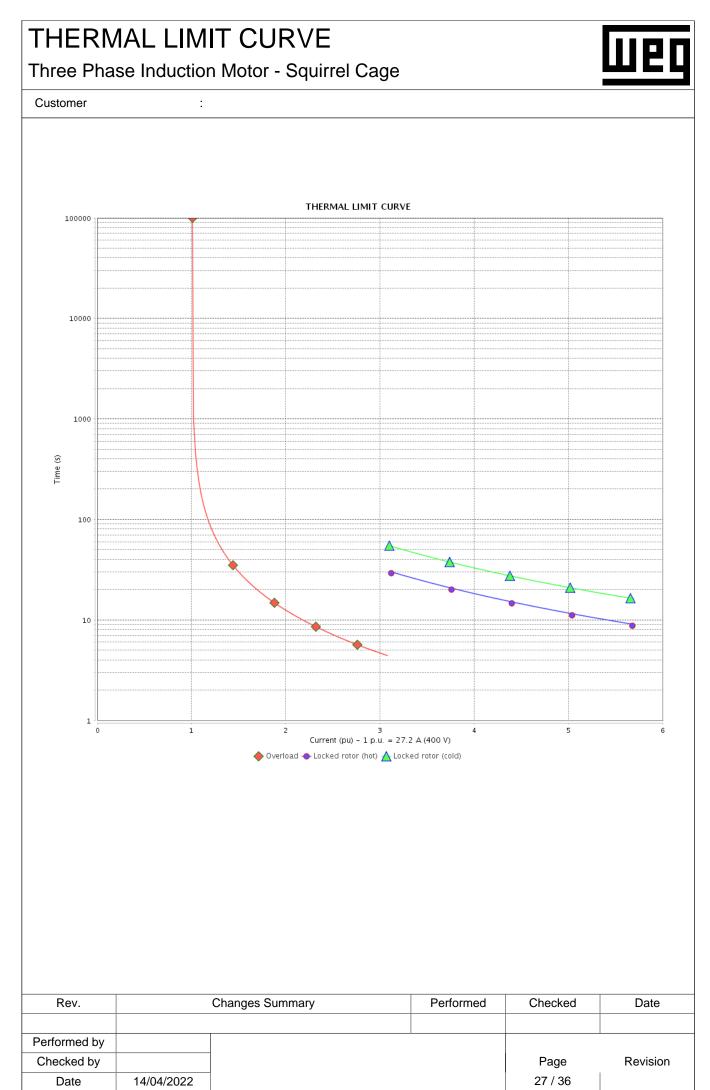


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Three Pha	se Inductic	n Motor - Squirrel	Cage				
Customer	:						
Product line	:	NEMA Premium Efficiency	Three-	Product code :	11676040		
		Phase		Catalog # :	02036ET3E2	56JP-W22	
Performance		400 V 50 Hz 2P IE1					
Rated current	: 2	27.2 A	Moment of	of inertia (J)	: 1.54 sq.ft.lb		
