# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Customer	: As	traprom d.o.o.						
Product line	: W22	IE3 Three-Phase		Pr	roduct code :	13292	2958	
Altitude	Insulation class : F  Duty cycle : S1  Ambient temperature : -20°C to +40°C  Altitude : 1000 m.a.s.l.  Protection degree : IP55			Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J)		: B5T : Both : Dire : 28.3	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 28.3 kg : 0.0077 kgm²	
Output [kW]		1.1			1.1		1	1.1
Poles		6			6			6
Frequency [Hz]		50			50			50
Rated voltage [V]		220/38			230/400			)/415
Rated current [A]		4.63/2.6			1.68/2.69			7/2.70
L. R. Amperes [A]		24.1/13	.9	2	25.7/14.8			6/15.4
LRC [A]		5.2			5.5		5	5.7
No load current [A		2.74/1.5	59	3	3.05/1.75		3.33	3/1.92
Rated speed [RPI	M]	940			945		9	50
Slip [%]								
Rated torque [kgfr	n]	1.14			1.13		1	.13
Locked rotor torqu	ıe [%]	240			270		2	90
Breakdown torque	[%]	240			270			000
Service factor		1.00			1.00			.00
Temperature rise		80 K			80 K		8	0 K
Locked rotor time								
Noise level <sup>2</sup>		45.0 dB(	45.0 dB(A)		5.0 dB(A)		45.0 dB(A)	
	25%							
<b>-</b> #: -: (0/ )	50%							
Efficiency (%)	75%							
	100%							
	25%							
Power Factor	50%							
rower ractor	75%							
	100%							
Losses at normat	ive onerating	points (speed;torq	ie) in nercer	ntage of rate	ed output nower			
LUGGES ALTIUTITIA	operating	P1 (0,9;1,0)	23		23.1			23.1
	<u> </u>	P2 (0,5;1,0)		2.0	22.0			22.0
	<u> </u>	P3 (0,25;1,0)		1.9	21.9			21.9
Losses (%)		P4 (0,9;0,5)		1.3 11.3				11.3
LU33E3 (70)		P5 (0,5;0,5)			9.0			9.0
	<u> </u>	P6 (0,5,0,5)	6.					6.4
		P7 (0,25;0,25)	5.		5.1			5.1
				T				J. 1
Rearing type		<u>Drive end</u> No. 1: 6205 ZZ	on drive end 6204 ZZ	Foundation				
Bearing type				Max. tracti		: 82 kg		
Sealing	vol.	: Oil Seal	Lip Seal	Max. comp	ression	: 110 k	кgт	
Lubrication inter		: - :	-					
Lubricant amour	IL	Mahil Dale	rov EM					
Lubricant type		: Mobil Poly	ICY CIAI					
must be eliminate (1) Looking the m (2) Measured at	ed. notor from the 1m and with t weight subject ocess.	ncel the previous on e shaft end. olerance of +3dB(A et to changes after			average values ply, subject to th			
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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

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Inormal	protection
HIIGHIIA	DIOLECTION

ID	Application	Туре	Quantity	Sensing Temperature	
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C	

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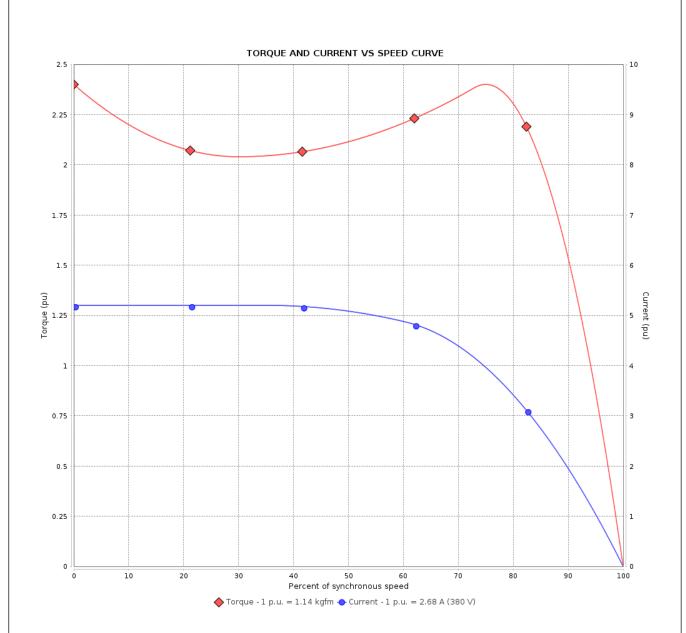
### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 13292958



