# DATA SHEET

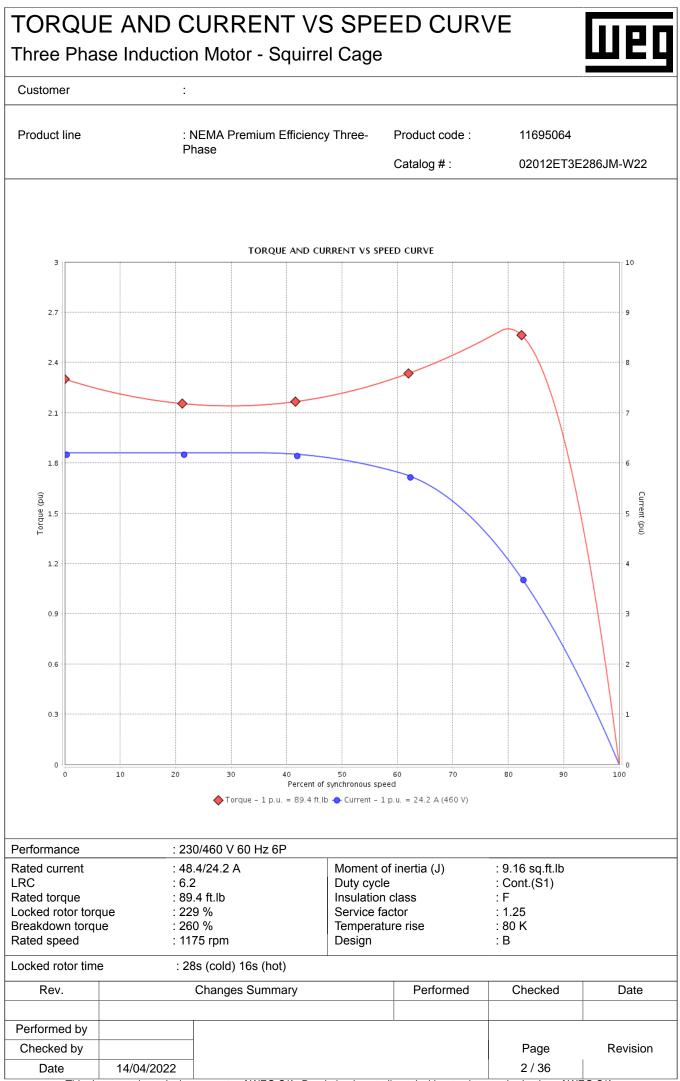
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line					Product code :		11695064	
		Phase			Catalog # :	02	012ET3E286	JM-W22
Frame Insulation class Duty cycle Ambient tempera Altitude		: 284/6JM : F : Cont.(S1) : -20°C to + : 1000 m.a.		Mounti Rotatio Starting Approx	n <sup>1</sup> g method weight <sup>3</sup>	: F : E : C : 4	Both (CW and Direct On Line 48 lb	CCW)
Protection degre Design	e	: IP55 : B		Nomer	nt of inertia (J)	:9	.16 sq.ft.lb	
Dutput [HP]		20	15	15	15	20	20	20
Poles		6	6	6	6	6	6	6
requency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		48.4/24.2	21.8	21.2	21.3	29.6	28.1	27.2
R. Amperes [A]		300/150	135	146	155	139	149	155
.RC [A]		6.2x(Code G)	6.2x(Code H)	6.9x(Code J)	7.3x(Code J)	4.7x(Code E)	5.3x(Code F)	5.7x(Code G)
No load current [A	1	19.0/9.50	9.40	10.0	10.6	9.40	10.0	10.6
Rated speed [RPI		1175	975	975	980	965	970	975
Slip [%]		2.08	2.50	2.50	2.00	3.50	3.00	2.50
Rated torque [ft.lb	]	89.4	80.4	80.2	80.1	109	108	108
ocked rotor torqu		229	229	270	280	170	200	210
Breakdown torque		260	270	290	320	200	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
emperature rise		80 K	80 K	80 K	80 K	105 K	105 K	80 K
ocked rotor time		28s (cold) 16s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A
Efficiency (%)	25%	90.8	89.8	89.0	88.9	91.5	90.6	90.7
	50%	91.0	90.0	89.3	89.3	90.2	90.2	90.2
	75%	91.7	90.3	90.3	90.6	90.2	90.2	91.0
	100%	91.7	90.3	90.3	90.8	88.5	89.5	90.2
	25%	0.44	0.41	0.38	0.36	0.51	0.47	0.44
Power Factor	50%	0.70	0.66	0.63	0.60	0.76	0.73	0.70
	75% 100%	0.80	0.79 0.85	0.76 0.83	0.73 0.81	0.84 0.87	0.82	0.80 0.85
	100%	1		· · · · · · · · · · · · · · · · · · ·		0.87	0.86	0.85
Bearing type Sealing Lubrication inter		<u>Drive end</u> : 6311 C3 : V'Ring : 20000 h	3 6211 0 V'Rin 1 20000	C3   Max. tra g   Max. co h	tion loads action ompression	-	)3 lb 352 lb	
Lubricant amour Lubricant type	it	: 18 g : Mobi	11 g I Polyrex EM					
Notes USABLE @208V	aces and ca						n tests with si	
must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	notor from the 1m and with weight subjectocess.	tolerance of +3		power s MG-1.	upply, subject	t to the tolera	nces stipulated	d in NEMA
		Changes	Summary		Performe	ed Che	ecked	Date
Rev.								
Rev. Performed by								

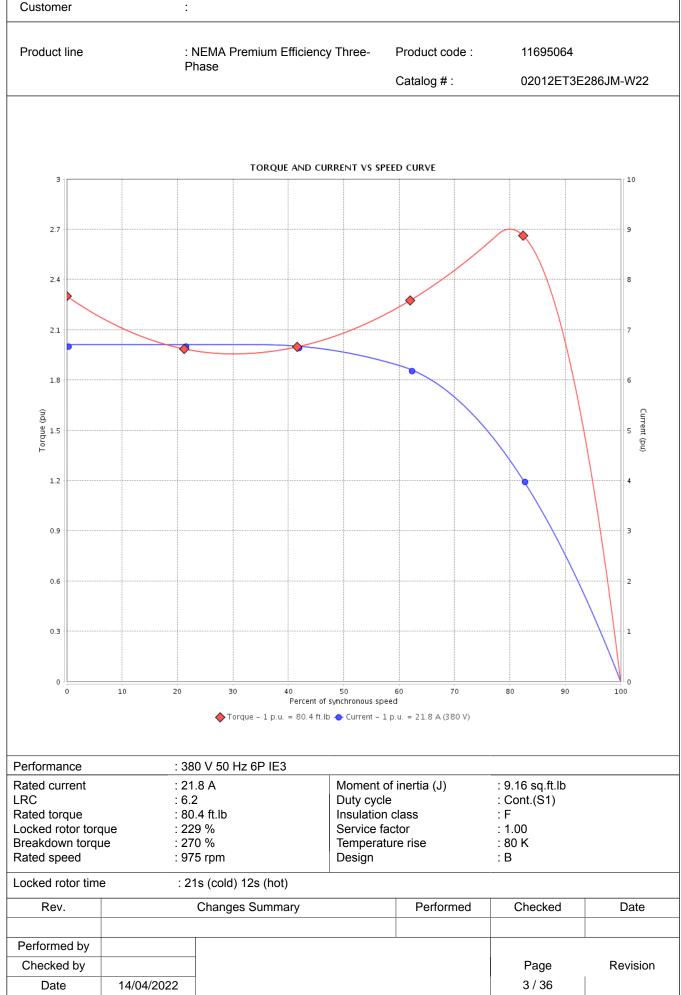
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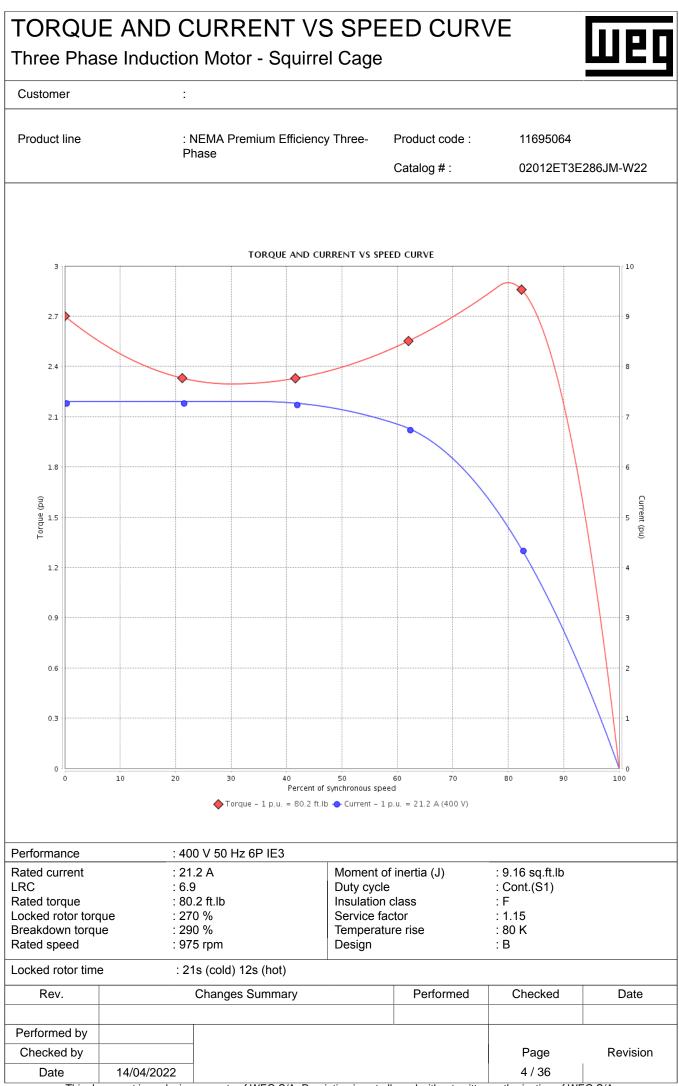
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





