# DATA SHEET

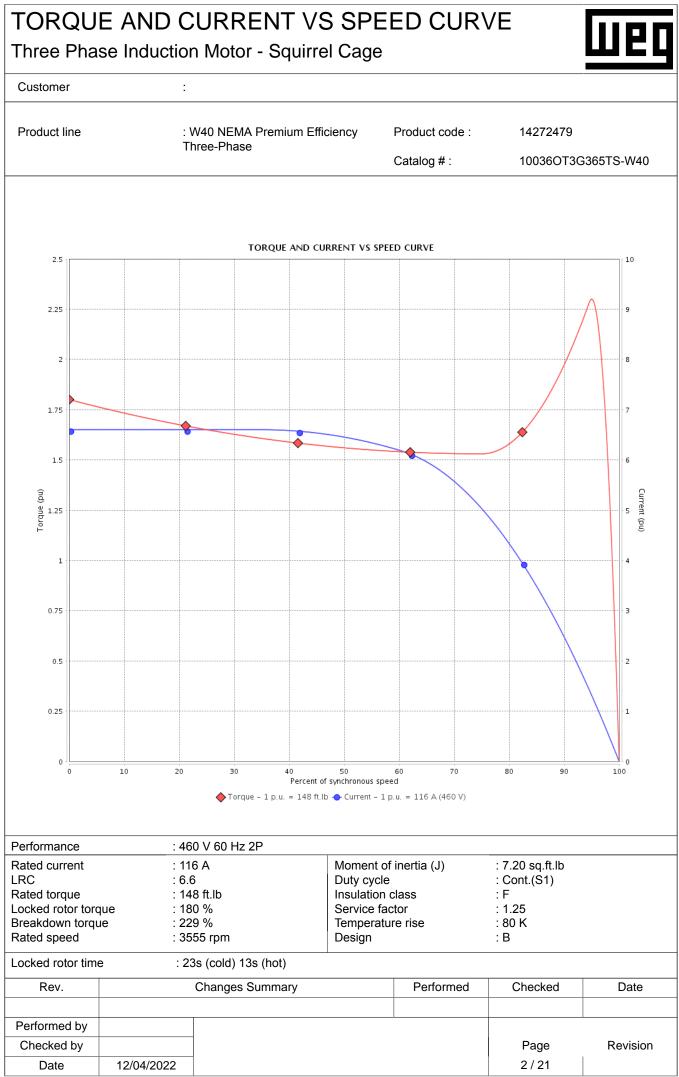
Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: W40 NEMA Premiur Three-Phase	n Efficiei	ncy Pi	roduct code :	code : 14272479		
		111100-1 11030		C	Catalog # :		10036OT3G365TS-W40	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 364/5TS : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 730 lb : 7.20 sq.ft.lb		
Output [HP]		100	1	75	7	F	75	
Poles		2		2	2		75 2	
Frequency [Hz]		60		50	5		50	
Rated voltage [V]		460		380	40		415	
Rated current [A]		116		103	10		97.8	
		766		773	80		97.8	
L. R. Amperes [A]								
LRC [A]	,	6.6x(Code G)	1.5	5x(Code H)	8.0x(C		7.9x(Code J)	
No load current [A		29.5		28.5	32		35.0	
Rated speed [RPN	/I]	3555		2960	29		2967	
Slip [%]	_	1.25	ļ	1.33	1.2		1.10	
Rated torque [ft.lb]		148		133	13		133	
Locked rotor torqu		180		220	24		250	
Breakdown torque	[%]	229		260	28		320	
