DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	: W22 Phase	NEMA Pre	mium Efficien	cy Thre	e- F	Product	code :	13025	320	
Frame Insulation class Duty cycle Ambient temperature Altitude		: 404/5TSC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.			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 : 521 kg : 0.5561 kgm ²		
Protection degree	e	: IP55 : B			woment	of inerti	a (J)	: 0.556	o'i kgm-	
Output [HP]		100		75			75		75	
Poles		2		2			2		2	
Frequency [Hz]		60		50			50		50	
Rated voltage [V]		230/460		380			400		415	
Rated current [A]		224/112		99.6			94.6		92.2	
L. R. Amperes [A]		1456/728		677			719		756	
RC [A]	,	6.5x(Code G)		6.8x(Code G)			7.6x(Code H)		8.2x(Code J)	
No load current [A		52.0/26.0		25.7			27.5		29.1	
Rated speed [RPN	/I]	3545		2955			2960		2965	
Slip [%]	-1	1.53		1.50			1.33		1.17	
Rated torque [kgfn		20.5		18.4			18.4		18.4	
ocked rotor torqu		240		250			280		300	
Breakdown torque	260		280			310		330		
Service factor		1.25			1.00		1.00		1.00	
Temperature rise		80 K		80 K			80 K		80 K	
Locked rotor time		25s (cold) 14s (hot)			18s (cold) 10s (hot)		18s (cold) 10s (hot)			cold) 10s (hot
Noise level ²		79.0) dB(A)	7	4.0 dB(A)		74.0 d	B(A)	7	4.0 dB(A)
Efficiency (%)	25%									
	50%		93.0	93.0			93.1			93.5
	75%	94.1			93.8		93.8			94.0
	100%	94.1		94.3			94.3			94.3
Power Factor	25%						0.00			
	50%	0.83		0.82			0.80			0.78
	75%	0.88		0.88			0.86 0.89			0.85
	100%	().89		0.89		0.8	9		0.88
Losses at normat	ive operating	points (sp	eed;torque), i	n percer	ntage of rat	ted outp	out power			
	P1 (0,	P1 (0,9;1,0) 5.9			5.9		5.9		5.9	
	P2 (0,	P2 (0,5;1,0)			4.6		4.6		4.6	
		P3 (0,25;1,0)			4.4		4.4			4.4
Losses (%)	P4 (0,	P4 (0,9;0,5)			2.8		2.8		2.8	
	P5 (0,	P5 (0,5;0,5)			1.6		1.6		1.6	
	P6 (0,5	P6 (0,5;0,25)		0.9		.9		0.9	0.9	
		25;0,25) 0.5			0.5		0.5			0.5
		Drive	end Non dr	ive end	Foundatio	on loads	 S			
Bearing type		: 6314		14 C3		Max. traction			: 336 kgf	
Sealing		: WS		Seal	Max. compression			: 857 kgf		
Lubrication interval		: 4000 h 4000 h								
Lubricant amount		: 27 g 27 g								
