DATA SHEET

Three Phase Induction Motor - Squirrel Cage

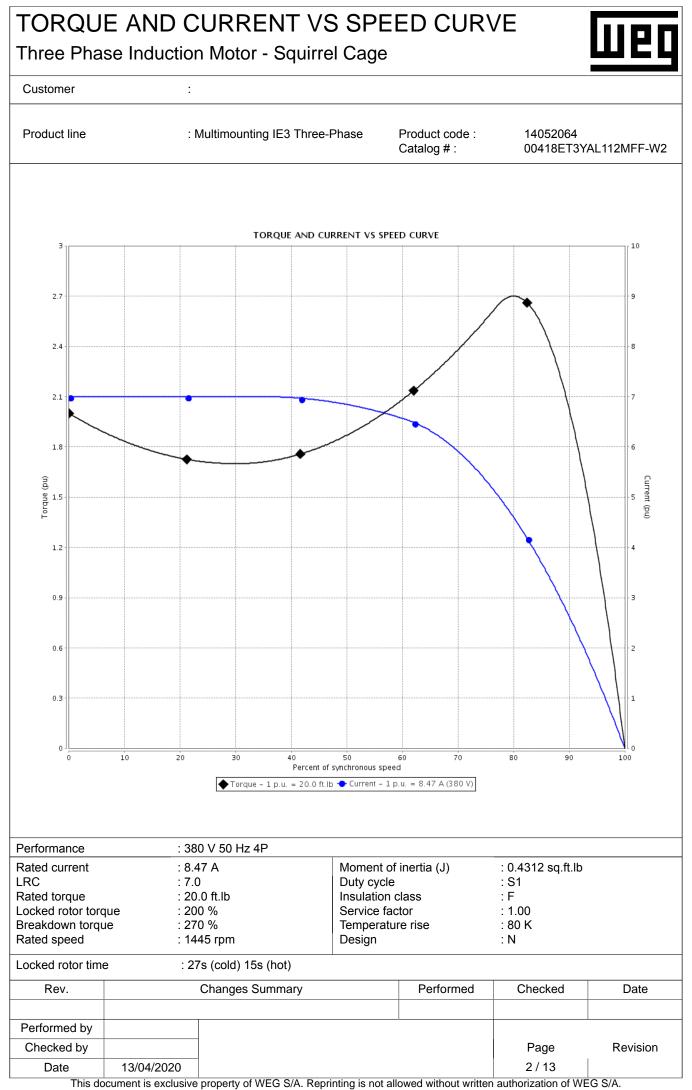
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Product line		: Multimounting IE3 Three-Phase			Product code : Catalog # :	14052064 00418ET3Y	14052064 00418ET3YAL112MFF-W2		
Frame		: 112M		Coolina	method	: IC411 - TE	FC		
Insulation class		: F		Mounting		: B35L(E)			
Duty cycle		: S1		Rotation		: Both (CW	and CCW)		
Ambient tempera	ature	: -20°C to +40°C		Starting method			: Direct On Line		
Altitude		: 1000 m.a.s.l.		Approx. weight ³		: 92.7 lb			
		: 1000 m.a.s.i. : IP55		Moment of inertia (J)			ft lb		
Protection degree Design	e	. 1955 : N		women	t of mertia (J)	: 0.4312 sq.	11.10		
-									
Dutput [HP]		5.5		5.5			5.5		
Poles		4		4			4		
Frequency [Hz]			50		50		60		
Rated voltage [V]		380		415			460		
Rated current [A]		8.47		8.09			7.28		
R. Amperes [A]		59.3		56.6		58.2			
.RC [A]		7.0		7.0			8.0		
lo load current [A]]	4.15	5	4.95			4.25		
Rated speed [RPN		144	1445		1455		1755		
Slip [%]		3.67		3.00			2.50		
Rated torque [ft.lb]		20.0			19.9		16.5		
ocked rotor torqu		200			260		250		
Breakdown torque [%]		270			340		350		
Service factor		1.00			1.00		1.25		
Temperature rise					80 K		80 K		
Locked rotor time			80 K		(cold) 15s (hot)		ld) 19s (hot)		
Noise level ²			27s (cold) 15s (hot) 56.0 dB(A)		56.0 dB(A)		0 dB(A)		
	25%	50.0 dE	p(A)		50.0 UD(A)	50.			
