# DATA SHEET

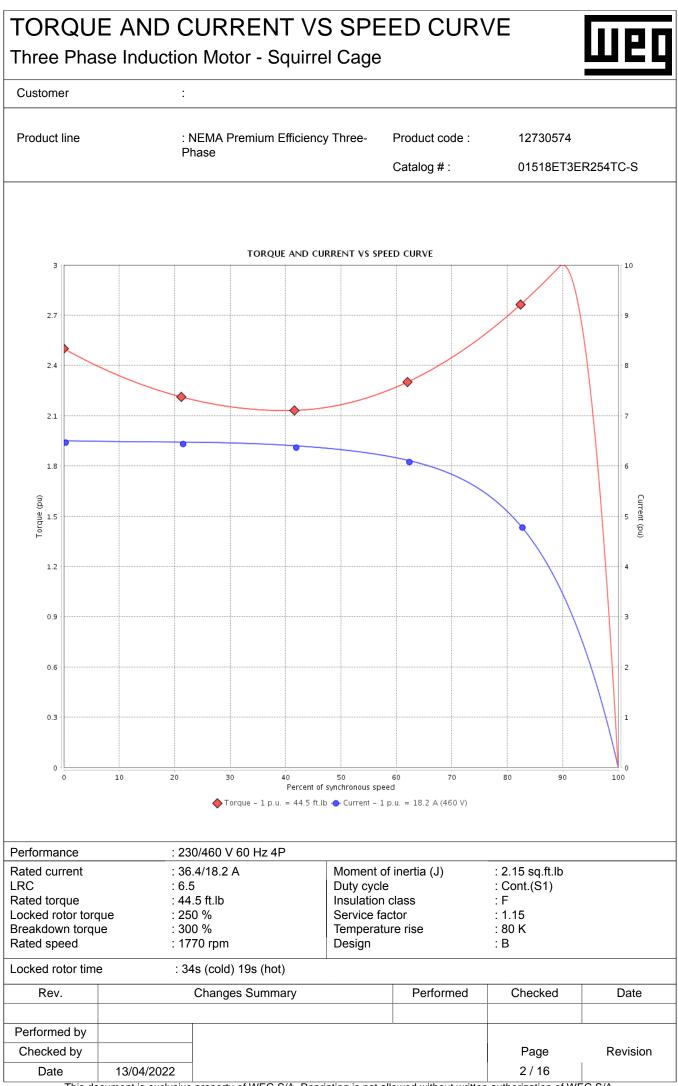
Three Phase Induction Motor - Squirrel Cage

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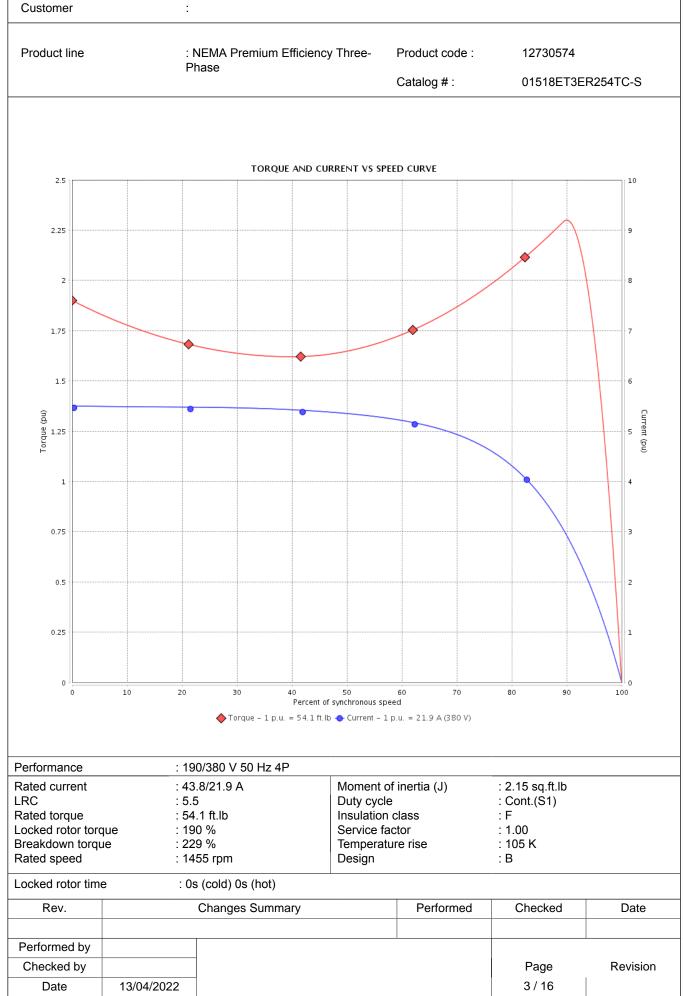
#### Customer

Product line		: NEMA Premium Efficiency <sup>-</sup> Phase	Three- Product code :	12730574
1 112		Fildse	Catalog # :	01518ET3ER254TC-S
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 254/6TC : 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 : F-1 : Both (CW and CCW) : Direct On Line : 225 lb : 2.15 sq.ft.lb
Output [HP]		15	15	15
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		36.4/18.2	43.8/21.9	39.4/20.9
R. Amperes [A]		237/118	241/120	240/127
.RC [A]		6.5x(Code G)	5.5x(Code F)	6.1x(Code G)
lo load current [A		17.3/8.65	17.1/8.53	17.5/9.28
Rated speed [RPN	Л]	1770	1455	1460
