DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effic	ciency T	hree- Pro	duct code :	144074	60	
		Phase		Cat	alog # :	01009X	T3E284T	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 284T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 464 lb : 7.20 sq.ft.lb		
Output [HP]		10		10	1	0	10	
Poles		8		8	8		8	
Frequency [Hz]		60		50	5		50	
Rated voltage [V]		230/460		380	40		415	
Rated current [A]		26.8/13.4		16.1	15		14.8	
. R. Amperes [A]		161/80.4		96.6	91		88.8	
_RC [A]		6.0x(Code H)	6 (Dx(Code H)	6.0x(C		6.0x(Code H)	
No load current [A	1	12.0/6.00	0.0	5.93	6.3		6.71	
Rated speed [RPN		884		730	73		735	
Slip [%]	'']	1.78		2.67	2.0		2.00	
Rated torque [ft.lb	1	59.4		71.9	71		71.4	
_ocked rotor torqu		250		190	21		240	
		250		190	21		240	
Breakdown torque	[70]	1.15		1.00				
Service factor					1.0		1.00	
Temperature rise		80 K	80 K		80		80 K	
_ocked rotor time		54s (cold) 30s (hot)					54s (cold) 30s (hot)	
Noise level ²	050/	54.0 dB(A)	5	1.0 dB(A)	51.0 0	JR(A)	51.0 dB(A)	
	25%	04.0		01.0		0	04.0	
Efficiency (%)	50%	91.0				.0	91.0	
	75%	91.7		90.2	91		91.0	
	100%	91.0	88.5		89	0.5	90.2	
	25%							
Power Factor	50%	0.62		0.67		65	0.62	
	75%	0.72		0.76	0.7		0.73	
	100%	0.77		0.80		0.79 0.78		
Bearing type Sealing Lubrication inter- Lubricant amour		: 6311 C3 62 : Oil Seal Lip : 20000 h 20 : 18 g	11 C36211 C3Max. tractionI SealLip SealMax. compression000 h20000 h		า	: 484 lb : 948 lb		
Lubricant type Notes USABLE @208V	29.4A SF 1.	: Mobil Polyrex E	= IVI					
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with to veight subject ocess.	cel the previous one, where shaft end. olerance of +3dB(A). t to changes after	hich				ts with sinusoidal stipulated in NEMA	
manufacturing pro (4) At 100% of ful		Changes Summer	,		Performed	Chooked	Data	
manufacturing pro		Changes Summary	,		Performed	Checked	Date	
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manufacturing pro (4) At 100% of ful Rev.	1020.		,		Performed	Checked Page 1 / 22	Date	

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Thermal protection					
ID	Application	Туре	Quantity	Sensing Te	
1	Winding	Thermostat - 2 wires	1 x Phase	130	5°C
Rev.	Chan	ges Summary	Performed	Checked	Date
rformed by					

TORQUE AND CURRENT VS SPEED CURVE

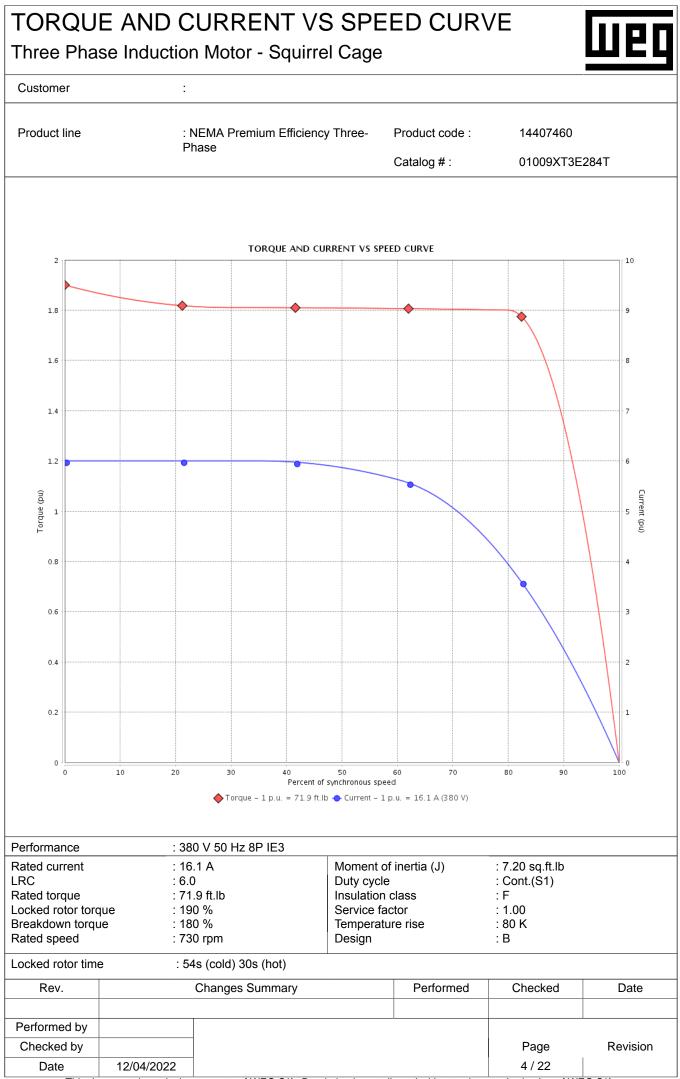
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: NEMA Premium Efficiency Three- Phase		Product code :	14407460 01009XT3E284T	
				Catalog # :		
		TORQUE AND CUR	RENT VS SPE	EED CURVE		
3						10
2.7						9
2.4		•		•	•	8
2.1						7
1.8						6
(nd) an 1.5 Duor						5 Current (pu)
Torq					$\langle \rangle$	t (pu)
1.2						4
0.9						3
0.6						····· 2
0.3						1
0	10 20	30 40	50	60 70	80 90	100
-			nchronous spe	ed		
		• · · · · · · · · · · · · · · · · · · ·		,		
erformance	::	230/460 V 60 Hz 8P				
ated current	::	26.8/13.4 A		f inertia (J)	: 7.20 sq.ft.lb	
RC ated torque	: {	59.4 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
ocked rotor torqu reakdown torque			Service fa Temperatu		: 1.15 : 80 K	
ated speed			Design		: B	
ocked rotor time	:	54s (cold) 30s (hot)				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
,	12/04/2022				3/22	