			,		00 0		07 5		
Efficiency (%)	50%		89.3		88.2		87.5		
	75%	89.0			88.9		89.5		
	100%	88.6		89.3			89.5		
	25%								
Power Factor	50%	0.65		0.57			0.58		
	75%	0.76			0.70		0.70		
	100%	0.81		0.77		0.77			
		Drive end	Non drive end	Foundat	on loads				
Bearing type		: 6207 ZZ	6206 ZZ	Max. tra		: 318 lb			
Sealing		: V'Ring			npression	: 410 lb			
Lubrication interv	val	. vixing	• i \iiig		1000001	10 10			
Lubricant amoun		· -	-						
Lubricant type	L	: - : Mobil Po	vrex FM						
Notes									
This revision real:	aces and ca	ncel the previous o	ne which	These a	e averade values	based on tests wi	th sinusoidal		
must be eliminate						le tolerances stipu			
		a shaft and		MG-1.	ippiy, subject to th	ic tolerances supu			
(1) Looking the m			A)	IVIG-1.					
		tolerance of +3dB(A).						
		ct to changes after							
manufacturing pro									
(4) At 100% of ful	l load.								
Rev.		Changes Sun	omary		Performed	Checked	Date		
1104.		Changes Sur	innai y		renonneu	Checkeu	Dale		

