DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effi Phase	ciency T	hree- Pro	e- Product code : 14276568		
		FIIdSE		Ca	talog # :	00518>	KT3E184T
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.		Mounting Rotation ¹ Starting me Approx. we			- TEFC (CW and CCW) t On Line 5 5 sq.ft.lb
Output [HP]		5		5	5	5	5
Poles		4		4	4		4
Frequency [Hz]		60		50	5	0	50
Rated voltage [V]		230/460		380	40	00	415
Rated current [A]		13.1/6.57		7.83	7.5	54	7.45
. R. Amperes [A]		93.3/46.6		47.8	51		53.6
RC [A]		7.1x(Code J)	6.1	1x(Code G)	6.8x(C	ode J)	7.2x(Code J)
No load current [A	.]	6.20/3.10		3.10	3.4		3.80
Rated speed [RPN		1750		1435	14	40	1445
Slip [%]	-	2.78		4.33	4.0	00	3.67
Rated torque [ft.lb]		15.0		18.3	18	.2	18.2
ocked rotor torqu		229		210	22		250
Breakdown torque	: [%]	300		229	26		290
Service factor		1.15		1.00	1.0		1.00
Temperature rise		80 K		80 K	80 K		80 K
ocked rotor time		43s (cold) 24s (hot)		cold) 20s (hot			34s (cold) 19s (hot)
Noise level ²		56.0 dB(A)	5	6.0 dB(A)	56.0 c		56.0 dB(A)
Efficiency (%)	25%	85.3		85.7	85		85.8
	50%	86.5		86.0	86		86.5
	75%	88.5		86.5	87		87.0
	100%	89.5	86.5		87		87.5
	25%	0.36		0.43	0.3		0.35
Power Factor	50%	0.59	0.67		0.6		0.59
	75%	0.71		0.77	0.7		0.72
Bearing type	100%	: 6307 2RS 620	r <u>ive end</u> 06 2RS	Max. tractio	n	: 270 lb	0.79
Sealing		: Oil Seal Lip	o Seal	Max. compr	ression	: 403 lb	
