# DATA SHEET

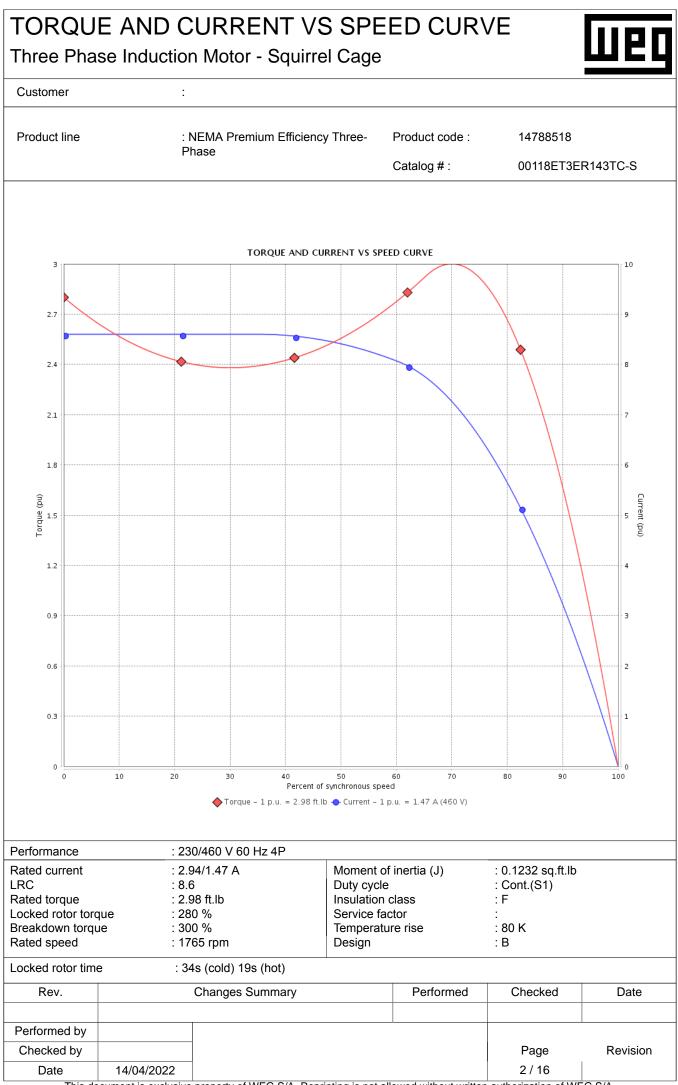
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Efficienc Phase	y Three- Product code :	14788518
		1 11030	Catalog # :	00118ET3ER143TC-S
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 143/5TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B	Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)	: IC411 - TEFC : W-6 : Both (CW and CCW) : Direct On Line : 38.1 lb : 0.1232 sq.ft.lb
Output [HP]		1	1	1
Poles		4	4	4
requency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		2.94/1.47	3.40/1.70	3.09/1.64
R. Amperes [A]		25.3/12.6	22.1/11.0	22.0/11.6
RC [A]		8.6x(Code M)	6.5x(Code J)	7.1x(Code K)
No load current [A	.]	1.78/0.890	1.76/0.879	1.77/0.938
Rated speed [RPN	Л]	1765	1450	1455
Slip [%]	-	1.94	3.33	3.00
Rated torque [ft.lb]		2.98	3.62	3.61
ocked rotor torqu		280	200	220
Breakdown torque		300	270	300
Service factor			1.15	1.15
emperature rise		80 K	80 K	80 K
ocked rotor time		34s (cold) 19s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)
loise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	81.0	82.5	81.2
Efficiency (%)	50%	82.5	82.2	81.5
Enclency (%)	75%	84.0	83.7	83.6
	100%	85.5	82.9	83.5
	25%	0.30	0.36	0.33
Power Factor	50%	0.52	0.62	0.58
	75%	0.66	0.74	0.71
	100%	0.75	0.81	0.79
Bearing type Sealing		Drive end : 6205 ZZ 6203 ZZ : V'Ring Withou Bearing S	Z Max. traction t Max. compression	: 75 lb : 113 lb
Lubrication interv Lubricant amoun Lubricant type		: : : Mobil Polyrex EM		
Notes USABLE @208V	3.25A SF 1.			
