DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

	Phase									
Frame Insulation class		: 586/7T : F			Cooling method : IC41 Mounting : F-1				11 - TEFC	
Duty cycle		: Cont.(S	61)		Rotation ¹ : Both (CW and CCW)				nd CCW)	
Ambient temperature		: -20°C to +40°C			Starting method : Direct On Line					
Altitude		: 1000 m.a.s.l.			Approx. weight ³ : 2135 kg					
Protection degree		: IP55		Moment of inertia (J)		(J)	: 15.5 kgm²			
Output [HP]		500 6			450 6		450 6		450	
Poles		60			50		50			50
Frequency [Hz]		460			380		400			415
Rated voltage [V] Rated current [A]		603		646			629			614
L. R. Amperes [A]		3618		3424			3711		3930	
_RC [A]		6.0x(Code G)		5.3x(Code F)			5.9x(Code G)		6.4x(Code G)	
No load current [A	1	240		235			255		275	
Rated speed [RPN		1192		991			992		993	
Slip [%]	1	0.67		0.90			0.80		0.70	
Rated torque [kgfn	n]	304		330			329		329	
_ocked rotor torqu		200		180			200		220	
Breakdown torque		210			190		210		229	
Service factor		1.15			1.00		1.00		1.00	
Temperature rise		80 K			105 K		105 K		105 K	
_ocked rotor time		45s (cold) 25s (hot)		36s (o	is (cold) 20s (hot)		s (cold) 2		36s (cold) 20s (hot)	
Noise level ²		77.0 dB(A)			73.0 dB(A)		73.0 dB(A)		73.0 dB(A)	
	25%				·					•
Efficiency (%)	50%	ç	95.8		96.2		95.8			95.4
	75%		96.2		96.2		96.2			95.8
	100%	ç	96.2		95.8		95.8		95.8	
	25%						0.65			0.01
Power Factor	50%		0.66		0.69		0.65		0.61	
	75%		0.76		0.78		0.75 0.79			0.73
1	100%).80		0.81			9		0.78
Losses at normati	P1 (0,		eed;torque), 1 4.6	n percer	4.6		power	4.6		4.6
	P1 (0, P2 (0,		3.5		3.5			3.5		3.5
	P3 (0,2				2.8		2.8			2.8
Losses (%)	-	-	2.8		2.8		2.8		2.8	
200000 (70)		(0,9;0,5) (0,5;0,5)			1.9		1.9		1.9	
		6 (0,5;0,25)		1.9 1.5			1.5		1.5	
	P7 (0,2		0.8		1.5 0.8		0.8		0.8	
	1 1 (0,2	<u>Drive 6</u>		rive end	Foundation			5.5		5.0
Bearing type		: NU-322 C3 6319 C3						: 4111	af	
Sealing		: Taconite Taconite			Max. compression			: 6246 kgf		
Scaling		Labyrinth Labyrinth								
Lubrication interv	: 7000 h 13000 h									
Lubricant amount		: 60 g 45 g								
Lubricant type		: Mobil Polyrex EM								
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 of	f +3dB(A).	hich						n sinusoidal ated in NEMA
manufacturing pro	DCESS.	Chang	IDE SUMMORY	,		Perforn	ned	Checke	d	Date
Rev. Changes Summa		jes Summary			Fenoin		CHECKE	u	Dale	
1										
Performed by										
Performed by Checked by								Page		Revision

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Notes

Rev.	Changes Summary Perform			Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/01/2024			2/7	