Lubrication interv		: -	-				
Lubricant amoun	It	-	-				
Lubricant type		: Mobil Polyrex E	=M				
must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. lotor from the Im and with t veight subject	ncel the previous one, w	hich				sts with sinusoidal stipulated in NEMA
(4) At 100% of ful Rev.		Changes Summary	,		Performed	Checked	d Date
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Thermal protection						
ID	Application	Туре	Quantity		emperature	
1	Winding	Thermostat - 2 wires	1 x Phase	15	5 °C	
Rev.	Chan	ges Summary	Performed	Checked	Date	
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TORQUE AND CURRENT VS SPEED CURVE

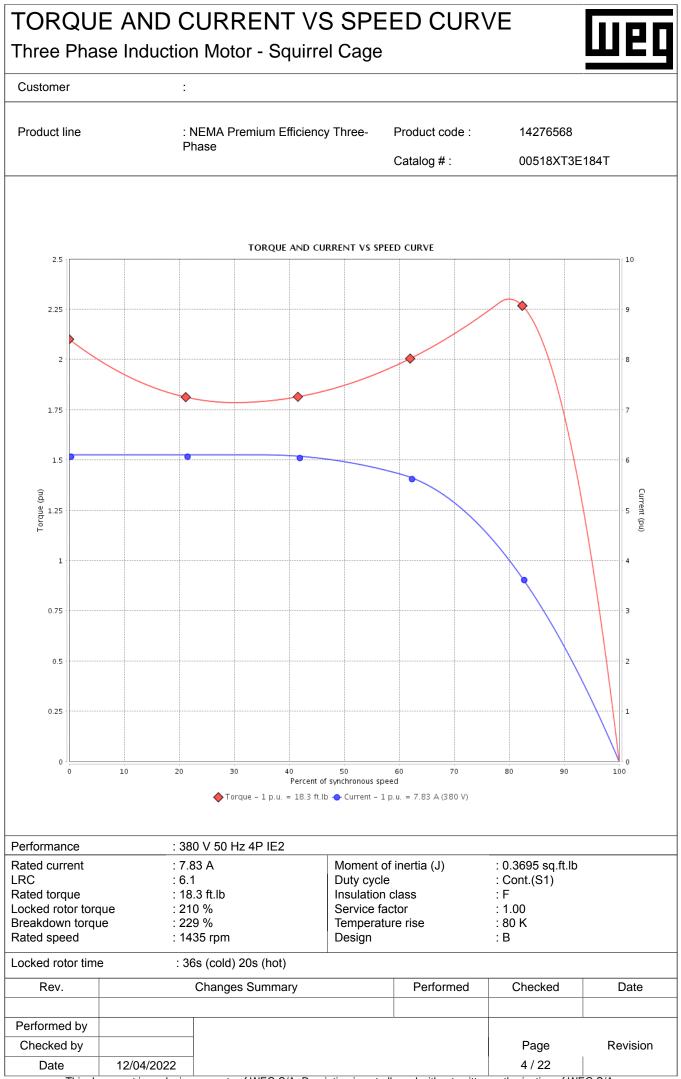
