DATA SHEET

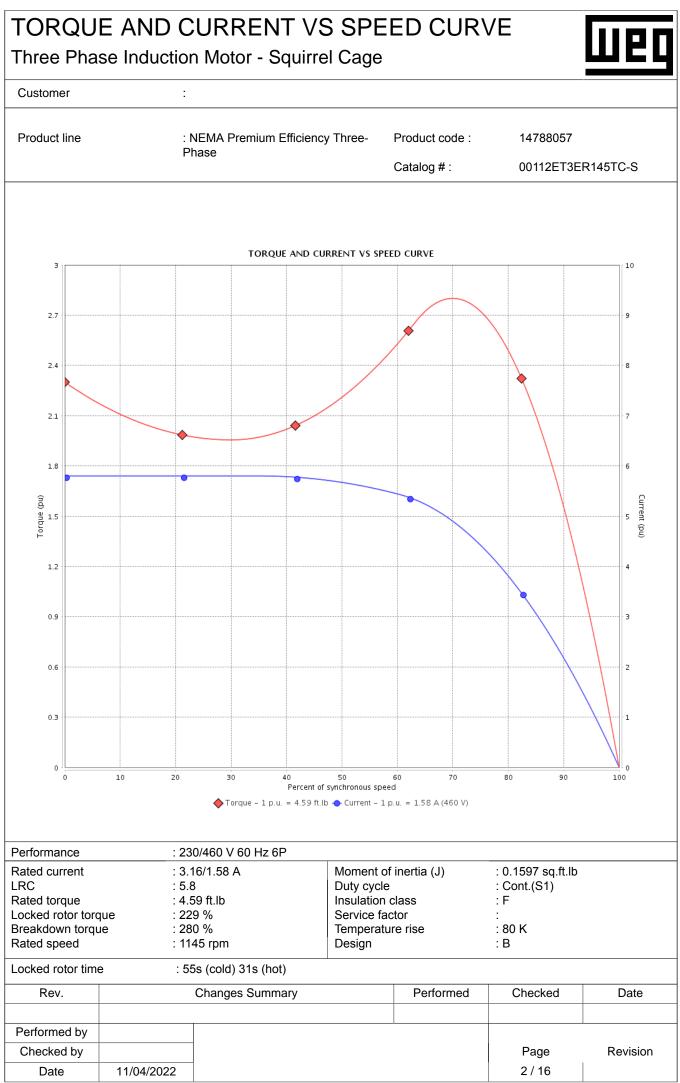
Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Efficienc Phase	14788057	
		Flidse	Catalog # :	00112ET3ER145TC-S
Frame Insulation class Duty cycle		: 143/5TC : F : Cont.(S1)	Cooling method Mounting Rotation ¹	: IC411 - TEFC : W-6 : Both (CW and CCW)
Ambient temperature Altitude Protection degree		: -20°C to +40°C : 1000 m.a.s.l. : IP55	Starting method Approx. weight ³ Moment of inertia (J)	: Direct On Line : 38.2 lb : 0.1597 sq.ft.lb
Design		: B		
Output [HP] Poles		<u> </u>	<u> </u>	<u> </u>
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.16/1.58	3.74/1.87	3.41/1.81
. R. Amperes [A]		18.3/9.16	16.5/8.23	16.7/8.87
RC [A]		5.8x(Code J)	4.4x(Code F)	4.9x(Code G)
No load current [A	.]	2.03/1.01	2.00/1.00	2.02/1.07
Rated speed [RPN		1145	915	930
Slip [%]	~	4.58	8.50	7.00
Rated torque [ft.lb]	1	4.59	5.74	5.65
Locked rotor torqu		229	170	200
Breakdown torque		280	200	229
Service factor	<u>.</u>		1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		55s (cold) 31s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
Noise level ²		50.0 dB(A)	47.0 dB(A)	47.0 dB(A)
	25%	79.5	82.0	80.4
	50%	80.0	80.1	79.4
Efficiency (%)	75%	82.5	80.1	80.4
	100%	82.5	77.3	78.6
	25%	0.28	0.33	0.31
	50%	0.20	0.58	0.54
Power Factor	75%	0.63	0.58	0.68
	100%	0.03	0.79	0.76
Designations	100 /0	Drive end Non drive e	nd Foundation loads	
Bearing type Sealing		: 6205 ZZ 6203 ZZ : V'Ring Withou Bearing S	t Max. compression	: 94 lb : 132 lb
Lubrication interv		:		
Lubricant amoun Lubricant type	it.	Mobil Polyrex EM		
Notes USABLE @208V	3.49A SF 1.	00 SFA 3.49A		
			T here are a second second	
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, which e shaft end. olerance of +3dB(A). et to changes after		s based on tests with sinusoidal he tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro-	ed. lotor from the Im and with t weight subjec ocess.	shaft end. olerance of +3dB(A).	power supply, subject to t	s based on tests with sinusoidal he tolerances stipulated in NEMA Checked Date
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to t MG-1.	he tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. lotor from the Im and with t weight subjec ocess.	e shaft end. olerance of +3dB(A). et to changes after	power supply, subject to t MG-1.	he tolerances stipulated in NEMA