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Customer

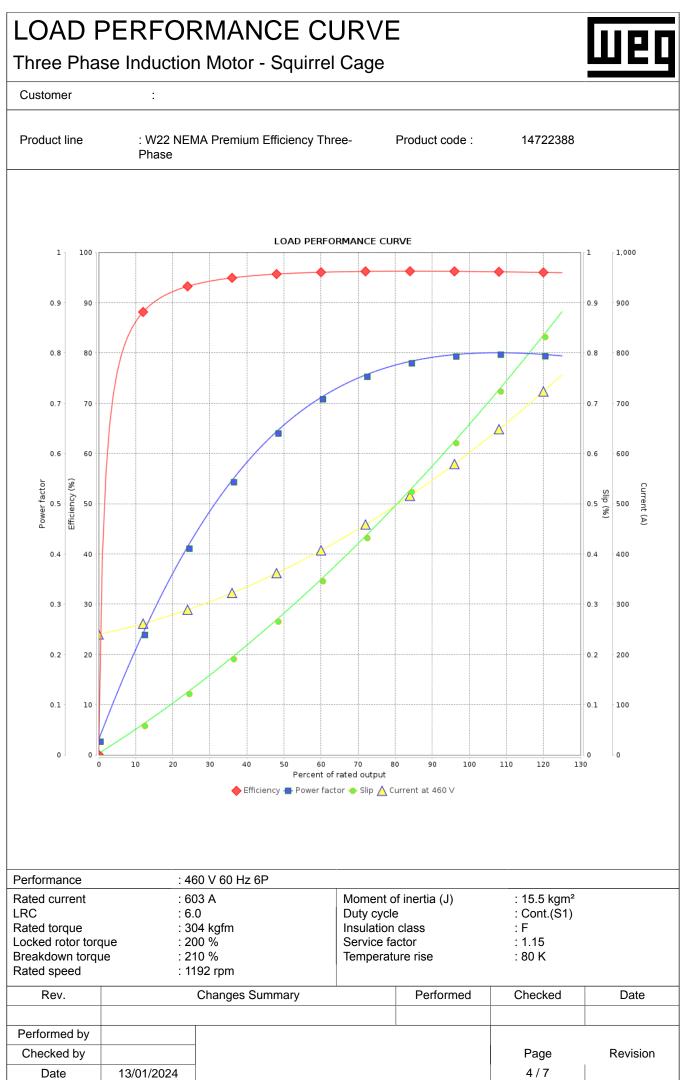
Space heater information

Шеq

Voltage: 200 - 240 V

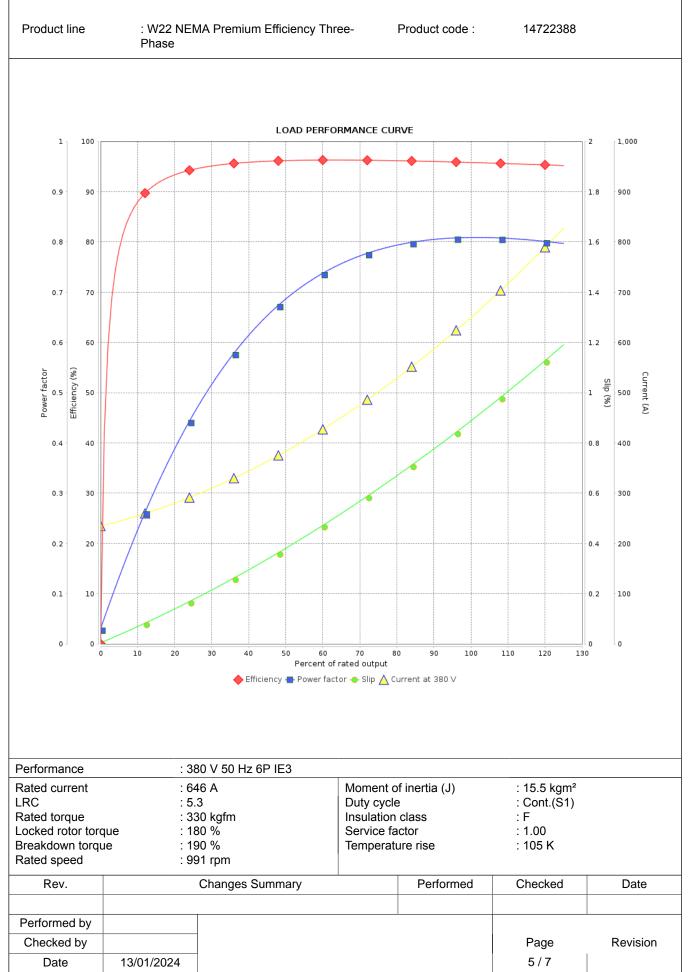
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			3 / 7	