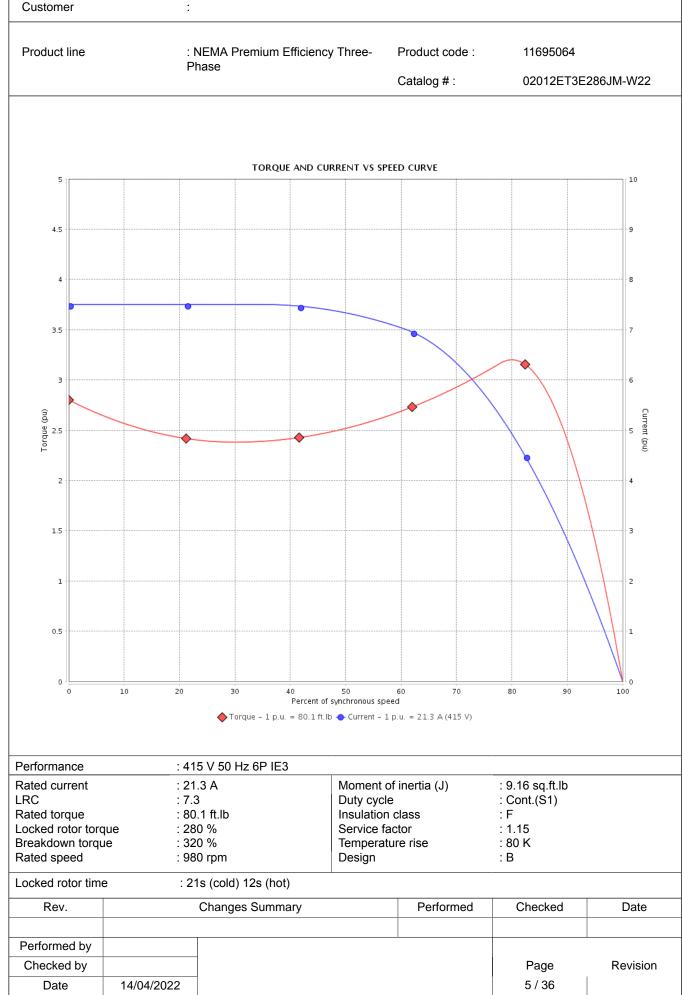
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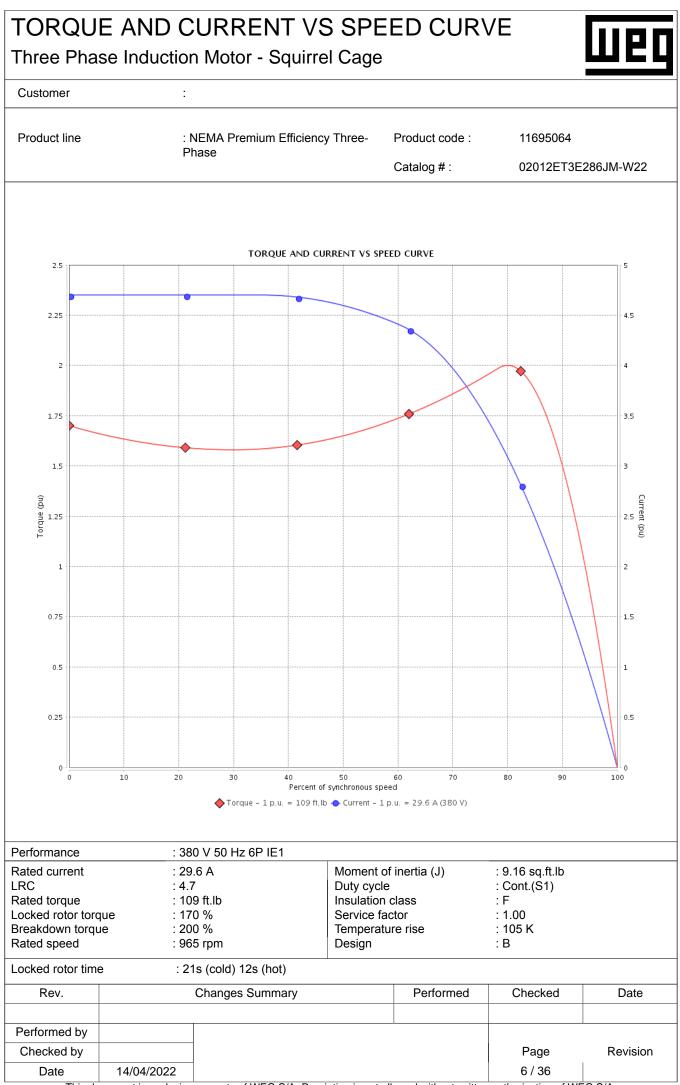
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Three Phase Induction Motor - Squirrel Cage





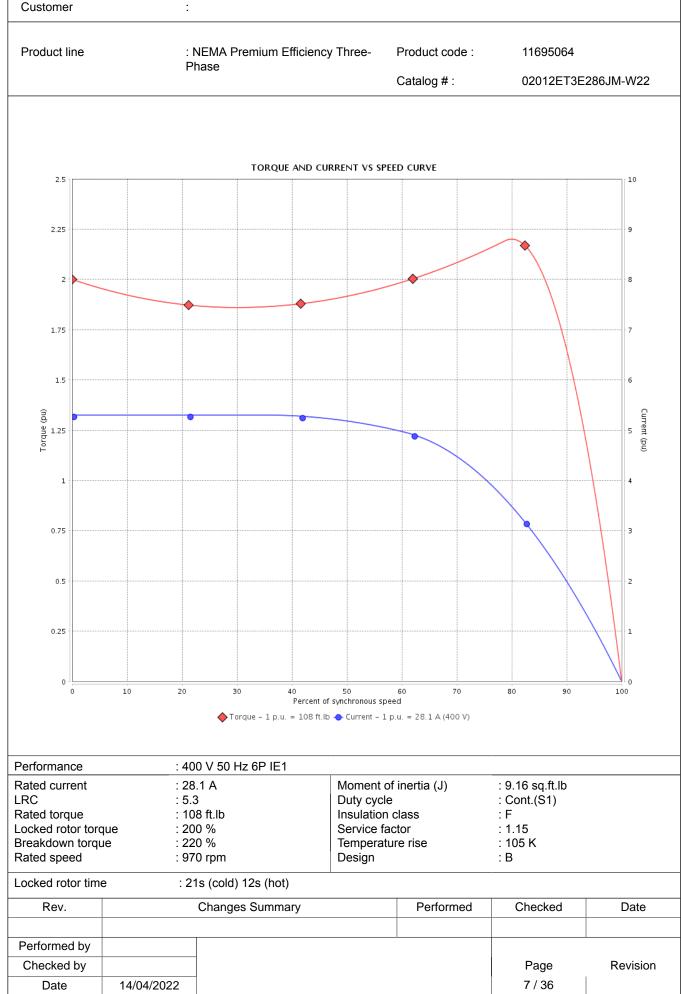
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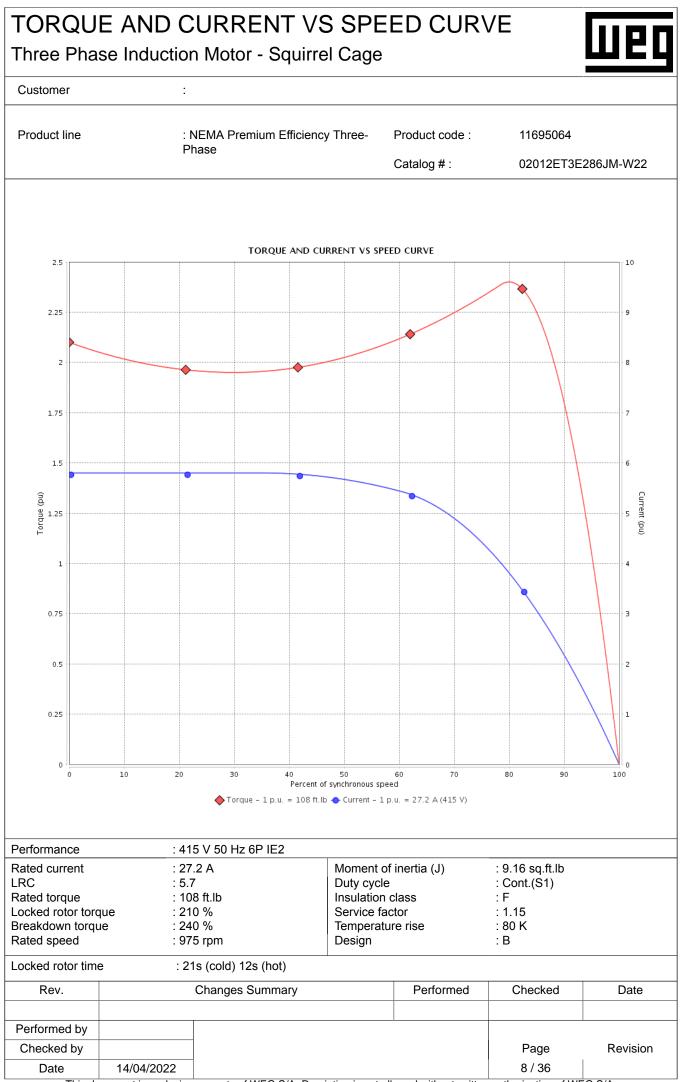
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Three Phase Induction Motor - Squirrel Cage