must be eliminate (1) Looking the m (2) Measured at 1	ed. otor from the Im and with t veight subject ocess.	ncel the previous one, which e shaft end. colerance of +3dB(A). ct to changes after		es based on tests with sinusoidal the tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. otor from the Im and with t veight subject ocess.	e shaft end. olerance of +3dB(A).	power supply, subject to	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. otor from the Im and with t veight subject ocess.	e shaft end. olerance of +3dB(A). ct to changes after	power supply, subject to MG-1.	o the 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	ed. otor from the Im and with t veight subject ocess.	changes Summary	power supply, subject to MG-1.	o the tolerances stipulated in NEMA



### TORQUE AND CURRENT VS SPEED CURVE

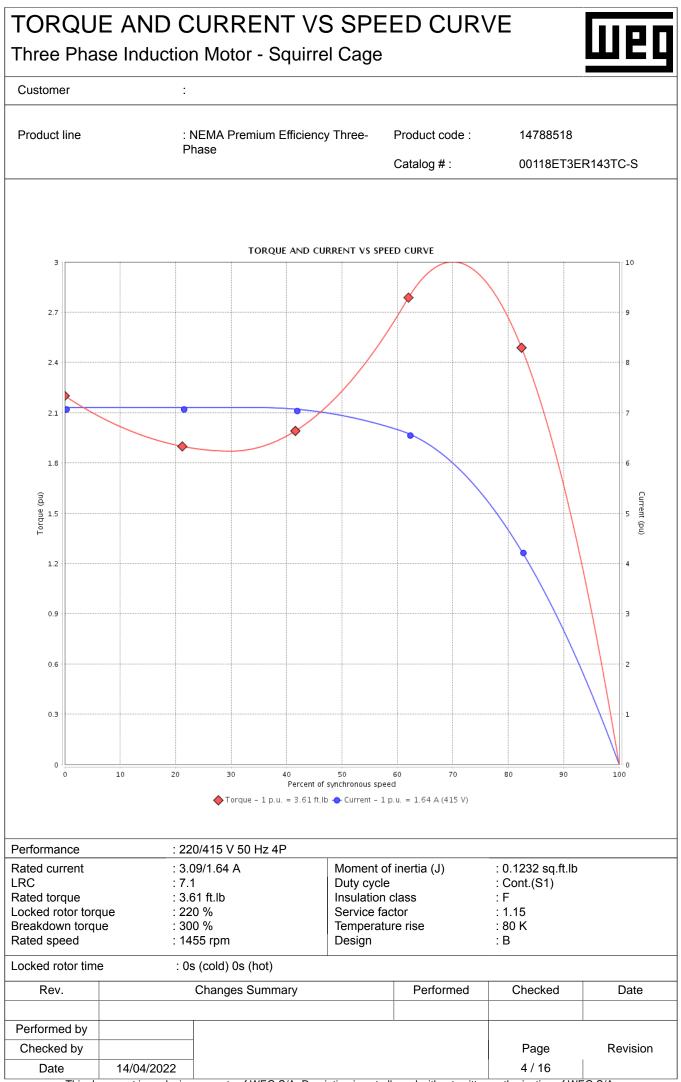
Three Phase Induction Motor - Squirrel Cage

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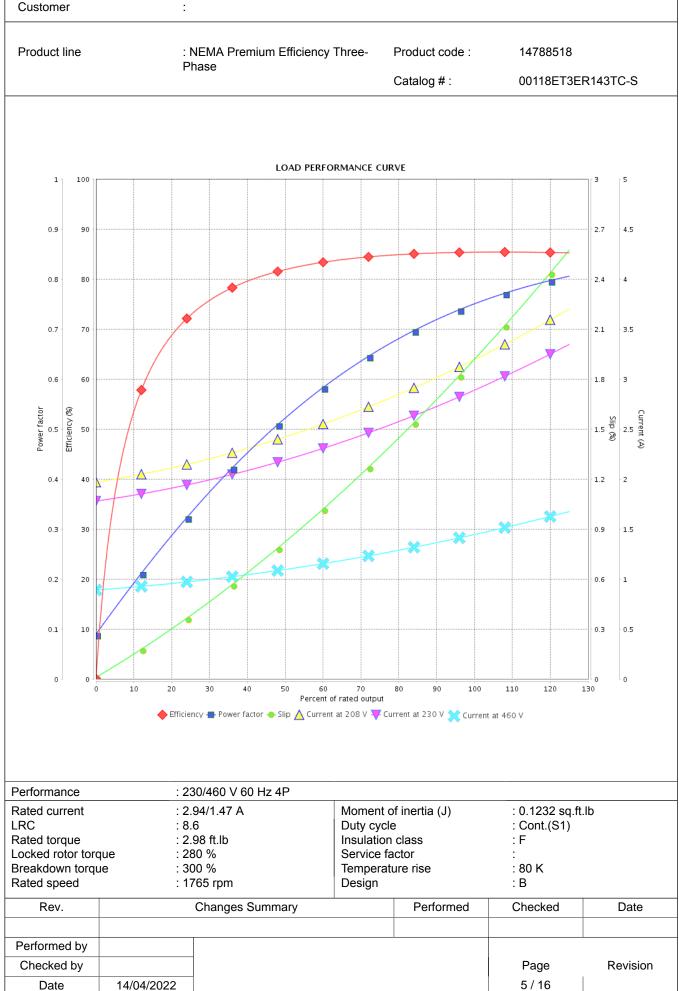
Product line		: NEMA Premium Efficiency	Three-	Product code :	14788518	
		Phase		Catalog # :	00118ET3ER143TC-S	
		TORQUE AND CU	RENT VS SPE	ED CURVE		
3						10
2.7						9
2.4				<b>*</b>		8
2.1						7
		•				
1.8						6
înd						Cun
(nd) en 1.5 E						Current (pu)
1.2					•	4
0.9						
0.6						2
0.3						1
0	10 20		50 synchronous spee	60 70	80 90	100
		Torque - 1 p.u. = 3.62 ft.lb				
erformance ated current		190/380 V 50 Hz 4P 3.40/1.70 A	Moment o	f inertia (J)	: 0.1232 sq.ft.lb	
RC	:	6.5 3.62 ft.lb	Duty cycle		: Cont.(S1) : F	