Performance : 220/380 V 50 Hz 6P

Rated current : 4.63/2.68 A Moment of inertia (J) : 0.0077 kgm<sup>2</sup> **LRC** : 5.2 Duty cycle : S1 Rated torque : 1.14 kgfm Insulation class : F : 240 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 240 % Temperature rise Rated speed : 940 rpm : N Design

#### Locked rotor time

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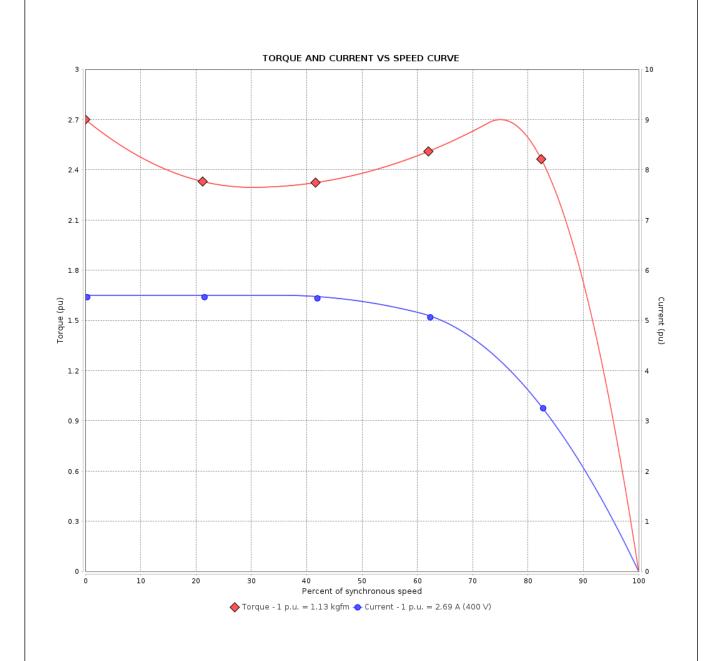
### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 13292958



Performance : 230/400 V 50 Hz 6P Rated current : 4.68/2.69 A Moment of inertia (J) : 0.0077 kgm<sup>2</sup> : S1 **LRC** : 5.5 Duty cycle : F : 1.13 kgfm Insulation class Rated torque : 270 % : 1.00 Locked rotor torque Service factor : 270 % : 80 K Breakdown torque Temperature rise : N Rated speed : 945 rpm Design

#### Locked rotor time

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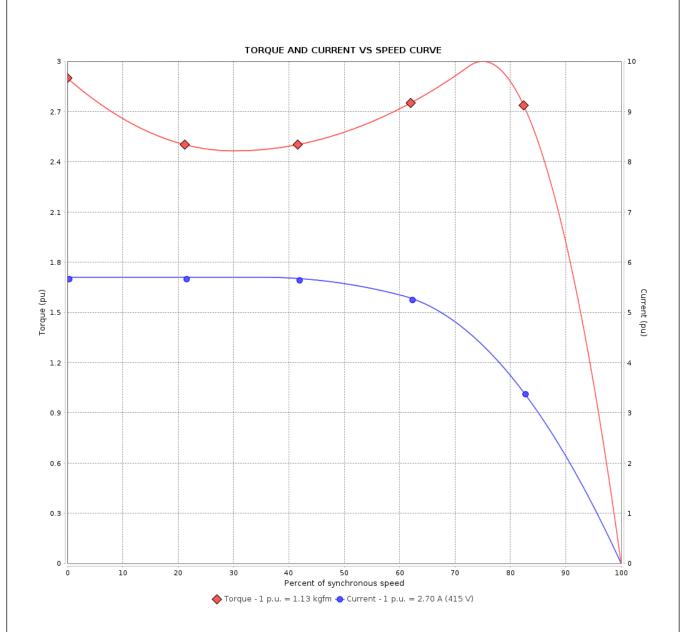
### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 13292958



Performance : 240/415 V 50 Hz 6P

Rated current : 4.67/2.70 A Moment of inertia (J) : 0.0077 kgm²

**LRC** : 5.7 Duty cycle : S1 Rated torque Insulation class : F : 1.13 kgfm : 290 % Service factor Locked rotor torque : 1.00 : 80 K Breakdown torque : 300 % Temperature rise Rated speed : N : 950 rpm Design