Service factor		1.25		1.00	1.0		1.00	
Temperature rise		80 K		80 K	80	K	80 K	
Locked rotor time		23s (cold) 13s (hot)	19s (c	cold) 11s (hot) 18s (cold)		10s (hot) 19	es (cold) 11s (hot)	
Noise level <sup>2</sup>		84.0 dB(A)		, , , , , , , , , , , , , , , , , , ,				
	25%	92.2		88.0	88	.2	88.2	
Efficiency (%)	50%	92.4			90	.3	90.3	
	75%	93.6		91.9	92	.0	92.0	
	100%	93.6		94.3	94	.3	94.3	
	25%	0.55	1	0.53	0.4		0.47	
<b>-</b>	50%	0.77		0.74	0.6		0.70	
Power Factor	75%	0.84		0.83	0.7		0.80	
	100%	0.87		0.86	0.8		0.83	
Bearing type	10070	Drive end         Non dr           :         6314 C3         621	r <u>ive end</u> 2 Z C3	Foundation Max. tracti	n loads on	: 1090 lb	0.00	
Sealing Lubrication interval		Bearing Seal Bear : 14418 h 20	ithout ing Seal 000 h 13 g	Max. compression : 1821 lb al				
Lubricant amoun Lubricant type	it.	: Mobil Polyrex E						