Slip [%]		1.67	3.00	2.67
Rated torque [ft.lb]		44.5	54.1	54.0
ocked rotor torqu		250	190	210
Breakdown torque	e [%]	300	229	260
Service factor		1.15	1.00	1.00
emperature rise		80 K	105 K	105 K
Locked rotor time		34s (cold) 19s (hot)	0s (cold) 0s (hot)	Os (cold) Os (hot)
loise level <sup>2</sup>		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	90.8	92.5	91.9
	50%	91.0	91.5	91.2
	75%	92.4	91.2	91.4
	100%	92.4	89.9	90.4
	25%	0.39	0.45	0.41
Power Factor	50%	0.64	0.71	0.67
	75%	0.76	0.81	0.78
	100%	0.82	0.85	0.84
Bearing type:Drive end 6309 Z C3Non drive end 6208 Z C3Foundation loads Max. traction Max. compressionSealing:V'RingWithoutMax. compression		: 560 lb : 785 lb		
Lubrication interval Lubricant amount Lubricant type		Bearing Sea : 20000 h 20000 h : 13 g 8 g : Mobil Polyrex EM		
Notes USABLE @208V	40.2A SF 1.		1	
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		based on tests with sinusoidal ne tolerances stipulated in NEMA
Rev.		Changes Summary	Performed	Checked Date
Performed by				
Performed by Checked by Date	13/04/2023			Page Revision

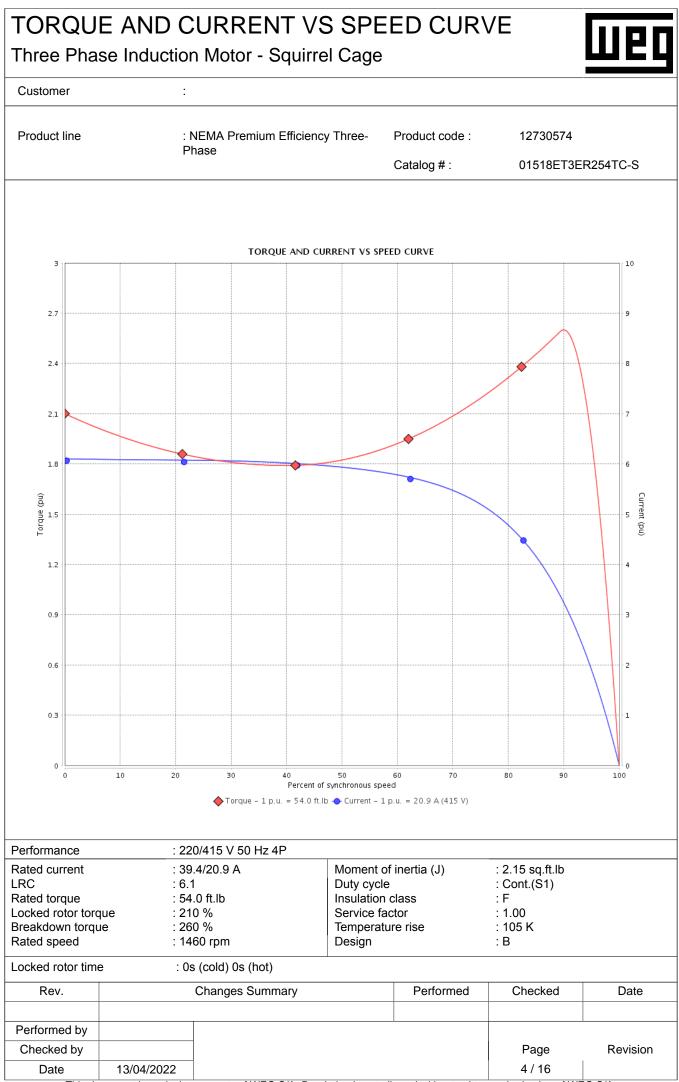


### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



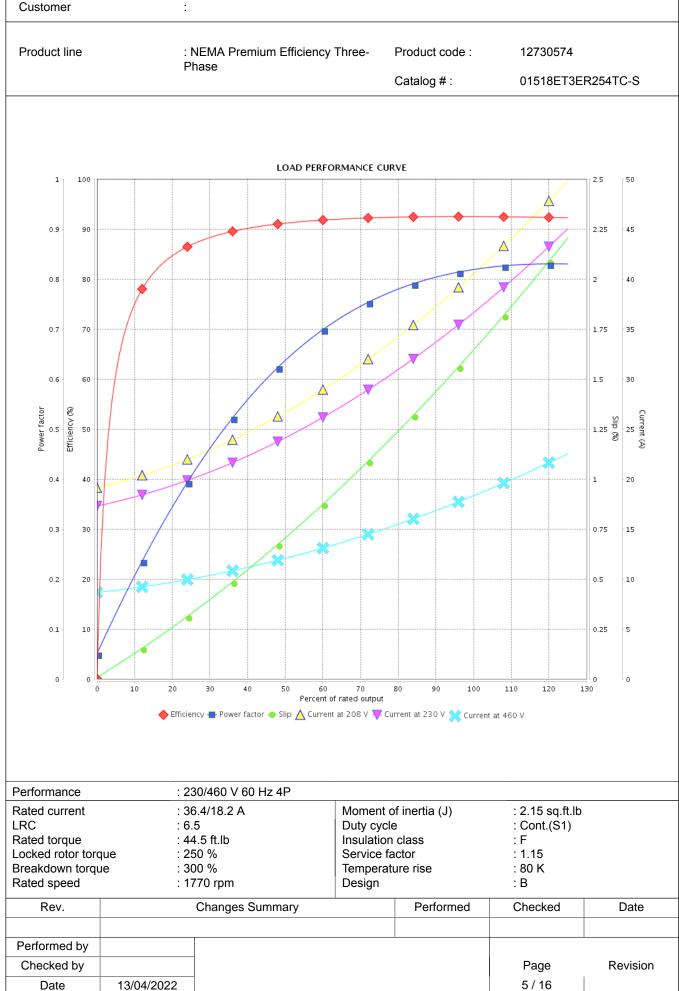
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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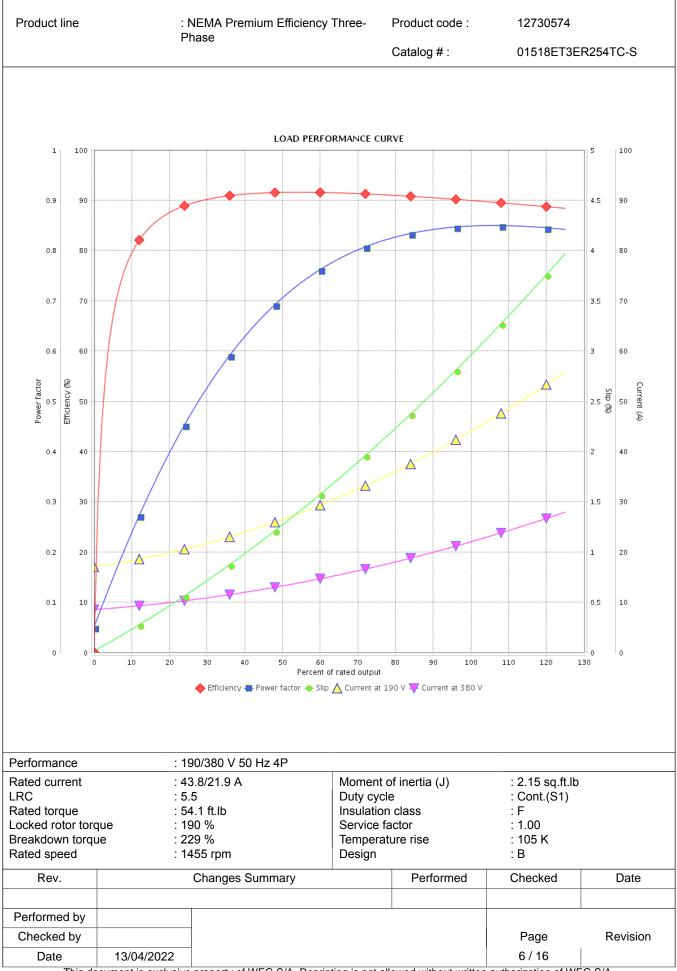
## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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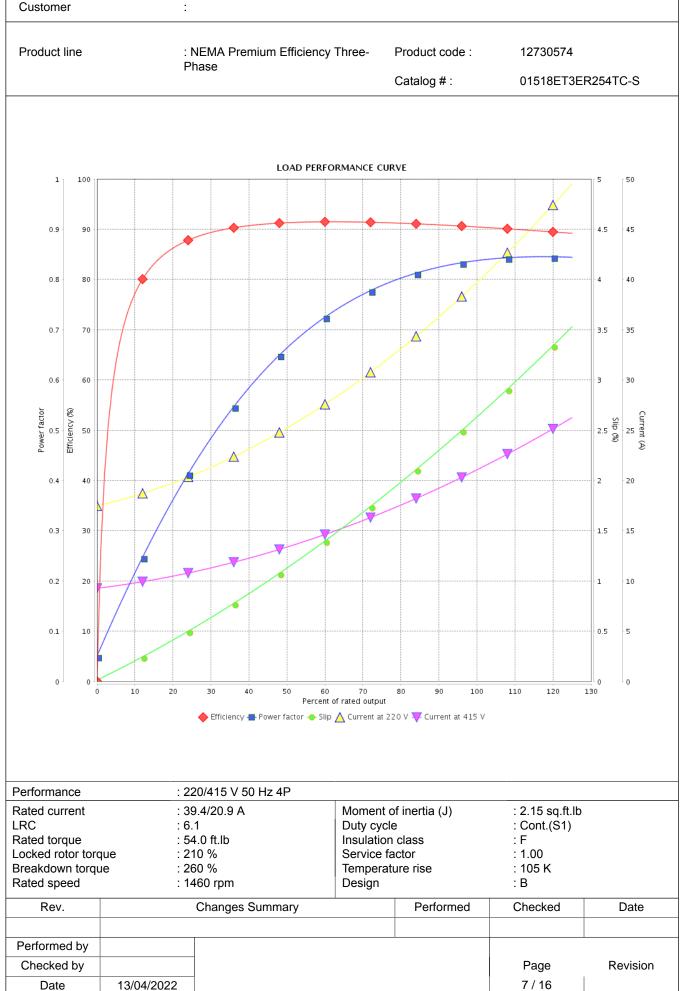
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

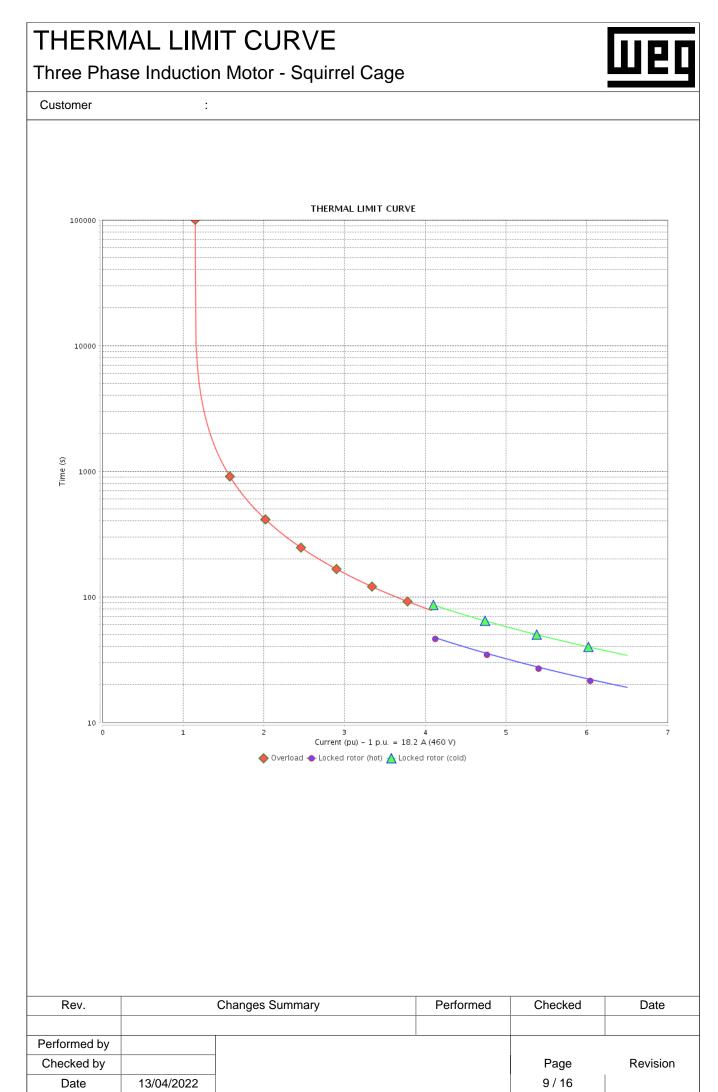
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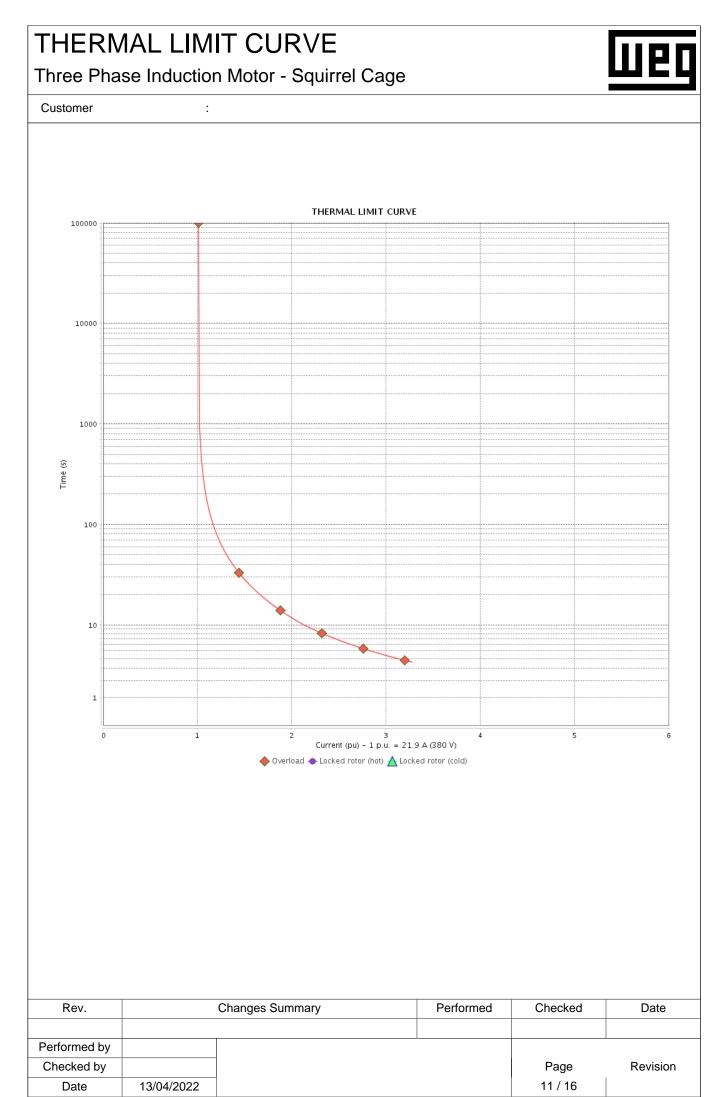