TORQUE AND CURRENT VS SPEED CURVE

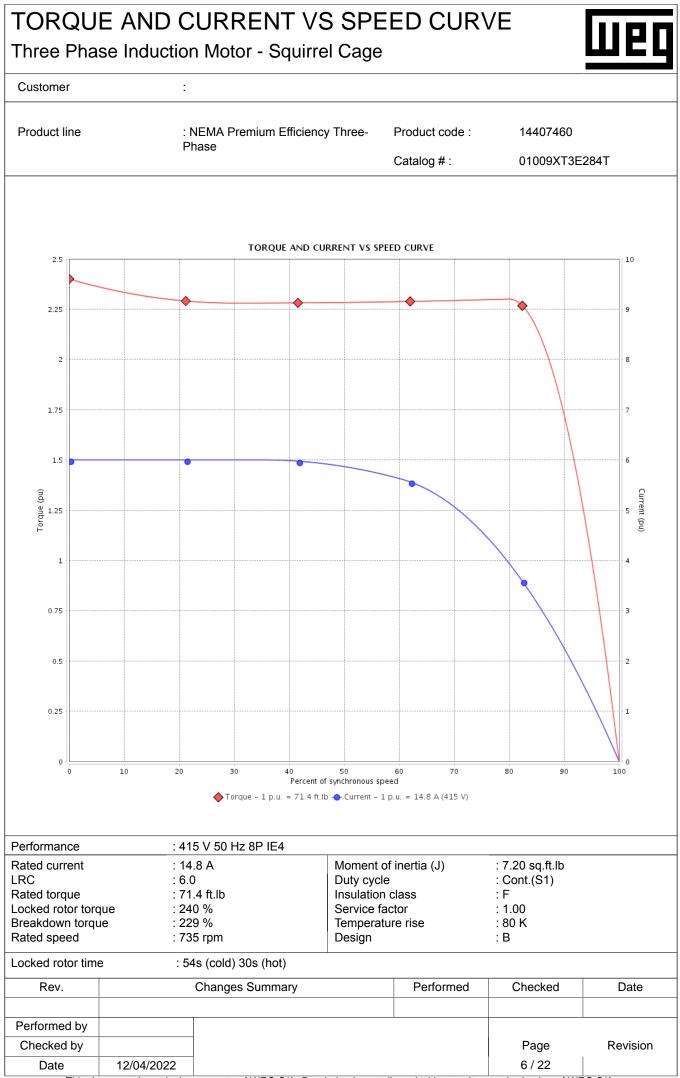
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Customer