LRC Rated torque	: 3	5.7 36.2 ft.lb	Duty cycle	class	: Cont.(S1) : F		
Locked rotor toro Breakdown torqu		180 % 210 %	Service fa Temperat		: 1.00 : 105 K		
Rated speed	:2	2905 rpm	Design		: B		
Heating constan							
Cooling constant Rev.		Changes Summary		Performed	Checked	Date	
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THERMAL LIMIT CURVE								
Three Pha	Three Phase Induction Motor - Squirrel Cage							
Customer	:							
Product line		NEMA Premium Efficiency T	Three-	Product code :	11676040			
				Catalog # :	02036ET3E2	256JP-W22		
Performance	: 47	15 V 50 Hz 2P IE1						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 36 que : 20 ue : 22	6.2 A 1 5.0 ft.lb 00 % 29 % 915 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
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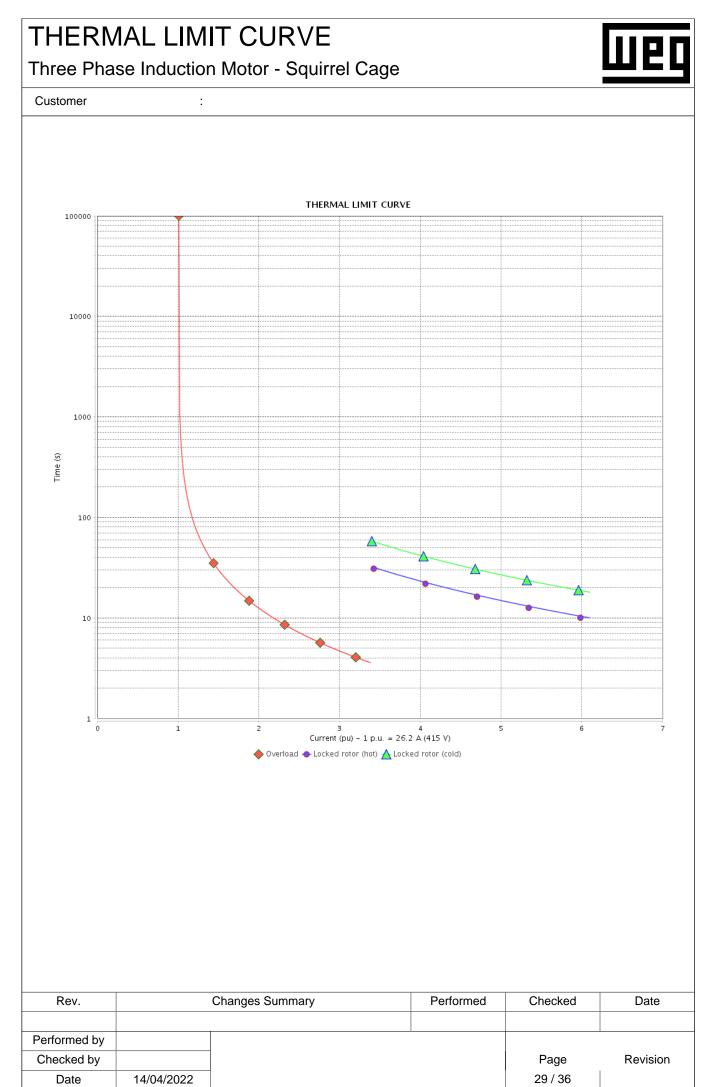
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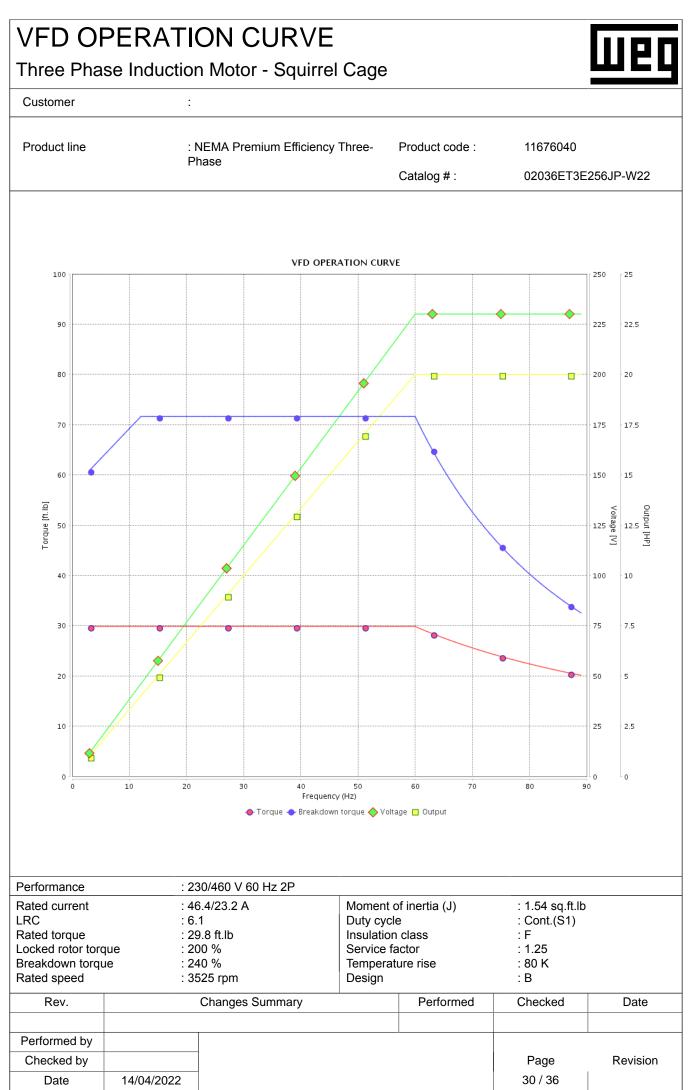
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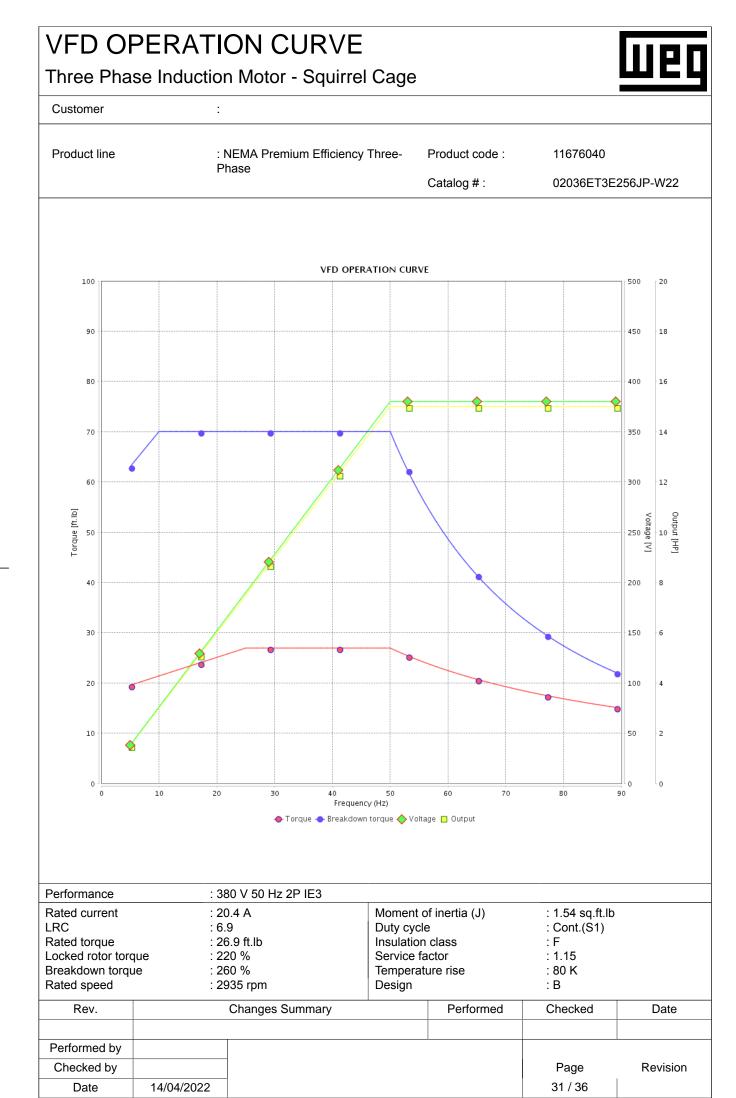
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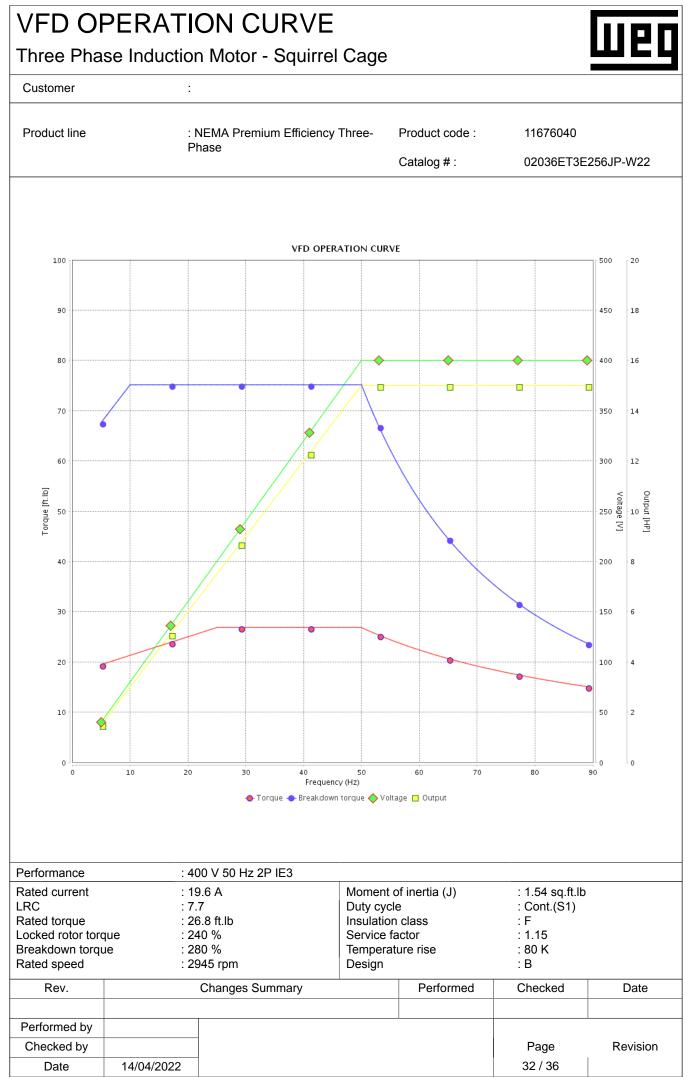