Customer	:	)	
Product line	: NEMA Premium Efficiency Three-	Product code :	12730574
	Phase	Catalog # :	01518ET3ER254TC-S

: 2	230/460 V 60 Hz 4P				
Rated current : 36.4/18.2 A		Moment of inertia (J)		: 2.15 sq.ft.lb	
LRC : 6.5		Duty cycle		: Cont.(S1)	
Rated torgue : 44.5 ft.lb		Insulation	class	:F	
		Service fa	ctor	: 1.15	
Breakdown torque : 300 %		Temperati	ure rise	: 80 K	
: 1	770 rpm	Design		: B	
t					
t					
	Changes Summary		Performed	Checked	Date
				Page	Revision
13/04/2022				8 / 16	
	: 3 : 6 : 4 ue : 2 ue : 3 : 1 t t	: 6.5 : 44.5 ft.lb que : 250 % ue : 300 % : 1770 rpm t t t t 13/04/2022	: 36.4/18.2 A : 6.5 : 44.5 ft.lb ue : 250 % : 250 % Service fa Temperate Design t t Changes Summary 13/04/2022	: 36.4/18.2 A Moment of inertia (J)   : 6.5 : 44.5 ft.lb   : 250 % Insulation class   : 250 % Service factor   : 300 % Temperature rise   : 1770 rpm Design	: 36.4/18.2 A   Moment of inertia (J)   : 2.15 sq.ft.lb     : 6.5   Duty cycle   : Cont.(S1)     : 44.5 ft.lb   Insulation class   : F     oue   : 250 %   Service factor   : 1.15     oue   : 300 %   Temperature rise   : 80 K     : 1770 rpm   Design   : B     t   Changes Summary   Performed   Checked     Page   Page   Page



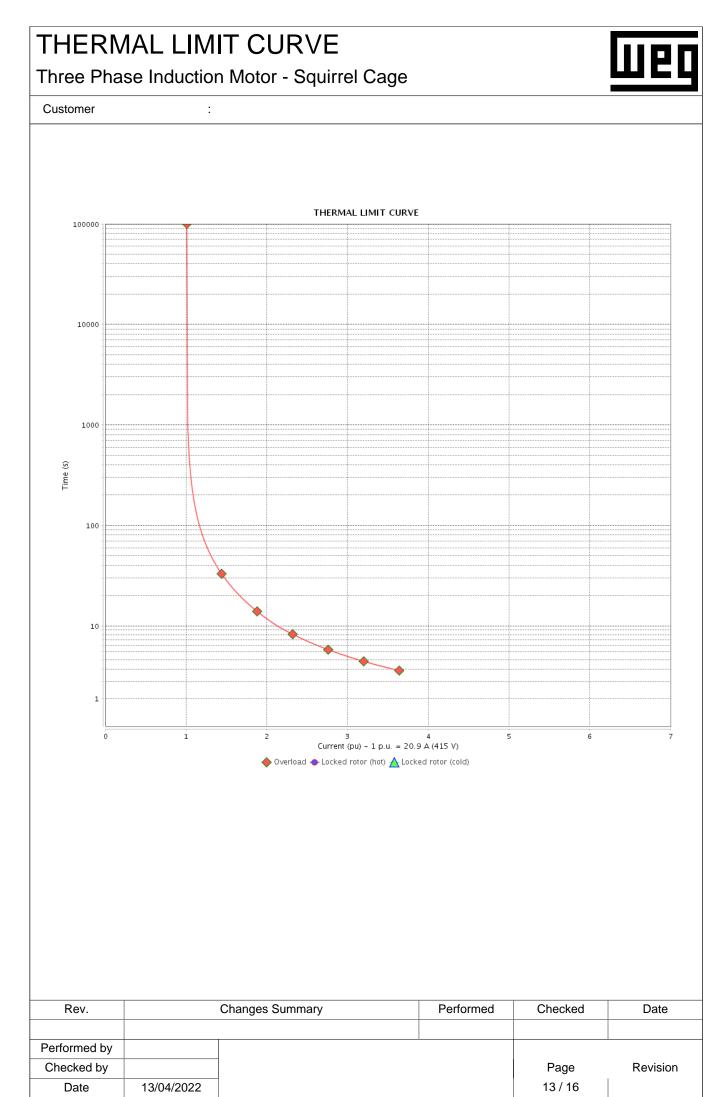
	LIMIT CURVE duction Motor - Squirrel Cage	9	Шед
Customer	:		
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	Phase	Catalog # :	01518ET3ER254TC-S

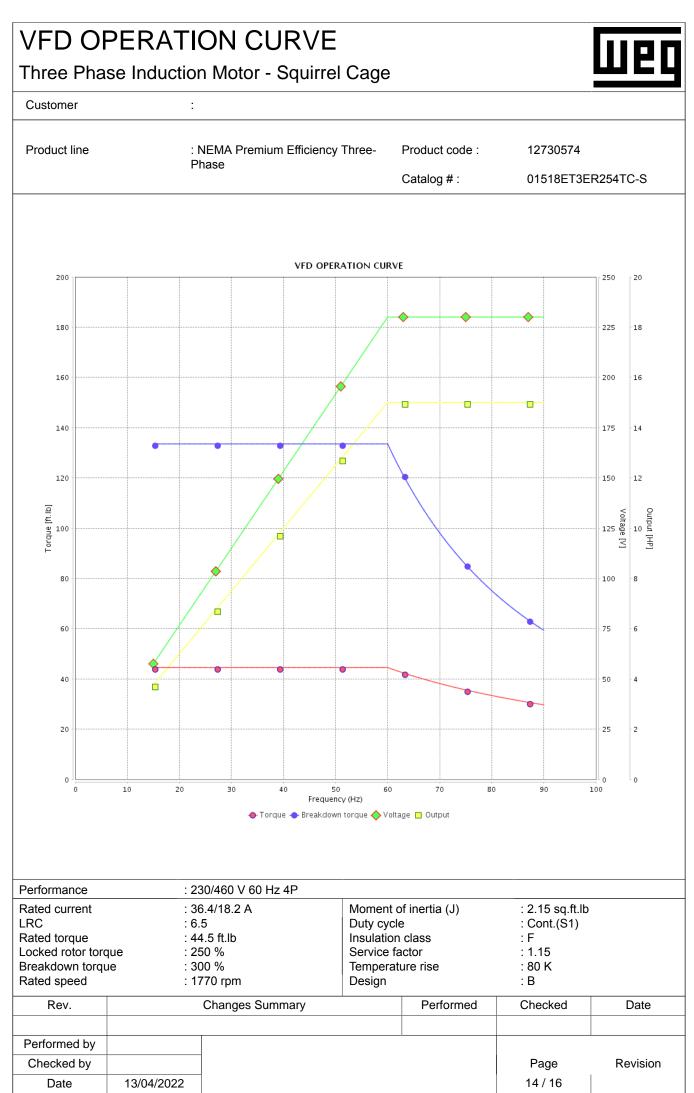
Performance	: 1	: 190/380 V 50 Hz 4P				
Rated current: 43.8/21.9 ALRC: 5.5Rated torque: 54.1 ft.lbLocked rotor torque: 190 %Breakdown torque: 229 %Rated speed: 1455 rpm		5.5 54.1 ft.lb 190 % 229 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constan	t					