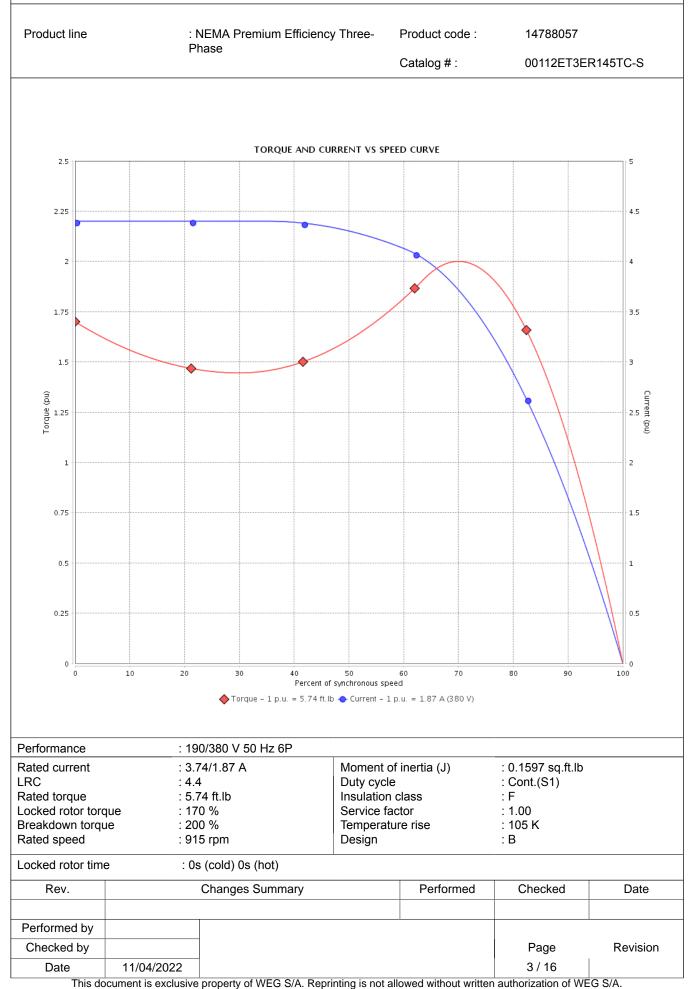
TORQUE AND CURRENT VS SPEED CURVE

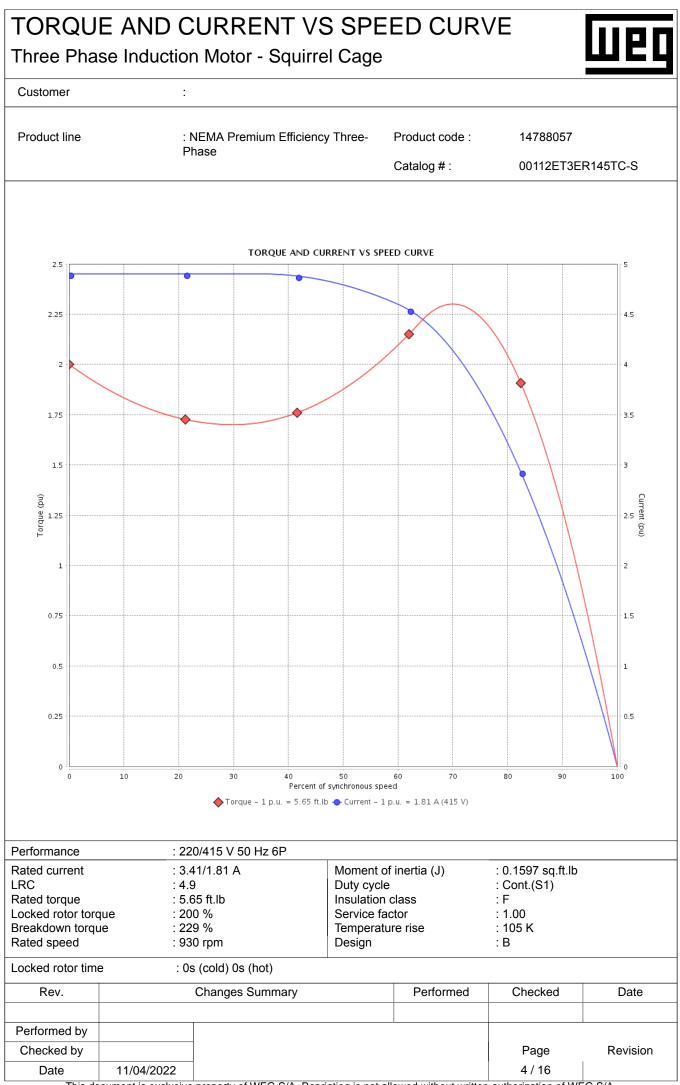
Three Phase Induction Motor - Squirrel Cage