#### Locked rotor time

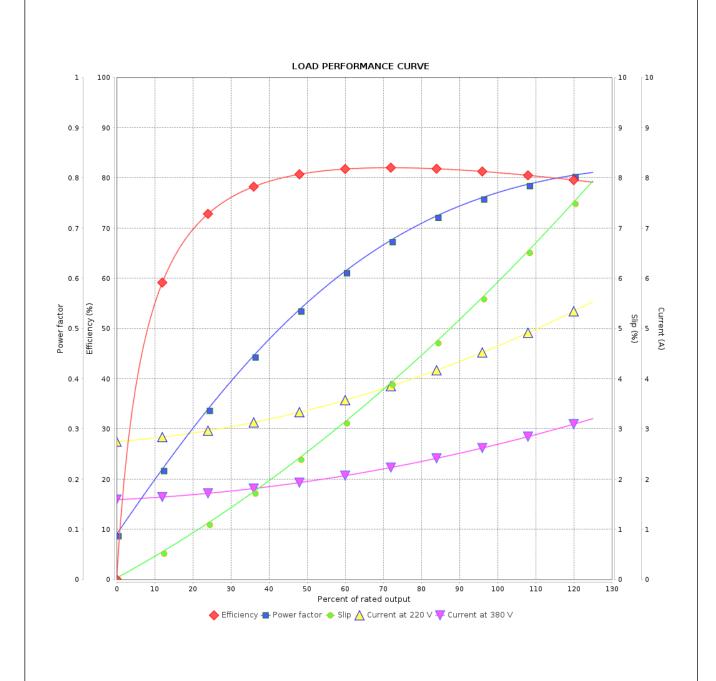
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 22	220/380 V 50 Hz 6P				
Rated current	: 4.	.63/2.68 A	Moment o	of inertia (J)	: 0.0077 kgm²	
LRC	: 5.	2	Duty cycle	9	: S1	
Rated torque	: 1.	.14 kgfm	Insulation	class	: F	
Locked rotor tord	que : 24	40 %	Service fa	ector	: 1.00	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 94	40 rpm	Design		: N	
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



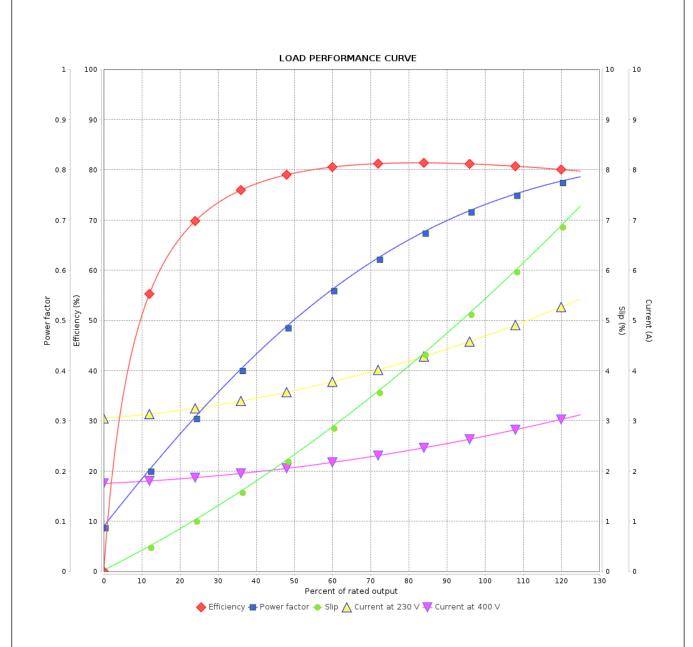
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Product line : W22 IE3 Three-Phase Product code : 13292958



Performance		: 230/400 V 50 Hz 6	 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 4.68/2.69 A : 5.5 : 1.13 kgfm : 270 % : 270 % : 945 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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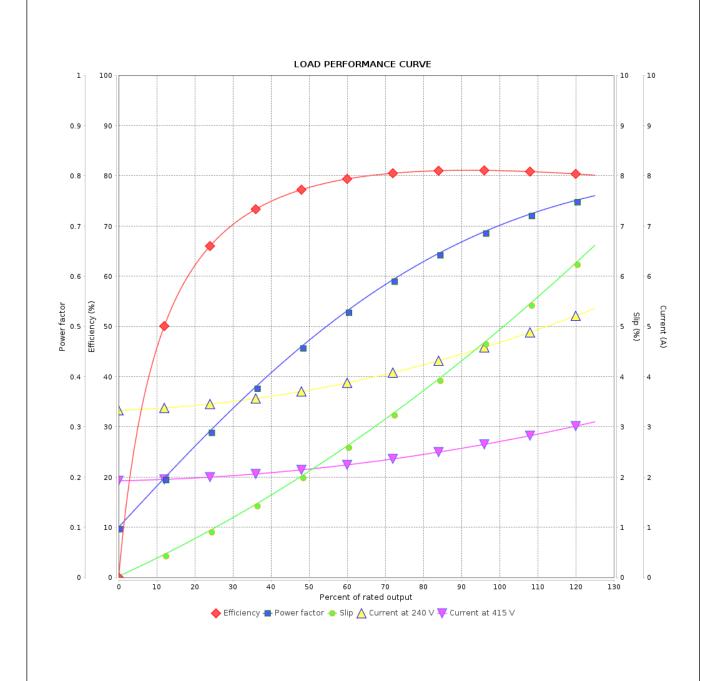
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