ated torque ocked rotor torque	e :	200 %	Service fa	ctor	: 1.15	
reakdown torque ated speed		270 % 1450 rpm	Temperatu Design	ire rise	: 80 K : B	
ocked rotor time	:	: 0s (cold) 0s (hot)				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		—			Page	Revision
Date	14/04/2022				3/16	



# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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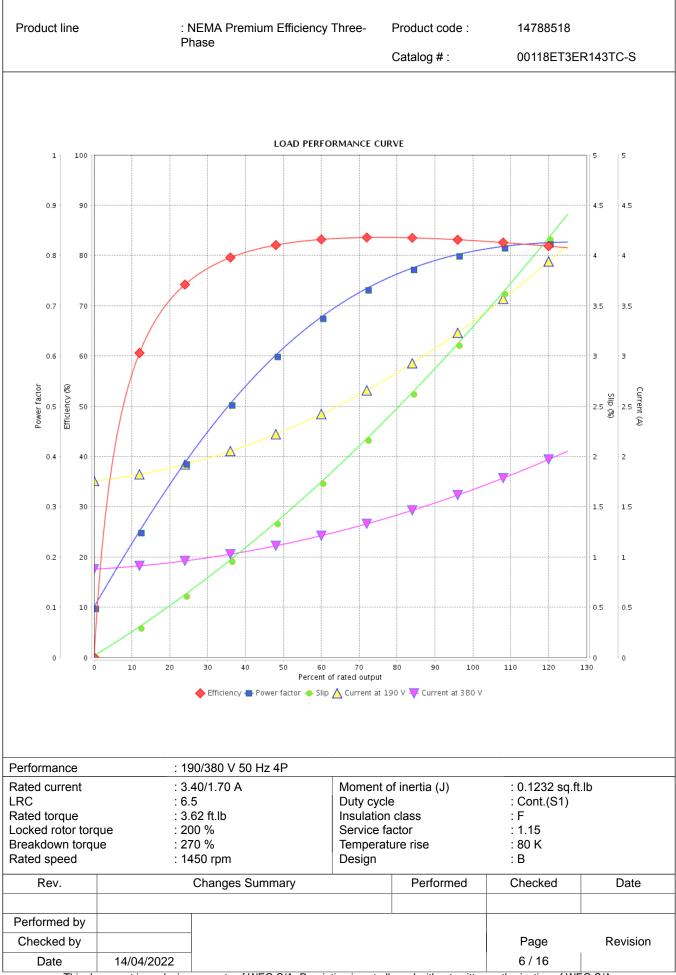
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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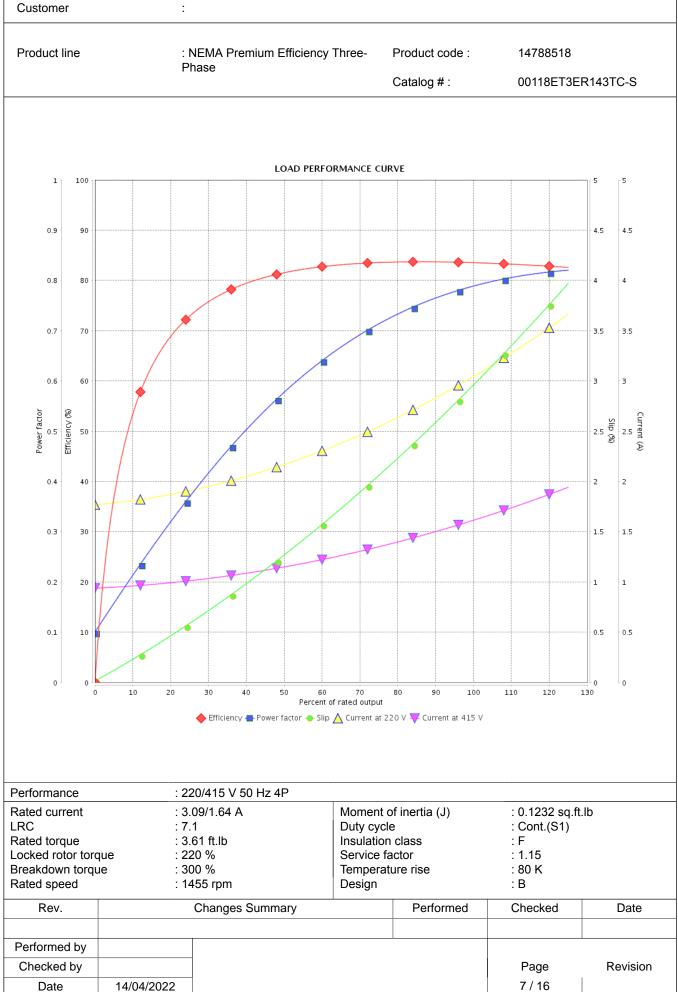
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

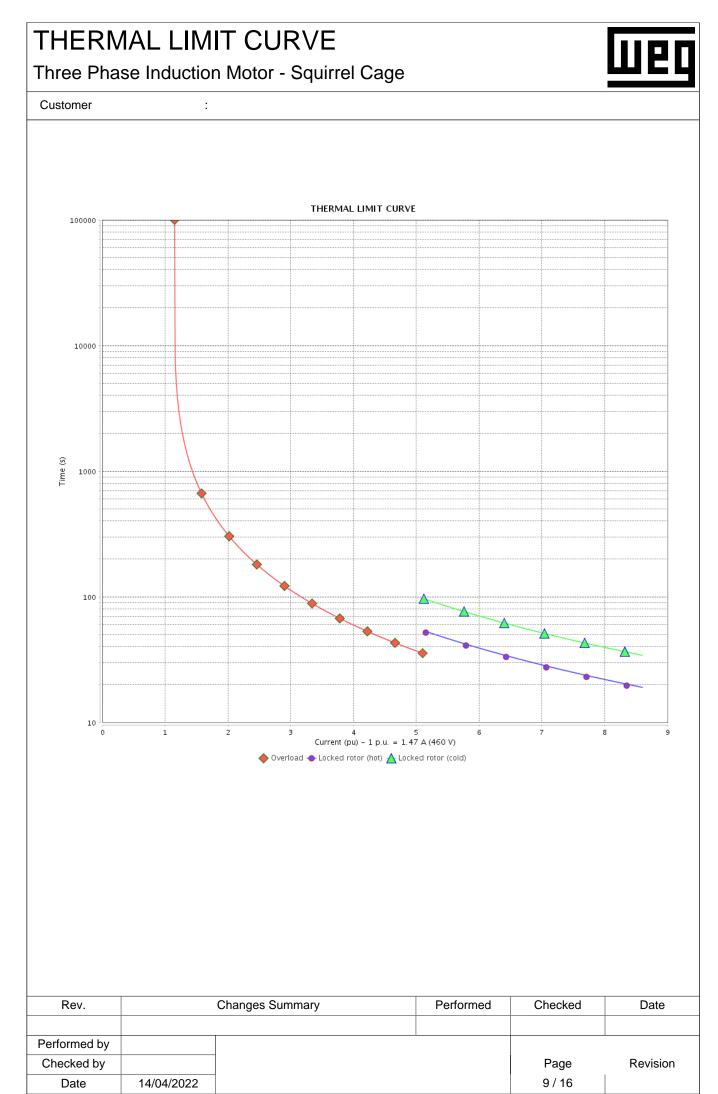
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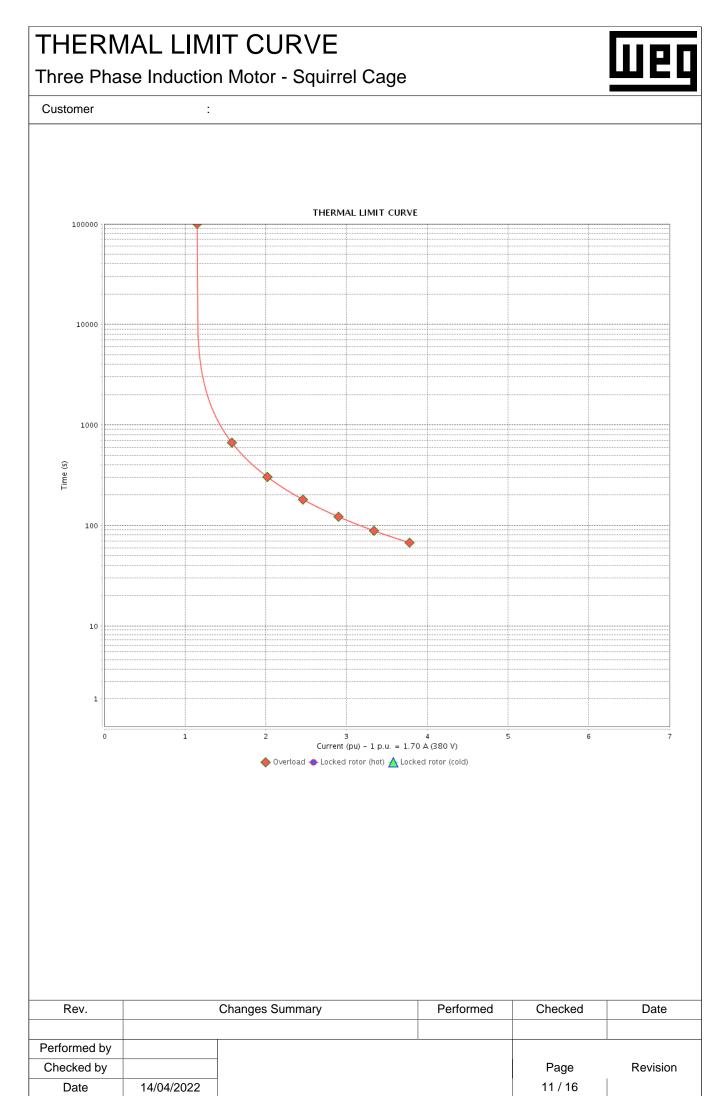