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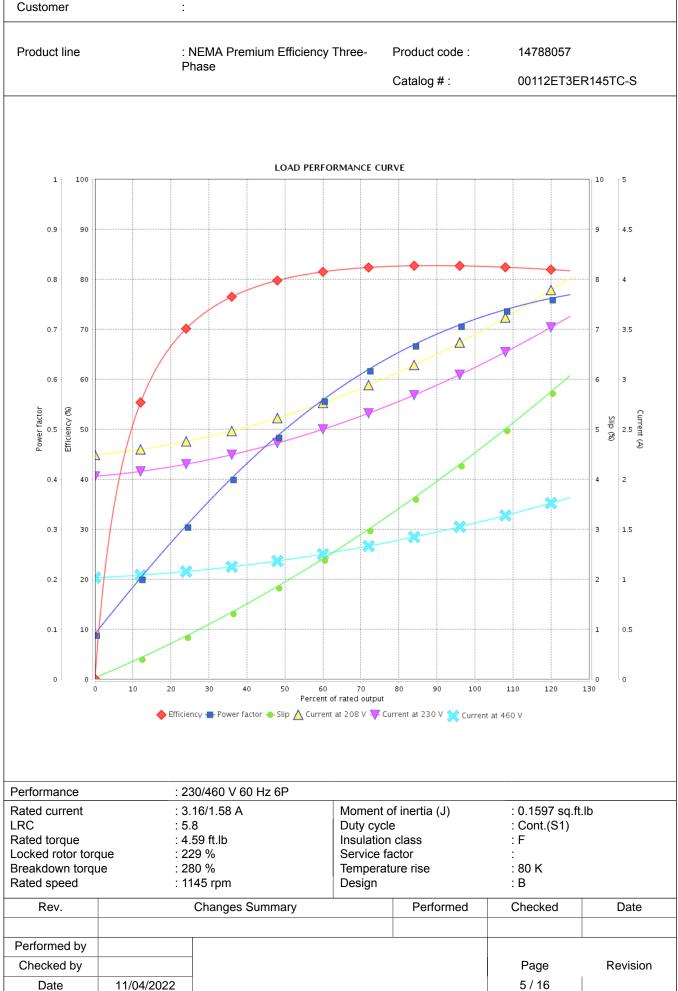




LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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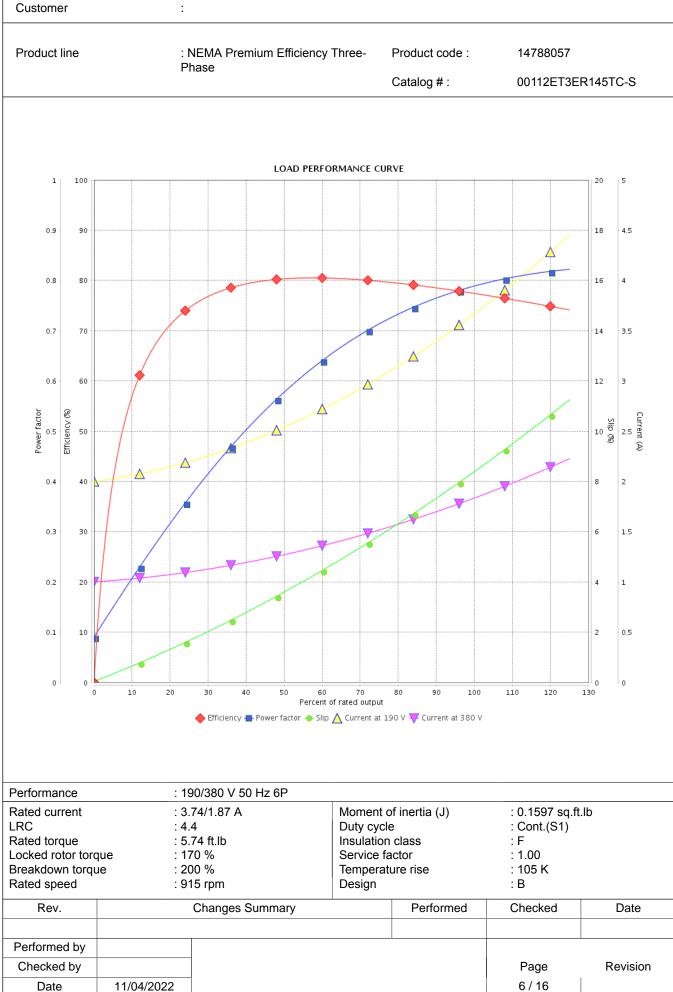


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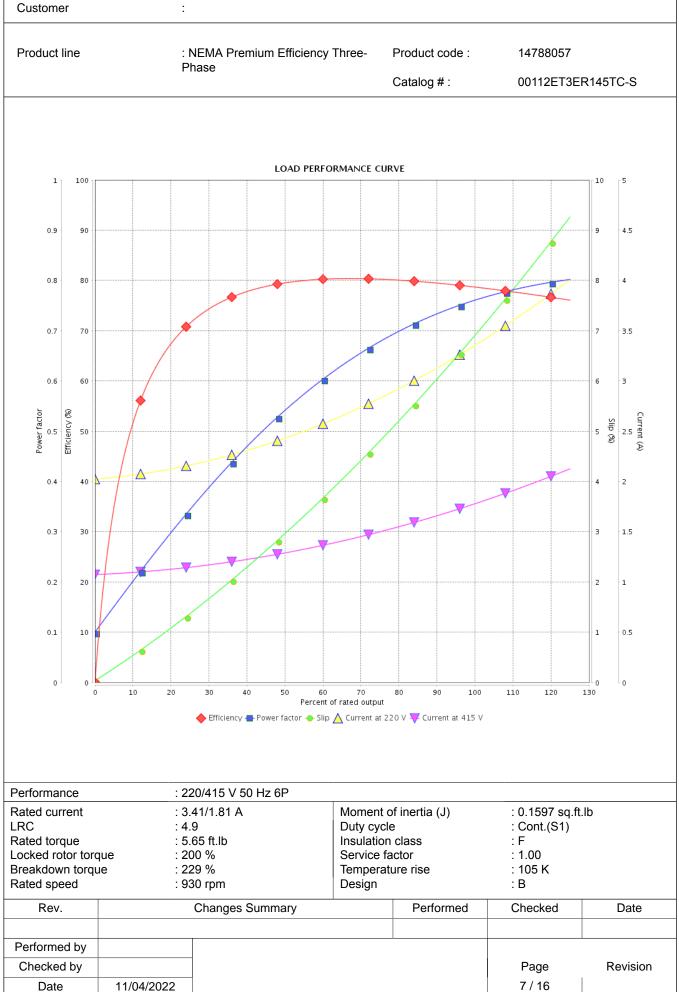