Notes		· · · · ·		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, w e shaft end. tolerance of +3dB(A). ct to changes after	hich		average values ply, subject to th		with sinusoidal bulated in NEMA	
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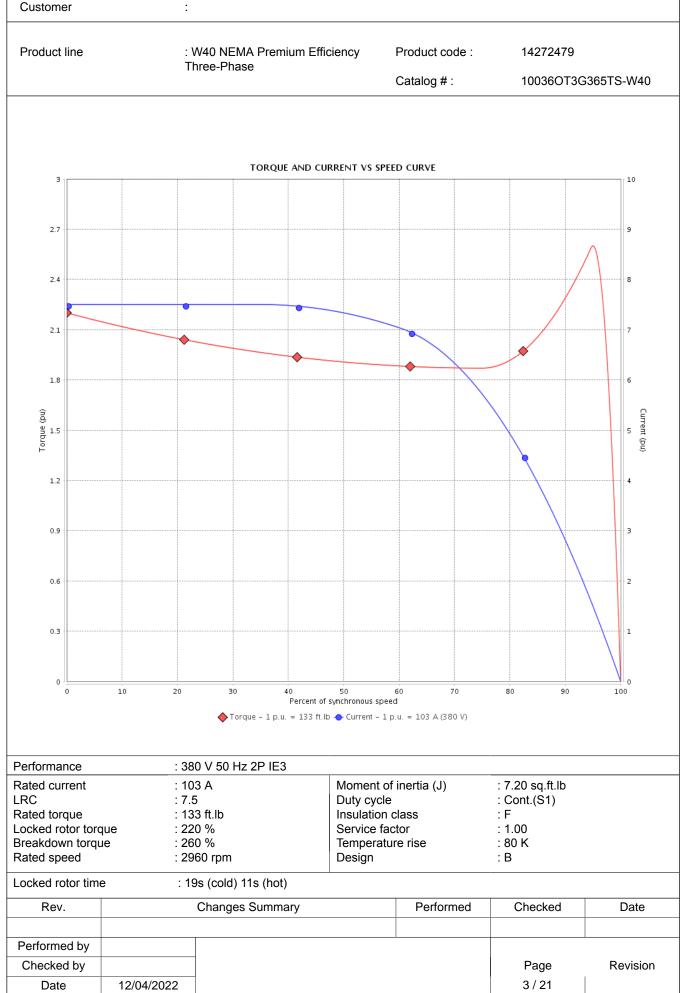


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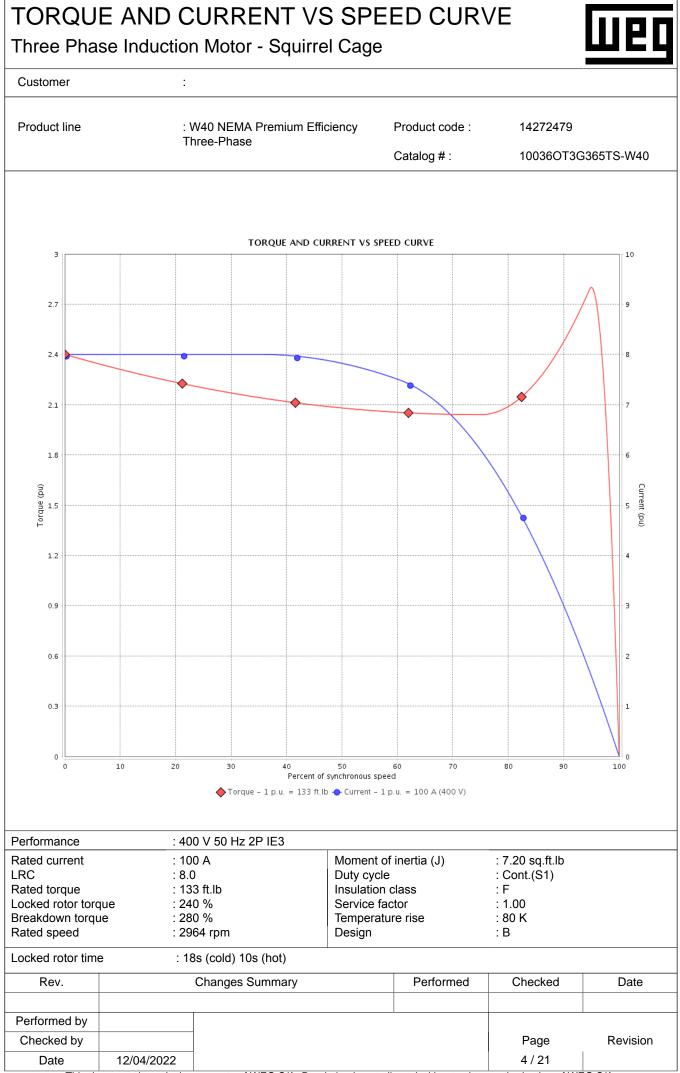
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



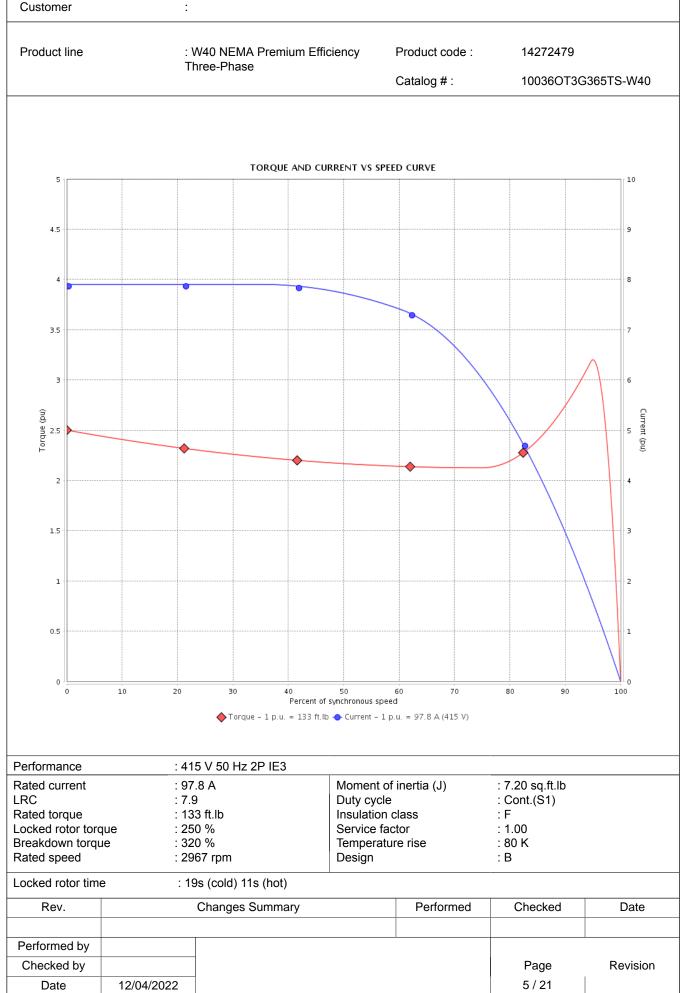
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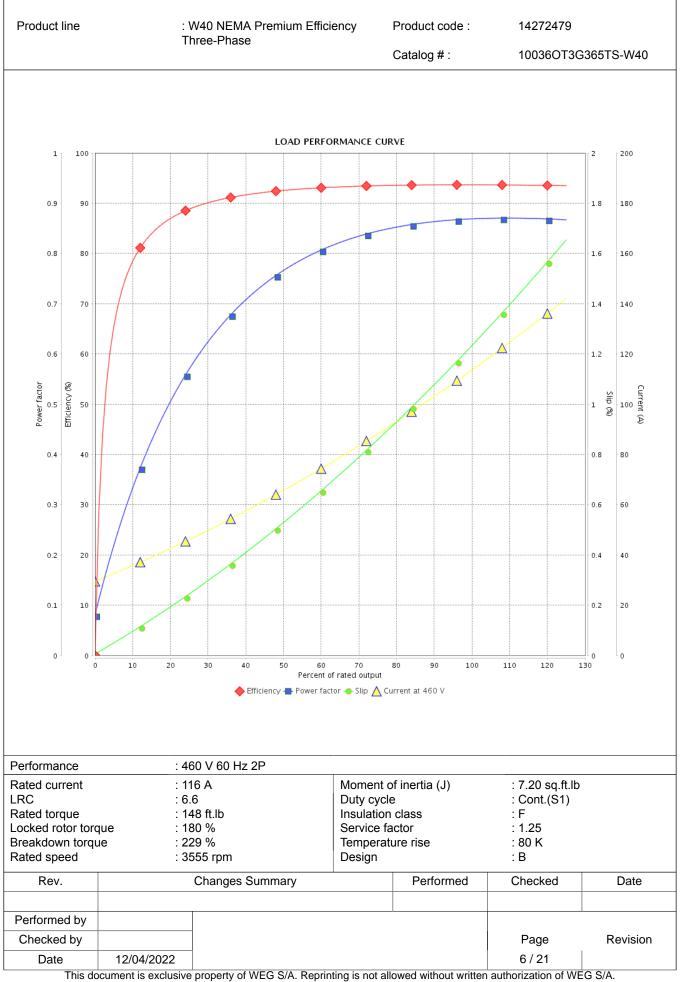
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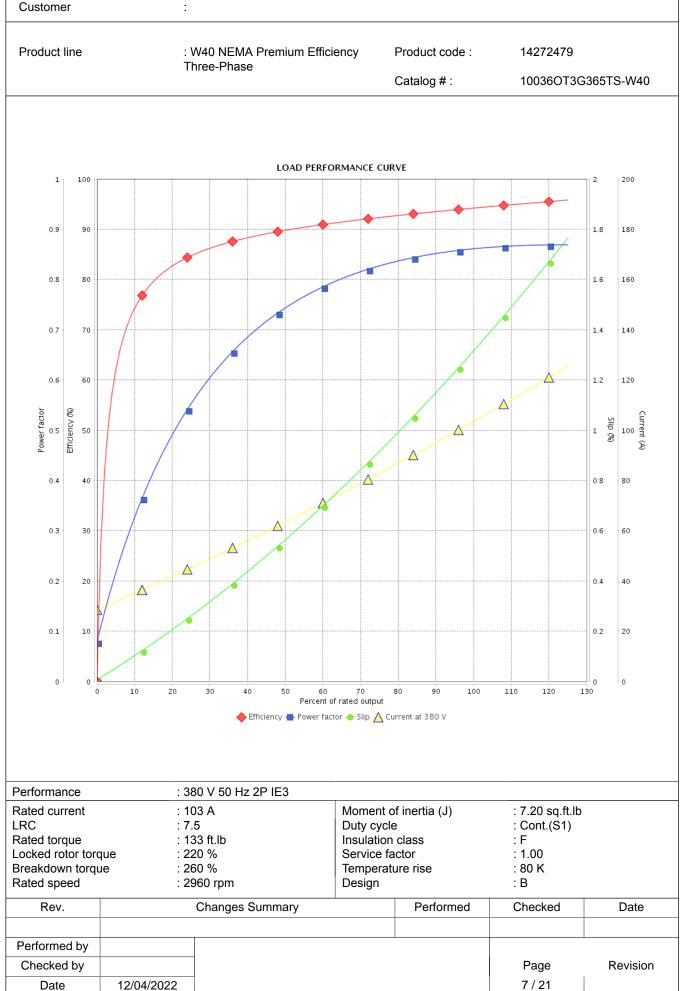


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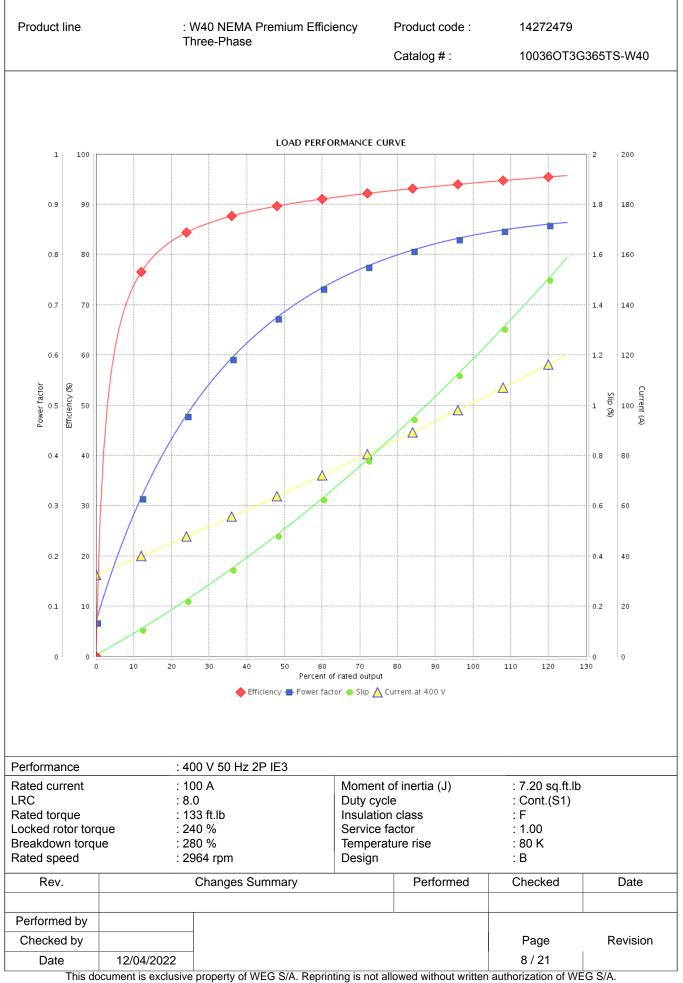
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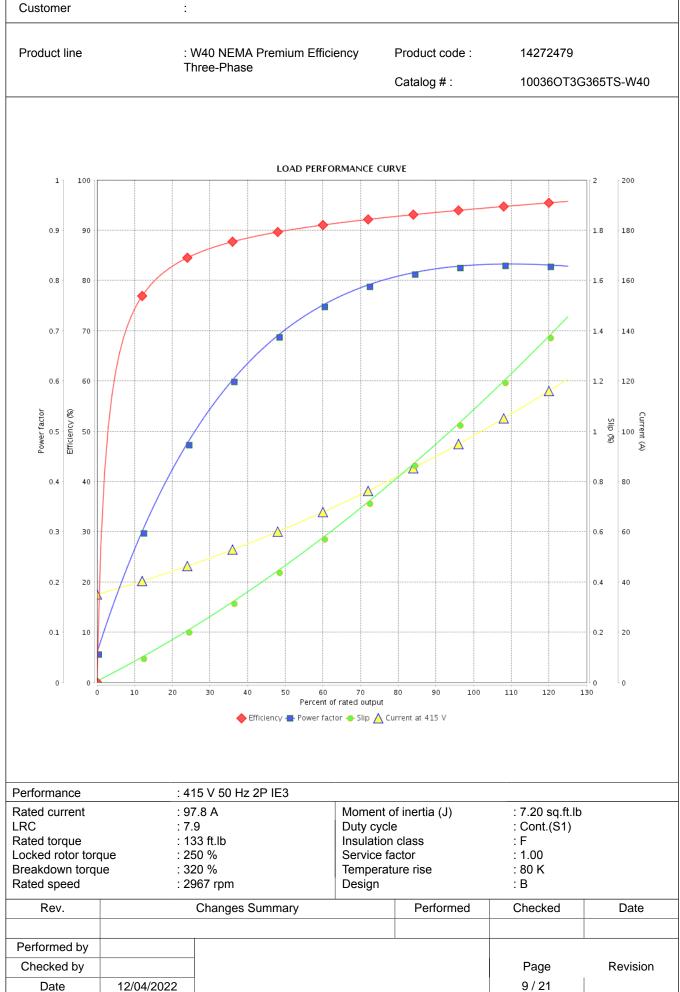


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## THERMAL LIMIT CURVE