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: NEMA Premium Efficiency T Phase			104
		Catalog # :	00518XT3E ⁻	1841
3	TORQUE AND CURR	ENT VS SPEED CURVE		
2.7			/	
2.4				8
2.1				7
1.8				······ 6
(nd)				Curr
(nd) and 1.5				5 Current (pu)
				Ŭ
1.2				
0.9				3
0.6				
0.3				1
0				
0 10	Percent of syn	50 60 70 chronous speed		100
	◆ Torque - 1 p.u. = 15.0 ft.lb -	- carrent - 1 p.u. = 0.57 A (46)	, v,	
erformance	: 230/460 V 60 Hz 4P			
ated current		Moment of inertia (J)	: 0.3695 sq.ft.lb	
RC ated torque	: 15.0 ft.lb	Duty cycle nsulation class	: Cont.(S1) : F	
ocked rotor torque reakdown torque		Service factor Femperature rise	: 1.15 : 80 K	
ated speed		Design	: B	
ocked rotor time	: 43s (cold) 24s (hot)	1		
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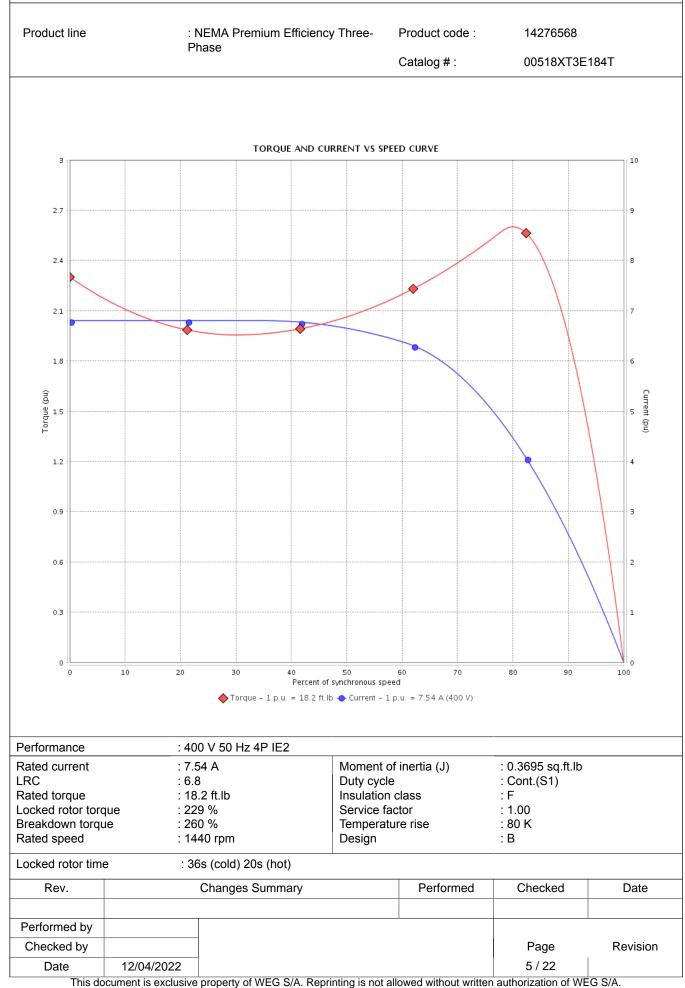
TORQUE AND CURRENT VS SPEED CURVE

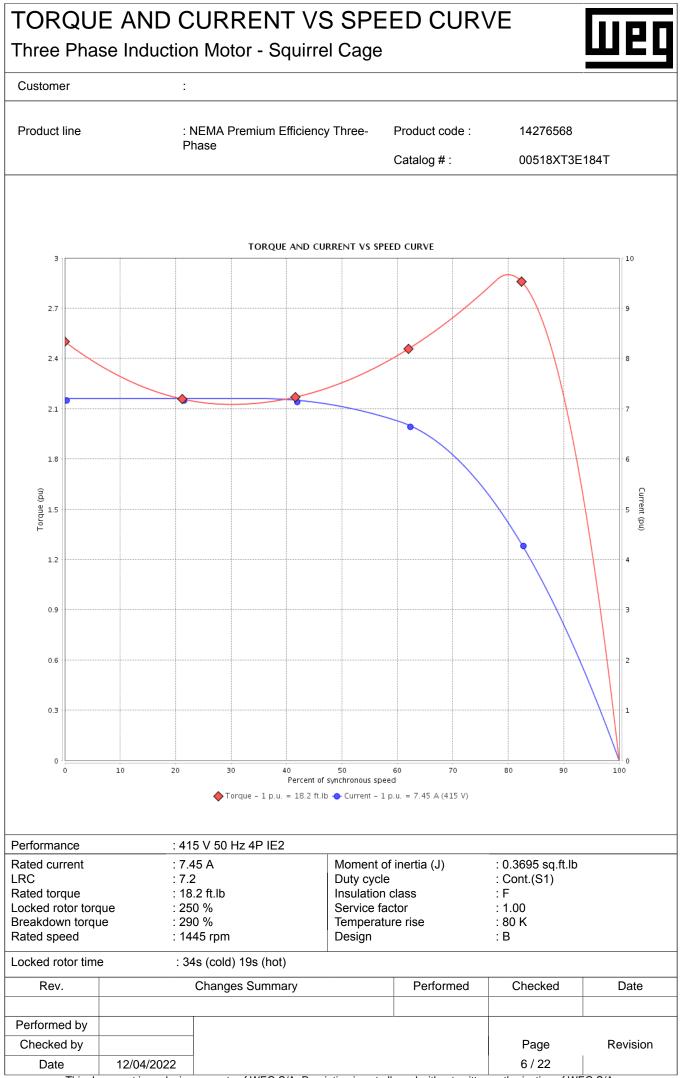
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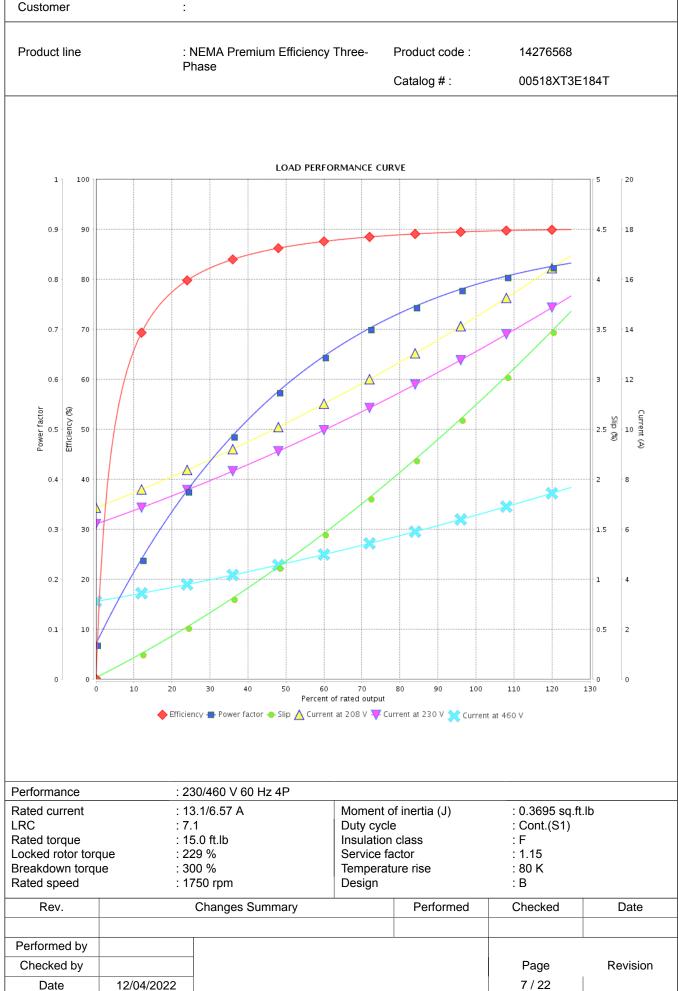
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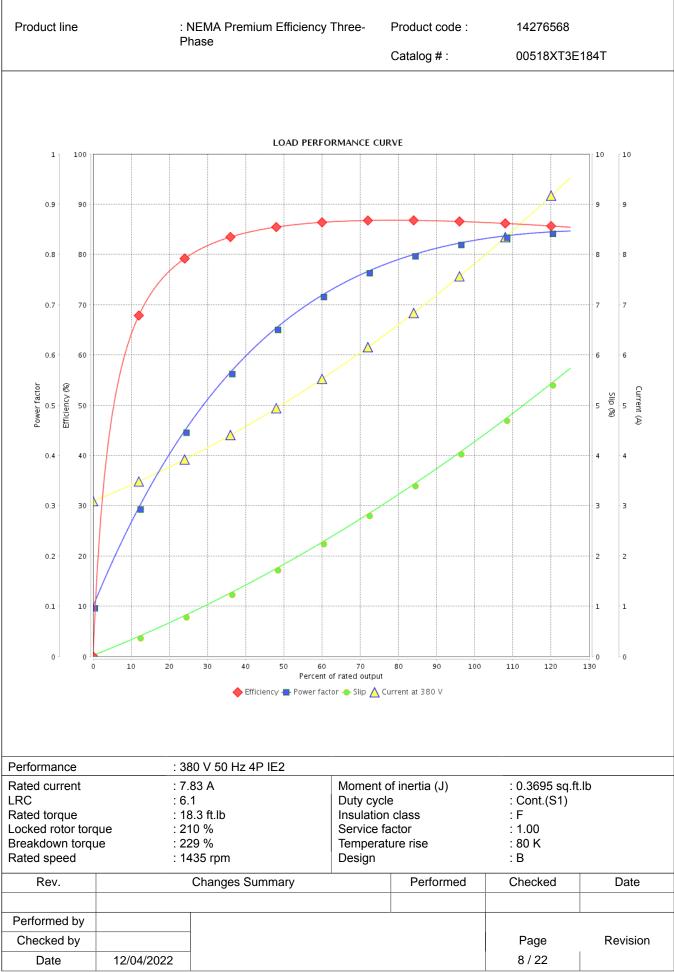
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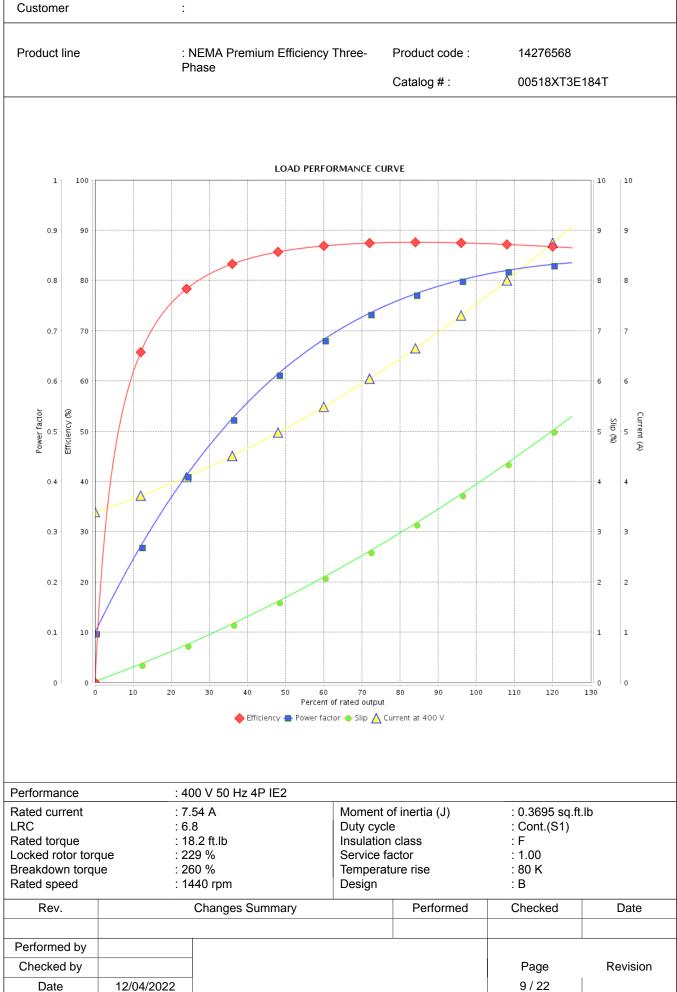


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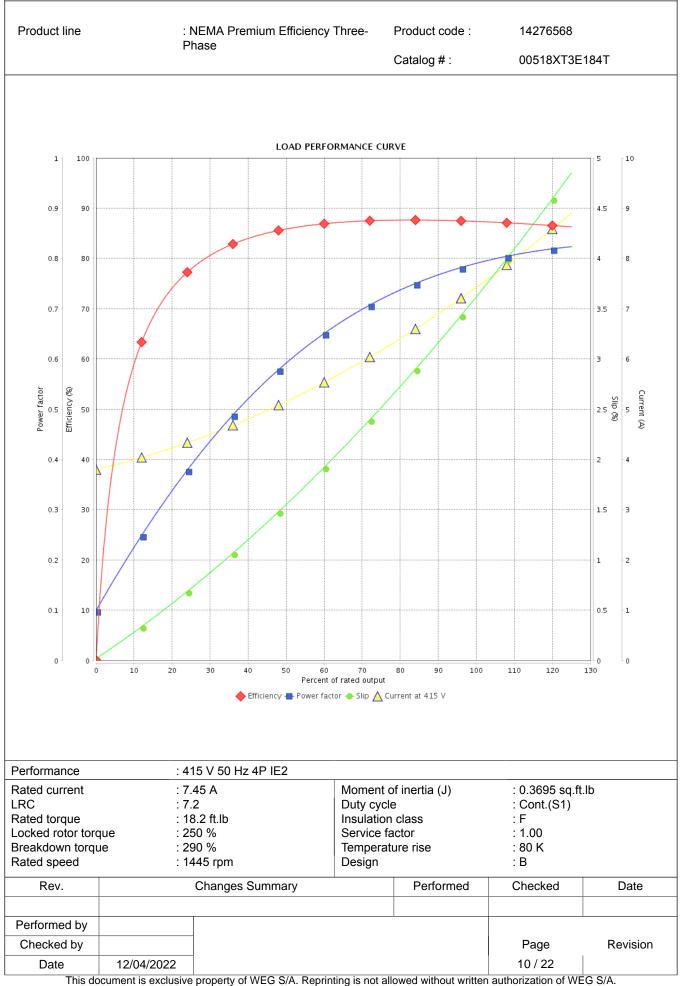
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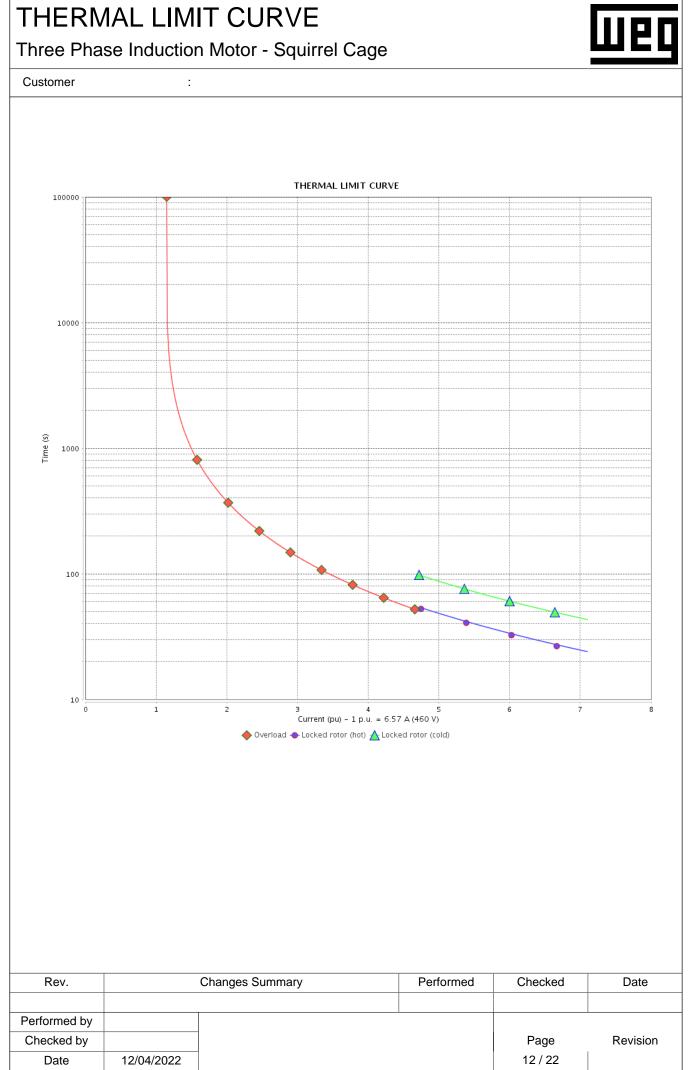
