DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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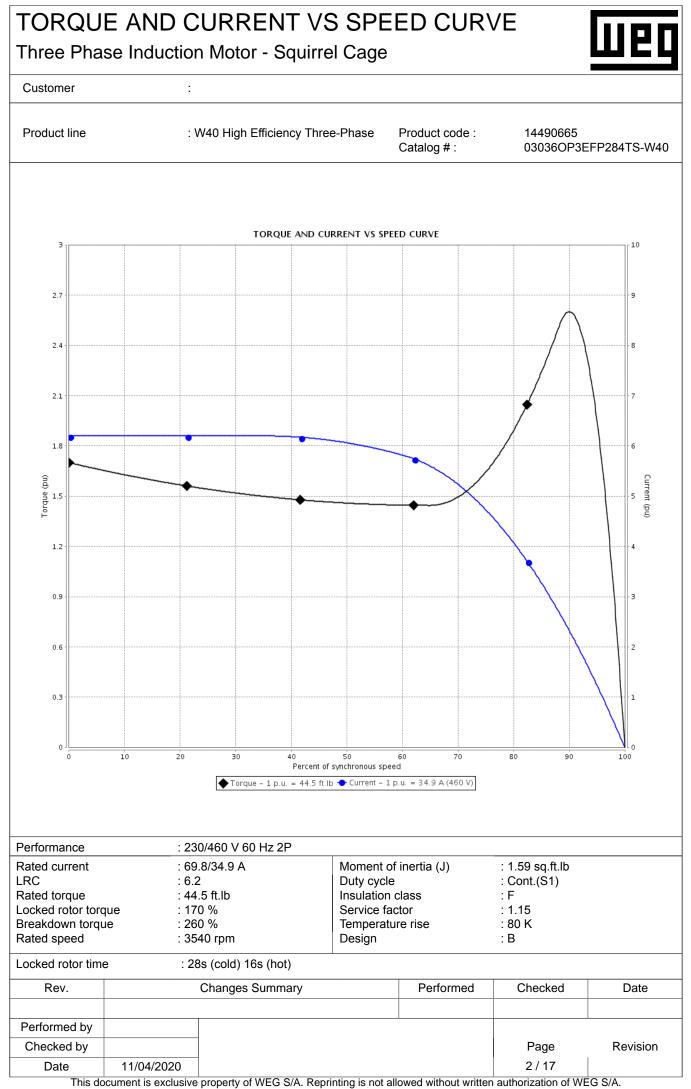


Product line		: W40 High Efficiency Three-Pha		nase Product code : Catalog # :			14490665 03036OP3EFP284TS-W40	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 284TS : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: F-1 : Both (: Direct : 301 lb	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 301 lb : 1.59 sq.ft.lb	