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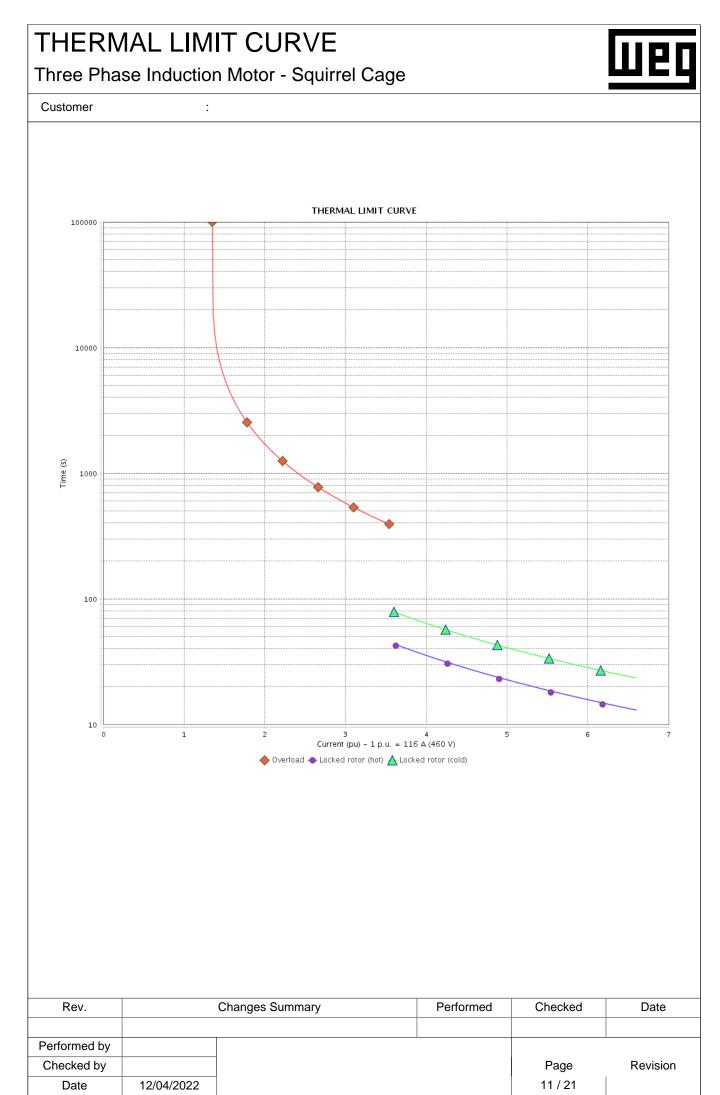
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Customer

Product line :: W40 NEMA Premium Efficiency Product code :: 14272479 Three-Phase Catalog # : 100360T3G365 Performance :: 460 V 60 Hz 2P Reted current :: 115 A LFC :: 6.6 Duty cycle :: Cont.(S1) Insulation class :: F Locked rolor borgue :: 400 V Service factor :: 1.25 Service factor :: 1.26 Service factor :: 1.26 Service factor :: 1.26 Reted speed :: 3555 rpm Design :: B Heating constant Cooling constant Cooling constant Cooling constant Cooling constant Cooling constant Cooling constant Catalog # : 100360T3G365						
Performance     : 460 V 60 Hz 2P       Rated current     :116 A       URC     : 6.6       Duty cycle     : Cont(S1)       Rated current     :148 fub       Isservice factor     : 1.25       Rated current     :148 