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14276568
	Phase	Catalog # :	00518XT3E184T

Шеq

Performance	: 2:	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 1 : ue : 2: ie : 3	3.1/6.57 A .1 5.0 ft.lb 29 % 00 % 750 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3695 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Heating constant	t					
Cooling constant	:					
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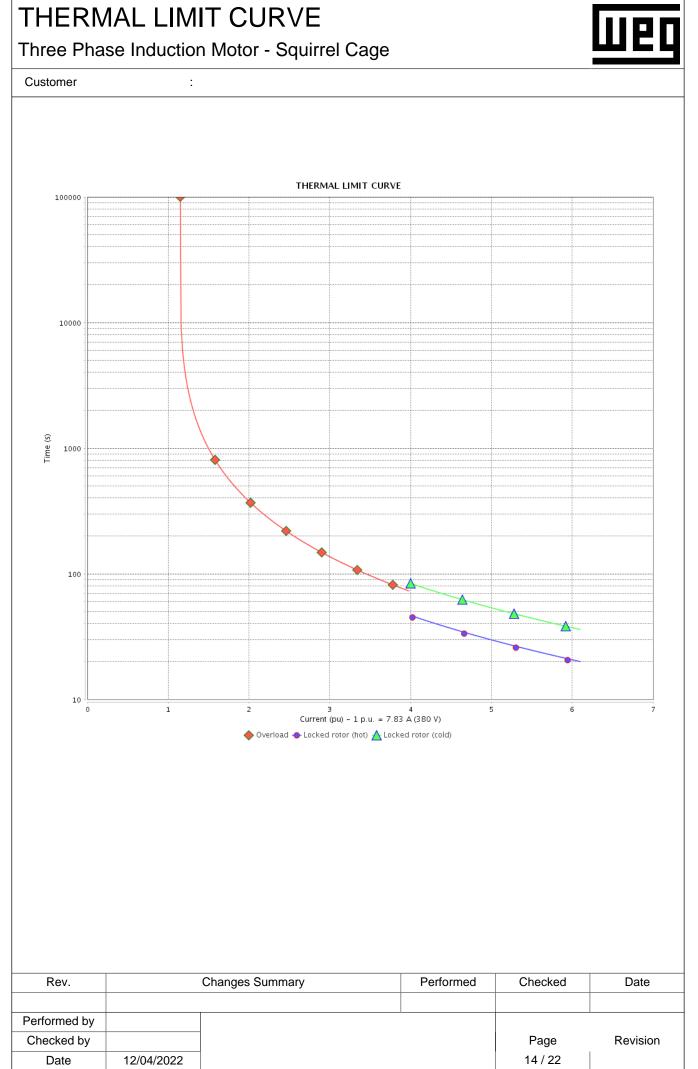
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14276568
	Phase	Catalog # :	00518XT3E184T

Шеq