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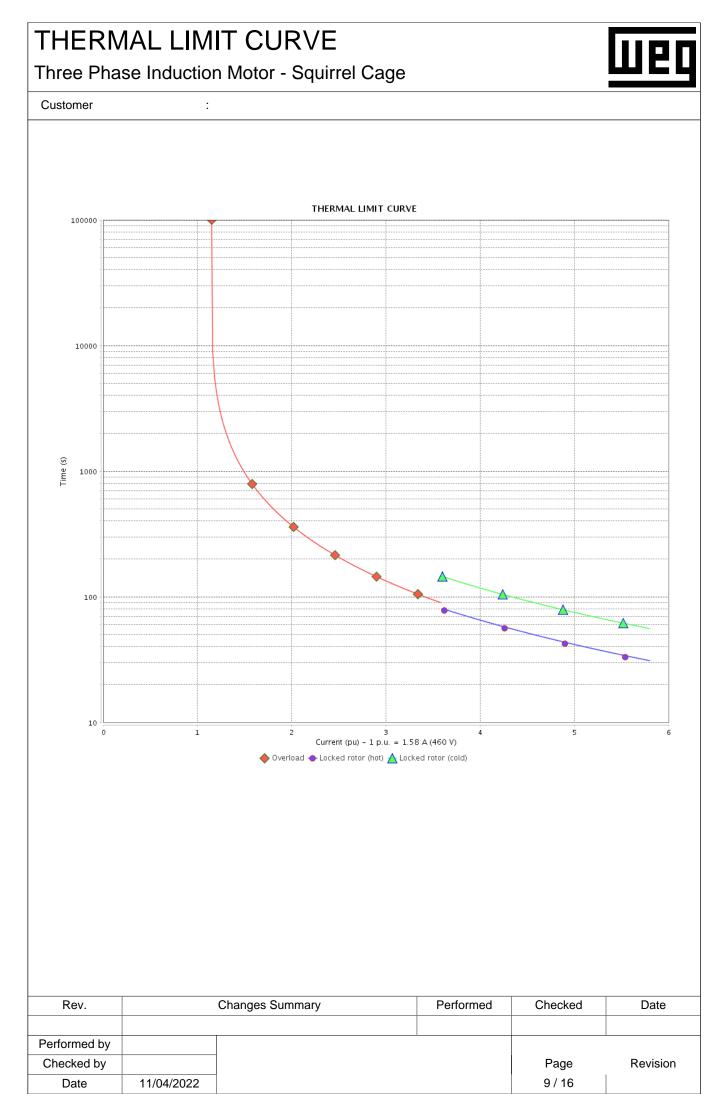
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THERMAL LIMIT CURVE						
Three Phase Induction Motor - Squirrel Cage						
Customer :						
Product line : NEMA Premium Efficiency Three- Product code : 14788057 Phase						

Catalog # :

00112ET3ER145TC-S

Parformanco	· 220/460 \/ 60 Hz 6D			
	: 230/460 V 60 Hz 6P	Moment of inertia (1)	- 0 1597 sq ff	lb.
Rated current	: 3.16/1.58 A : 5.8	Moment of inertia (J) Duty cycle	: 0.1597 sq.ft : Cont.(S1)	.lb
Performance Rated current RC Rated torque	: 3.16/1.58 A : 5.8 : 4.59 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	.lb
Rated current RC Rated torque ocked rotor torque	: 3.16/1.58 A : 5.8 : 4.59 ft.lb : 229 %	Duty cycle Insulation class Service factor	: Cont.(S1) : F :	.lb
Rated current RC Rated torque ocked rotor torque Breakdown torque	: 3.16/1.58 A : 5.8 : 4.59 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	.lb
Rated current RC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.16/1.58 A : 5.8 : 4.59 ft.lb : 229 % : 280 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : : 80 K	.lb
Rated current RC Rated torque ocked rotor torque Breakdown torque	: 3.16/1.58 A : 5.8 : 4.59 ft.lb : 229 % : 280 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : : 80 K	.lb
tated current RC ated torque ocked rotor torque breakdown torque tated speed	: 3.16/1.58 A : 5.8 : 4.59 ft.lb : 229 % : 280 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : : 80 K	.lb Date
Rated current RC Rated torque ocked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 3.16/1.58 A : 5.8 : 4.59 ft.lb : 229 % : 280 % : 1145 rpm	Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) : F : 80 K : B	
Rated current RC Rceted torque ocked rotor torque Breakdown torque Rated speed leating constant Cooling constant	: 3.16/1.58 A : 5.8 : 4.59 ft.lb : 229 % : 280 % : 1145 rpm	Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) : F : 80 K : B	