fub       Isservice factor     : 1.25       Breakdown torque     :229 %       Temperature rise     :: 60 K       Design     :: B       Heating constant	oduct line		ency	Product code :	14272479	
Rated current: 116 AMoment of inertia (J): 7.20 sq.ft.lbLRC: 6.6Duty cycle: Cont.(S1)Rated torque: 148 ft.lbInsulation class: FLocked rotor torque: 180 %Service factor: 1.25Breakdown torque: 229 %Temperature rise: 80 KRated speed: 3555 rpmDesign: B				Catalog # :	10036OT30	365TS-W40
Rated current: 116 AMoment of inertia (J): 7.20 sq.ft.lbLRC: 6.6Duty cycle: Cont.(S1)Rated torque: 148 ft.lbInsulation class: FLocked rotor torque: 180 %Service factor: 1.25Breakdown torque: 229 %Temperature rise: 80 KRated speed: 3555 rpmDesign: B						
Rated current: 116 AMoment of inertia (J): 7.20 sq.ft.lbLRC: 6.6Duty cycle: Cont.(S1)Rated torque: 148 ft.lbInsulation class: FLocked rotor torque: 180 %Service factor: 1.25Breakdown torque: 229 %Temperature rise: 80 KRated speed: 3555 rpmDesign: B						