Performance		380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue :	7.83 A 6.1 18.3 ft.lb 210 % 229 % 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3695 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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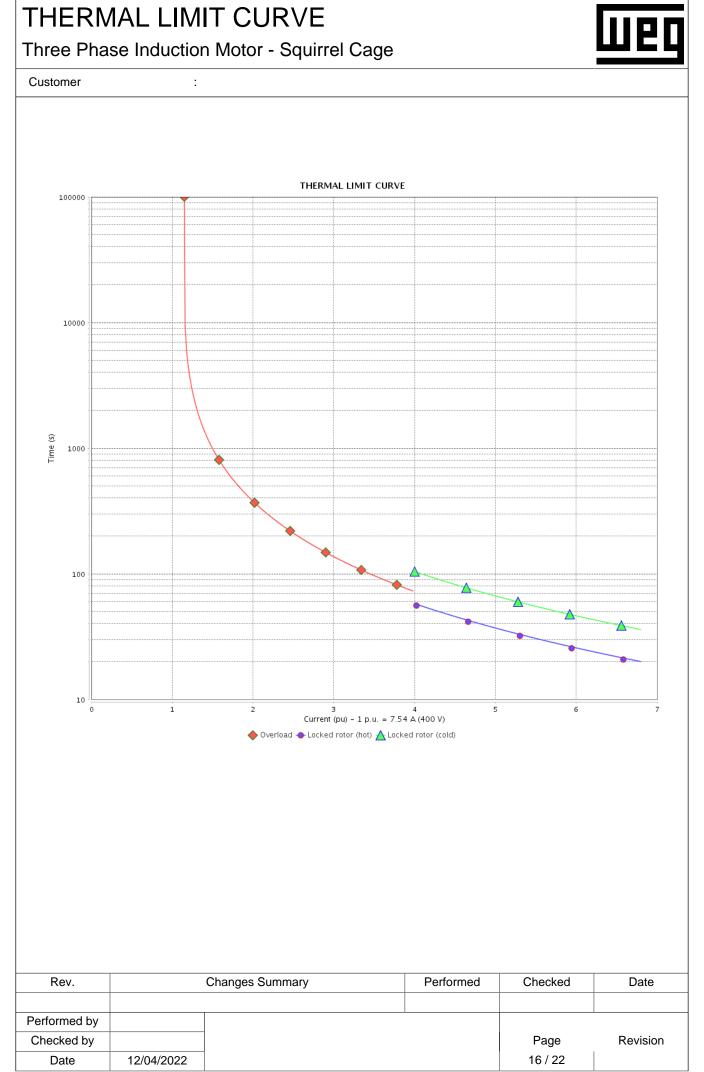
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14276568
	Phase	Catalog # :	00518XT3E184T

Шед

Performance	: 4	400 V 50 Hz 4P IE2				
Rated current: 7.54 ALRC: 6.8Rated torque: 18.2 ft.lbLocked rotor torque: 229 %Breakdown torque: 260 %Rated speed: 1440 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3695 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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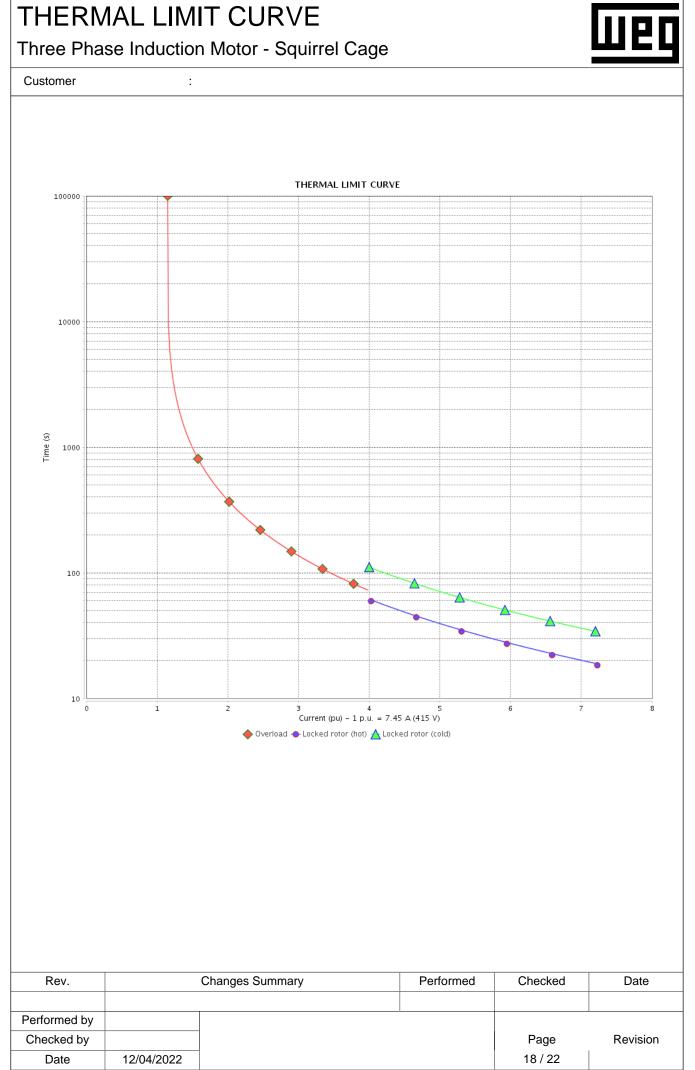