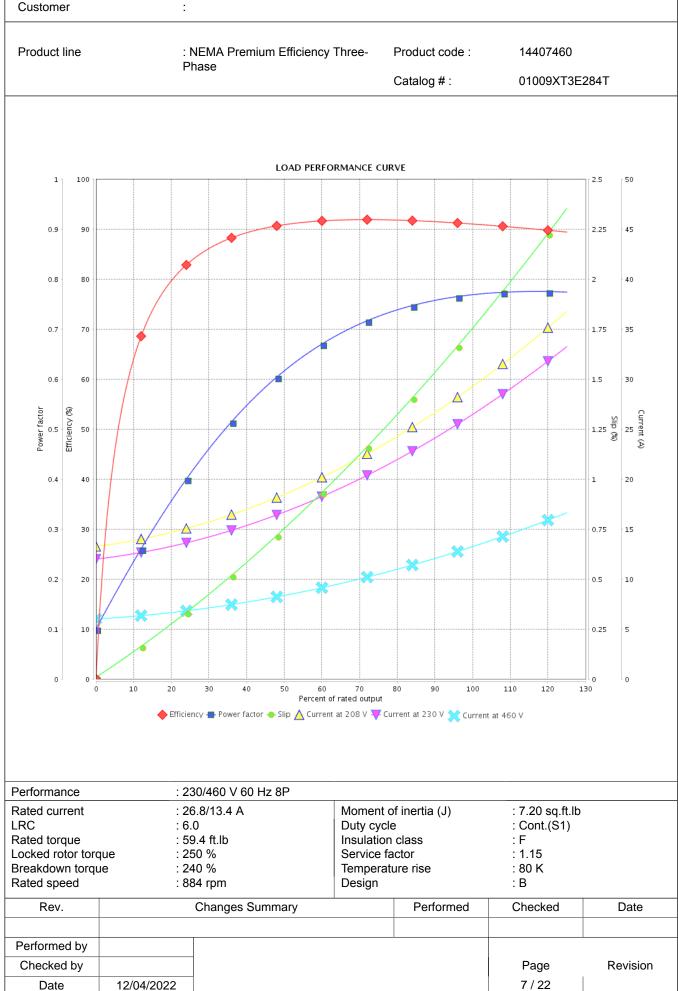
Product line	: NEMA Premium Efficienc	y Three- F	Product code :	14407460	
	Phase	C	Catalog # :	01009XT3E2	284T
	TORQUE AND CL	JRRENT VS SPEED) CURVE		
2.5					10
2.25					9
			•		
2					8
1.75					7
1.5 -	•				6
ਕਿ ਉੱਹ 1.25 ਸ਼ੁੱਧ ਸ਼ੂ ਸ਼ੁੱਧ ਸ਼ੂ ਸ਼ੂ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੂ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸ਼ੁੱਧ ਸੂ ਸੂ ਸ਼ੁੱਧ ਸੂਨ ਸ਼ੂ ਸ਼ੂ ਸ਼ੁੱਧ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ ਸੂ					Current (pu)
					nt (pu)
1					4
0.75					3
0.5					2
0.25					
0	10 20 30 40 Percent o	50 6 synchronous speed	i0 70	80 90	100
	♦ Torque - 1 p.u. = 71.9 ft.I	lb 🔶 Current – 1 p.u	I. = 15.3 A (400 V)		
erformance	: 400 V 50 Hz 8P IE4				
ated current RC ated torque ocked rotor torque reakdown torque ated speed	: 15.3 A : 6.0 : 71.9 ft.lb : 210 % : 210 % : 730 rpm	Moment of in Duty cycle Insulation cl Service facto Temperature Design	ass or	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
ocked rotor time	: 54s (cold) 30s (hot)	Design			
Rev.	Changes Summary		Performed	Checked	Date
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Checked by	12/04/2022			Page 5 / 22	Revision