LRC       : 6.6       Duty cycle       : Cont.(S1)         Rated torque       : 148 ft.lb       Insulation class       : F         Locked rotor torque       : 180 %       Service factor       : 1.25         Breakdown torque       : 229 %       Temperature rise       : 80 K         Rated speed       : 3555 rpm       Design       : B         Heating constant       Cooling constant	ormance	: 460 V 60 Hz 2P				
Heating constant Cooling constant	; ed torque ked rotor torqu akdown torque	: 6.6 : 148 ft.lb e : 180 % : 229 %	Duty cycle Insulation Service fa Temperat	e class actor	: Cont.(S1) : F : 1.25 : 80 K	
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Three Phase Induction Motor - Squirrel Cage

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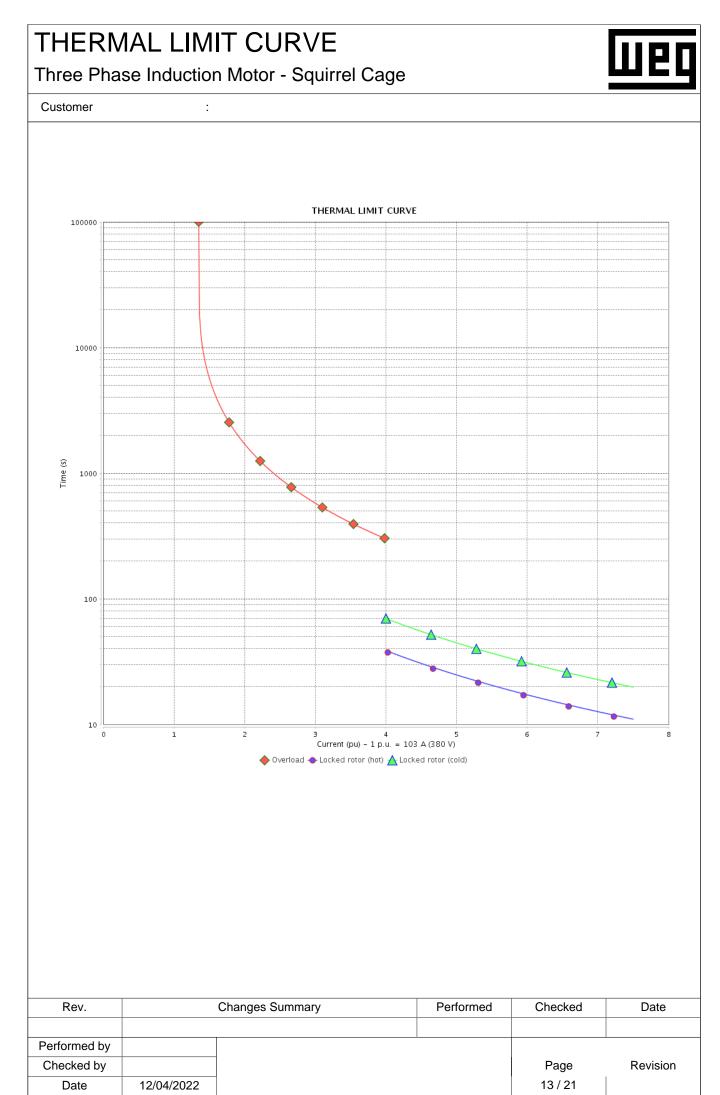