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14276568
	Phase	Catalog # :	00518XT3E184T

Шед

Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 7.45 A : 7.2 : 18.2 ft.lb : 250 % : 290 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3695 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.	Changes Summary		·	Performed	Checked	Date
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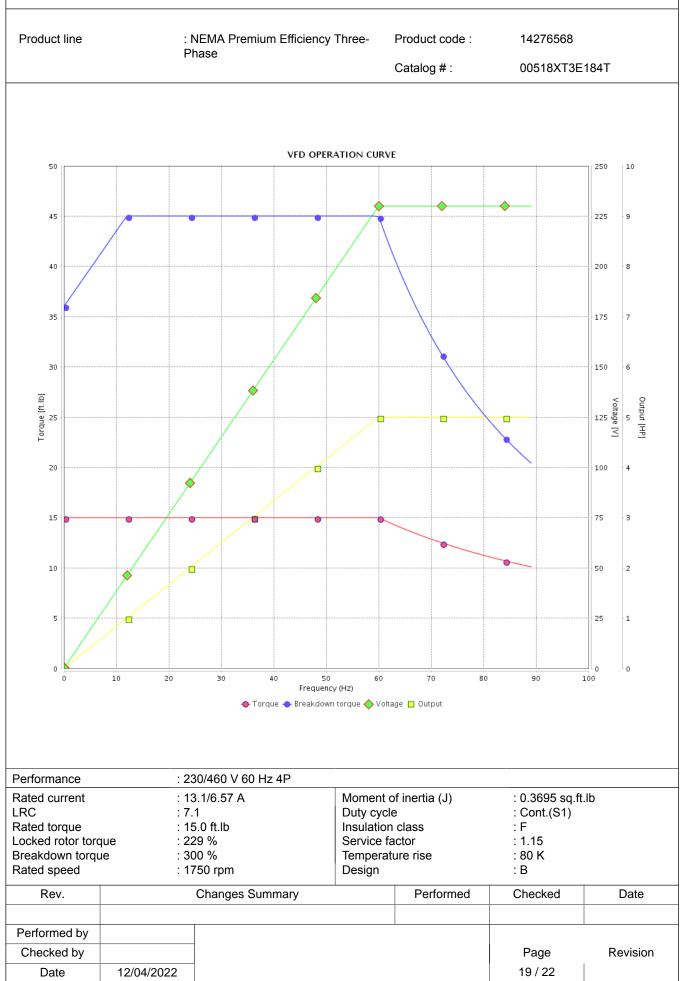
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VFD OPERATION CURVE

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Customer



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