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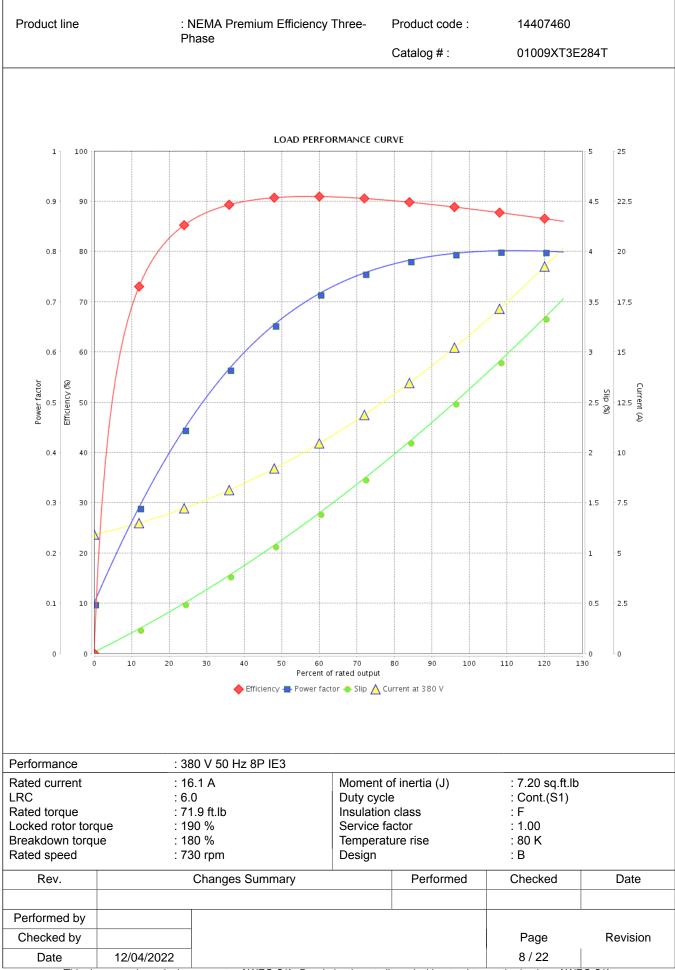
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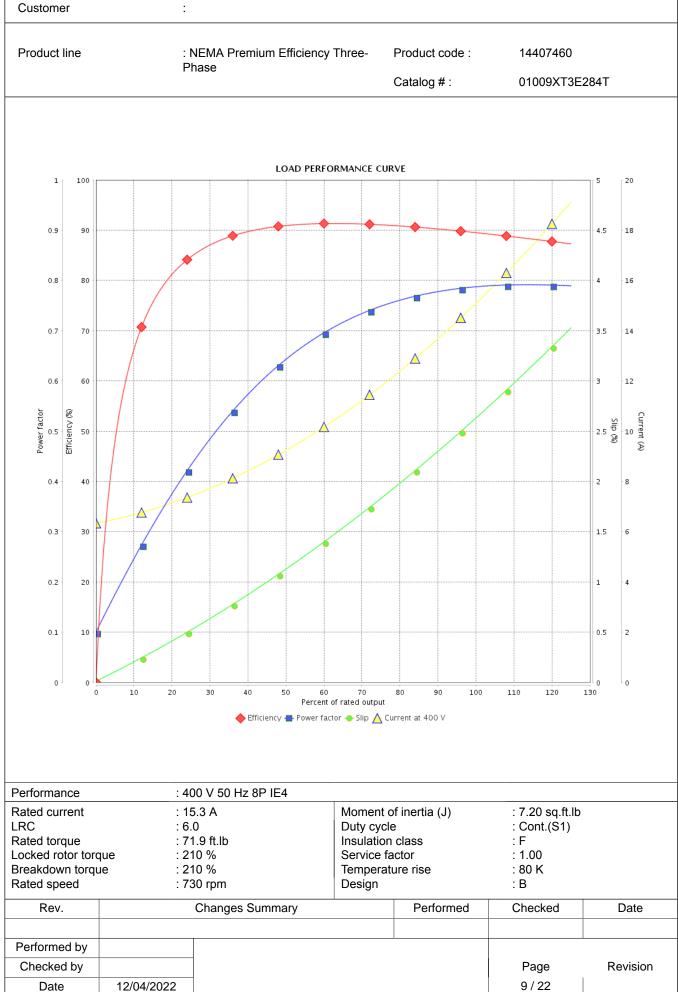