Cooling constant	t					
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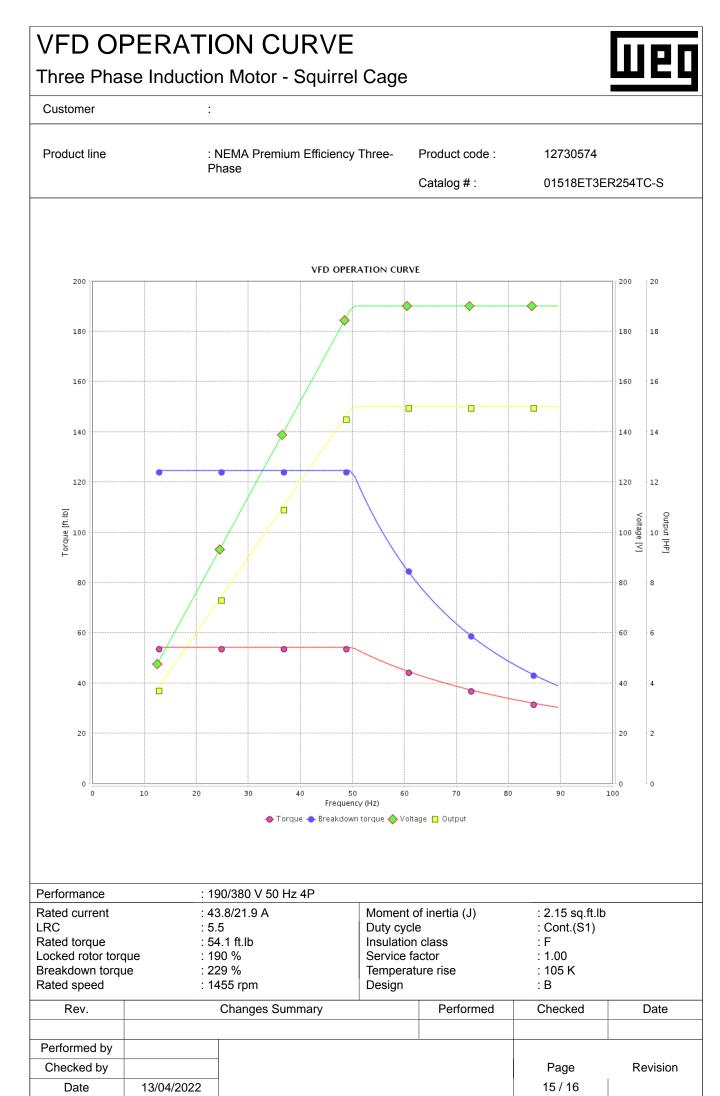


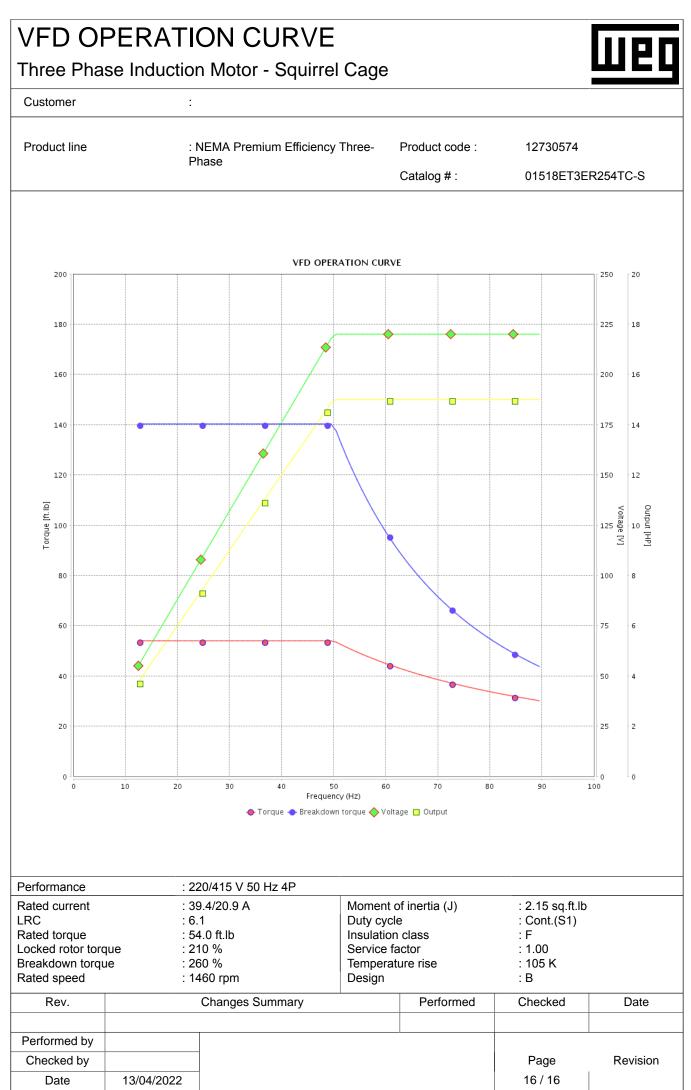
: NEMA Premium Efficiency Three- Phase	Product code :	
Flidot		12730574
	Catalog # :	01518ET3ER254TC-S

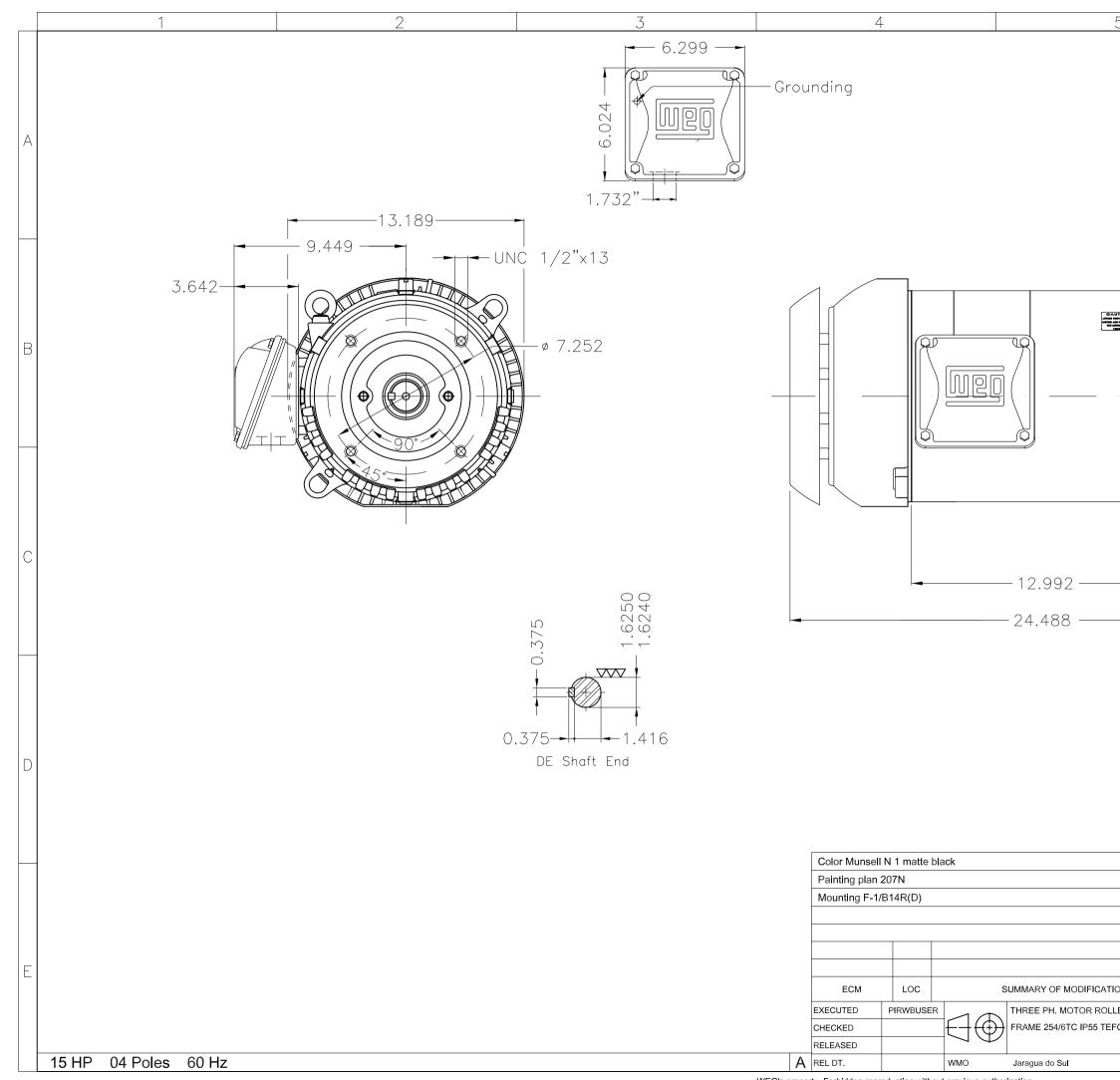
Performance	e : 220/415 V 50 Hz 4P					
Rated current: 39.4/20.9 ALRC: 6.1Rated torque: 54.0 ft.lbLocked rotor torque: 210 %Breakdown torque: 260 %Rated speed: 1460 rpm		1 4.0 ft.lb 10 % 50 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.15 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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	- 0.25	- 3.750 - 2.756 4.000	Ø 8.200			Dimensions in inches