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L

Performance	: 23	230/460 V 60 Hz 4P					
Rated current	: 2.	: 2.94/1.47 A		Moment of inertia (J)		: 0.1232 sq.ft.lb	
LRC	: 8.	.6	Duty cycle	. ,	: Cont.(S1)		
Rated torque	: 2.	.98 ft.lb	Insulation	class	: F		
Locked rotor tore	que : 28	80 %	Service fa	ctor	:		
Breakdown torqu	ue : 30	00 %	Temperatu	ure rise	: 80 K		
Rated speed	: 1	765 rpm	Design		: B		
Heating constant							
Cooling constant	t						
Rev.	Rev. Changes Summary			Performed	Checked	Date	
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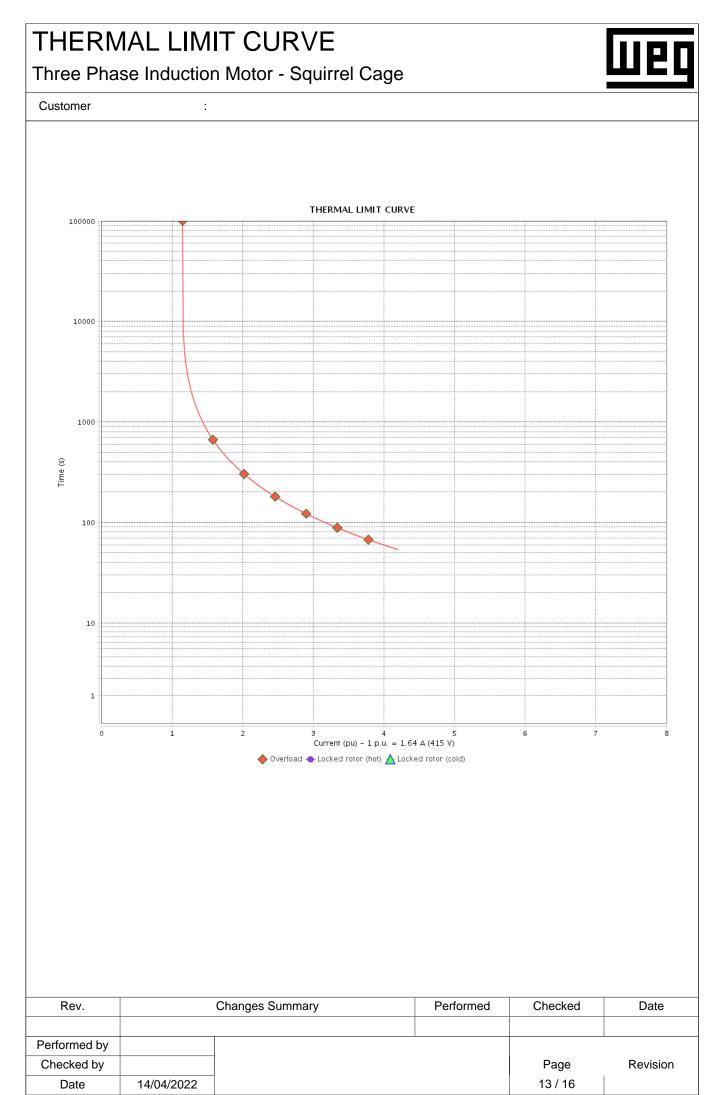
THERMAL	Web		
Three Phase Inc	duction Motor - Squirrel Cage	)	шеч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14788518
		Catalog # :	00118ET3ER143TC-S

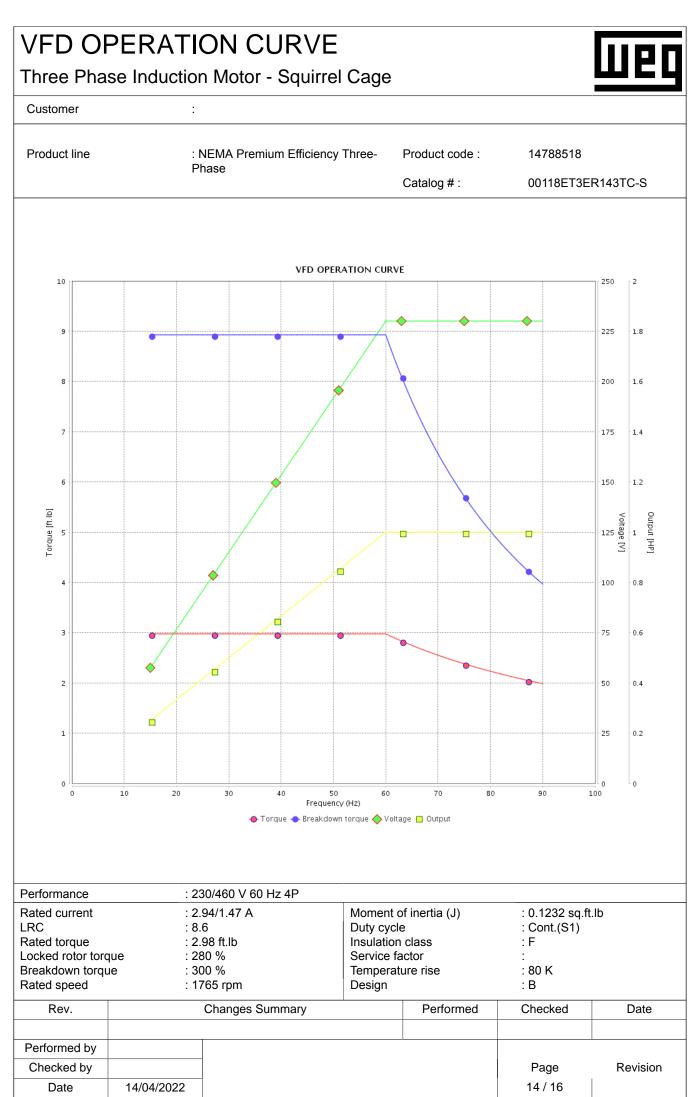