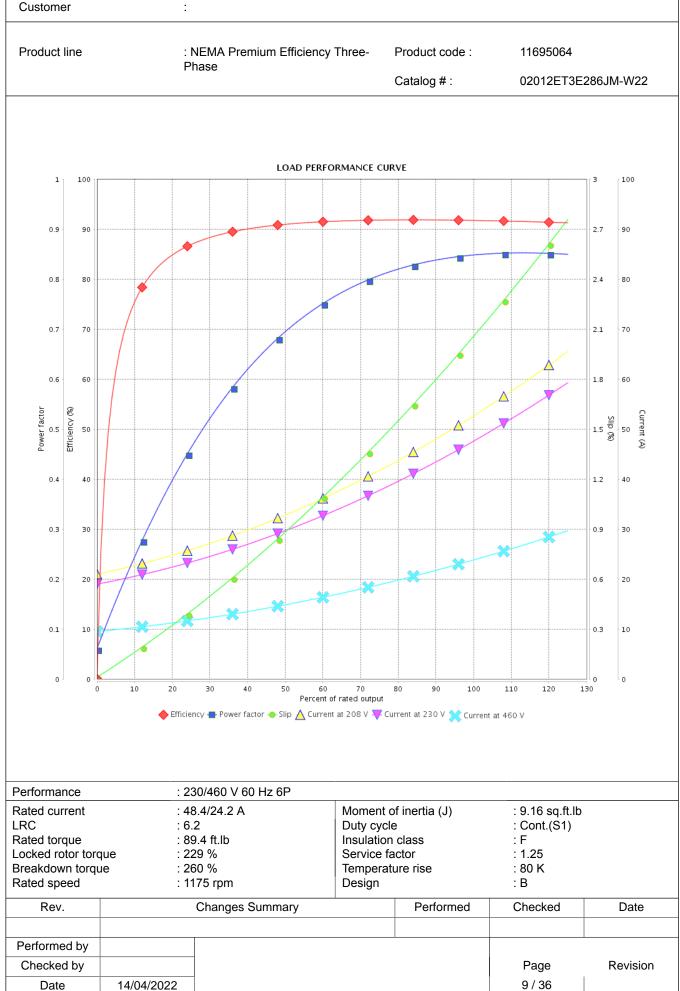


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Three Phase Induction Motor - Squirrel Cage

#### Customer



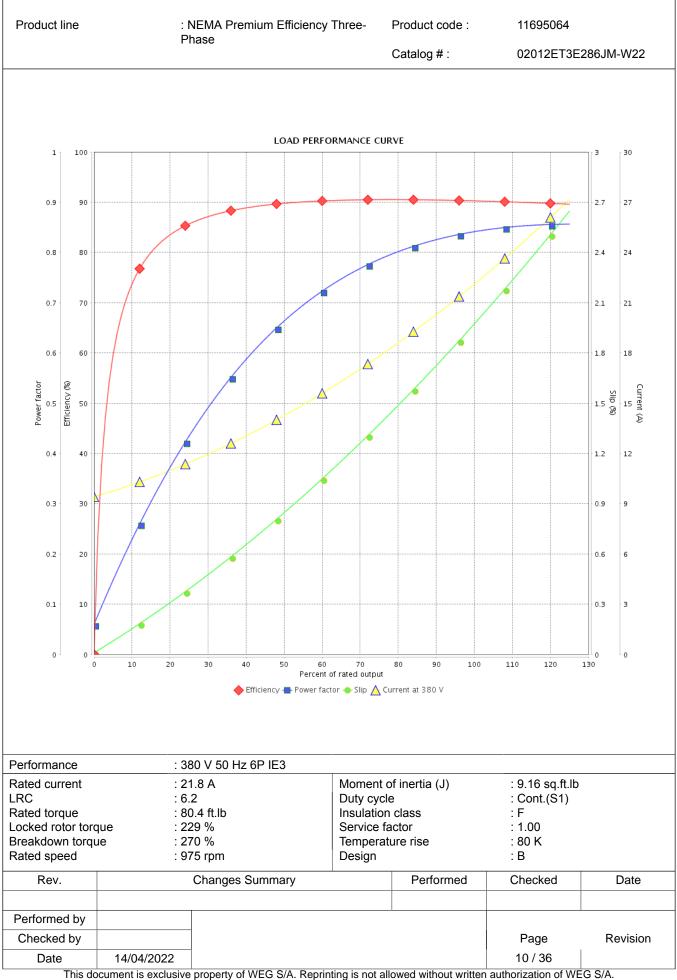
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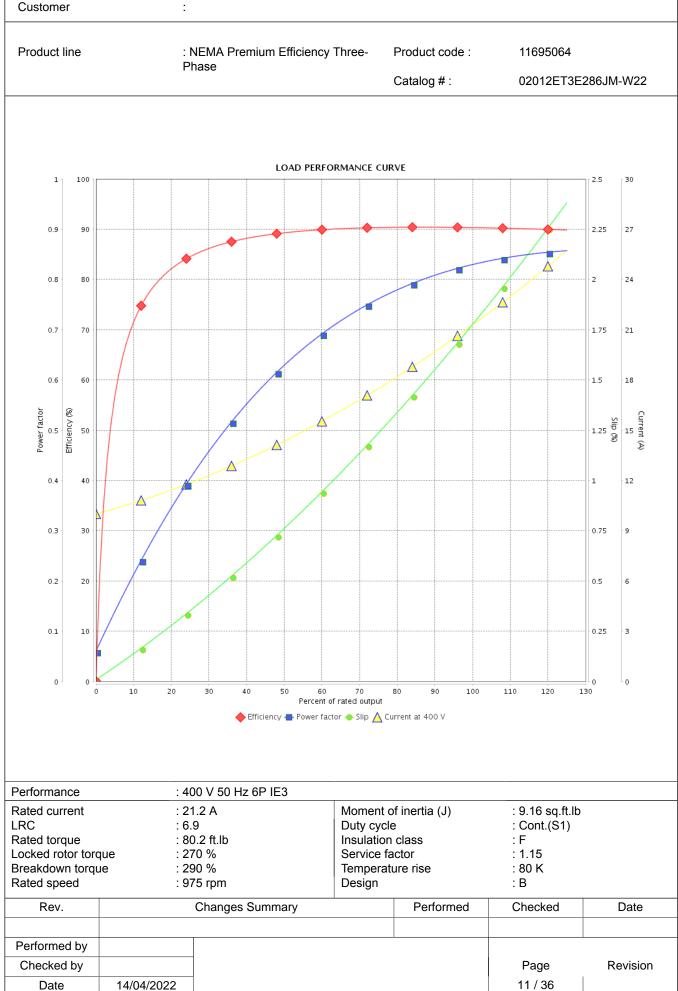


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Three Phase Induction Motor - Squirrel Cage

#### Customer



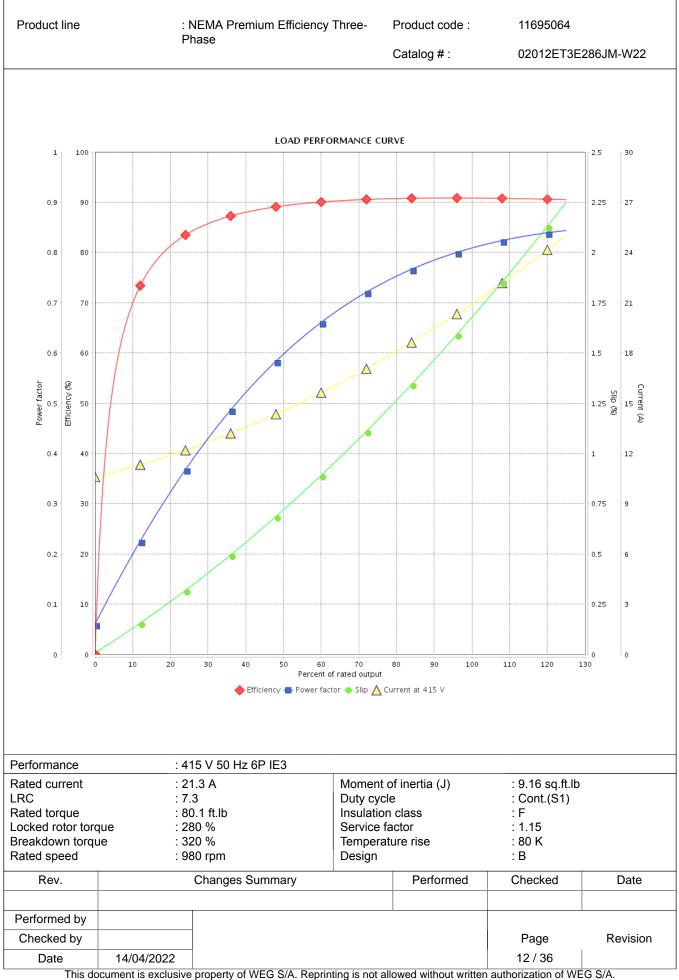
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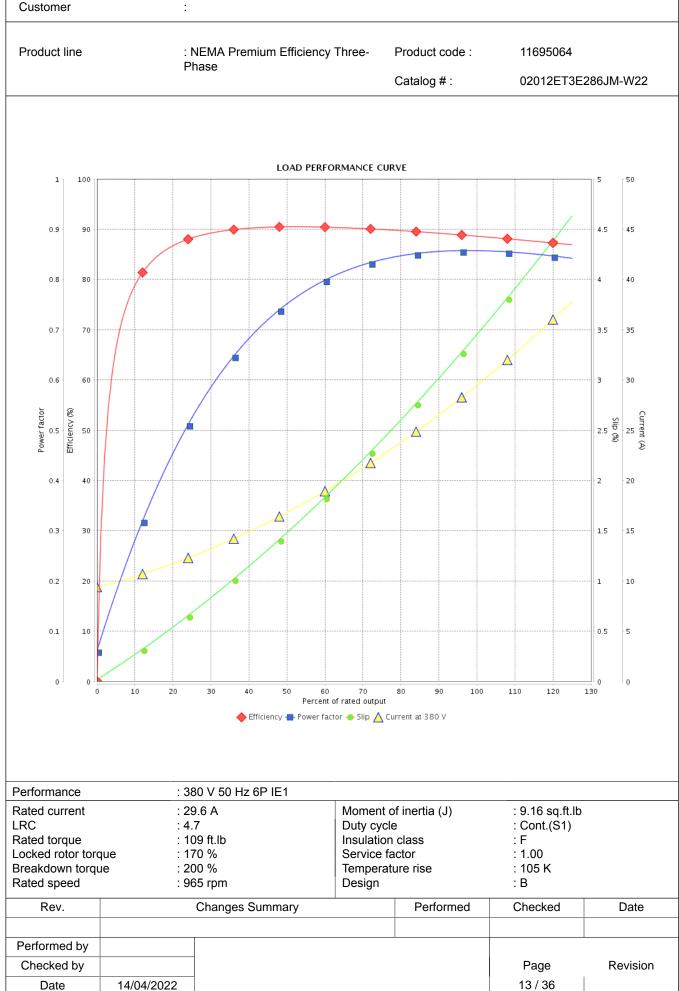