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Performed by				
Checked by			Page	Revision
Date	13/04/2020		1 / 13	





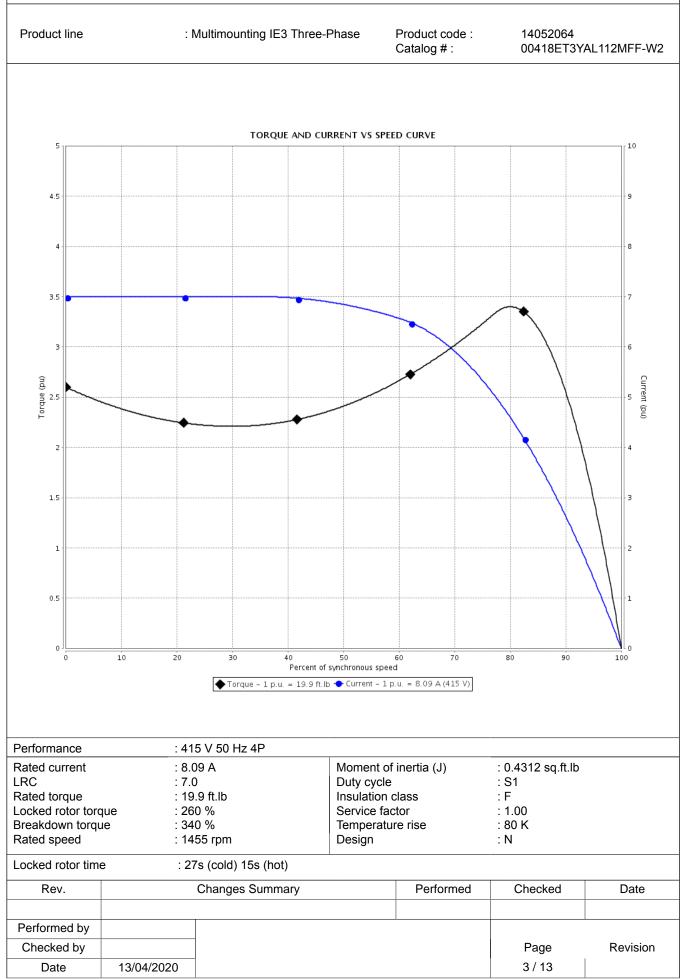
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TORQUE AND CURRENT VS SPEED CURVE

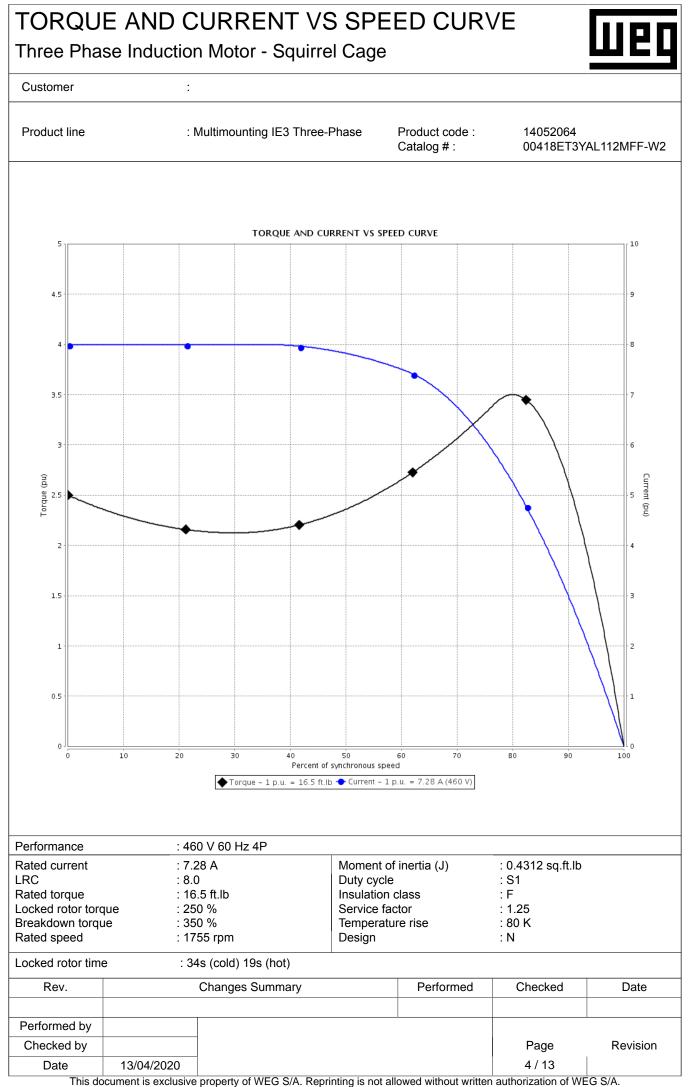
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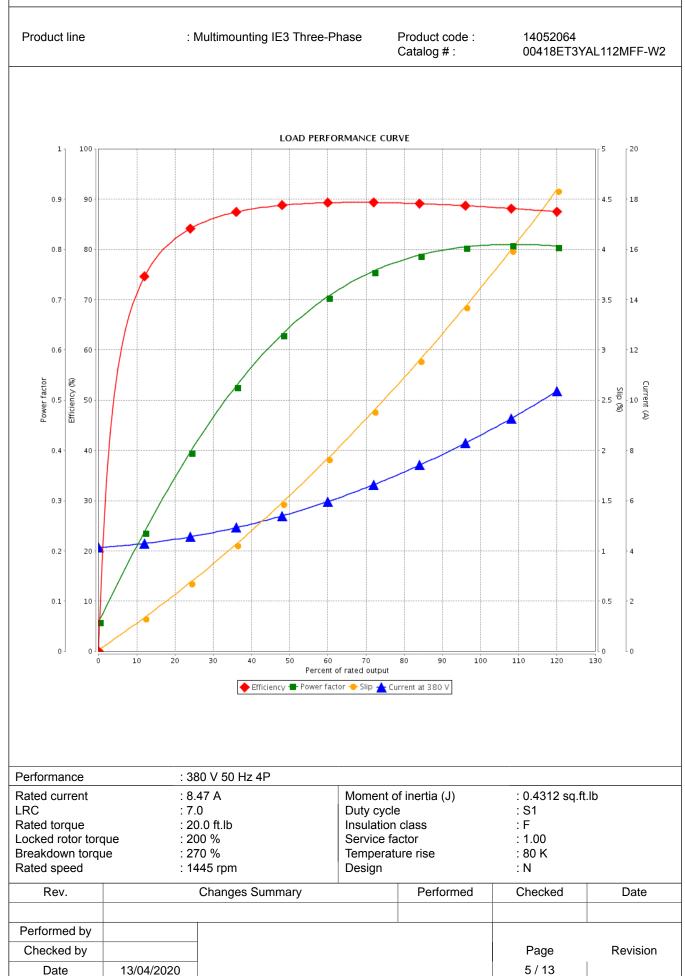
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LOAD PERFORMANCE CURVE

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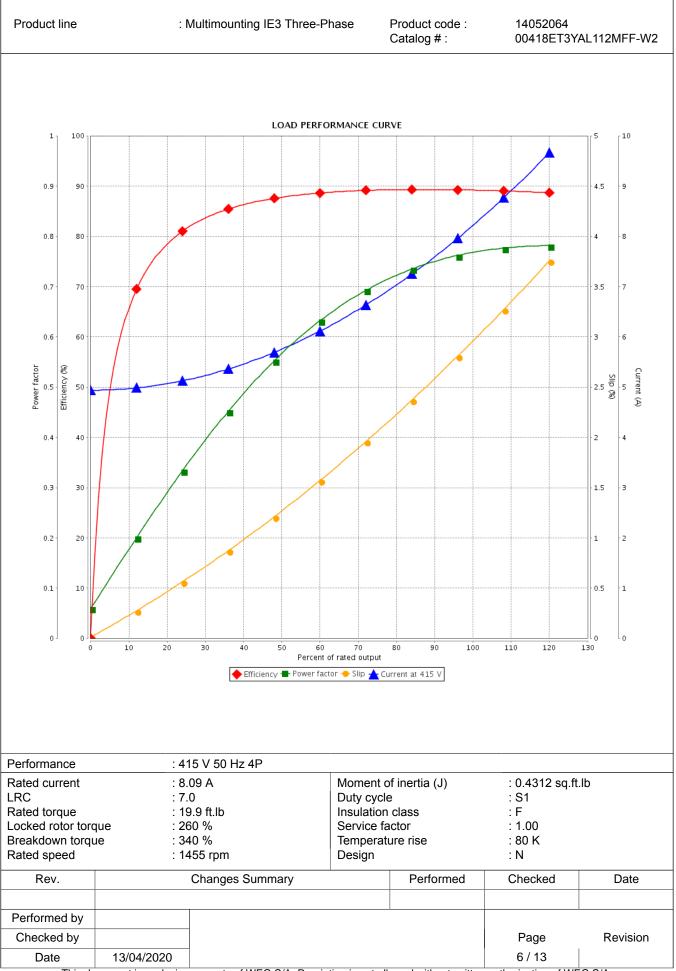