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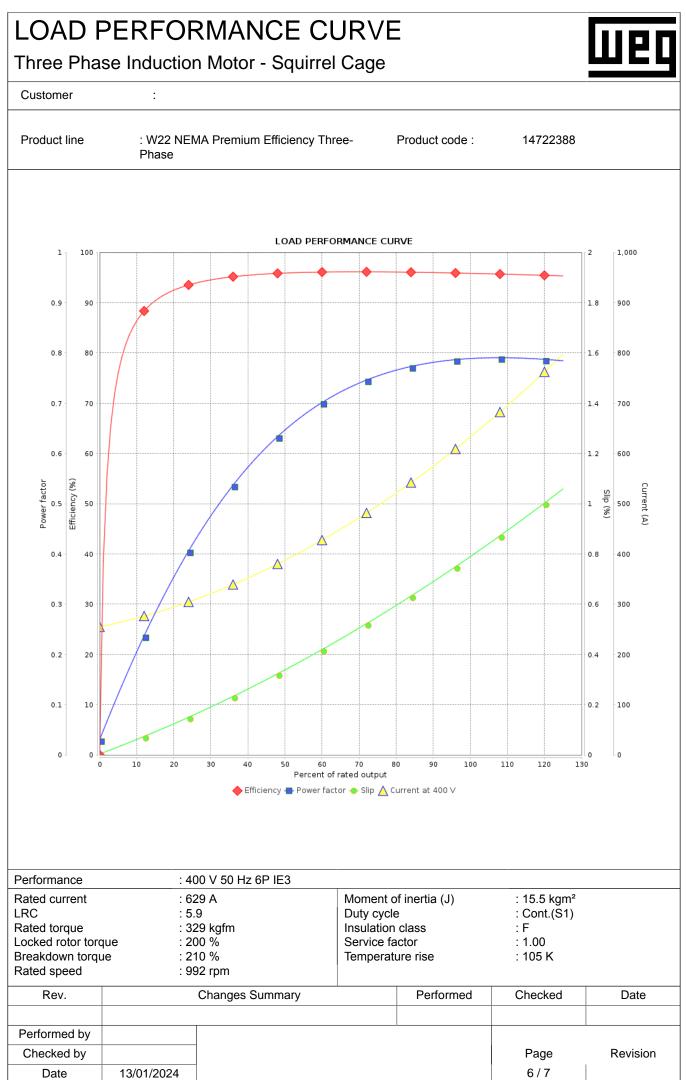


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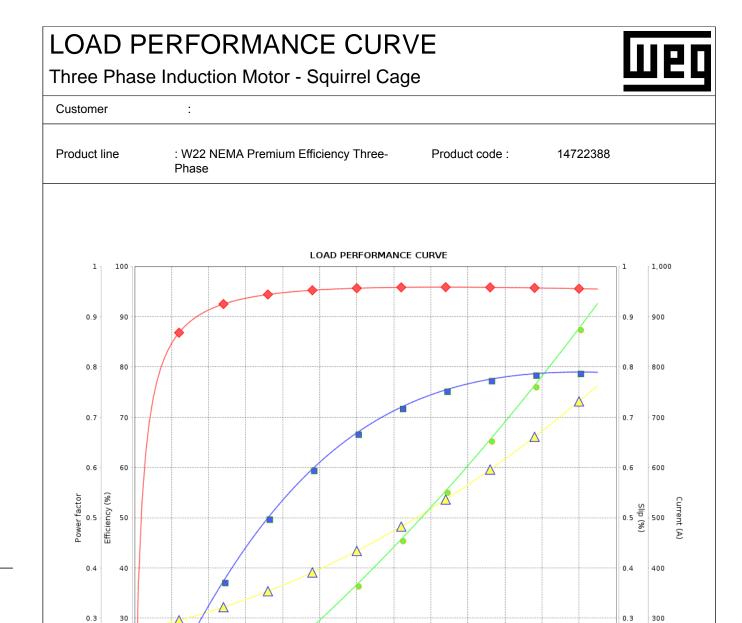
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0.2

0.1

0

130

100

110

120

: 15.5 kgm²

: Cont.(S1)

: F

: 1.00

: 105 K

Checked

Page 7/7

200

100

0

Date

Revision

0.2

0.1

0

Performance

Rated current

Rated torque

Rated speed

Rev.

Performed by Checked by

Date

Locked rotor torque

Breakdown torque

LRC

20

10

0

Ó

10

20

30

: 614 A

: 220 %

: 229 %

13/01/2024

: 993 rpm

: 329 kgfm

: 6.4

40

: 415 V 50 Hz 6P IE3

Changes Summary

50

60

Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip <u>A</u> Current at 415 V

70

80

Moment of inertia (J)

Duty cycle

Insulation class

Temperature rise

Service factor

90

Performed

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