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Three Phase Induction Motor - Squirrel Cage

#### Customer



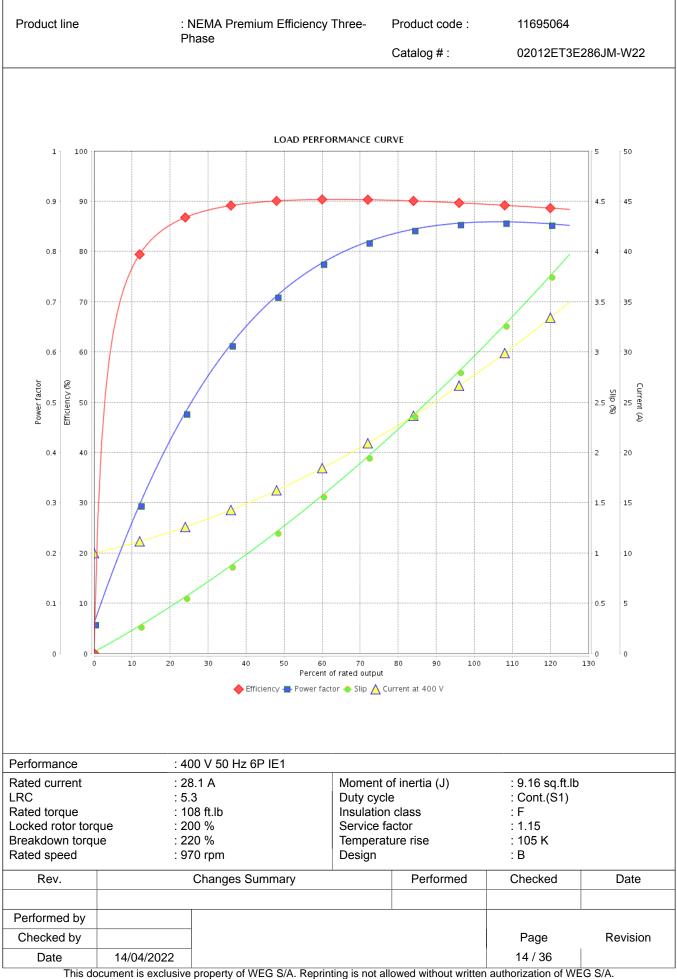
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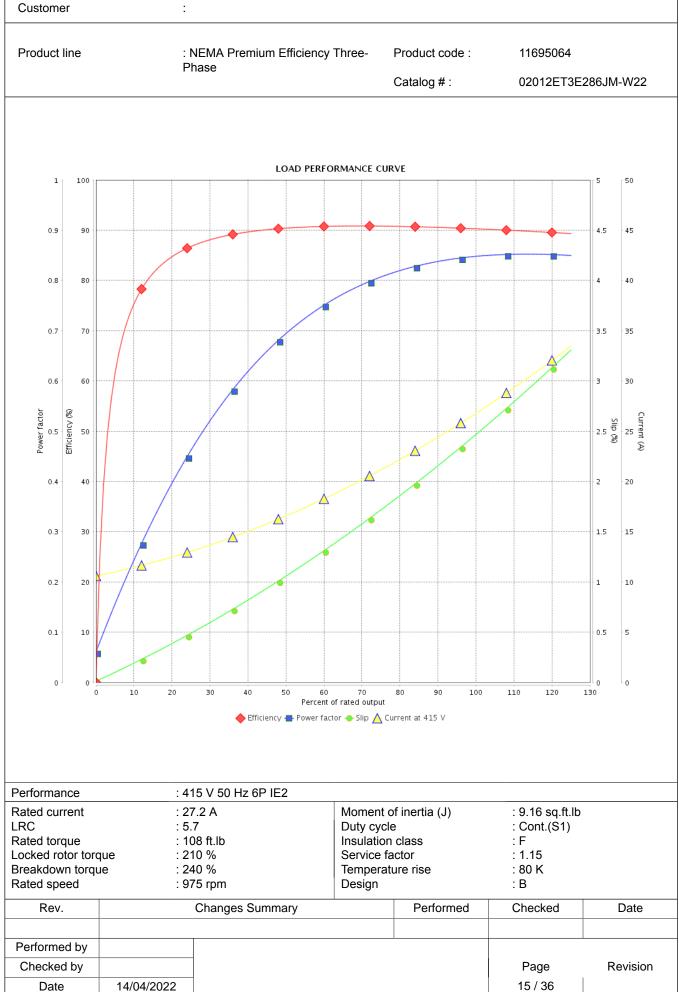


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Three Phase Induction Motor - Squirrel Cage

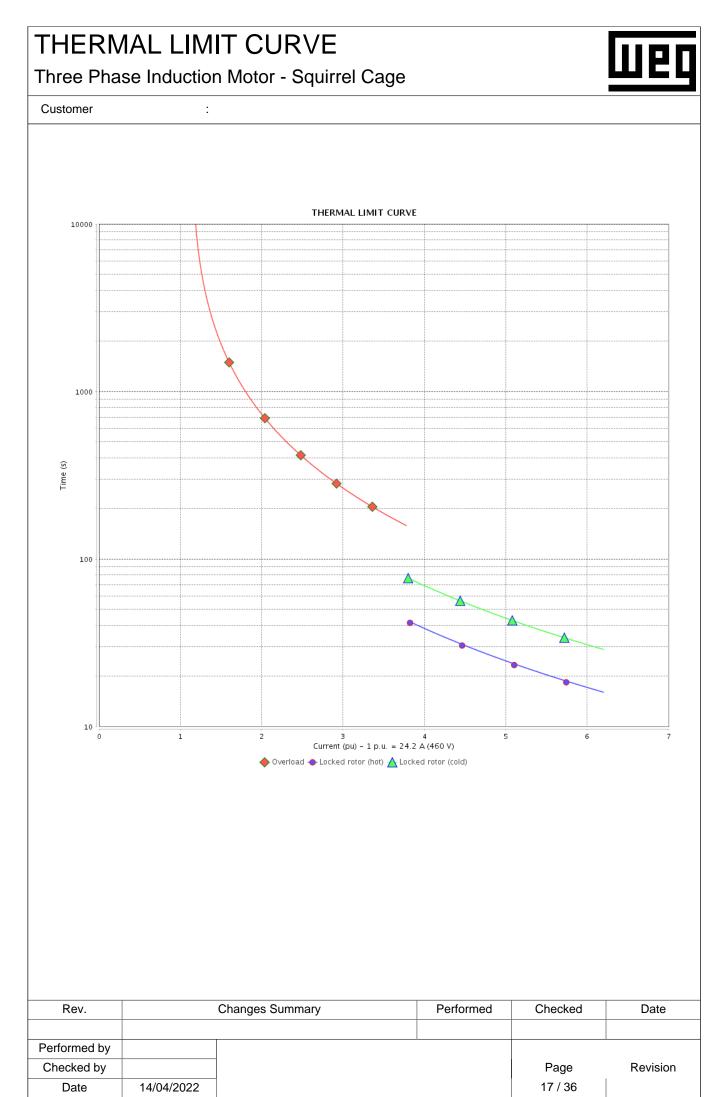
#### Customer



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ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11695064 02012ET3E286JM-W22