Output [HP]		30		80	30)	30	
Poles		2			2		2	
Frequency [Hz]		60			50		50	
Rated voltage [V]		230/460			40		415	
Rated current [A]		69.8/34.9	41.7		40.		39.2	
L. R. Amperes [A]		433/216			25		243	
LRC [A]		6.2x(Code G)			6.2x(Co		6.2x(Code G)	
No load current [A]		22.0/11.0			11.		12.0	
Rated speed [RPM]		3540			293		2935	
Slip [%]		1.67			2.3		2.17	
Rated torque [ft.lb]			44.5 54.0		53.		53.7	
Locked rotor torque [%]		170			13		150	
Breakdown torque [%]		260	200		21		229	
Service factor			1.15 1.00		1.1		1.15	
Temperature rise			80 K 105 K		80		80 K	
Locked rotor time		28s (cold) 16s (hot)	8s (cold) 16s (hot) 16s (cold) 9s		16s (cold)	9s (hot)	18s (cold) 10s (hot)	
Noise level ²								
Efficiency (%)	25%	90.0		9.3	89.		90.0	
	50%	90.2	89.5		90.		90.2	
	75%	91.0	90.0		90.		90.8	
	100%	91.0	90.0		90.		90.8	
Power Factor	25%	0.50	0.58		0.5		0.50	
	50%	0.74	0.80		0.7		0.72	
	75%	0.83	0.86		0.8		0.82	
	100%	0.87	0.89		0.8	7	0.86	
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		6311 Z C3 621 Without Wi Bearing Seal Beari 20000 h 200	1 Z C3 Ma thout Ma ng Seal 000 h 1 g	Max. traction Max. compression				
Notes USABLE @208V			nich Th			paged on top	to with cinusoidal	