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER	
LED STEEL PREM. E FC	:FF.	PREVI	EW	Ше	q	E A3
Product	t Engineering	SHEET	1 / 1			XME

COUSTING COUSTING COUSTING	For 60Hz: Class I, Zone 2, IIC Class I, DIV2, Gr. A.B.G.D. T3 DIV 2 Inverter Duty (5F1.00) CT 2:1/VT 1000:1	15 11 130460 88.418.2 81.9120.9 1.15 1.710 0.82 1.770	190-220/380-415V 8F1.00 EFF 89.9% (IE2) IEC 60034-1 DH2 use on VPWM 1000:1 VT, 4:1 CT 31L POLYREX EM 2000h	11-11-11-11-11-11-11-11-11-11-11-11-11-	Rise: The Down of the State of
	MADE IN MERCIO MAT: 12730574 CC029A W01.TE0IC0X0N 17DEC1021 SN1: 17DEC2021 SN1:	PH     3     Hz     60     HP     15       FR     234/67C     KW     11     V     11       DUTY     COMT     KW     11     V     230.1       ALT     DOMT-ALT     COMT     A     36.4     135       INS CLF     AT B0K     IPS5     SFA     41.8       AMB     40°C     DES     B     41.8       AMB     40°C     DES     B     F     0.85       Evict     CODE     B     RPM     1770     Nether     92.15       Strict     CODE     CODE     RPM     AT700     Nether     92.15       ABLLE     2084 40.3A     Nether     92.15     Nether     92.15	[ 1 1 1 1	DOLTAGE DOUTAGE	MURRENOLMER ANY TOO LUE WRIES TO REVERSE THE REOXING WARTHO. MOOT must be grounded in accordance with local and mound electrical sources for earlier and any accordance with local and accordance power actives electer and according unit ARCTITISSEMENT. La modeur doit so the 31 arrise conformation accordes rectiones to earlier and active too accordance accordes rectiones to account active actives and active active accordance account active active active active active according active