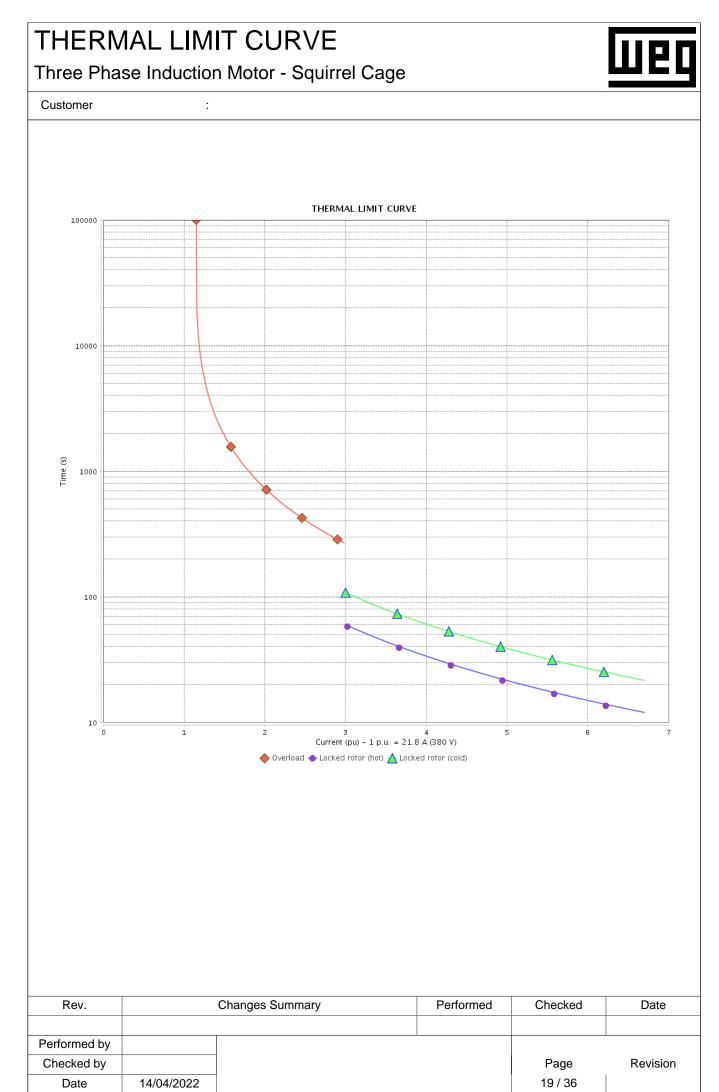
Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 89 que : 22 Je : 26	3.4/24.2 A 2 9.4 ft.lb 29 % 60 % 175 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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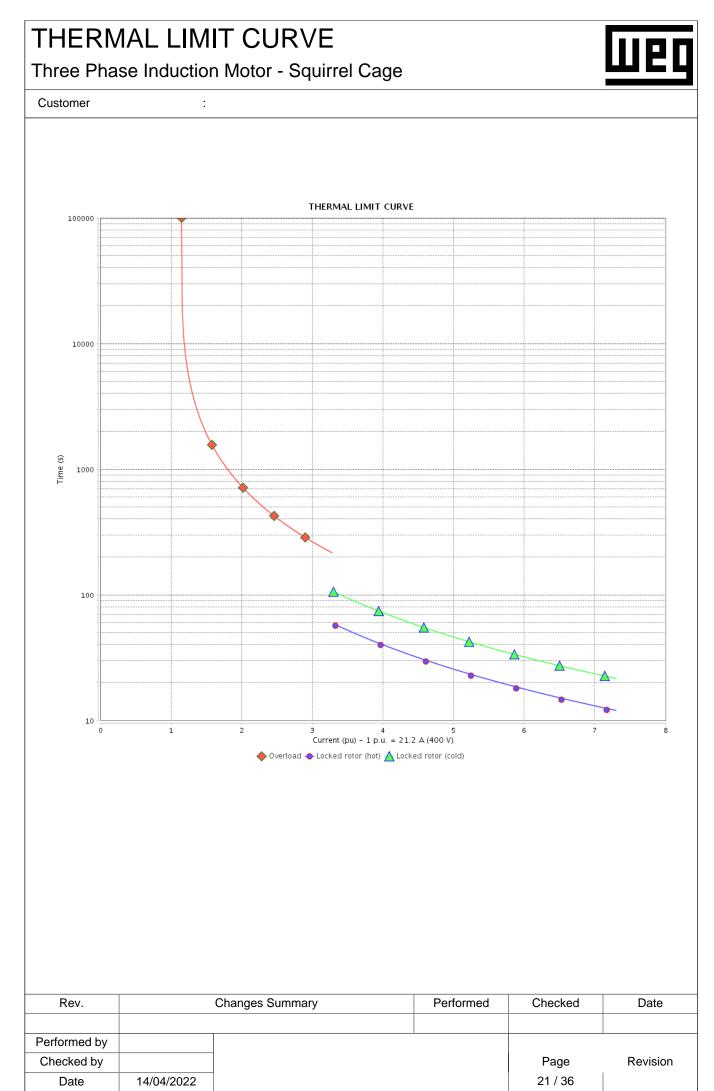
THERMAL	LIMIT CURVE		
	luction Motor - Squirrel Cage	9	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11695064 02012ET3E286JM-W22
Derformenes			
Performance Rated current	: 380 V 50 Hz 6P IE3	nt of inertia (.1)	· 9 16 sq ft lb

1 enormanoe	. 0					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 8 que : 2 Je : 2	1.8 A .2 0.4 ft.lb 29 % 70 % 75 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
Date	14/04/2022	1			18 / 36	



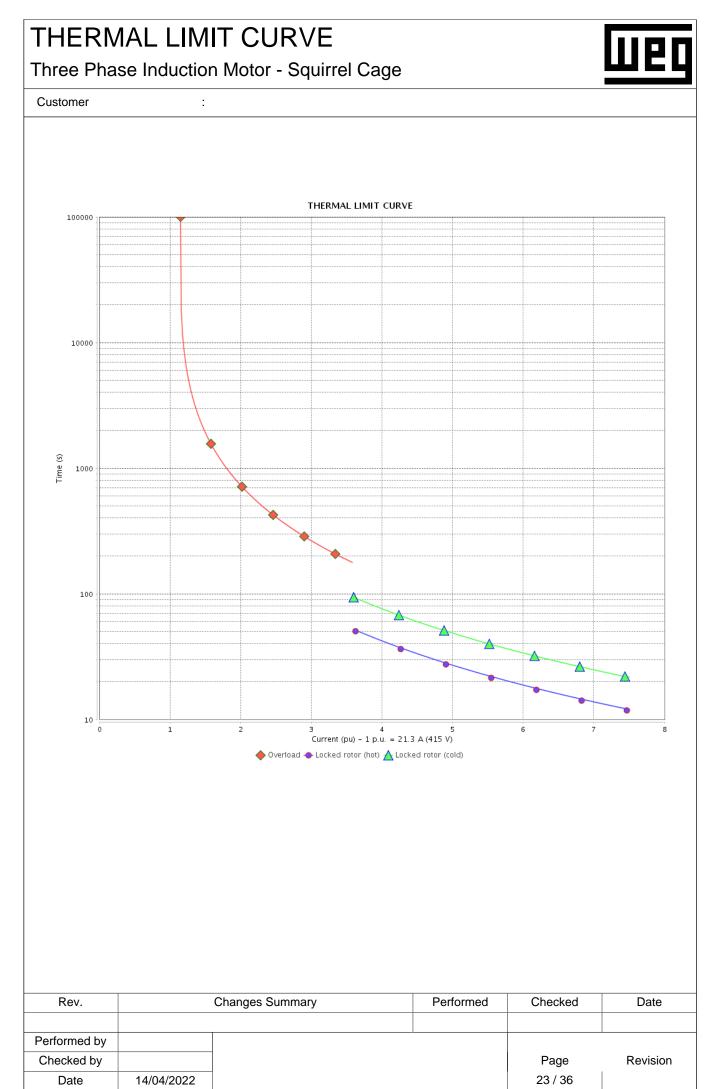
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11695064 02012ET3E286JM-W22

Performance	: 4	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 8 que : 2 ue : 2	1.2 A .9 0.2 ft.lb 70 % 90 % 75 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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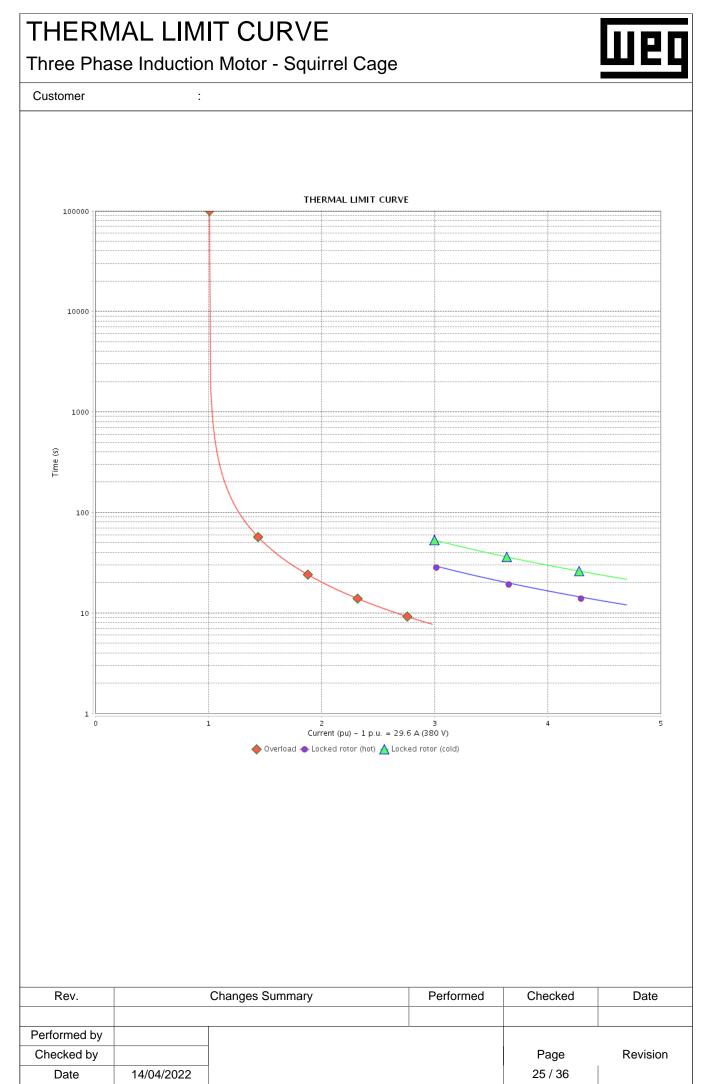
THERMAI	LIMIT CURVE		<b></b>
	nduction Motor - Squirrel Cag	je	шед
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11695064 02012ET3E286JM-W22
Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 21.3 A Mom	ent of inertia (J)	: 9.16 sq.ft.lb : Cont (S1)

Rated current LRC	: 2 <sup>-</sup> : 7.	1.3 A .3	Moment o	f inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 80	0.1 ft.lb	Insulation		: F	
Locked rotor torg	ue : 28	80 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie : 32	20 %	Temperatu	ure rise	: 80 K	
Rated speed	: 98	80 rpm	Design		: B	
Heating constant						
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Rev.		Changes Summary		Performed	Checked	Date
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Date	14/04/2022	]			22 / 36	