Performance	: 1	90/380 V 50 Hz 4P				
LRC: 6.5Rated torque: 3.62Locked rotor torque: 200Breakdown torque: 270		6.62 ft.lb 00 % 70 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1232 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed		1450 rpm Design			: B	
Heating constant	I					
Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
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Checked by					Page	Revision
Date	14/04/2022				10 / 16	
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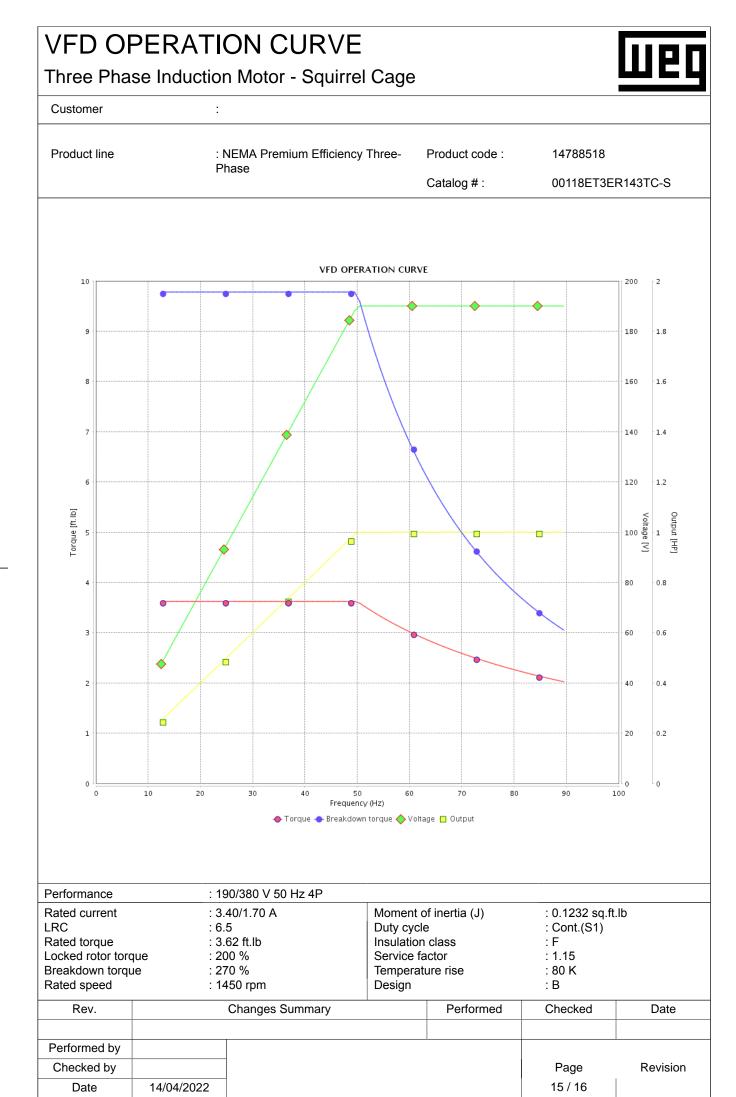


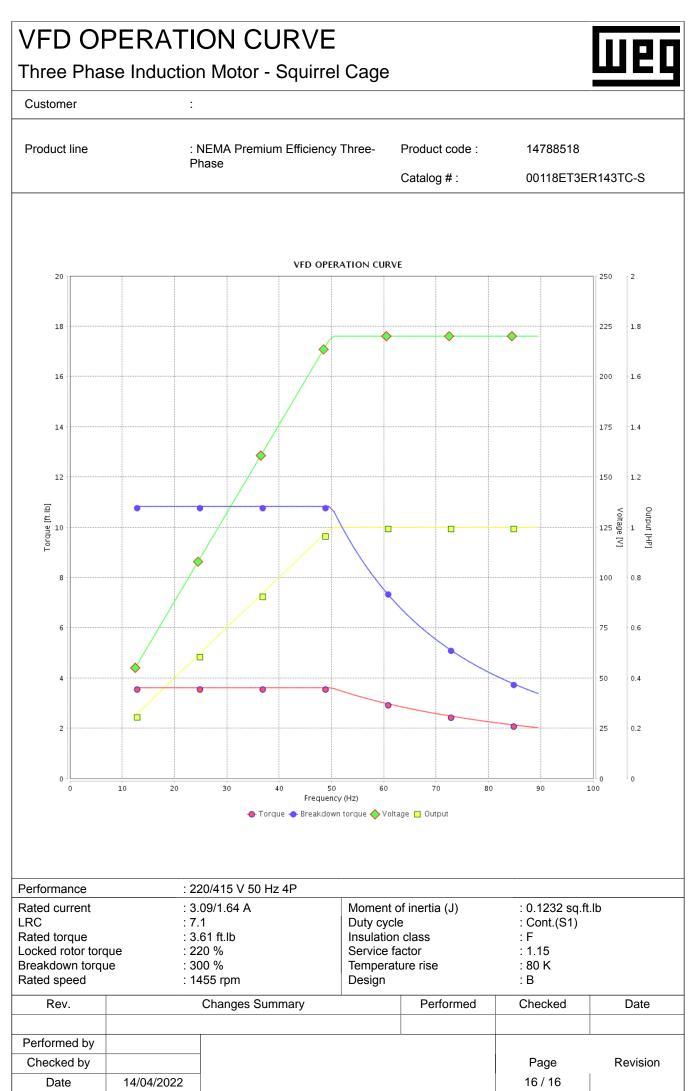
THERMAL	LIMIT CURVE		luon
Three Phase Ind	uction Motor - Squirrel Cage	)	шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14788518
	Thuse	Catalog # :	00118ET3ER143TC-S