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Product line		: W40 NEMA Premium Effici Three-Phase	-	Product code : Catalog # :	14272479 10036OT3G	365TS-W40
Performance	:	380 V 50 Hz 2P IE3			<u>.</u>	
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: ue : e :	103 A 7.5 133 ft.lb 220 % 260 % 2960 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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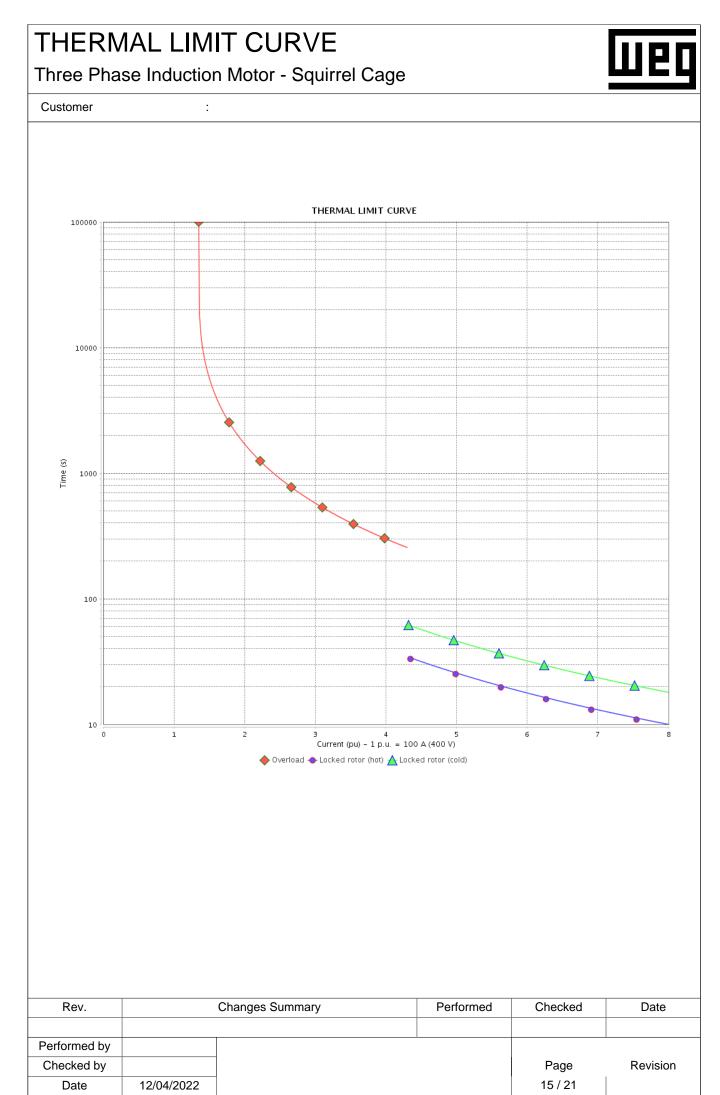
Product line		: W40 NEMA Premium Effici Three-Phase	iency	Product code : 14272479		
				Catalog # :	10036OT3G	365TS-W40
Performance		400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	ue e	100 A 8.0 133 ft.lb 240 % 280 % 2964 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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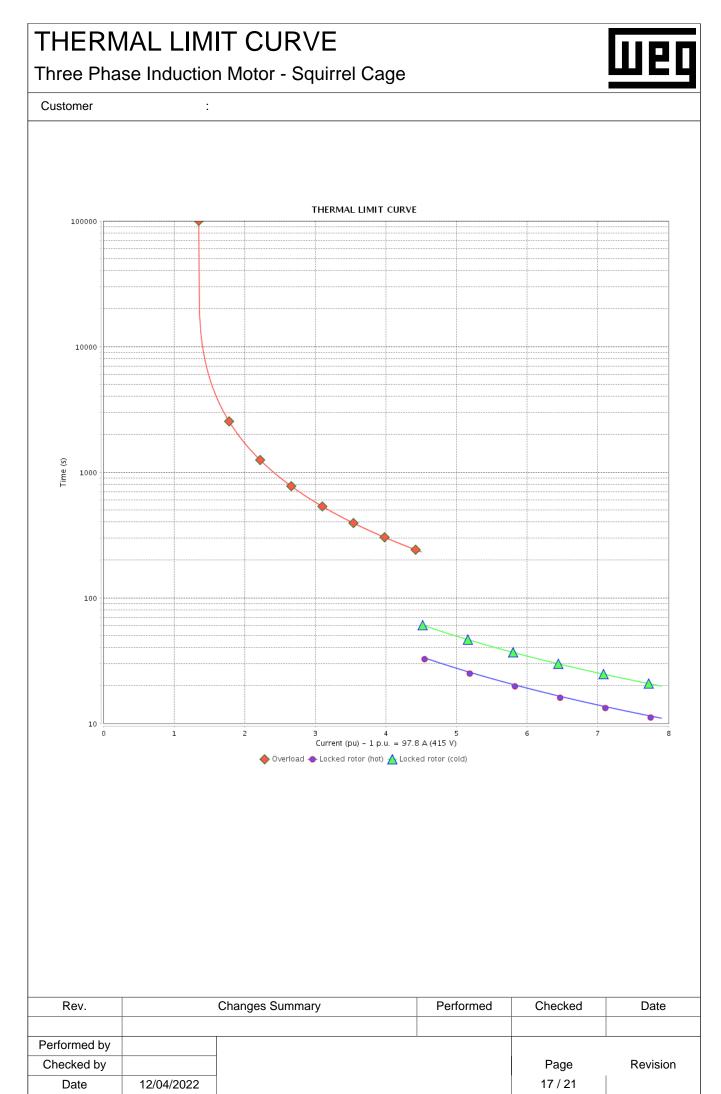
Product line		: W40 NEMA Premium Efficion Three-Phase	ency	Product code :	14272479	