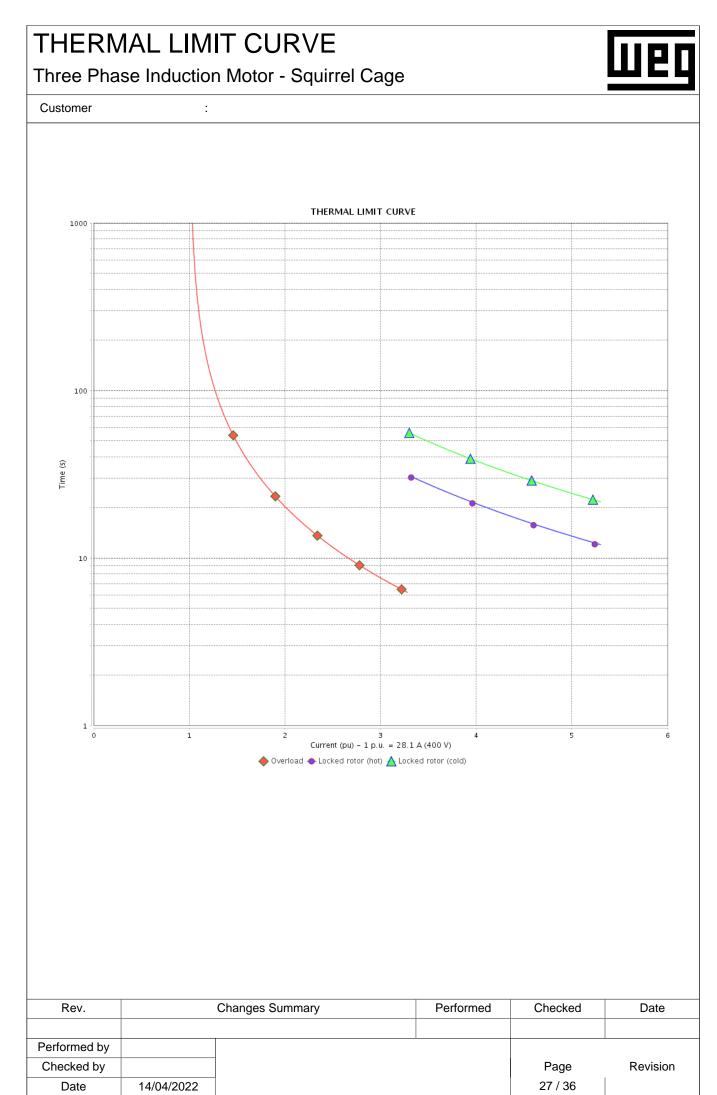
	LIMIT CURVE	2	шес
Customer	:	<i>.</i>	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11695064 02012ET3E286JM-W22
Performance	: 380 V 50 Hz 6P IE1	at of inartia (1)	· 0.16 og filb

Performance	: 3	80 V 50 HZ 6P IE1				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4 : 1 que : 1 ue : 2	9.6 A .7 09 ft.lb 70 % 00 % 65 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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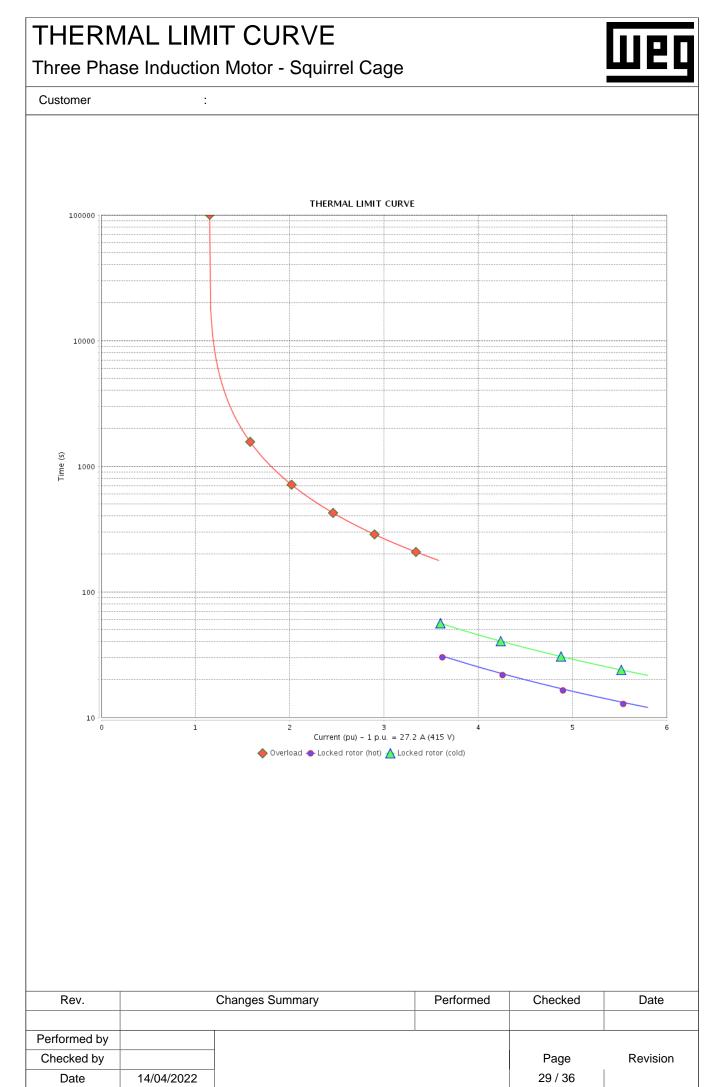
			Ше
Customer	nduction Motor - Squirrel Cag	9	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11695064 02012ET3E286JM-W22
erformance ated current	: 400 V 50 Hz 6P IE1 : 28.1 A Mome	nt of inertia (J)	: 9.16 sq.ft.lb

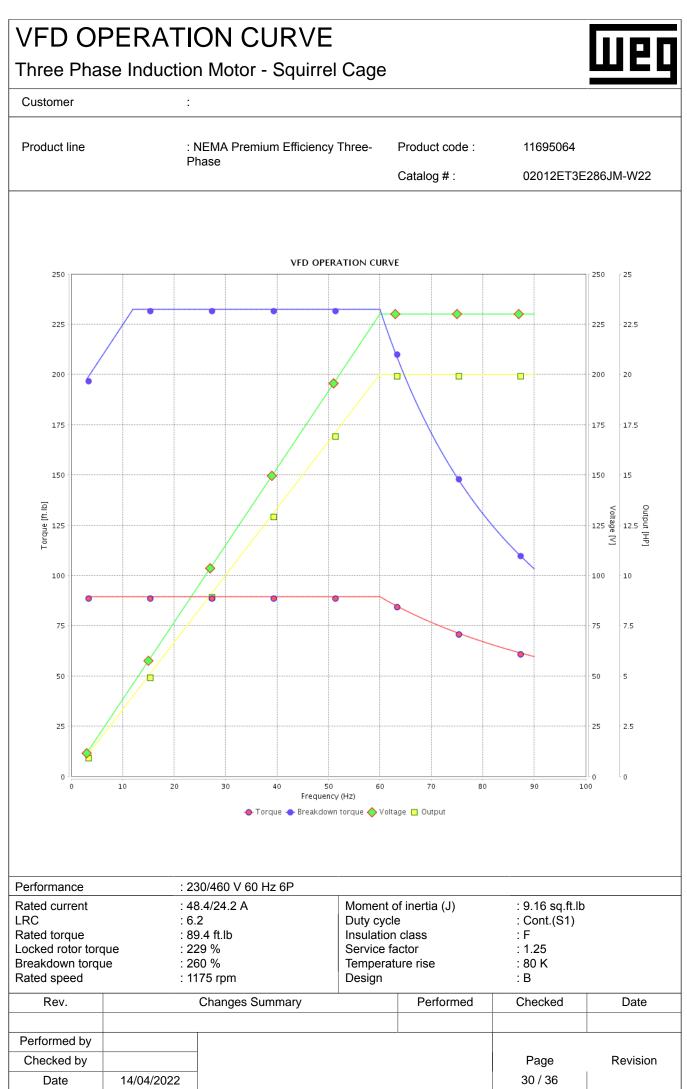
LRC Rated torque Locked rotor torque Breakdown torque		3.1 A 3 08 ft.lb 00 % 20 % 70 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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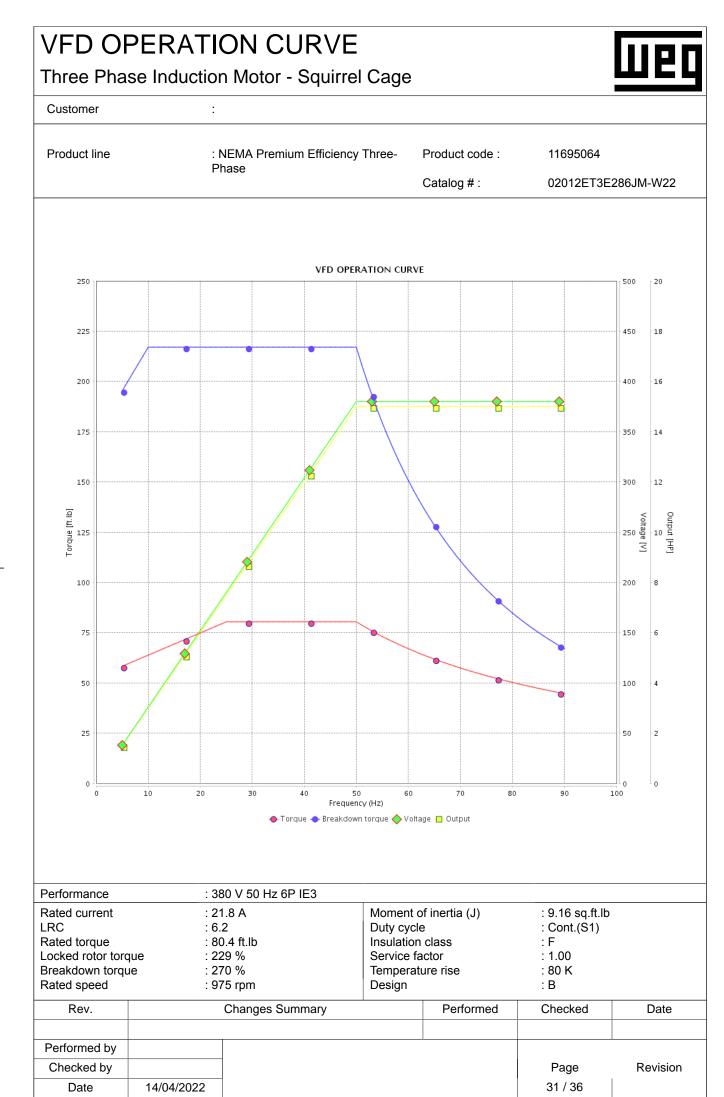