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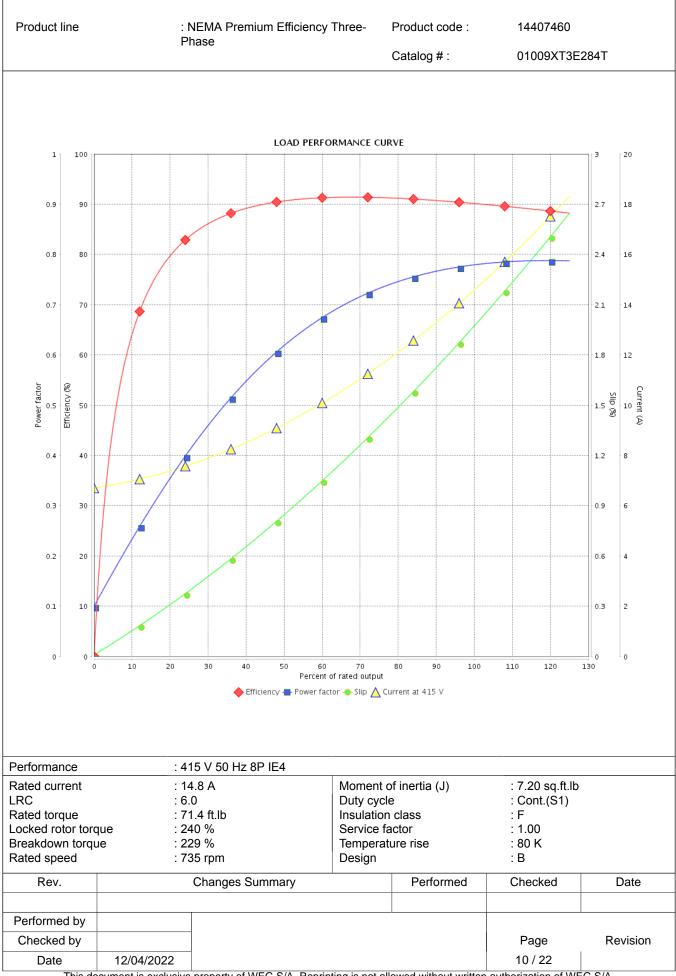
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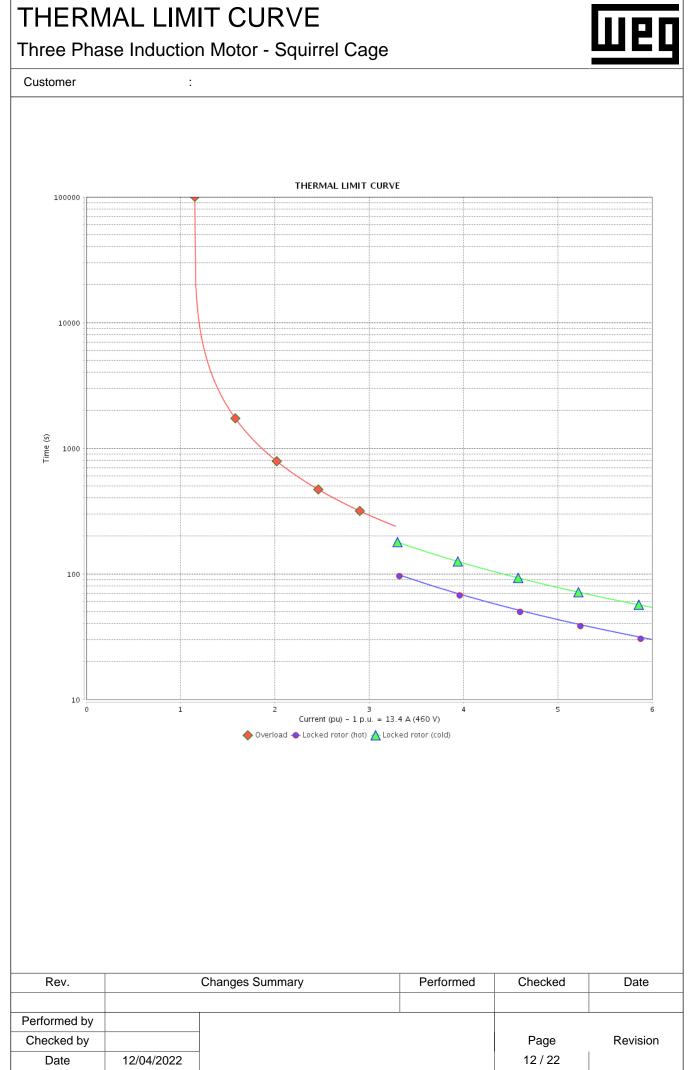
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14407460
	FildSt	Catalog # :	01009XT3E284T

Шед

Performance	: 2:	30/460 V 60 Hz 8P				
Rated current: 26.8/13.4 ALRC: 6.0Rated torque: 59.4 ft.lbLocked rotor torque: 250 %Breakdown torque: 240 %Rated speed: 884 rpmHeating constant		Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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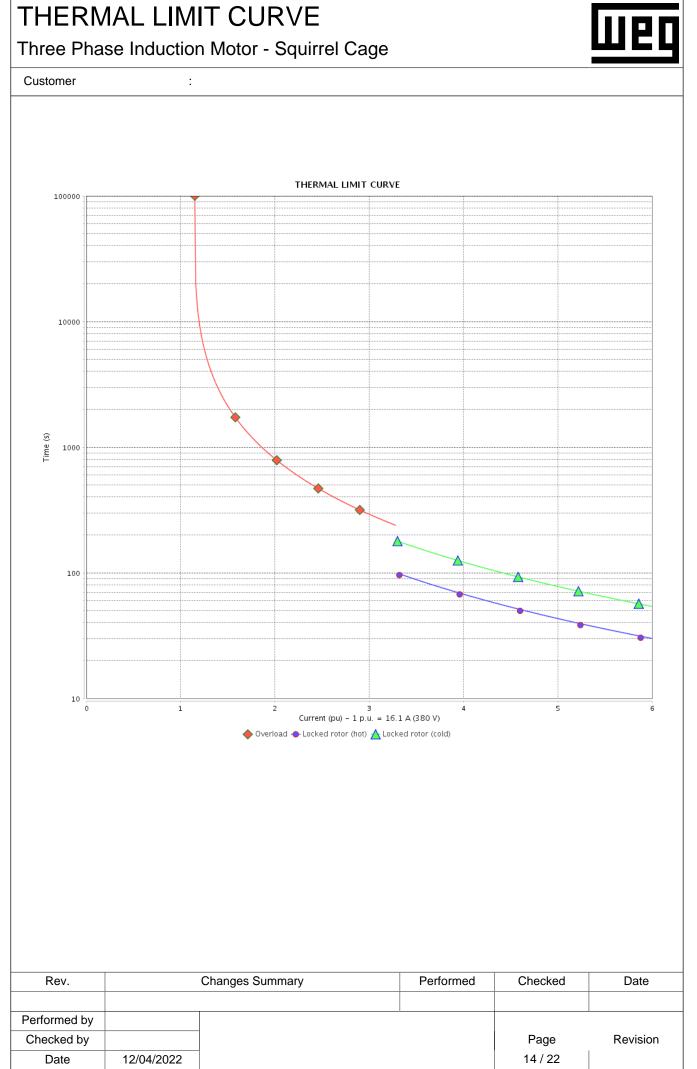
Three Phase Induction Motor - Squirrel Cage