THERMAL LIMIT CURVE							
Three Phase Induct	tion Motor - Squirrel Cage						
Customer :							
Product line : NEMA Premium Efficiency Three- Product code : 14788057							

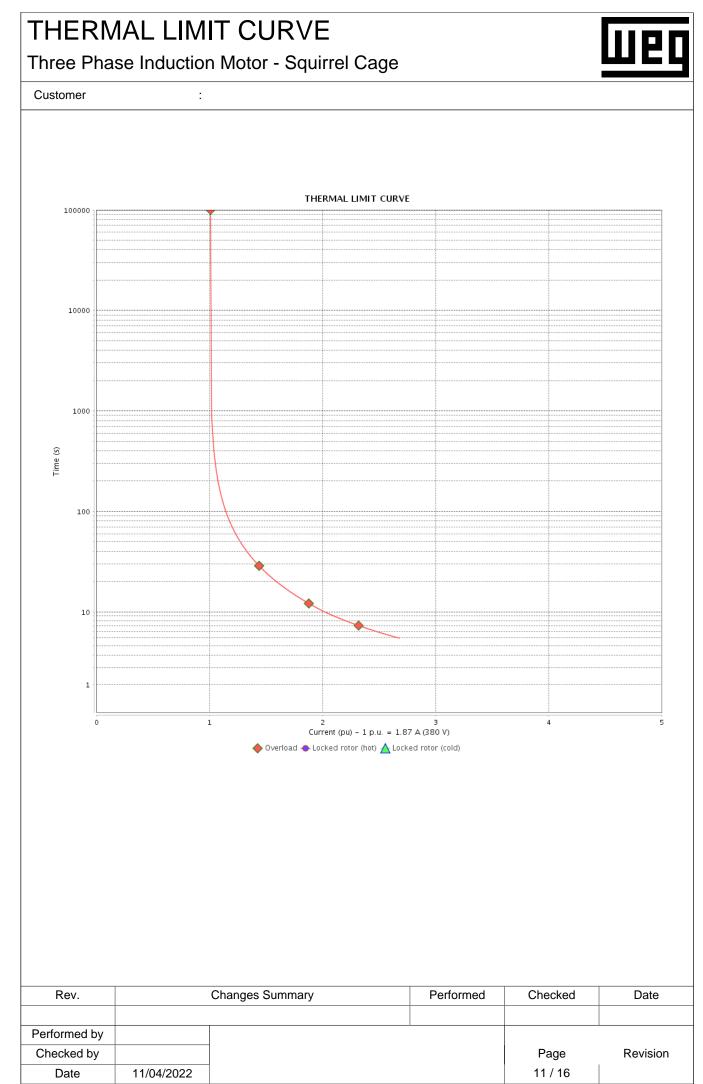
Catalog # :

Phase

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00112ET3ER145TC-S

Performance	:	190/380 V 50 Hz 6P					
Rated current	=	3.74/1.87 A	Moment of inertia (J)			: 0.1597 sq.ft.lb	
LRC Rated torque	=	4.4 5.74 ft.lb	Duty cycle : Cont.(S1) Insulation class : F				
Locked rotor torqu		170 %	Service factor : 1.00				
Breakdown torque		200 %	Temperature rise : 105 K				
Rated speed : 915 rpm		915 rpm	Design : B				
Heating constant							
Cooling constant							
Rev.		Changes Summary	l	Performed	Checked	Date	
Performed by							
Checked by				Page	Revision		
Date 11/04/2022				10 / 16			
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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer		,				
Product line : NEMA Premium Efficiency Three- Product code : 14788057						