must be eliminate (1) Looking the m	ed. lotor from the Im and with to weight subject ocess.	lerance of +3dB(A).	ро		-		ts with sinusoidal stipulated in NEMA	
Rev.		Changes Summary			Performed	Checked	Date	
Performed by								
Checked by Date	11/04/2020					Page 1 / 17	Revision	

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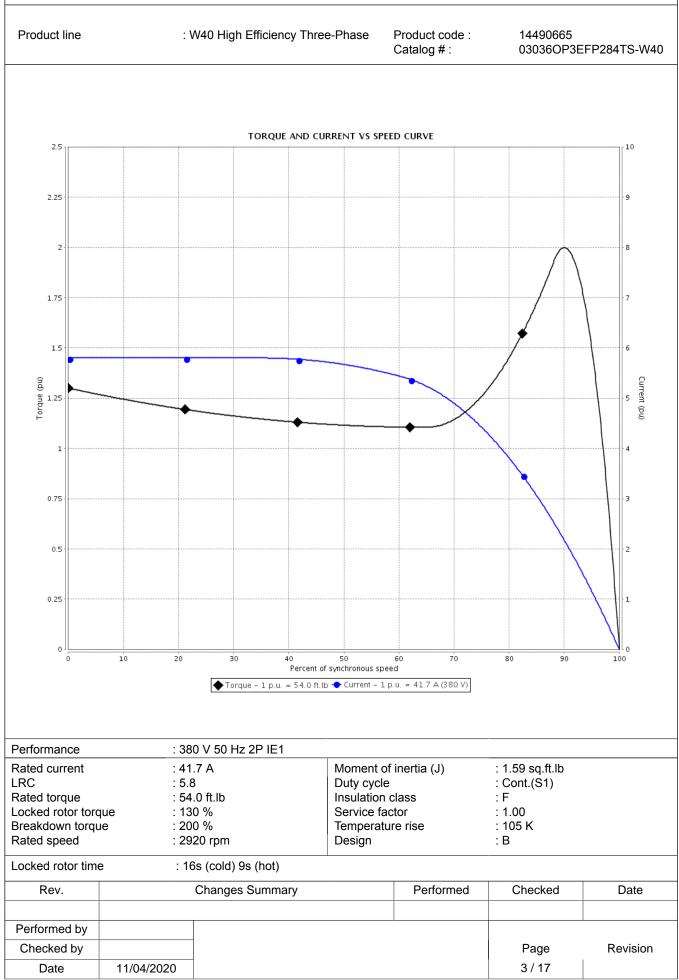
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TORQUE AND CURRENT VS SPEED CURVE