Customer

5	: NEMA Premium Efficiency Three-	Product code :	14407460
	Phase	Catalog # :	01009XT3E284T

Шеq

Performance	: 3	80 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 7 jue : 1	6.1 A .0 1.9 ft.lb 90 % 80 % 30 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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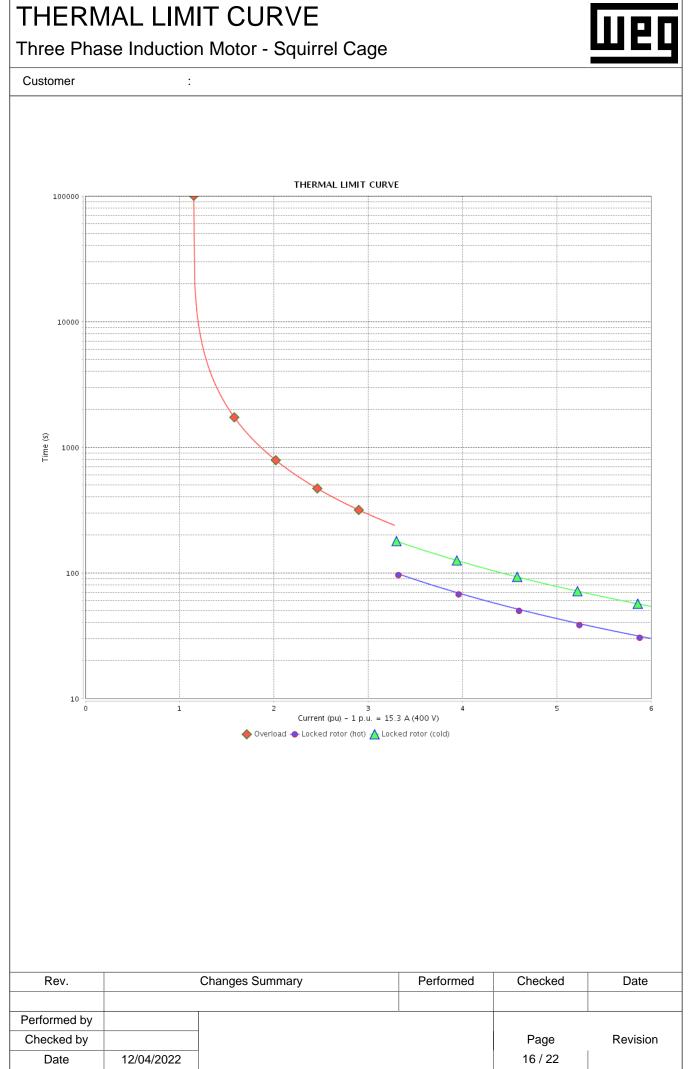
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Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14407460
	FildSt	Catalog # :	01009XT3E284T