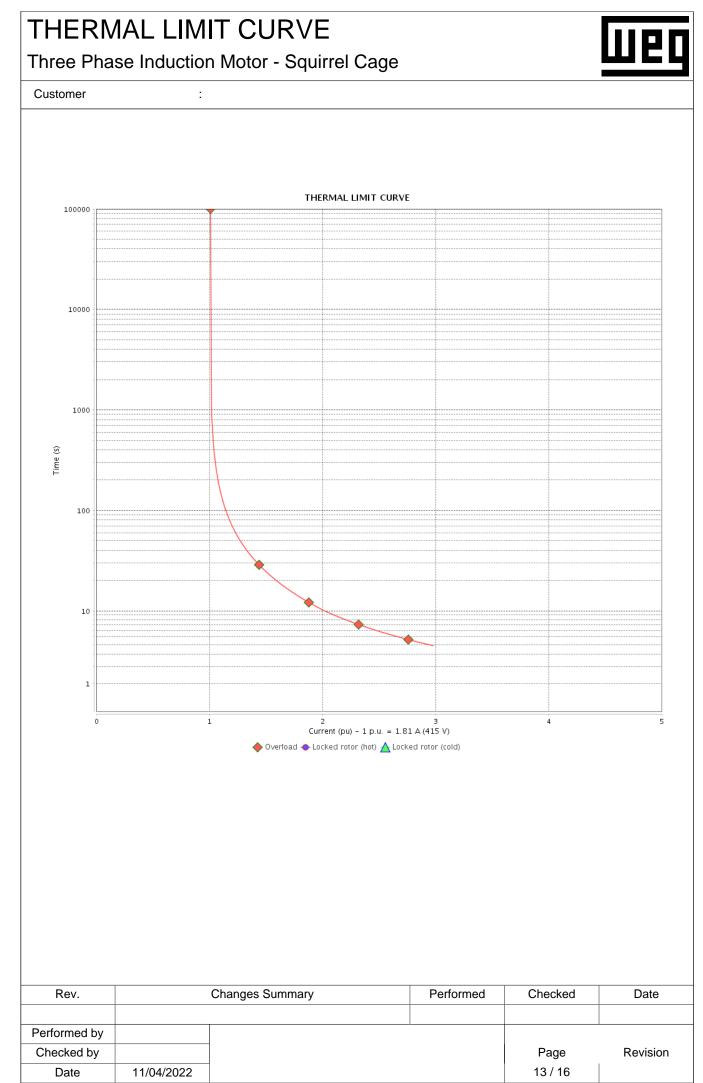
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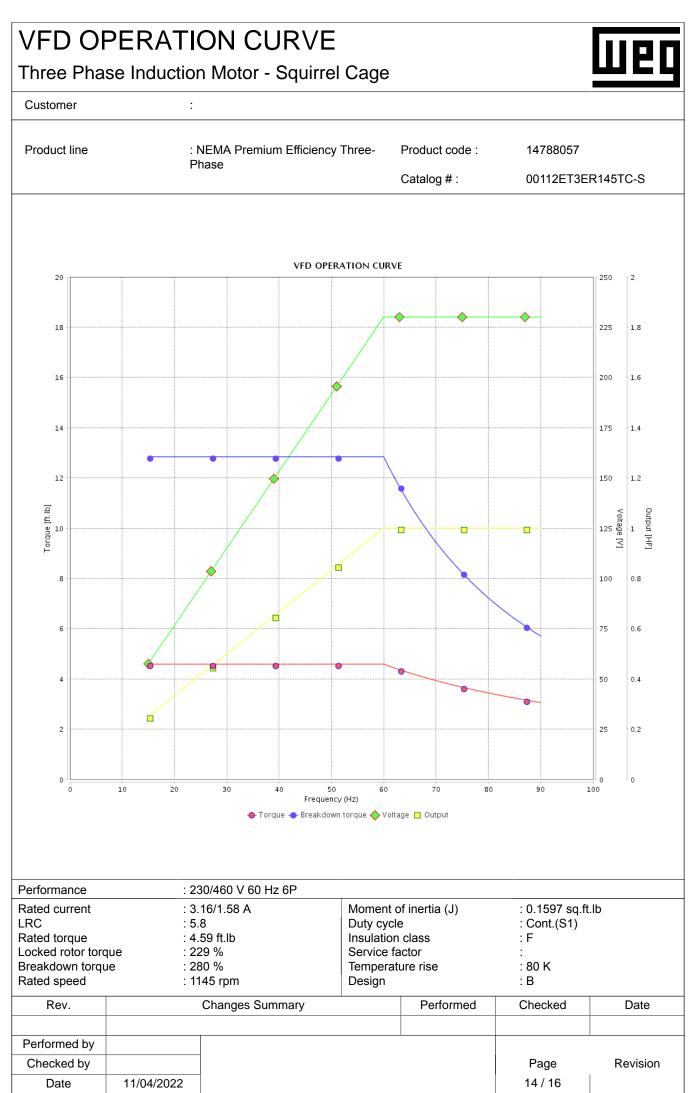
Phase