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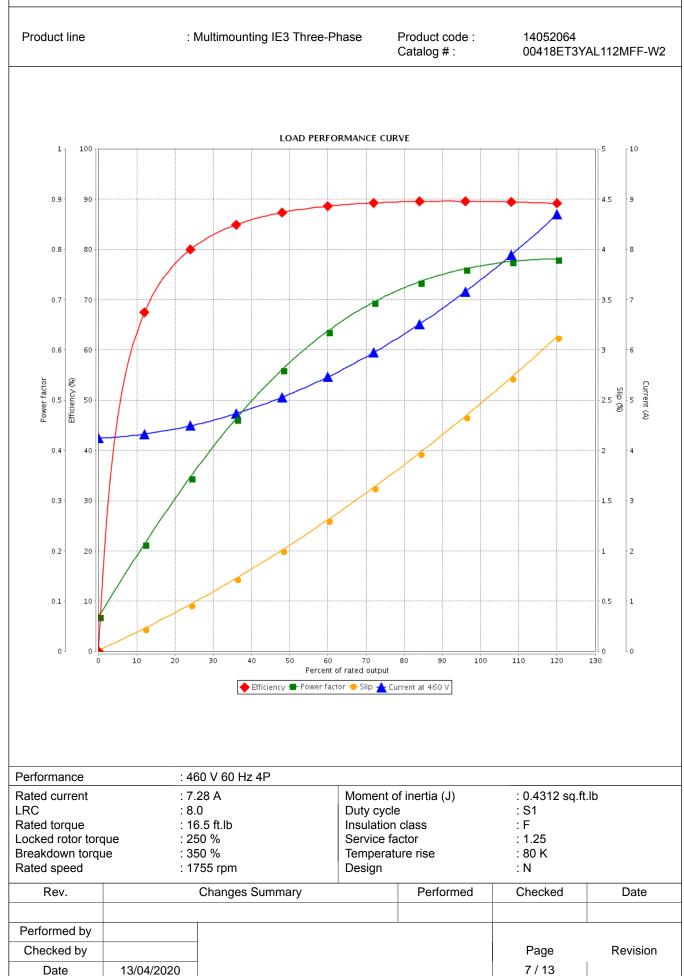


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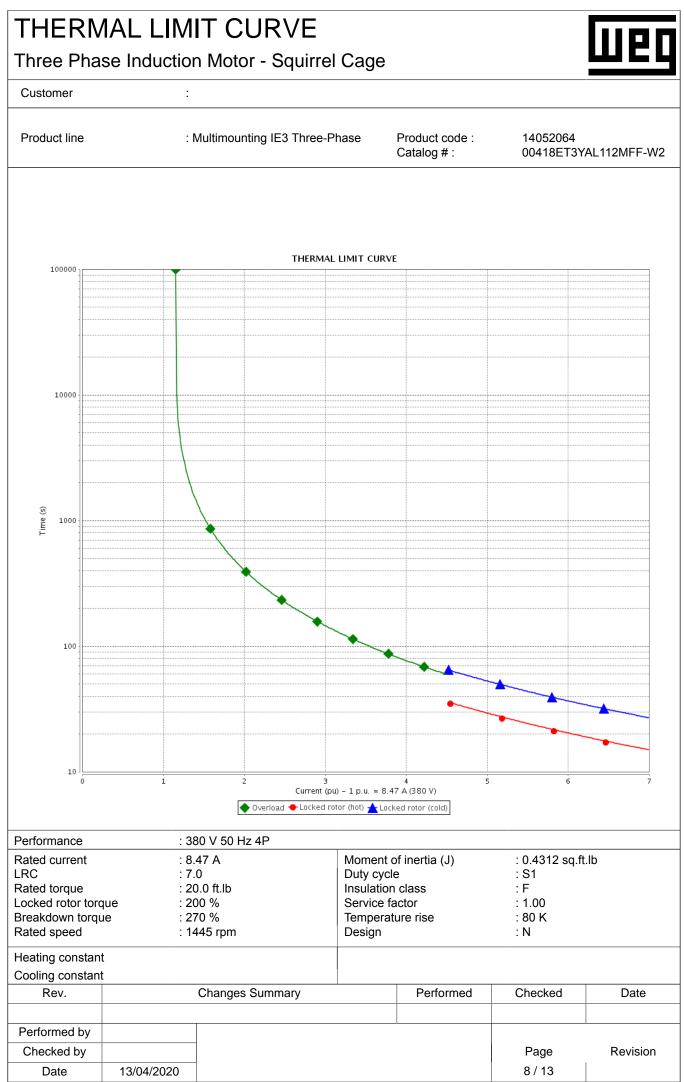
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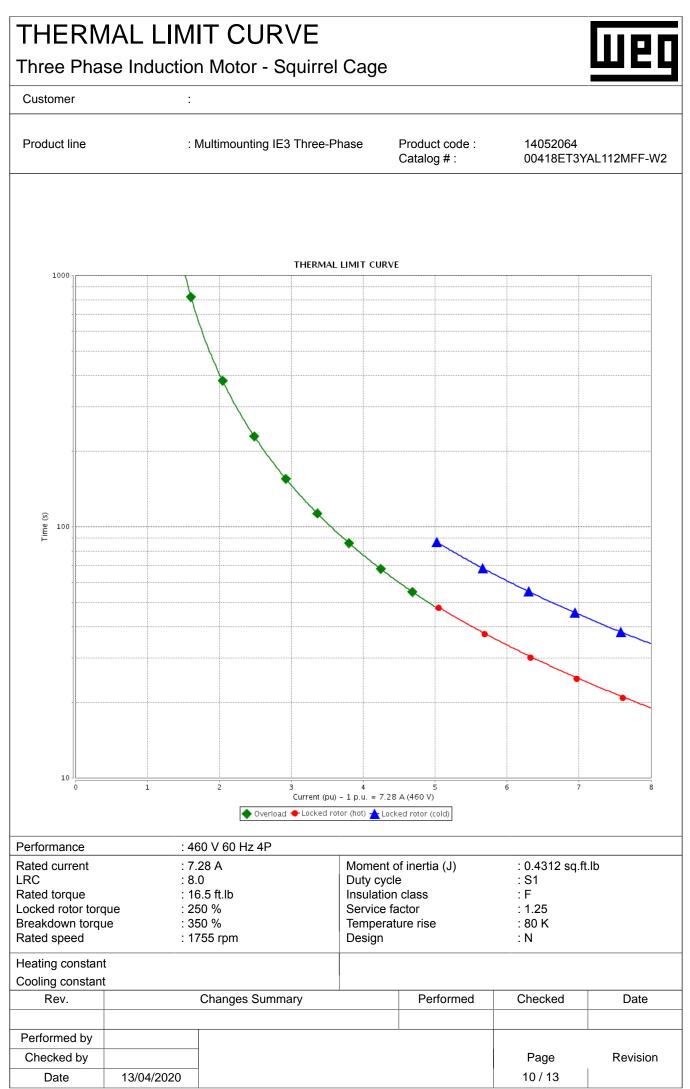
Customer



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Customer	:						
Product line	: Multimounting IE3 Three-Ph			ase Product code : Catalog # :		14052064 00418ET3YAL112MFF-W2	