Шеq

Performance	: 4	00 V 50 Hz 8P IE4				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	iue : 2	5.3 A .0 1.9 ft.lb 10 % 10 % 30 rpm	Duty cycleft.lbInsulation class%Service factor%Temperature rise		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	:					
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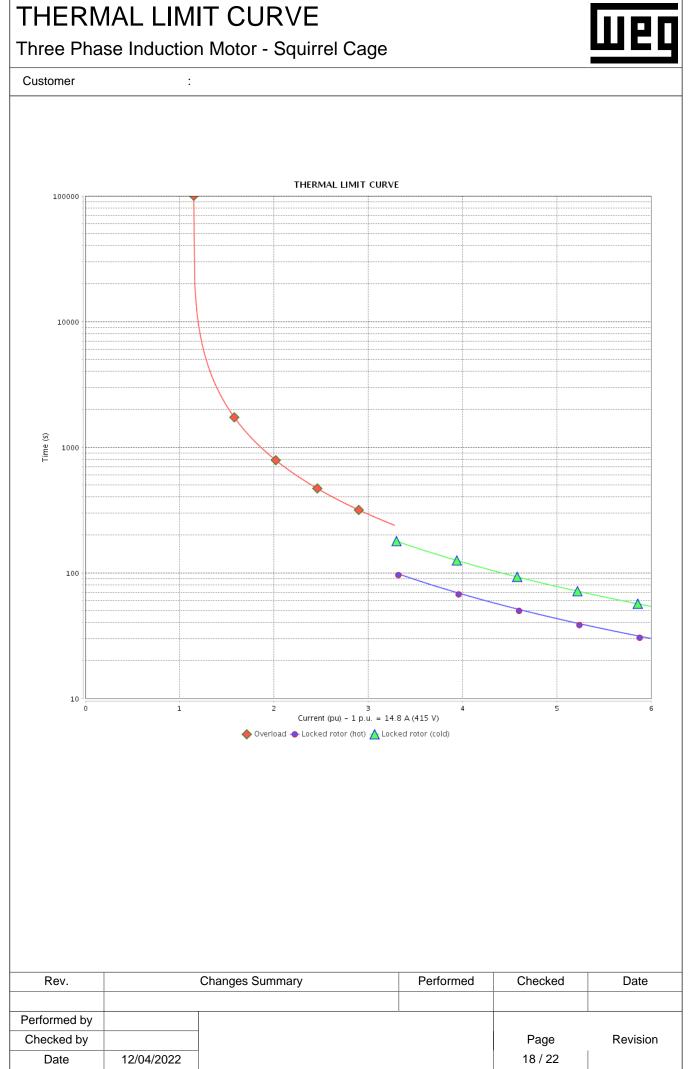
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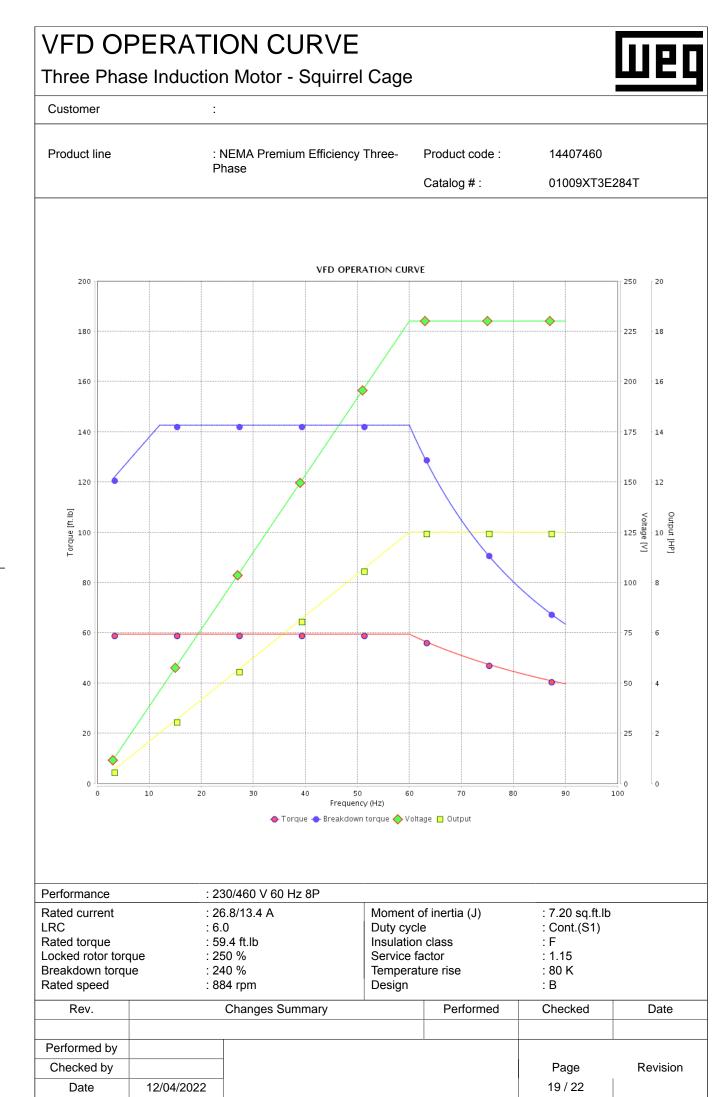
5	: NEMA Premium Efficiency Three-	Product code :	14407460
	Phase	Catalog # :	01009XT3E284T