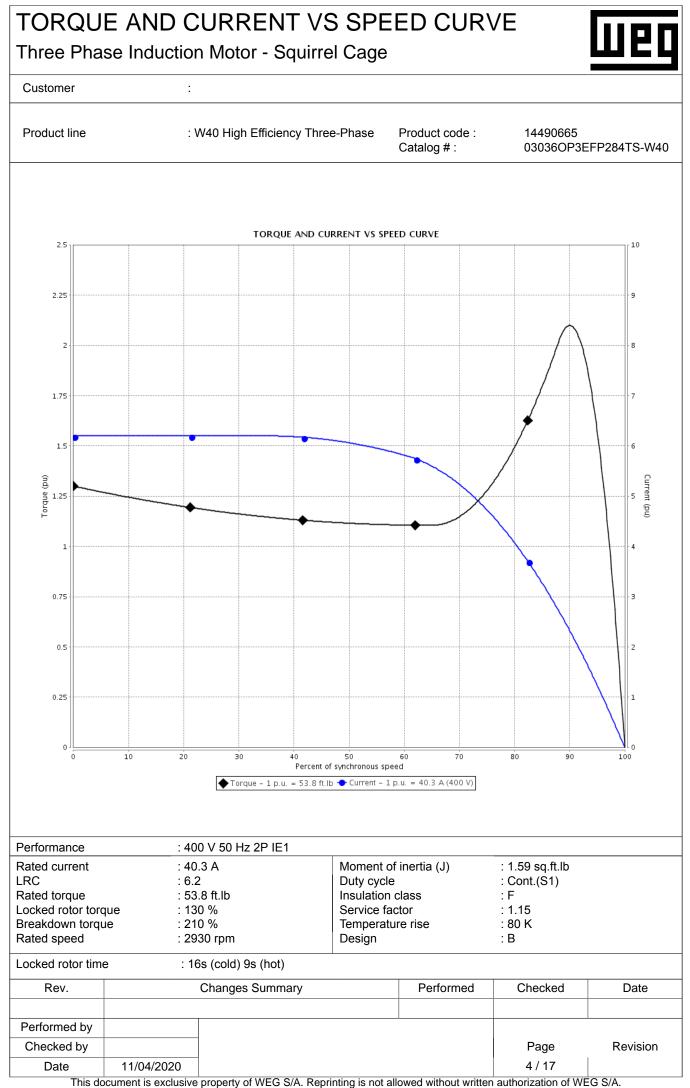
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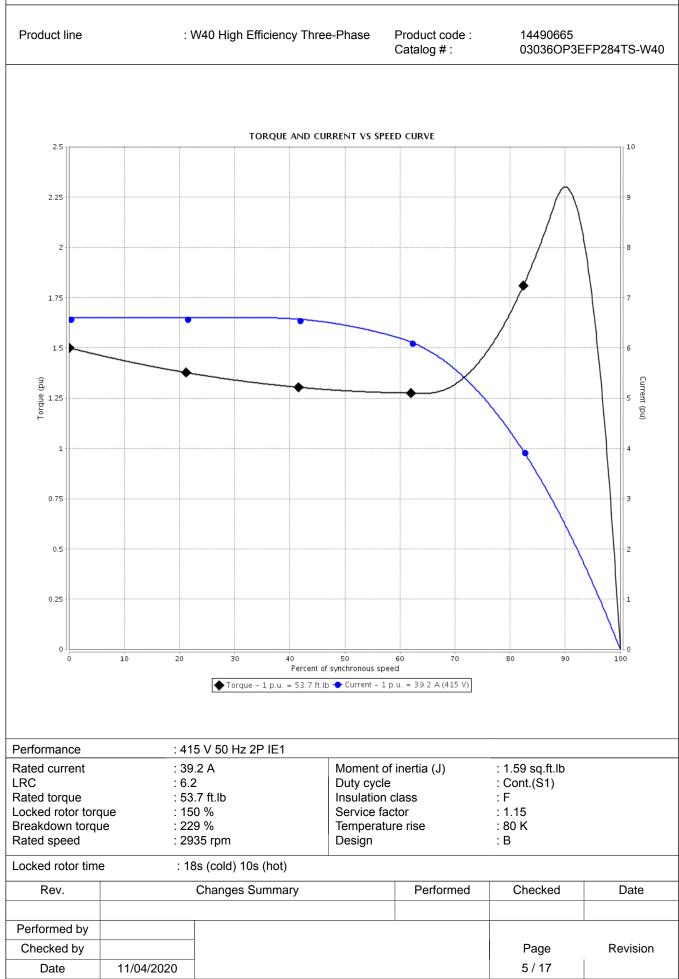
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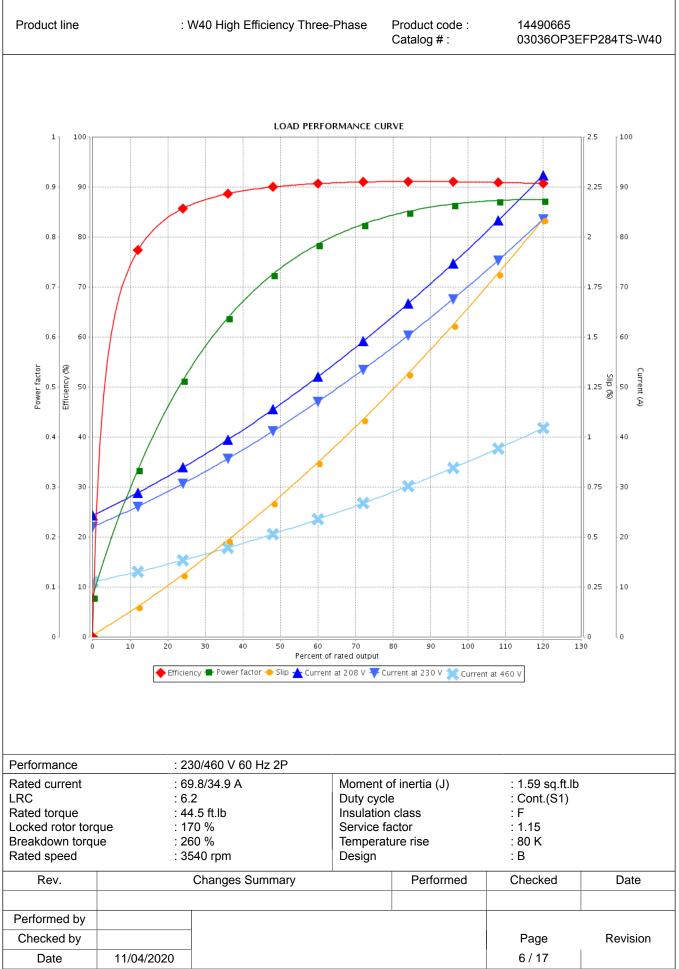
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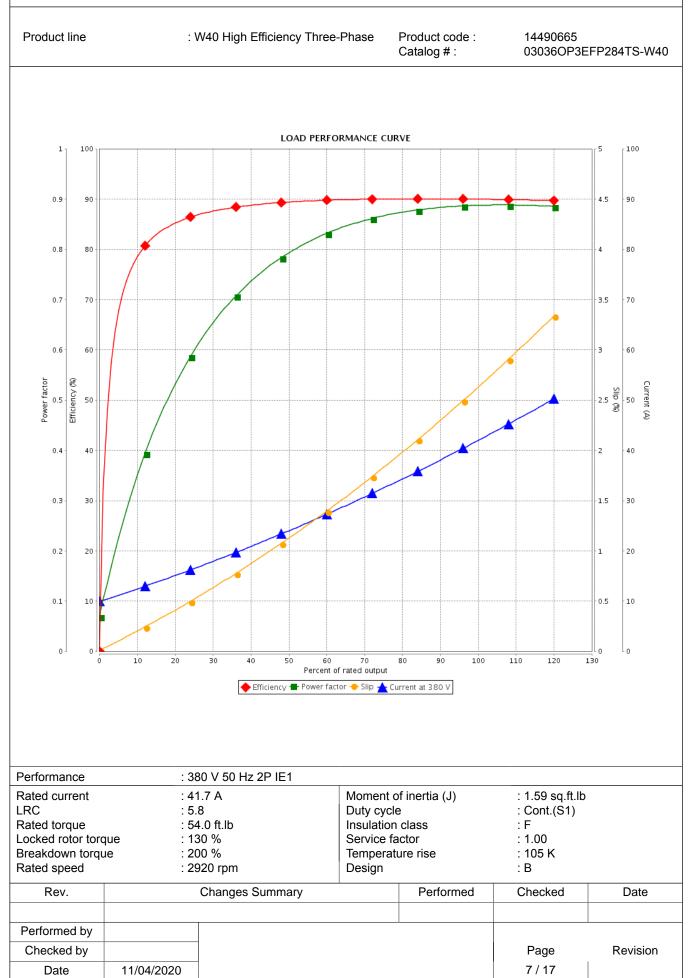


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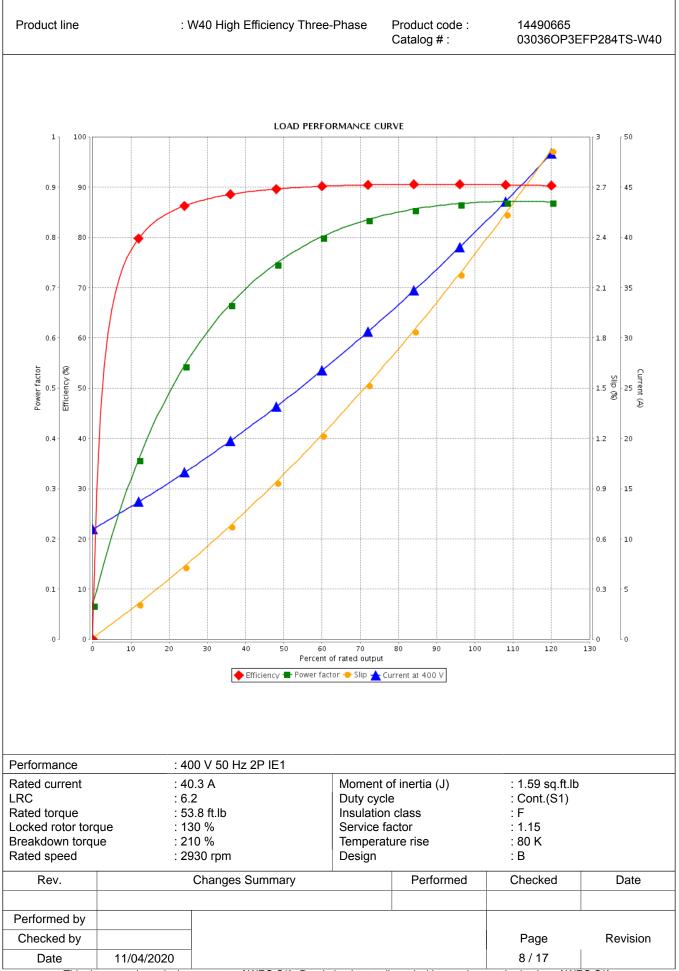