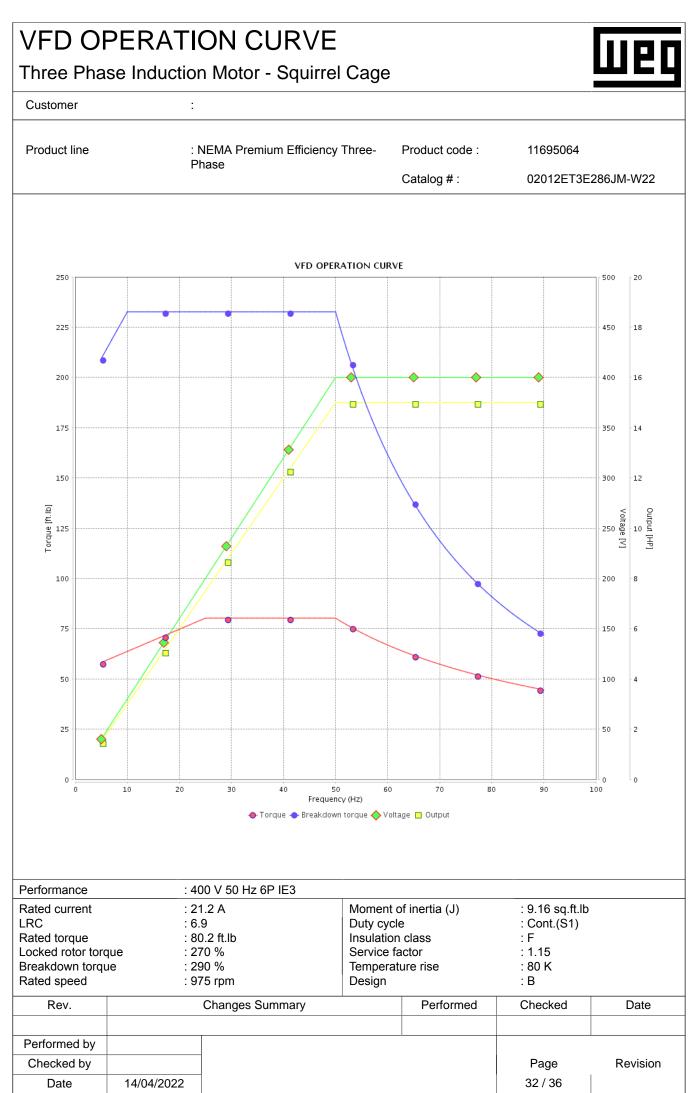
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	LIMIT CURVE		шео
	luction Motor - Squirrel C	Cage	
Customer	:		
Product line	: NEMA Premium Efficiency Th Phase	ree- Product code :	11695064
	1 11030	Catalog # :	02012ET3E286JM-W22
Performance	: 415 V 50 Hz 6P IE2		· 0.40 an # !!-
Rated current LRC	: 5.7 E	/loment of inertia (J) Duty cycle	: 9.16 sq.ft.lb : Cont.(S1)
Rated torque Locked rotor torque	: 210 %	nsulation class Service factor	: F : 1.15
Dreekdeuwe termine	. 040.0/		. 00 1/

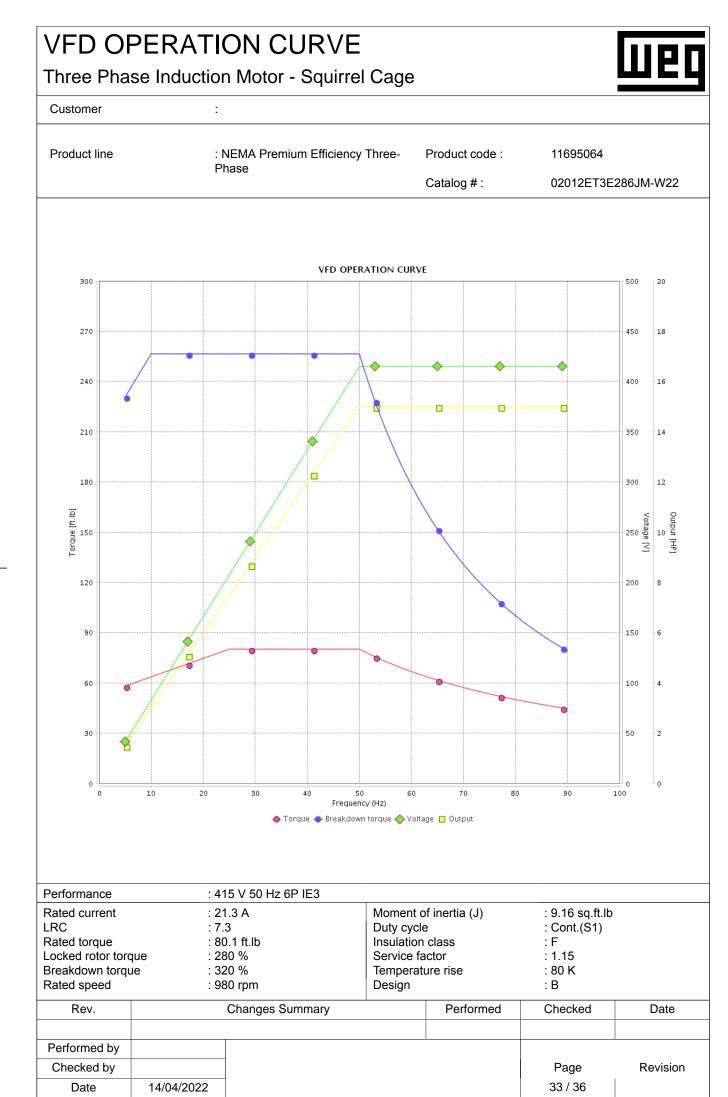
LRC	: 5	5.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	08 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 2	210 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue : 2	240 %	Temperat	ure rise	: 80 K	
Rated speed	: 9	975 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
Rev.	Changes Summary			Performed	Checked	Date
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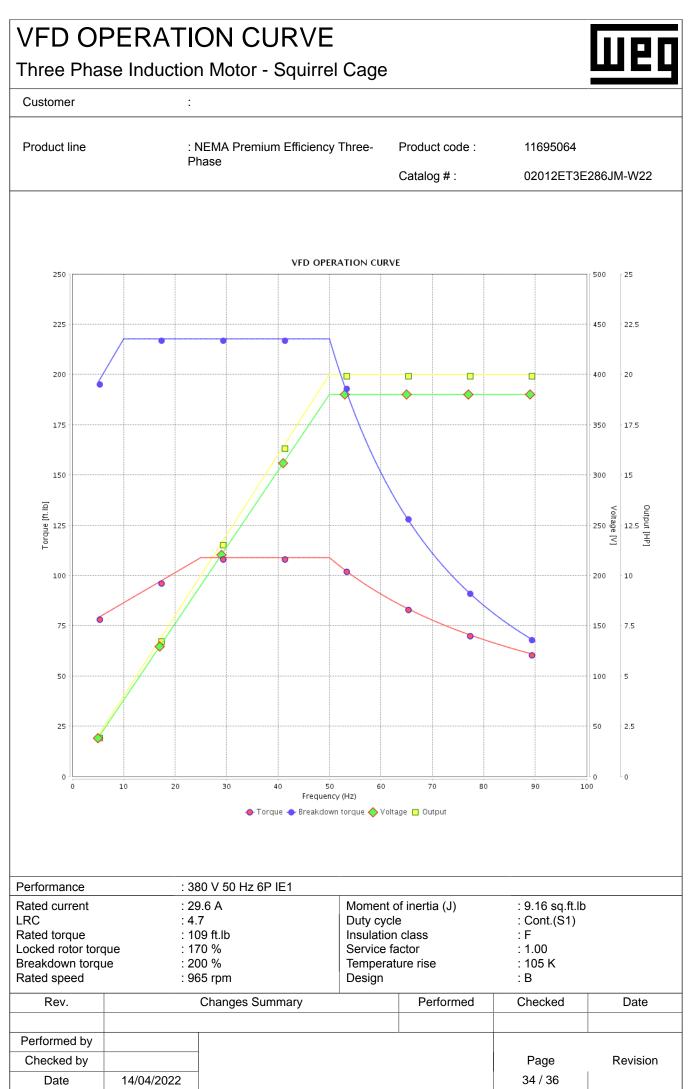