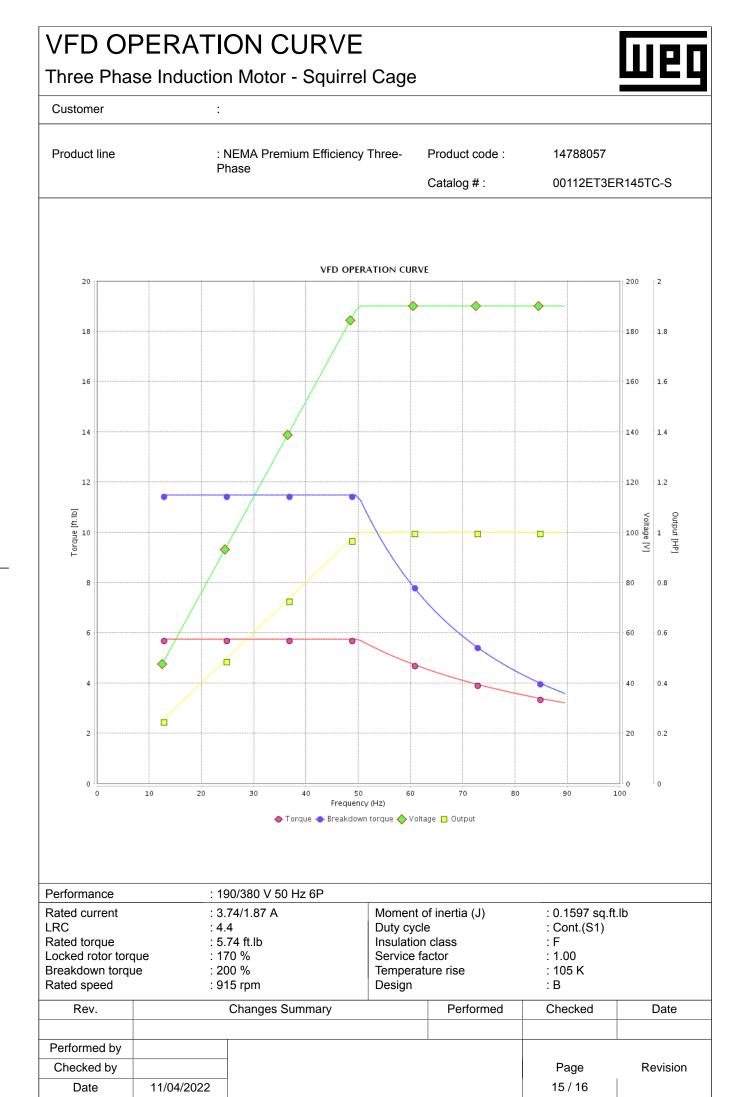
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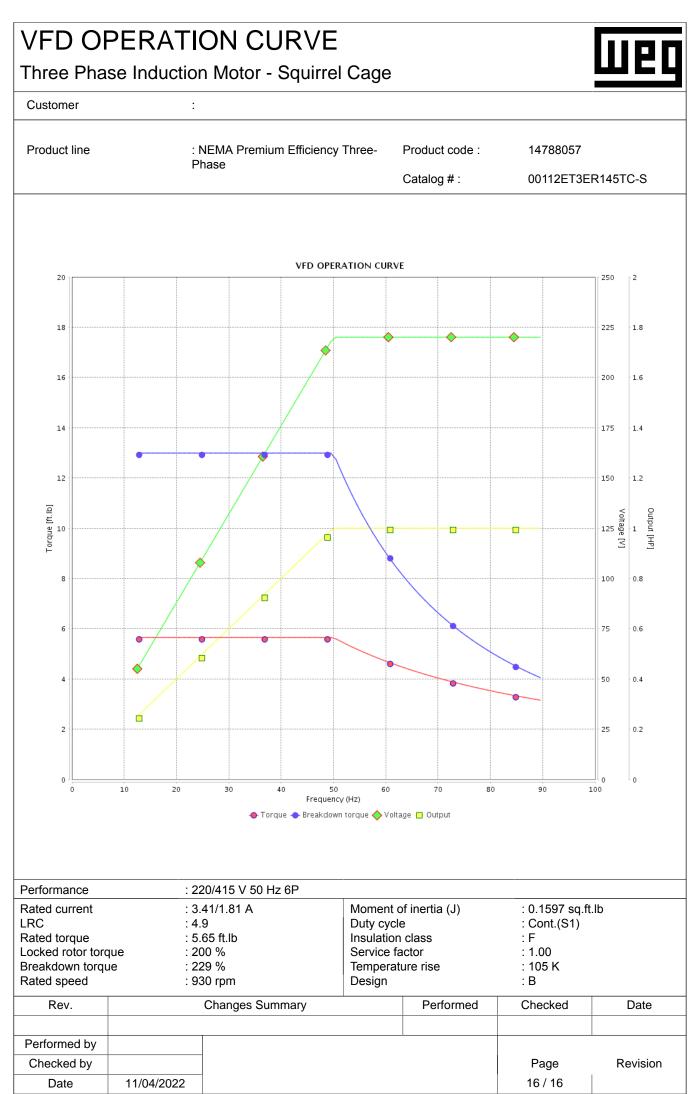
00112ET3ER145TC-S