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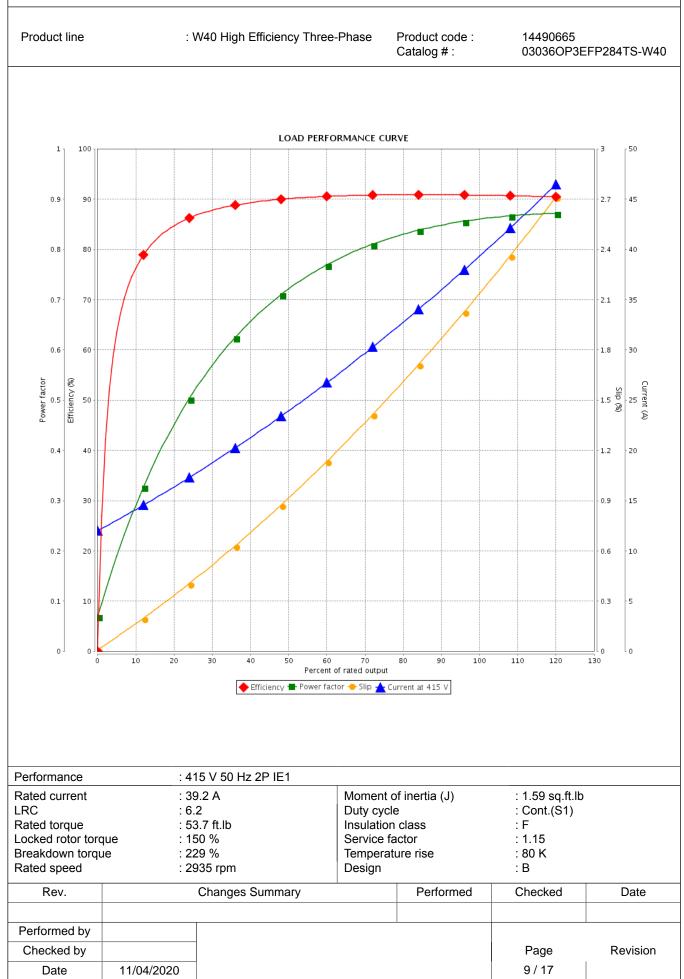


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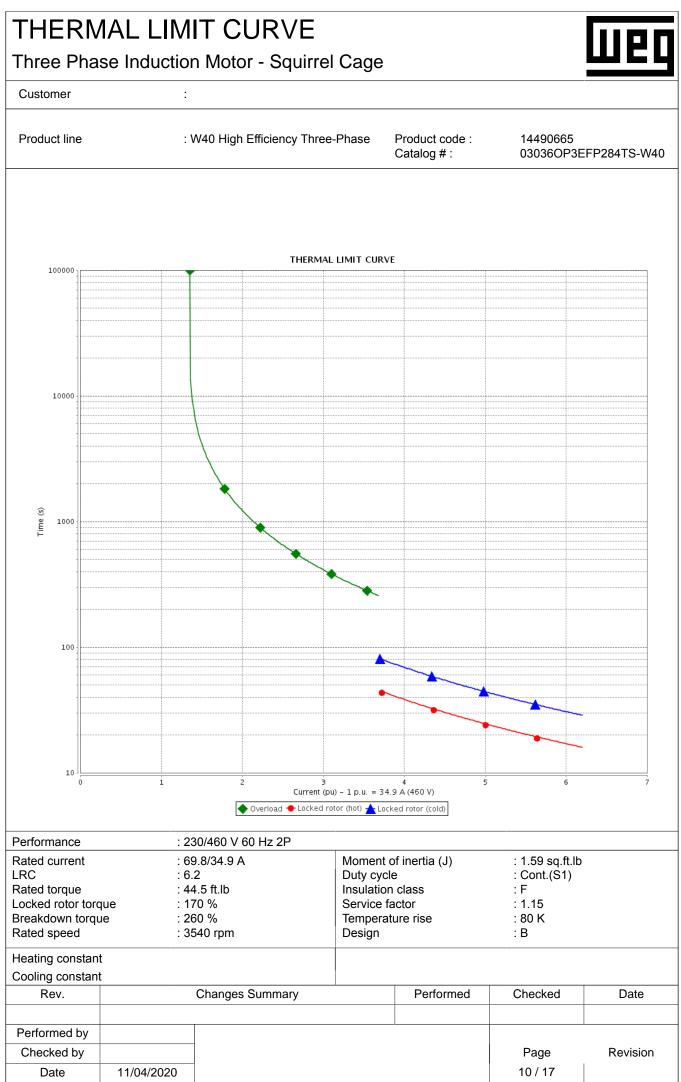
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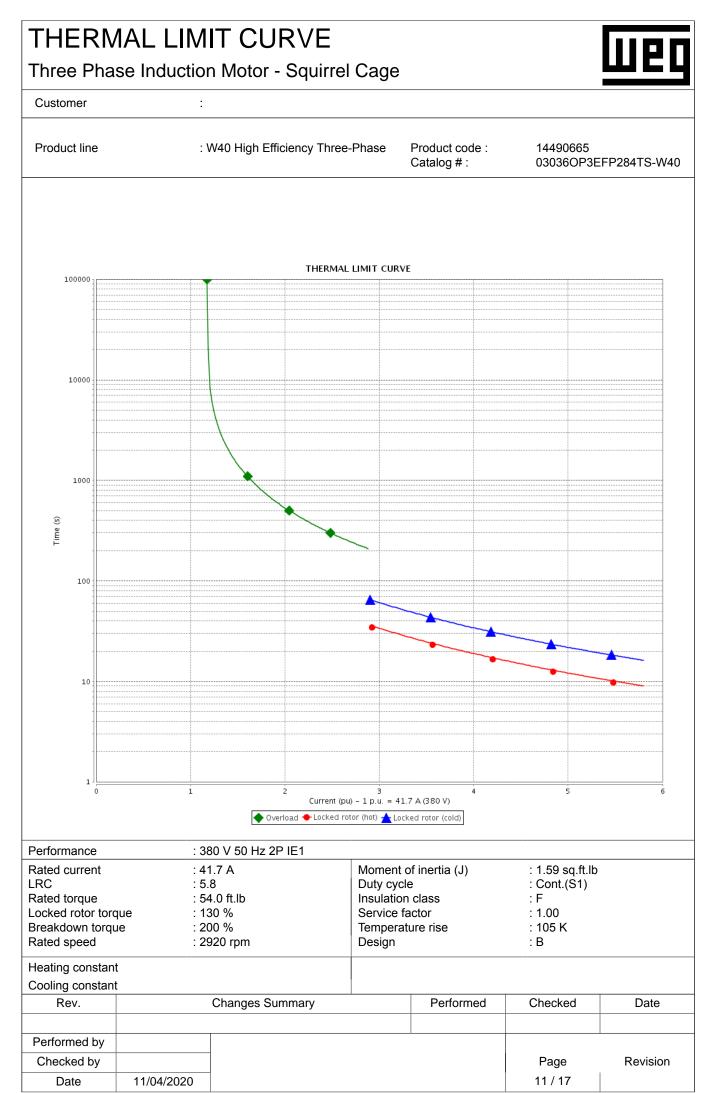
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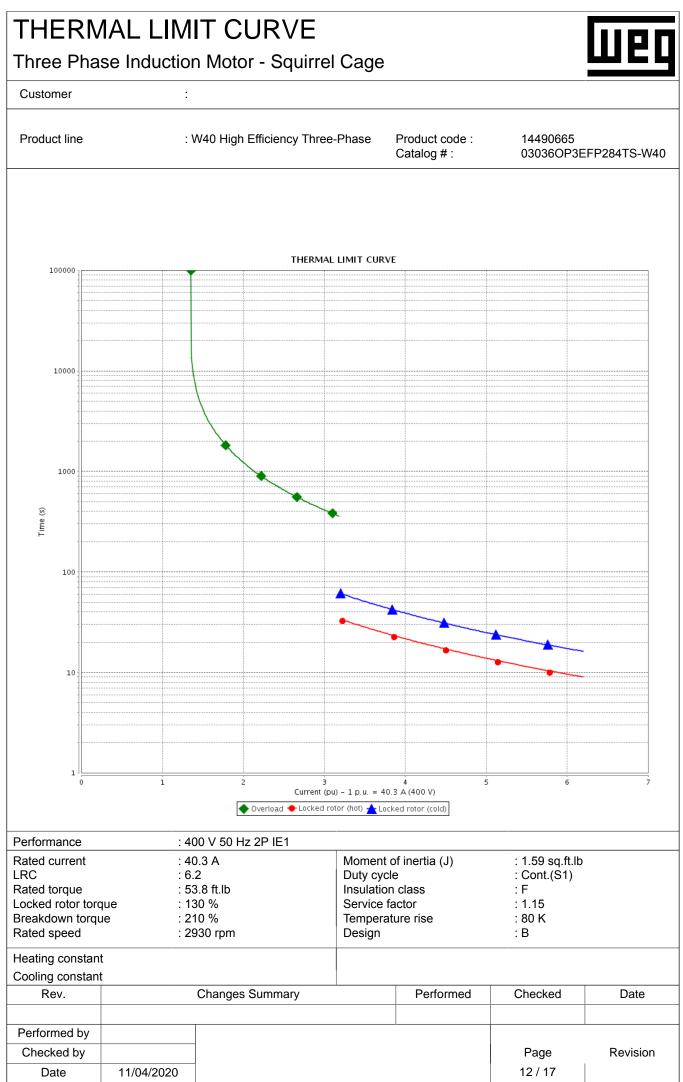