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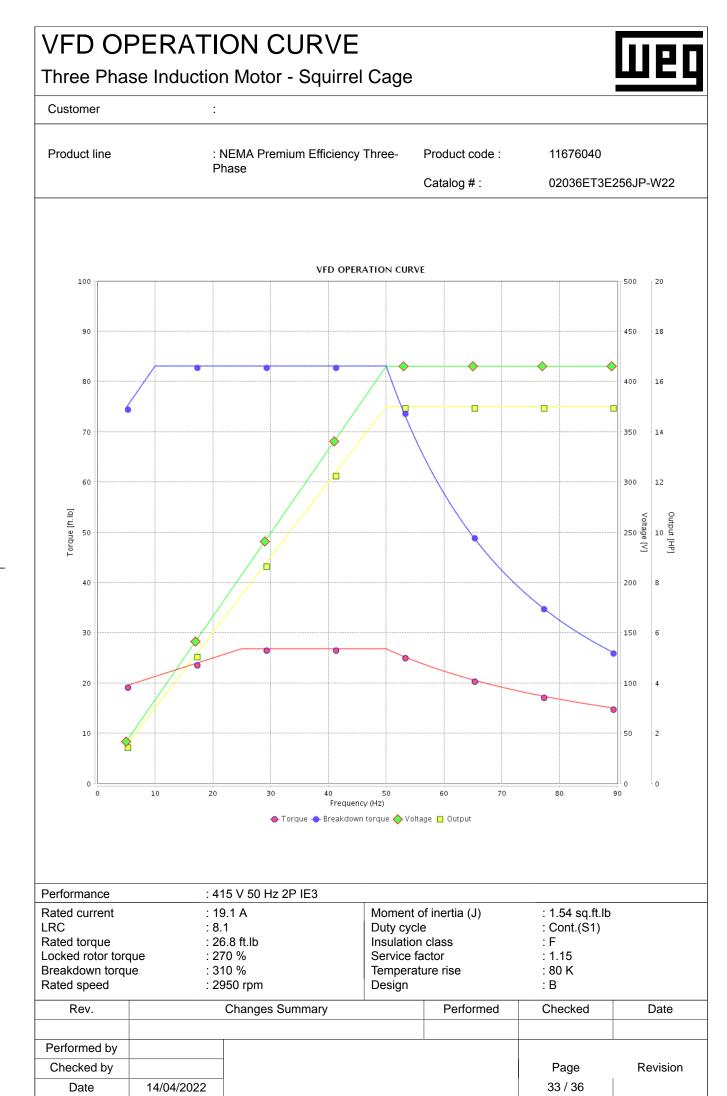
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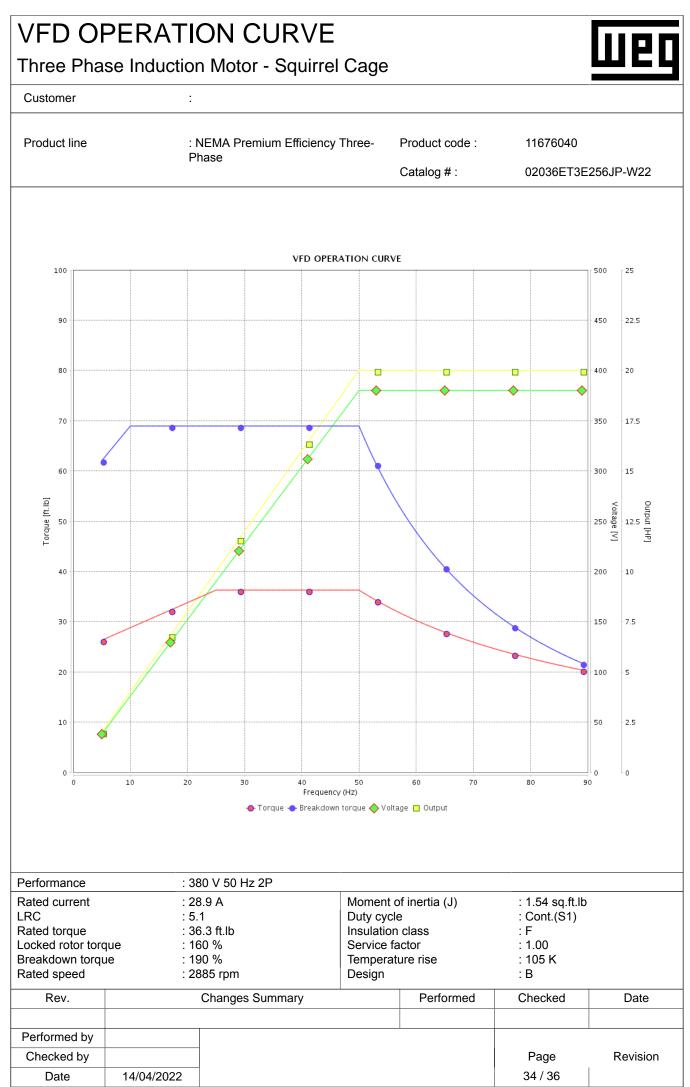


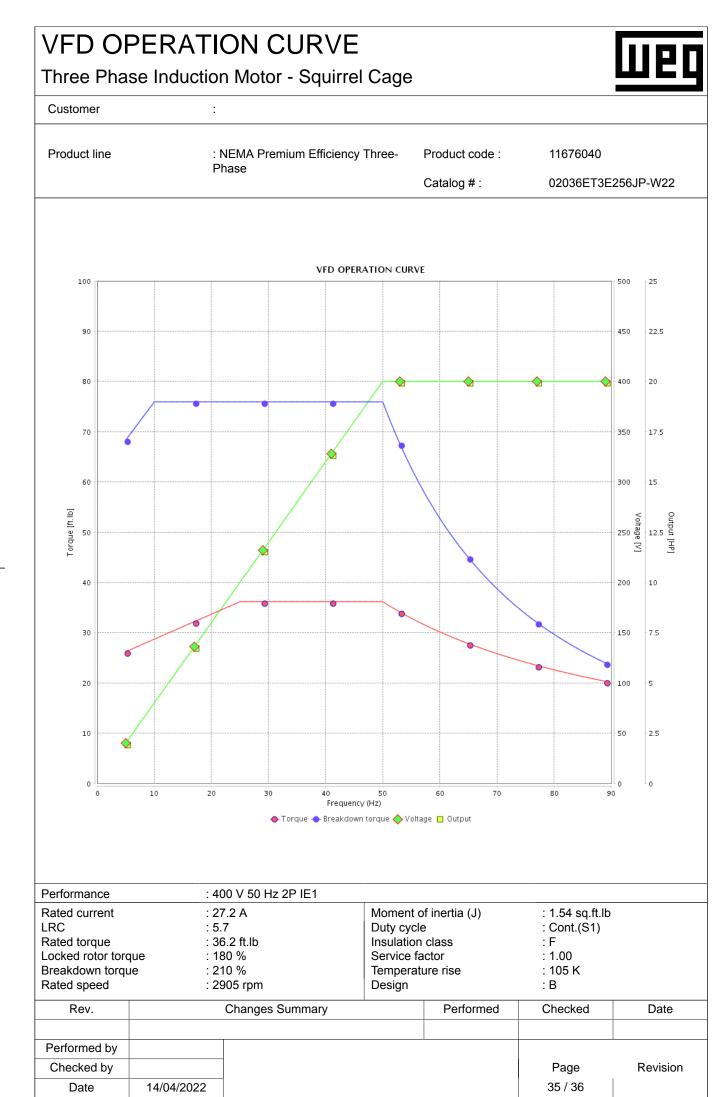


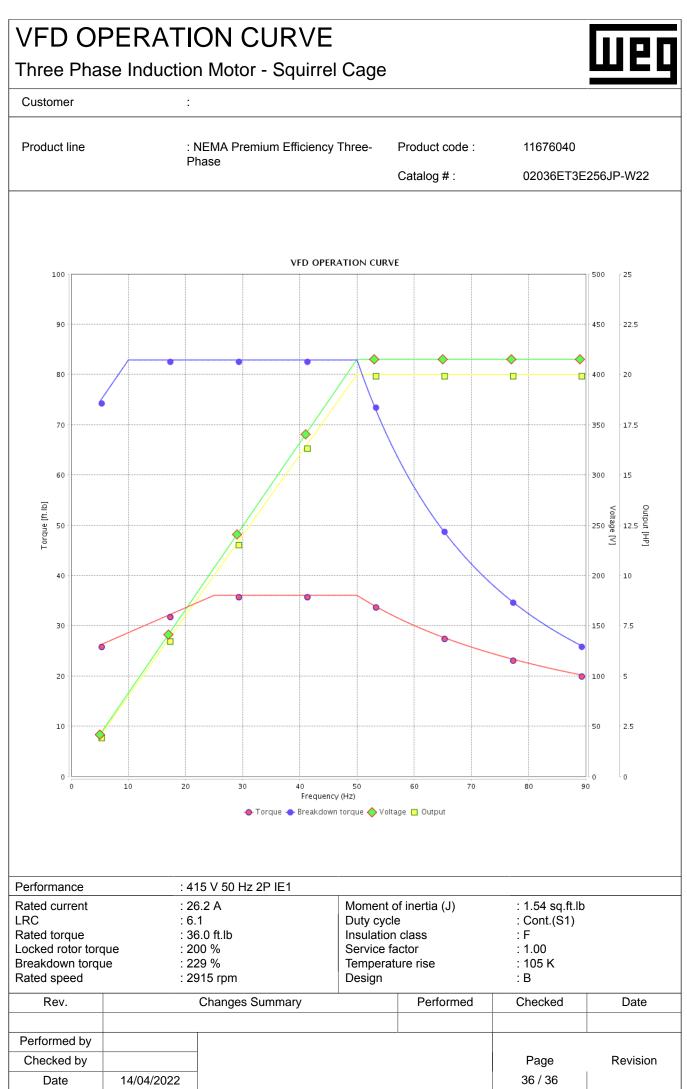




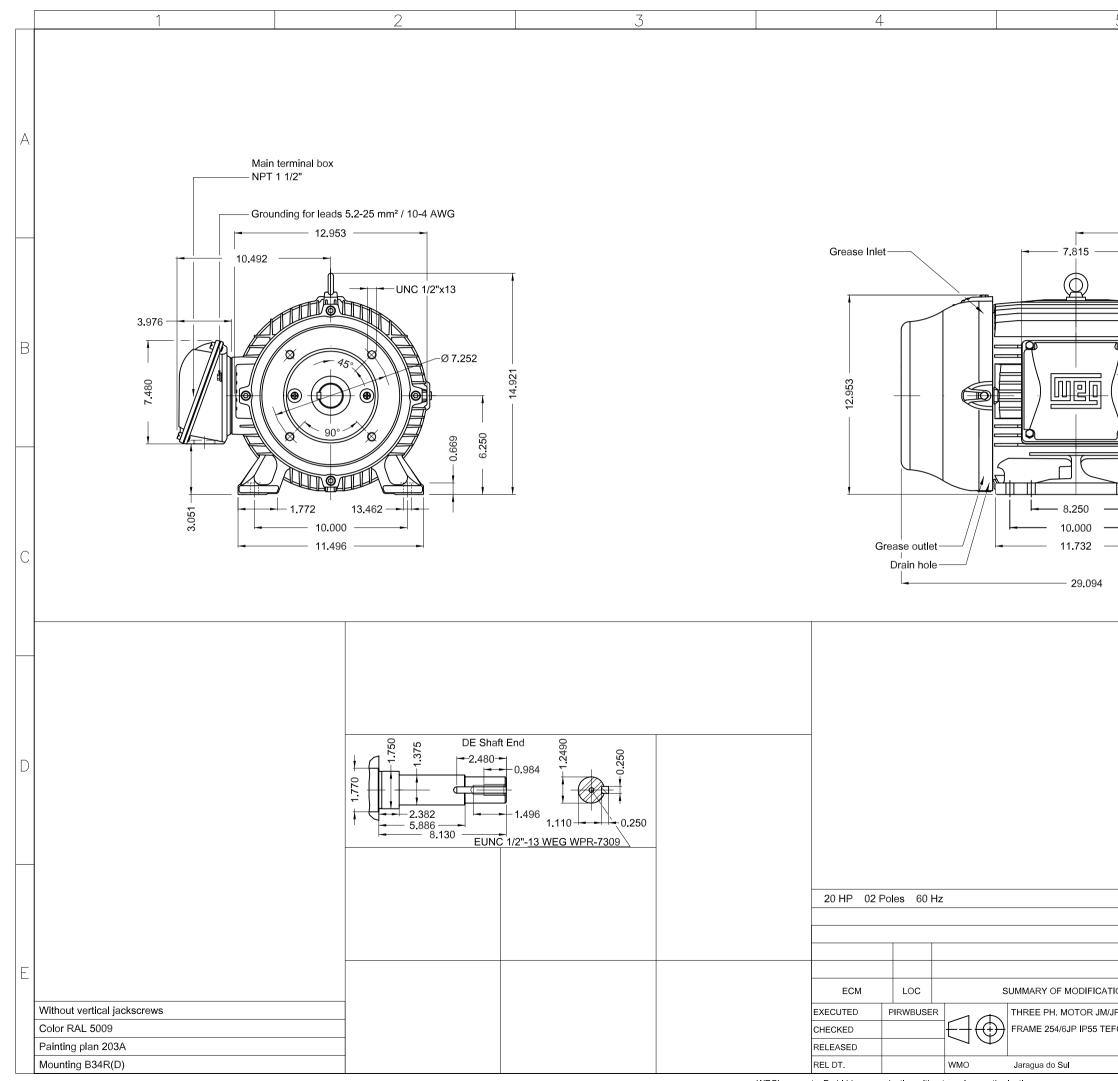








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IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
IP/JET PUMP W22 PF =C	REM. EFF.	PREVI	EW	Ше		A3
Produc	t Engineering	WDD SHEET	1 / 1	шС		XME /
			,			~

	CCO29A LIGUILUU Inverter Duty Motor Severe Duty	C US USTED FOR SAFE AREA MOD.TE1BF0X0N	For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3 Class I, Zone 2, IIC - T3 Class I, Zone 2, IIC - T3 Class II, Div 2, Gr. F and G - T4 For 60Hz use on PMN, Gr. A, B, C, D and F, Exergy Verified VT 1000:1, CT 20:1, 1.0SF, T3A
MODEL 02036ET3E256JP-W22 MADE IN MEXICO 11676040	PH 3 FR 254/6JP HP(kW) 20.0 V 230/460 A 46.4/23.2 NEMA NOM EFF 91.0 % INS. C ENCL TEFC DUTY CODE G PF 0.89 SF 1.25 USABLE @208V 51.3 A	RPM 3520 DES B	$\begin{array}{c c c c c c c c c c c c c c c c c c c $