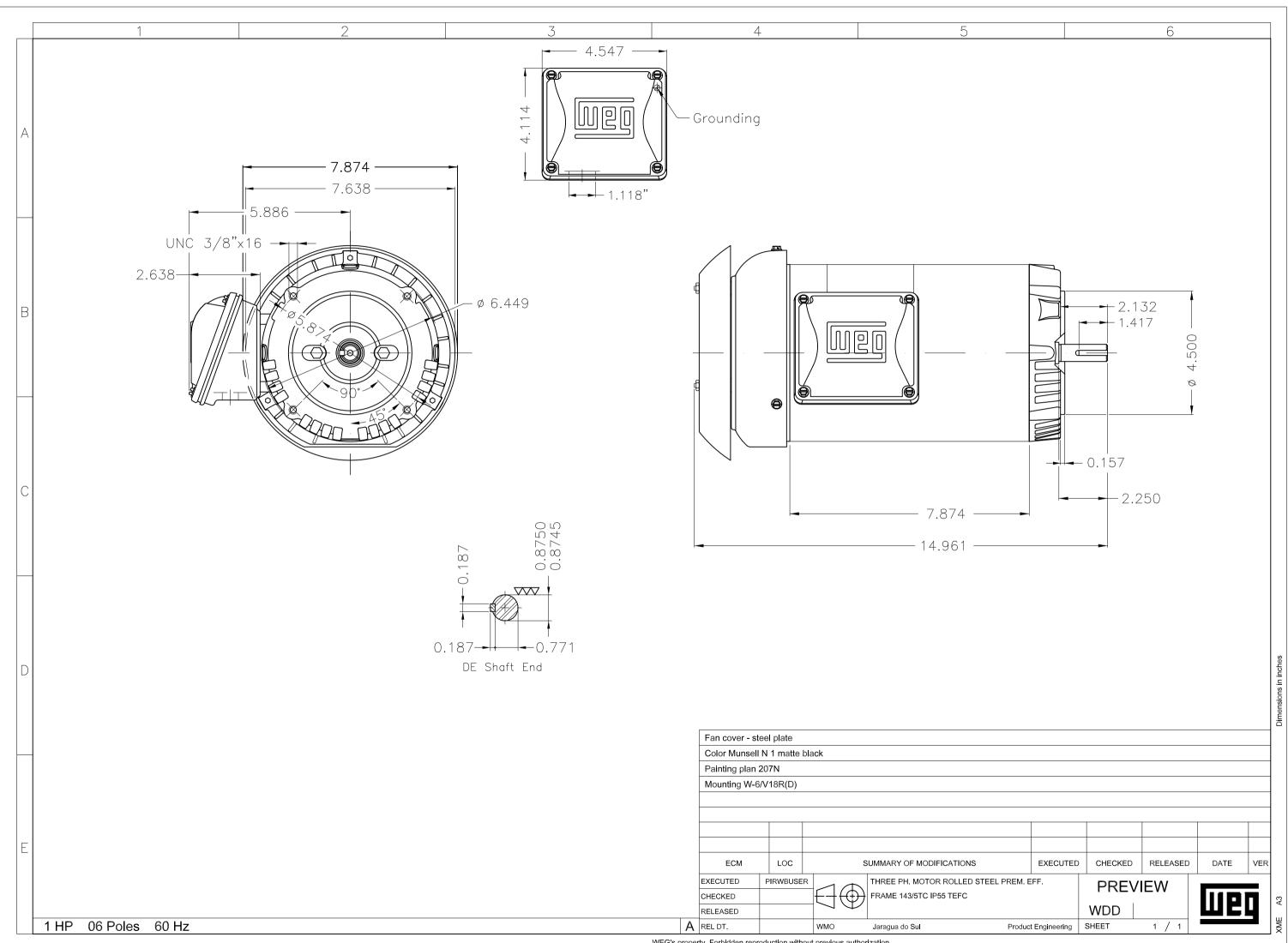
Performance	: 22	20/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 4. : 5. que : 20 ue : 22	41/1.81 A 9 65 ft.lb 00 % 29 % 30 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1597 sq.ft : Cont.(S1) : F : 1.00 : 105 K : B	lb
Heating constant						
Cooling constant						
Rev. Changes Summary		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	11/04/2022				12 / 16	











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CONTERNATION CONTRACTOR CONTRACTO	For 60H2: Class I, Zone 2, IIC Class I, DIV.2, Gr. A,B,C,D - T3 DIN 2 Inverter Duty (5F1.00) DIN 2 Inverter Duty (5F1.00):	3 1 ± 50	EDTATION Control Co
-C R	ş	HP 115 HP 175 A 3.16/1.58 SF 3.63/1.42 SF 1.15 SF 1.	INTERCIMANGE ANY TWO LUE WIRES TO EXCHERE THE EXCITATION INTERCIMANGE ANY TWO LUE WIRES TO EXCITE THE EXCITATION WARNING. Mactor must be grounded in accordance with local and antional electrical costs to prevent serious electrical and/on. Disconnect power source before servicing until Any Control and the service power to account of the anti- onation and the service power to account of the anti- table device prave. Deconnector Talmentation as an anti- able determined are codes destingue grave. Deconnector Talmentation and the anti- ble device prave. Deconnector Talmentation as and the anti- ble device prave. Deconnector Talmentation as and the anti- diance device prave. Deconnector Talmentation as and the anti- ble device prave. Deconnector Talmentation as and the anti- ble device prave. Deconnector Talmentation as and the anti- device device anti-
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	MADE IN MEXICO MAT: 14788057 CC029A W01:TE0IC0X0N W0DEL 00112ET3ER145TC-S 25MAR2022 B/N:	PPH 337 PAE 50 DUTY CONT. DUTY CONT. DUTY CONT. ALT 0000 m.a.s.l ALT T000 m.a.s.l MIS CLF CO ALD NBS CLF CO DE ALTERNATE RATING: 3.81.3.1.7.84.340.371.7.78 ALTERNATE RATING: ALTERNATE RATING: 3.84.3.301.3.7.7.84.340.371.7.78 AU ALTERNATE RATING: 3.84.3.301.57.7.78 AU ALTERNATE RATING: 3.84.3.301.7.78 AU ALTERNATE RATING: 3.84.3.301.7.78 AU ALTERNATE RATING: 3.84.3.7.78 AU ALTERNATE RATING: 3.84.301.7.78 AU ALTERNATE RATING: 3.84.301.7.778 AU	INTERCHAIN INTERCHAIN ANARNIN and and and and and and and and and and and