Lubricant type			lobil Polyrex E							
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v	d. otor from the m and with to veight subjec	shaft end. plerance o	f +3dB(A).	nich				based on tea e tolerances		sinusoidal ted in NEMA
manufacturing pro	ocess.		No. C			D'		Oharti	d	D-1-
Rev.		Changes Summary				Perte	ormed	Checke	a	Date
Performed by										
Checked by								Page		Revision
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Date	18/03/2024	1					1	1/6		

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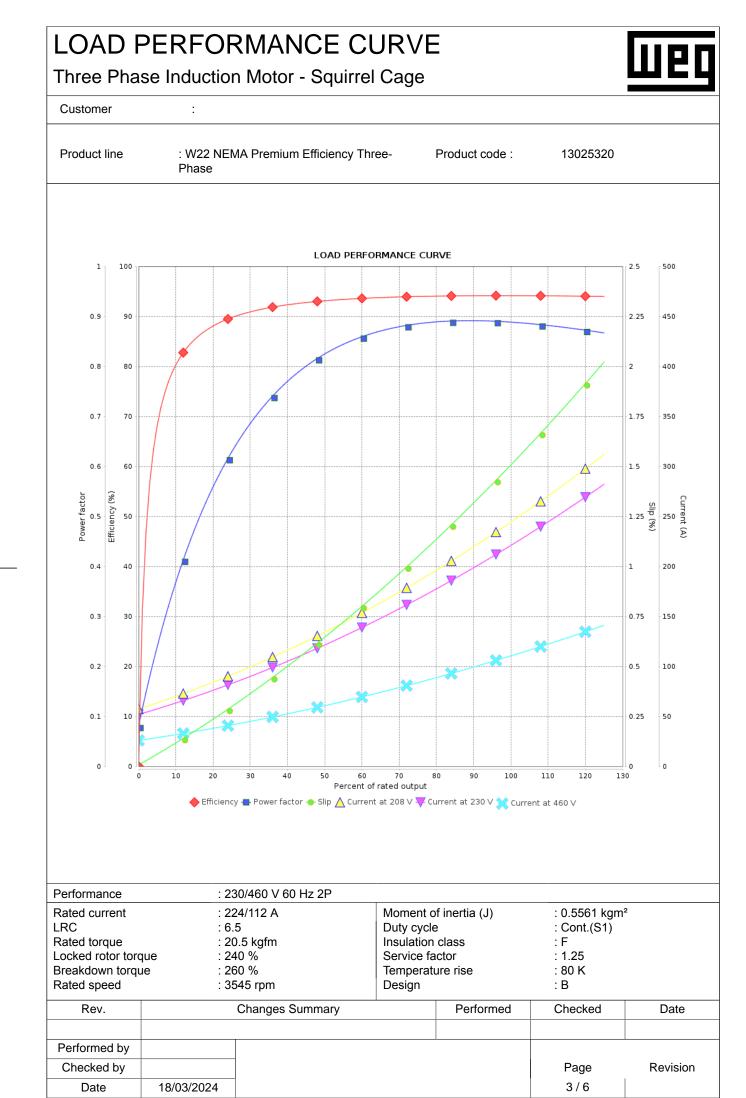
Notes USABLE @208V 243A SF 1.10 SFA 268A

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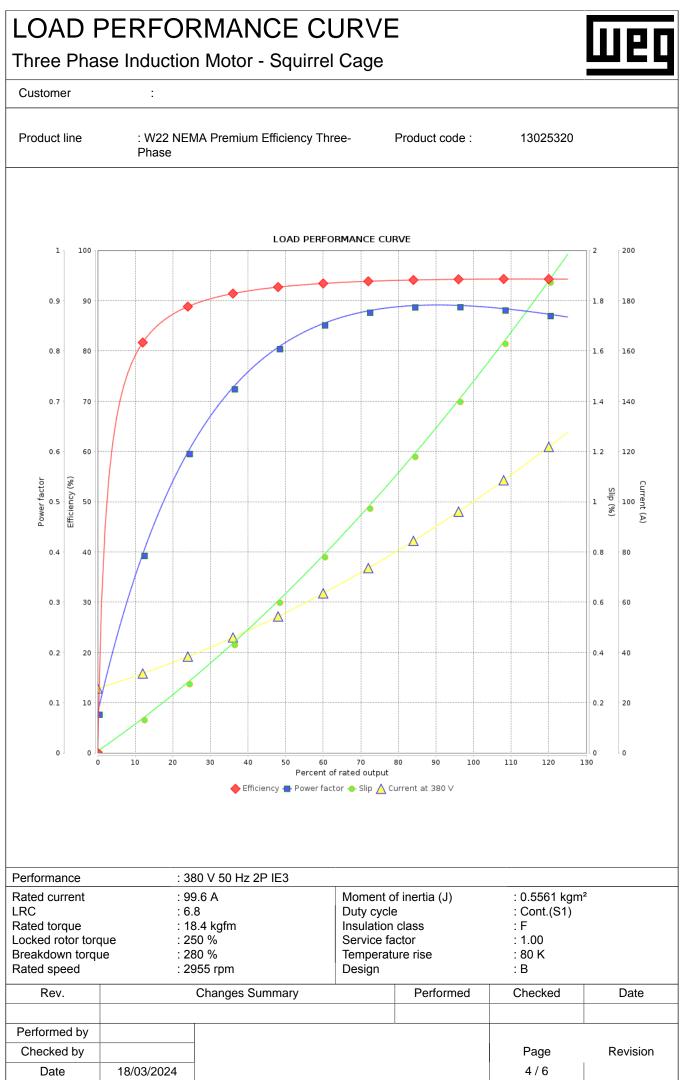
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Date	18/03/2024			2/6	

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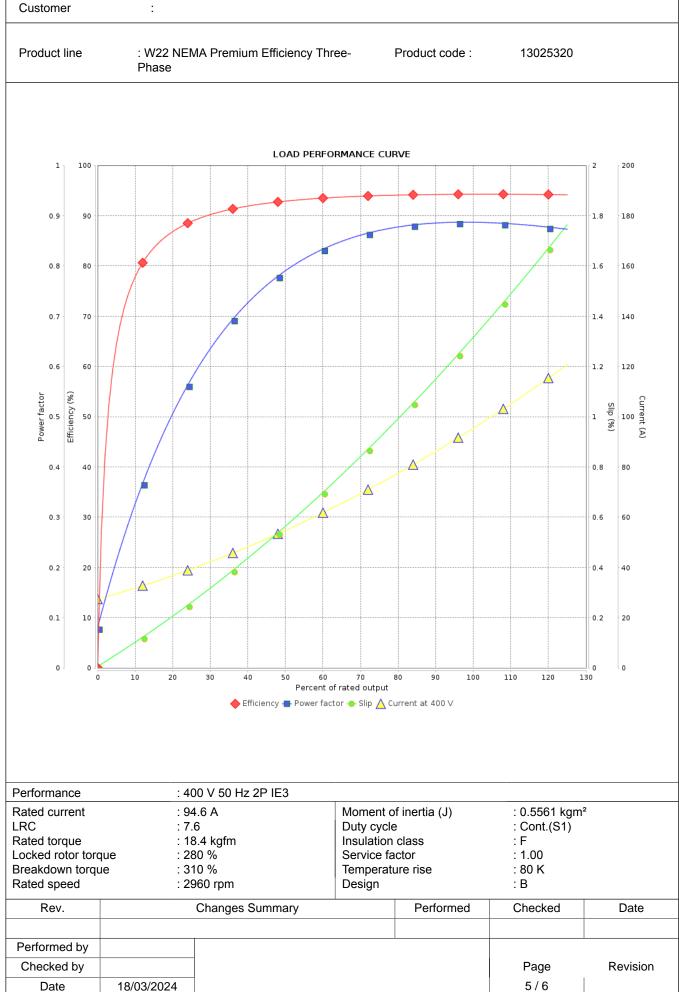


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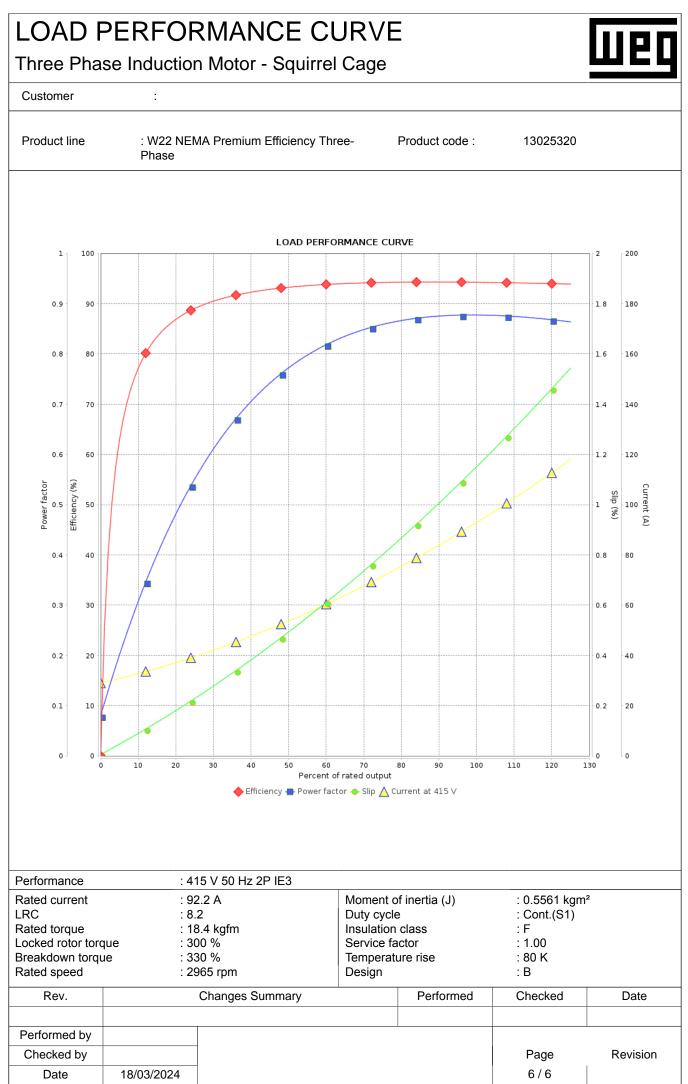
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