			THERMAL LIMIT C	URVE			
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0	1	2	3 Current (pu) – 1 p.u.	= 8.09 A		6	7
		🔶 Overload	d 🔶 Locked rotor (hot) 🥇	Lockec	i rotor (cold)		
Performance	: 4	15 V 50 Hz 4P					
Rated current	: 8.	.09 A			inertia (J)	: 0.4312 sq.	ft.lb
LRC : 7.0		.0 9.9 ft.lb		Duty cycle Insulation class		: S1 : F	
ocked rotor tor	que : 20	60 %	Servi	ce fac	tor	: 1.00	
Breakdown torq Rated speed		40 % 455 rpm	Temp Desig	eratur an	e rise	: 80 K : N	
leating constar				,··			
Cooling constar							
Rev.		Changes Summ	hary		Performed	Checked	Date
Performed by							
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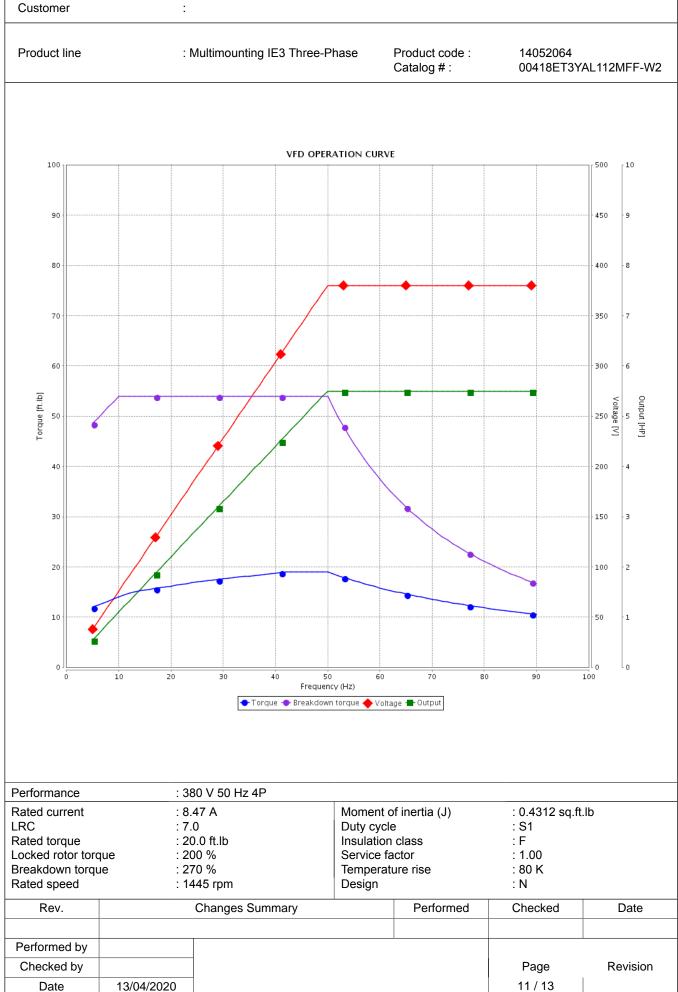


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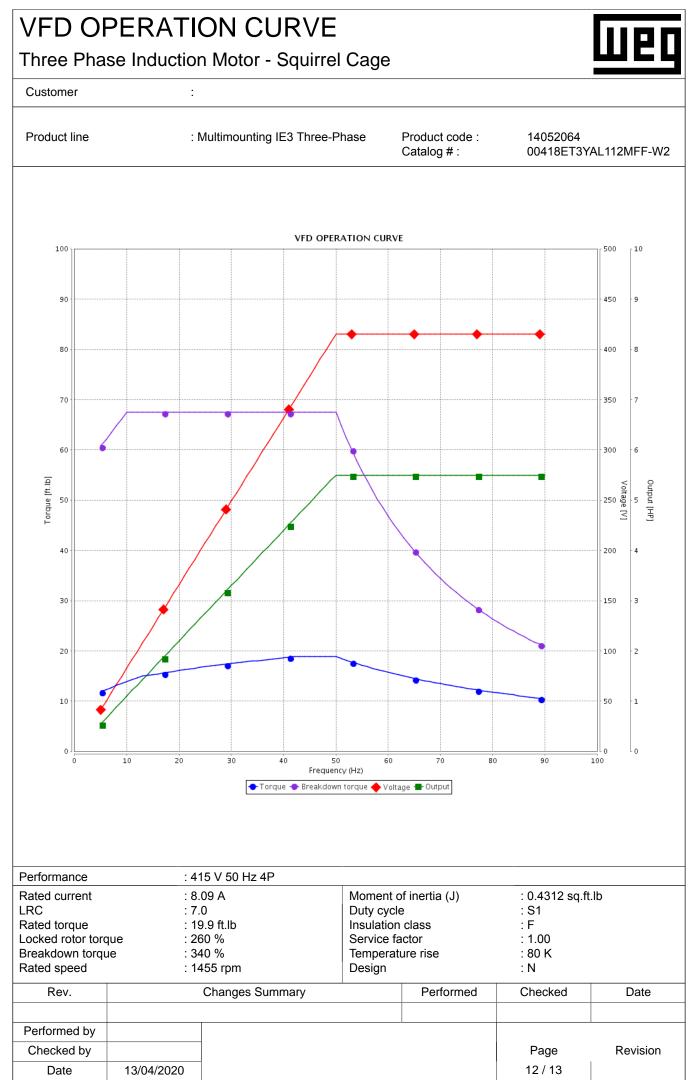
VFD OPERATION CURVE

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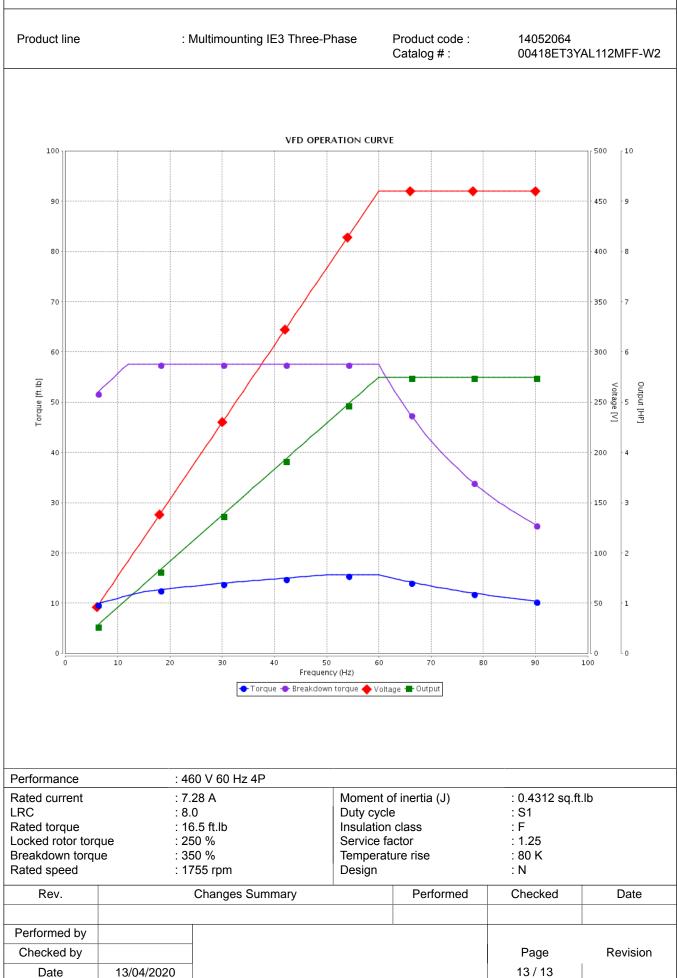
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VFD OPERATION CURVE

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