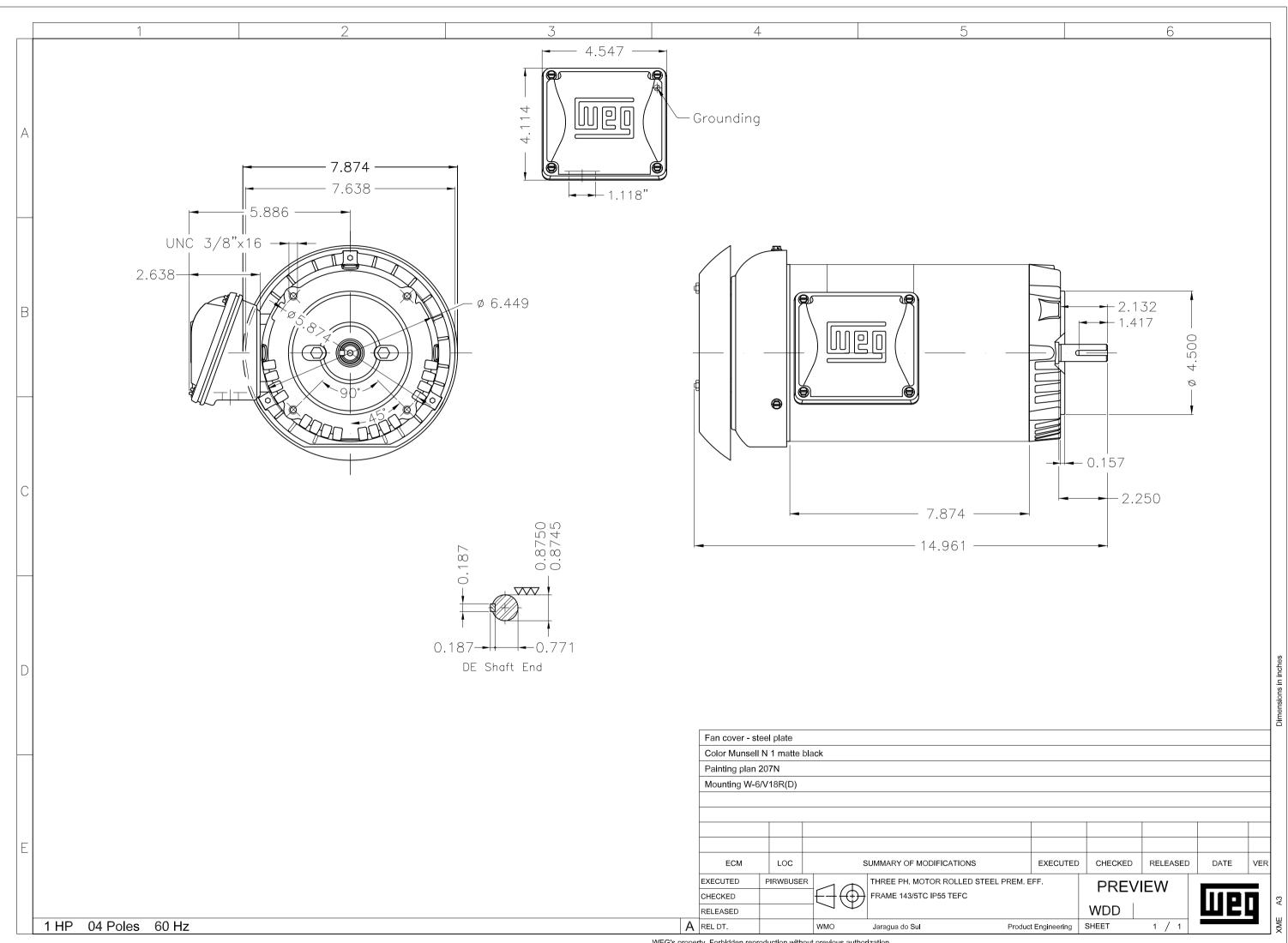
Performance		220/415 V 50 Hz 4P				
Rated current: 3.09/1.64 ALRC: 7.1Rated torque: 3.61 ft.lbLocked rotor torque: 220 %Breakdown torque: 300 %Rated speed: 1455 rpm		: 7.1 : 3.61 ft.lb : 220 % : 300 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1232 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
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Checked by					Page	Revision
Date	14/04/2022	2			12/16	











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CONTERNATION CONTRACTOR CONTRACTO	For 60H2: Class I, Zone 2, IIC Class I, DIV2, Gt. A,B,C,D - T3 DIV 2 Inverter Duty (5F1.00) CT 2:1/VT 1000:1	3 1 ± 50 1 ± 10	E ROTATION as verticeal rotating unit.