Шеq

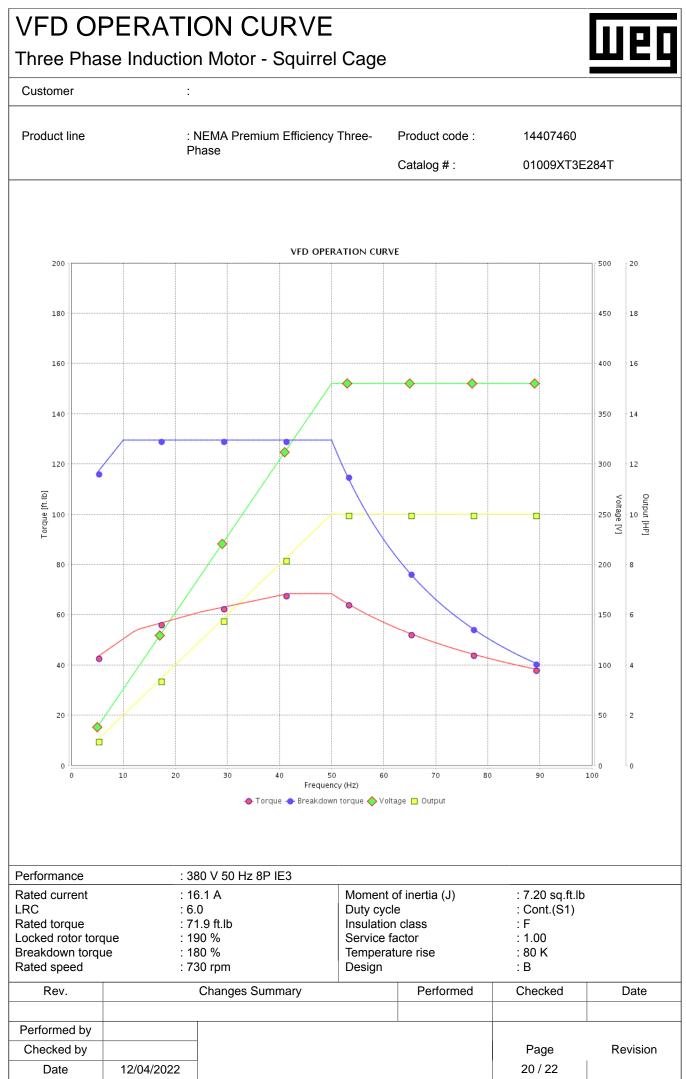
Performance	: 4	15 V 50 Hz 8P IE4				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	1 6 1 7 1 1 1 2 4 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.8 A .0 1.4 ft.lb 40 % 29 % 35 rpm	Service factor Temperature rise		: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant	:					
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Checked by					Page	Revision
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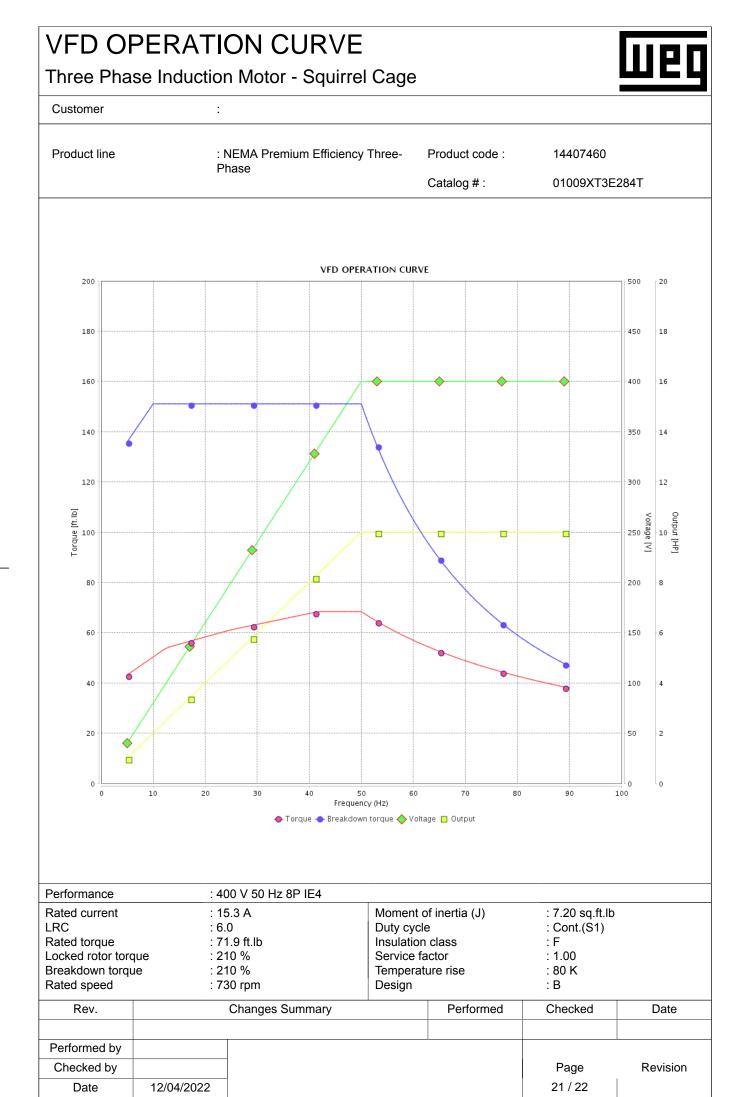


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