				Catalog # :	10036OT3G	365TS-W40
Performance		415 V 50 Hz 2P IE3				
Rated current		97.8 A	Moment o	f inertia (J)	: 7.20 sq.ft.lb	
LRC	:	7.9	Duty cycle	9	: Cont.(S1)	
Rated torque		133 ft.lb 250 %	Insulation Service fa		: F : 1.00	
Locked rotor toro Breakdown torqu	le :	320 %	Temperati		: 80 K	
Rated speed		2967 rpm	Design		: B	
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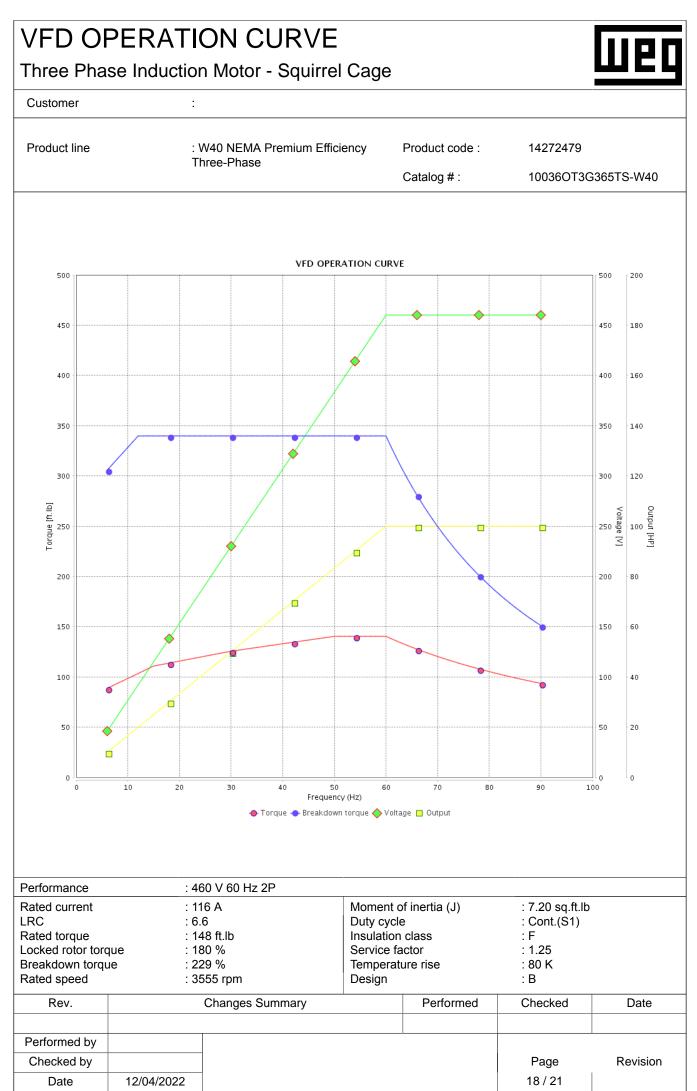
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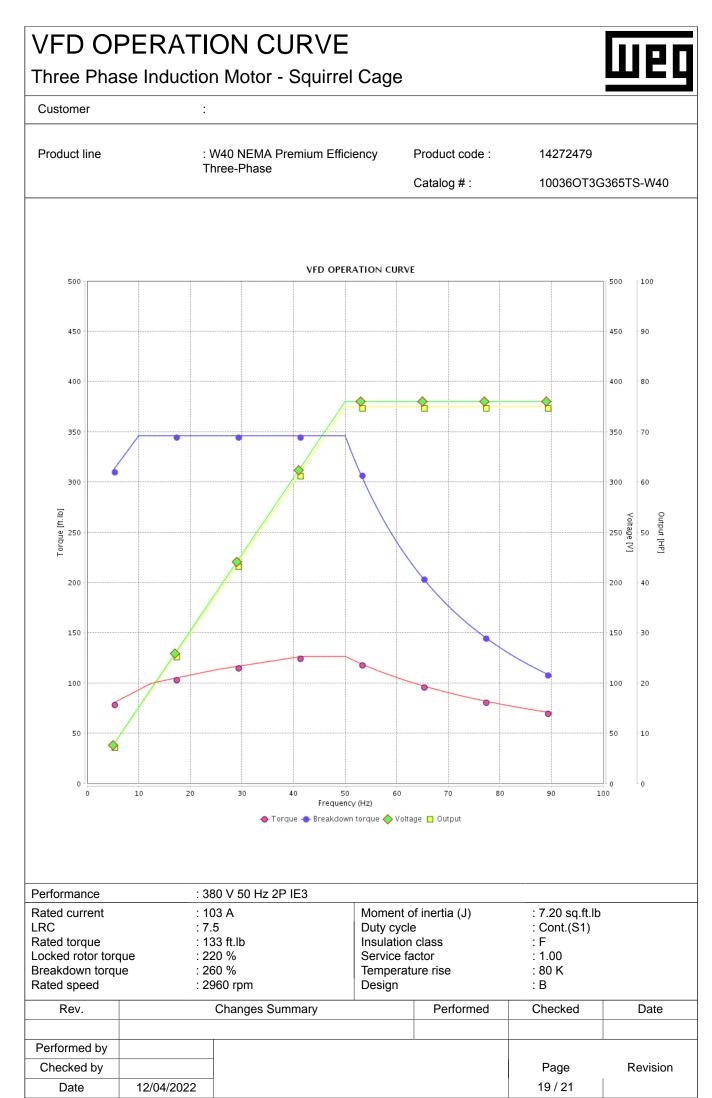
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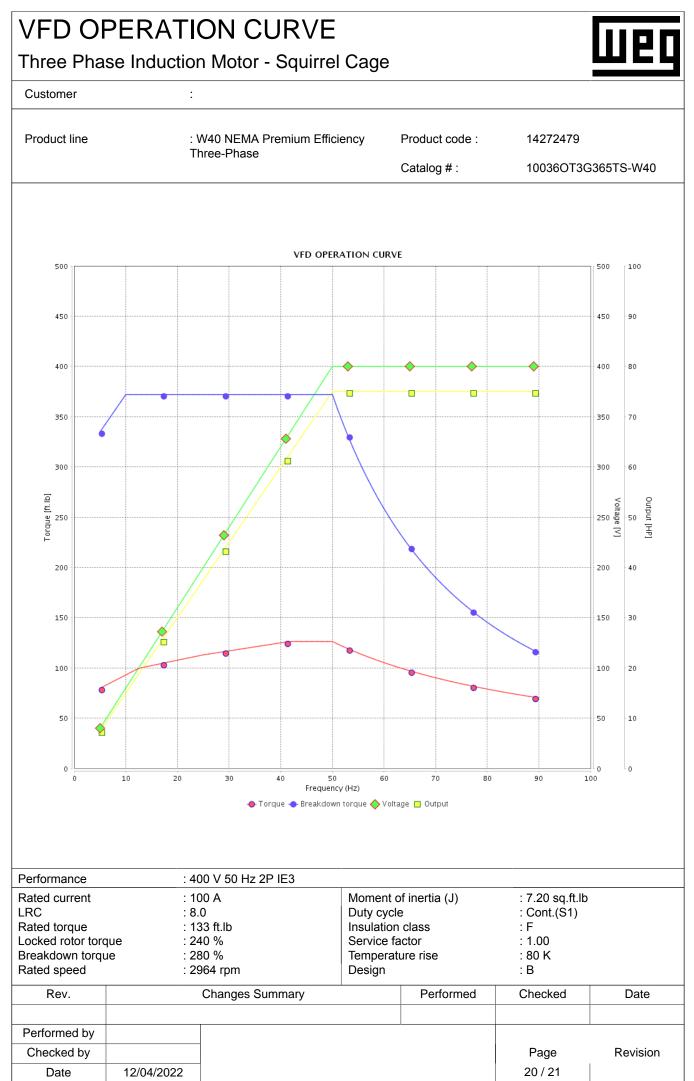
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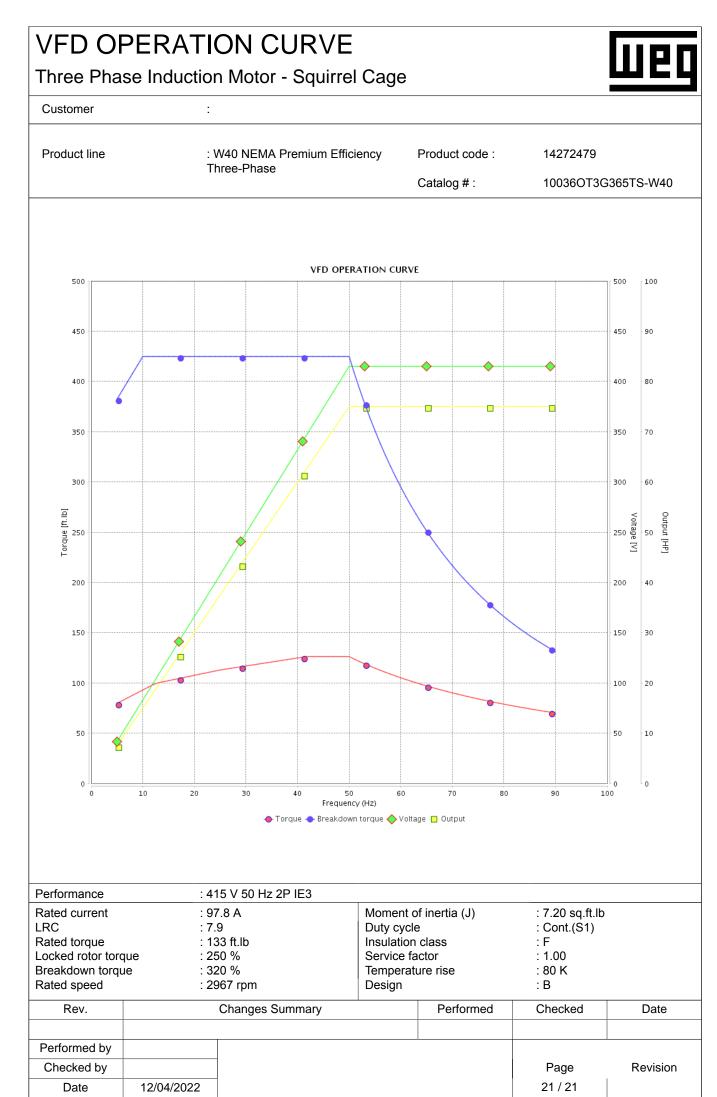
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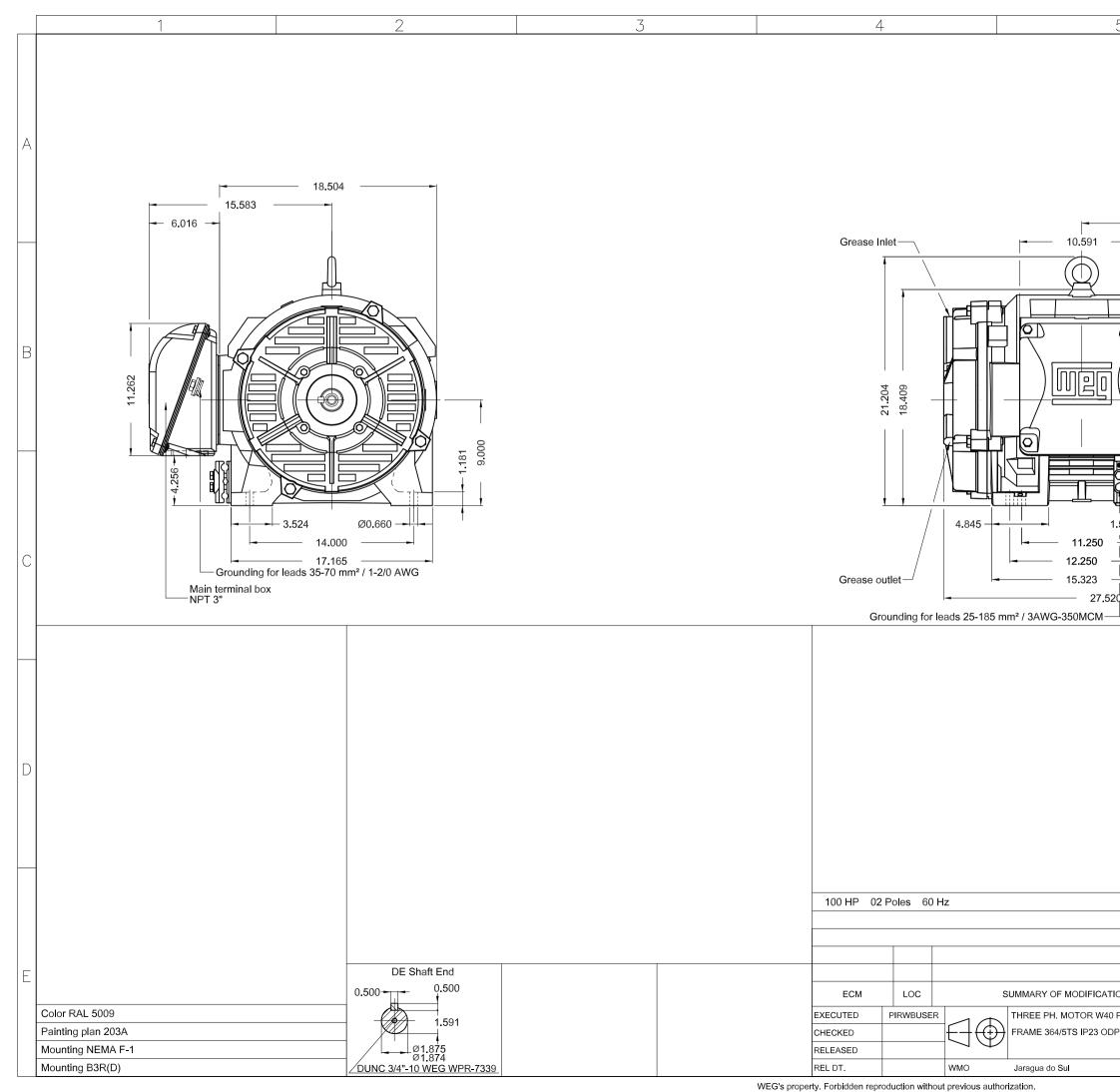












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