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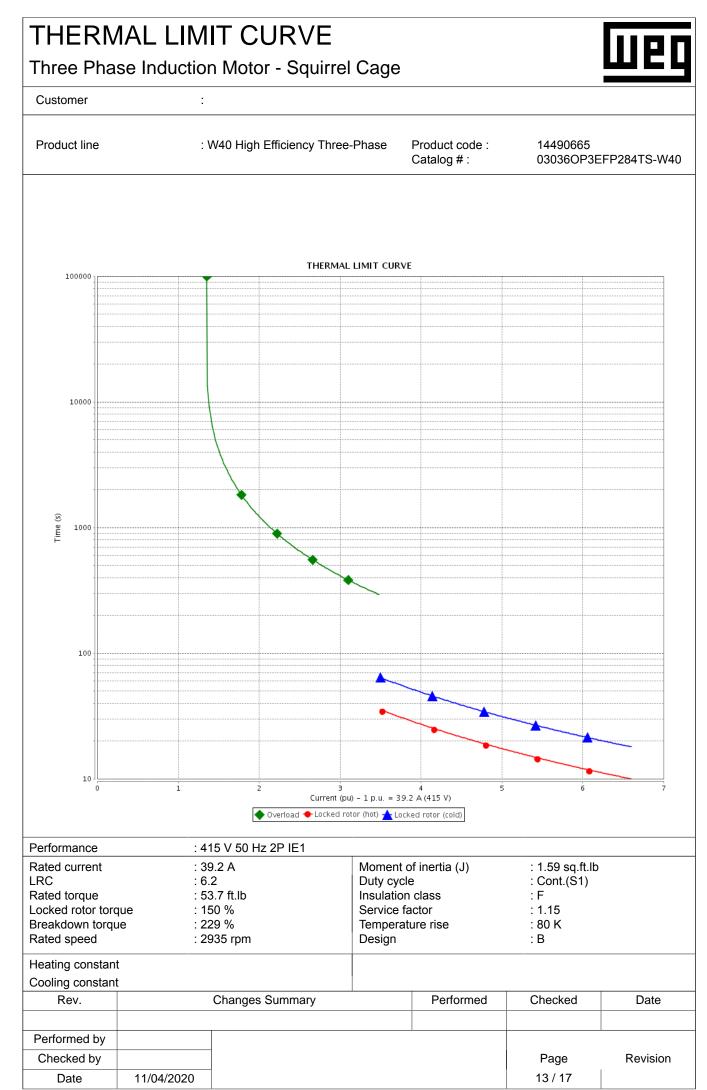


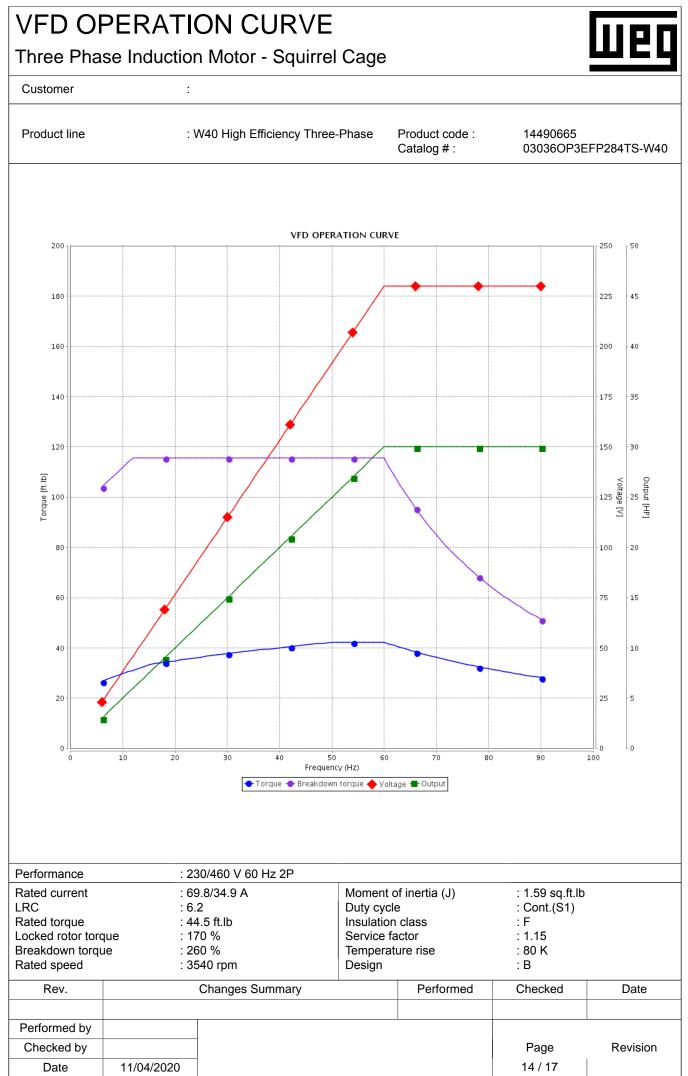
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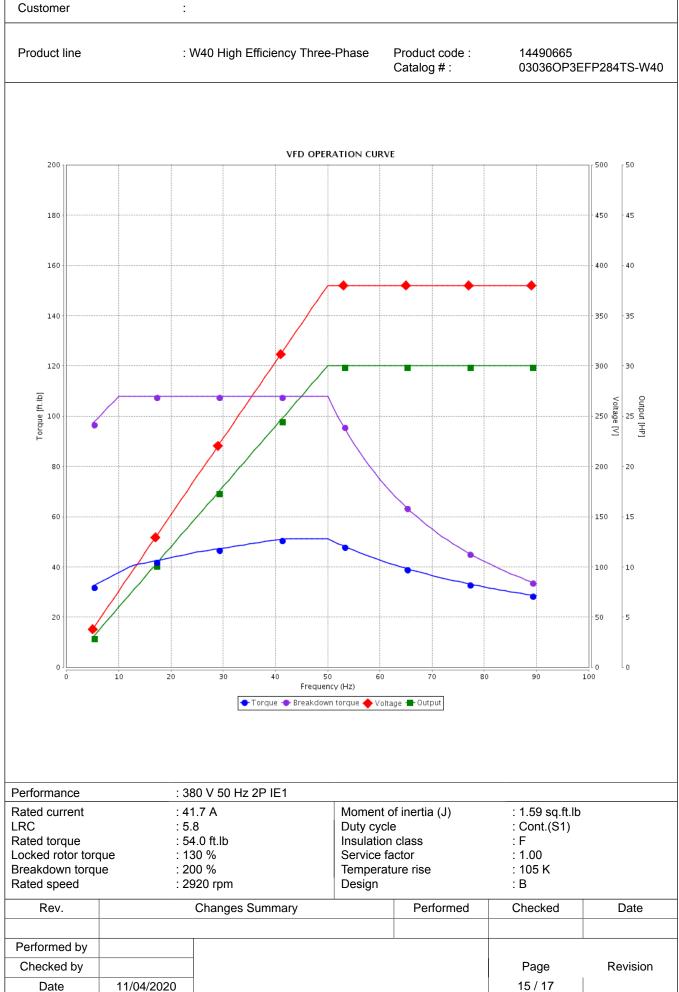




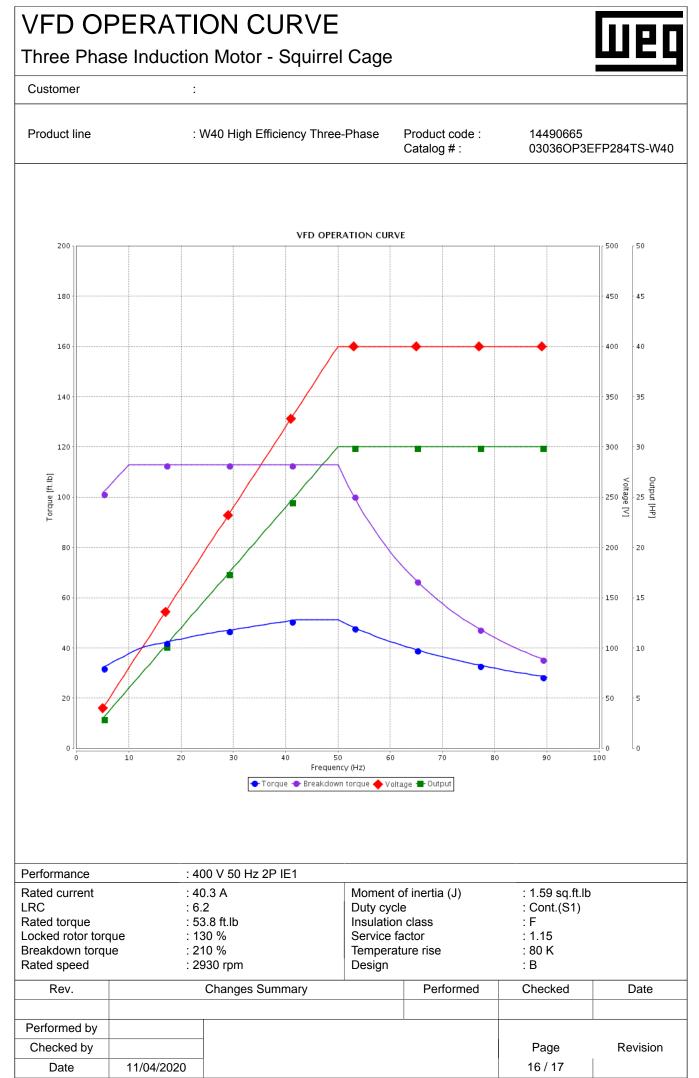
VFD OPERATION CURVE

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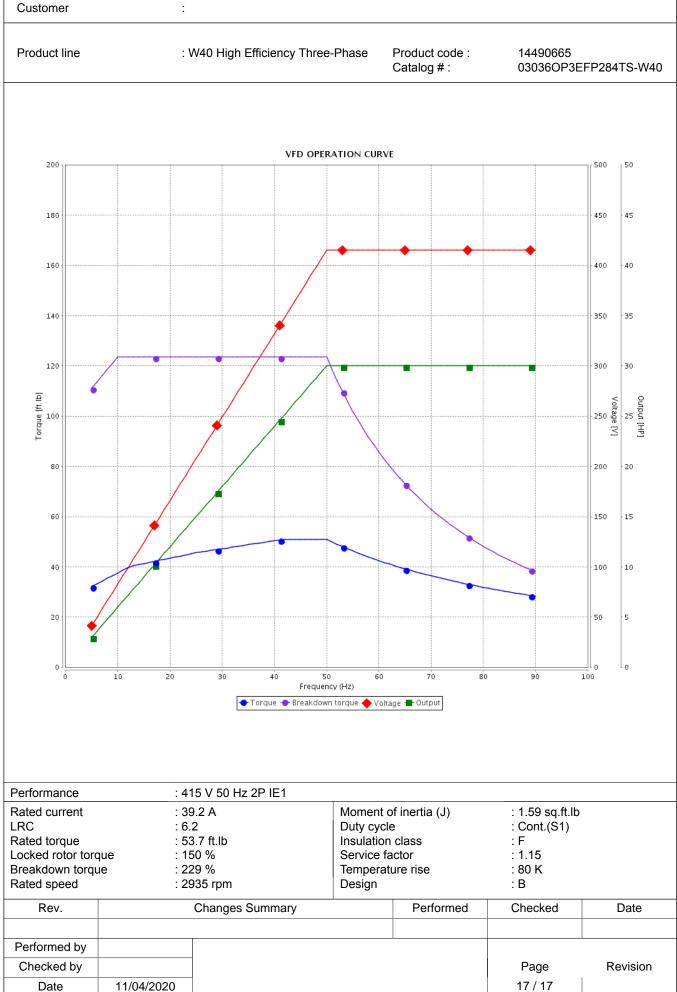


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