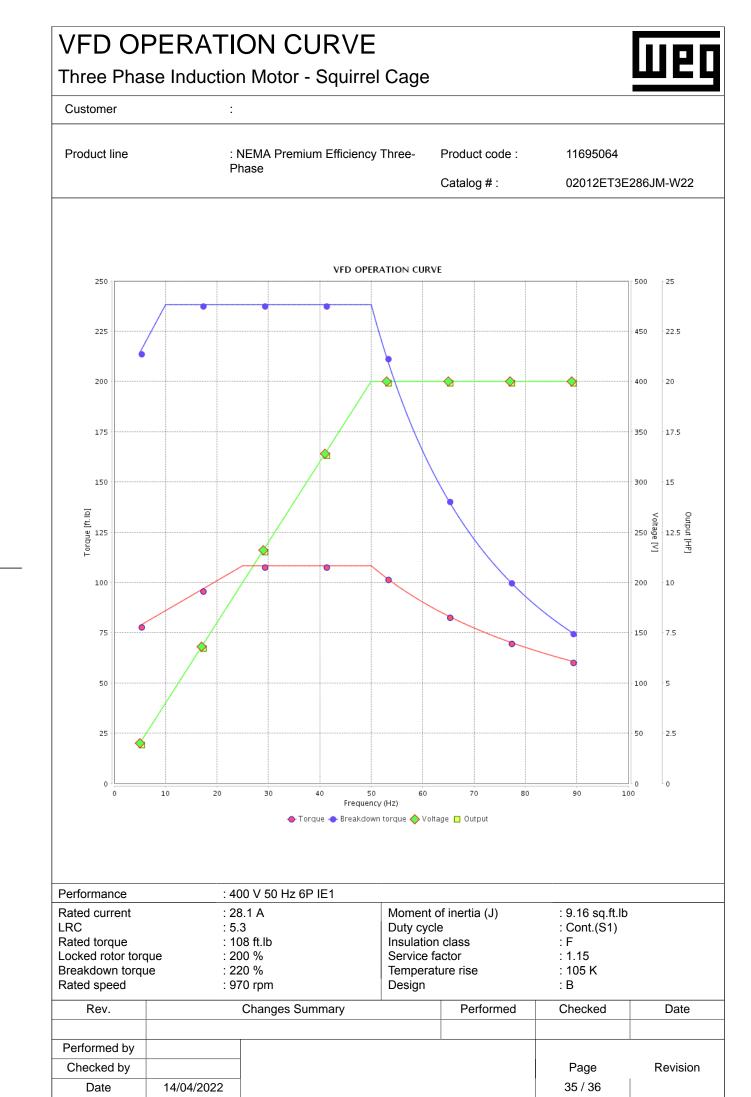


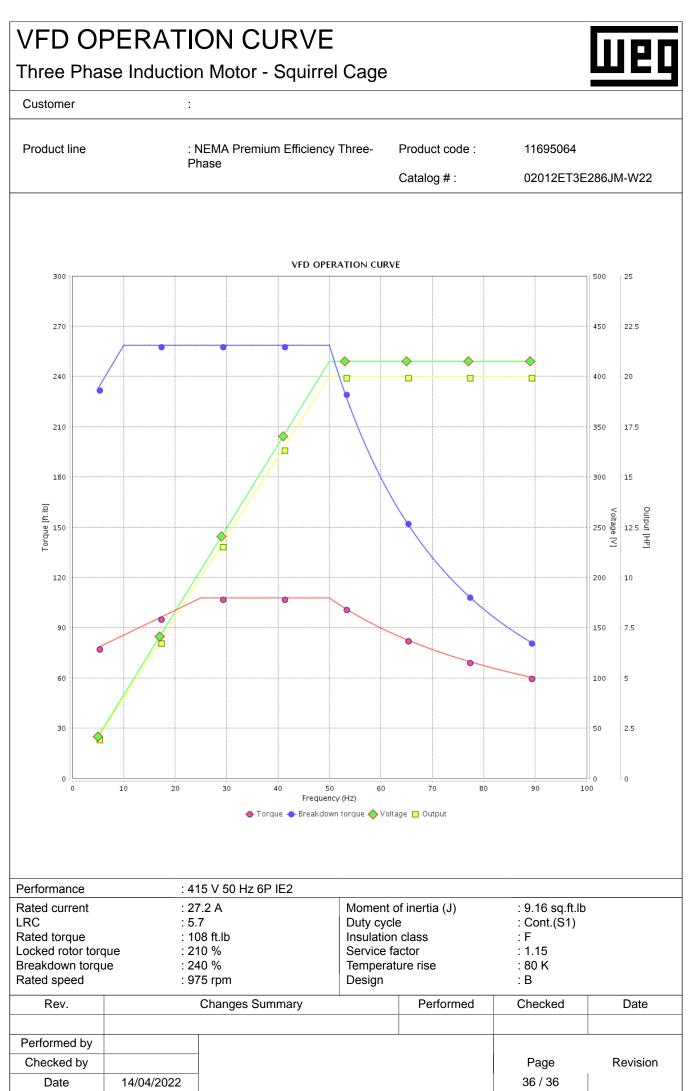


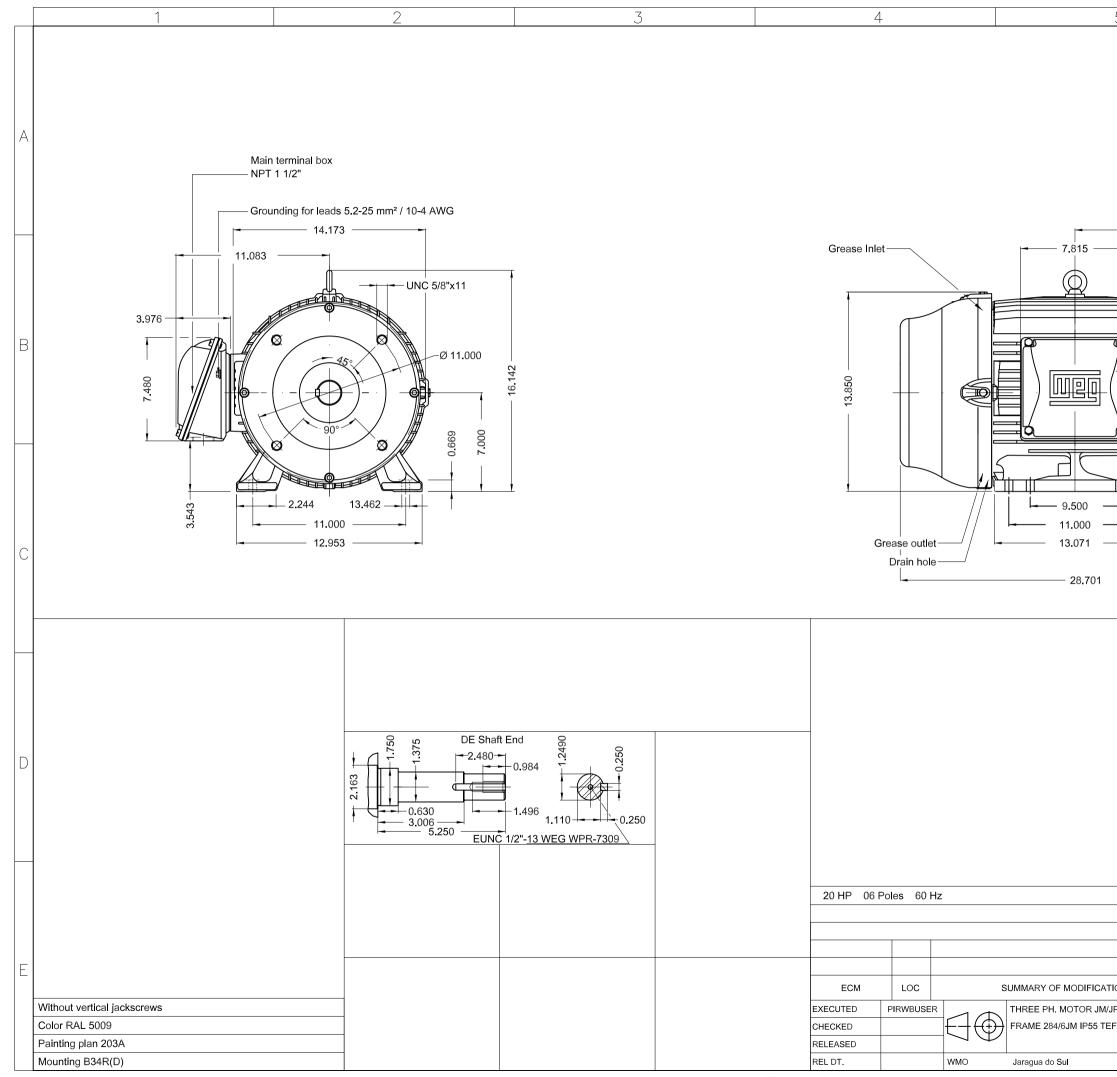












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IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
IP/JET PUMP W22 PR	EM. EFF.	PREVI	FW/			
FC			<b>~ * *</b>			A3
		WDD				<i>,</i>
	Engineering	SHEET	1 / 1			XME

	CCO29A	19 FOR SAFE AREA ITED MOD.TE1BFOXON	For 60Hz: Class I, Div 2, Gr. A, B, C and D - T3 Class I, Zone 2, IIC - T3 Class II, Div 2, Gr. F and G - T4 Class II, Div 2, Gr. F and G - T4 For 60Hz use on PWM, Gr. A, B, C, D and F, Lingy Willied VT 1000:1, CT 20:1, 1.0SF, TSA
02012ET3E286JM-W22 DE IN BRAZIL 11695064	PH 3 FR 284/6JM HP(kW) 20.0(15.0)   V 230/460 A 48.4/24.2 RPM 1   NEMA NOM EFF 91.7 % INS. CL. F △T &	Нz 60 175 Des В 60 к IP55	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
MODEL 020 MADE 11	ENCL TEFC DUTY CONT. AMB. 40°   CODE G PF 0.85 SF 1.25 SFA 60.5/30.3   USABLE @208V 53.5 A SF 1.15 SFA 61.		
	20HP 15kW 50Hz 380V 29.9A 965RPM SF1.00 EF	F 88.5% (IE1)	ALT 1000 m.a.s.l. 450 Lbs