-C R	ş	HP 115 HP 175 F 230(460 A 239(147) F 239(147) F 239(146) F 115 F 115 F 115 F 115 F 115 F 115 F 115 F 115 F 15 F 15	INTERCIANCE ANY TWO LINE WREES TO REVERSE THE ROTATION MARNING, MORE IN A SCHOOL AND A SCHOOL AN
	MADE IN MEXICO MAT: 14788518 CC029A WO1.TE0ICOXON MODEL 00118ET3E143TC-S 18MAR2022 BIN:	Hz 80   a.s.1 PE5   A. A PE5	AGE ANY TWO LINE WGE ANY TWO LINE national electrical er ocks. Disconnect po AVERTISSEMENT: codes électriques ( tve. Déconnectez <sup>[</sup> a]
	MADE IN MÉXICO MAT: 14788518 W01.TE0IC0X0N MODEL 00118E1 18MAR2022 B	PPH 3 PAE 50   DUTY CONT ALT 000 m.a.s.l   ALT 000 m.a.s.l ALT 000 m.a.s.l   ALT 000 m.a.s.l ALT 000 m.a.s.l   ALL 000 m.a.s.l ALT 000 m.a.s.l   ALLERNATE RATING: 2081 3.354 2010 f.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g.g	INTERCHAI WARNIN and sh. conformément aux chos électrique gra