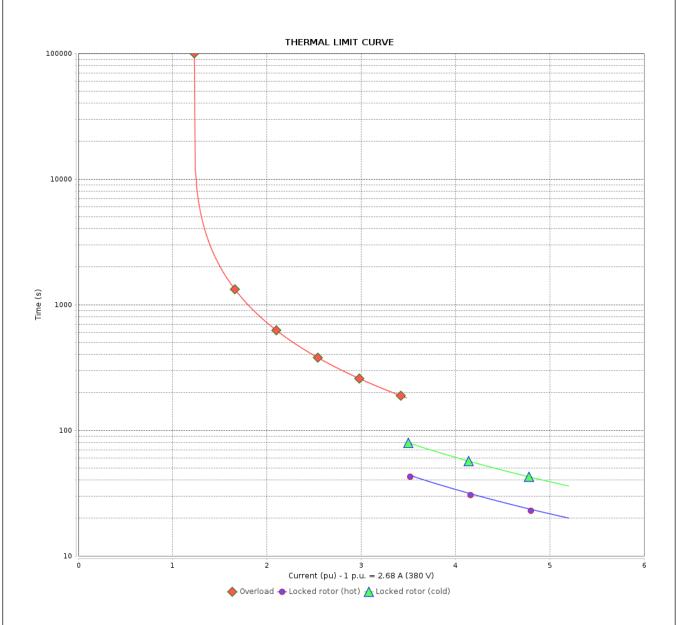
Performance	: 24	40/415 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		67/2.70 A 7 13 kgfm 90 % 00 % 50 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0077 kgm² : S1 : F : 1.00 : 80 K : N	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 220/380 V 50 Hz 6P		
Rated current	: 4.63/2.68 A	Moment of inertia (J)	: 0.0077 kgm²
LRC	: 5.2	Duty cycle	: S1
Rated torque	: 1.14 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 940 rpm	Design	: N
Heating constant			
Cooling constant			

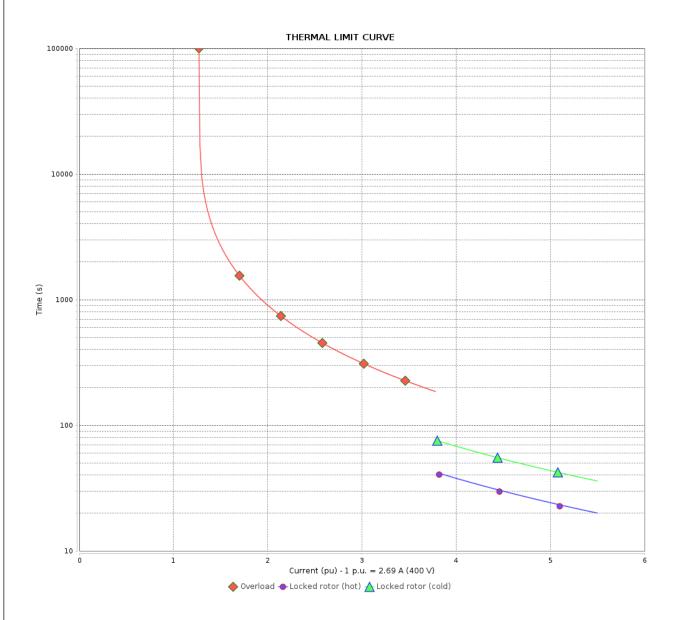
Cooling constant						
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 230/400 V 50 Hz 6P		
Rated current	: 4.68/2.69 A	Moment of inertia (J)	: 0.0077 kgm²
LRC	: 5.5	Duty cycle	: S1
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 945 rpm	Design	: N
Heating constant			
Cooling constant			

Cooling constar	IL				
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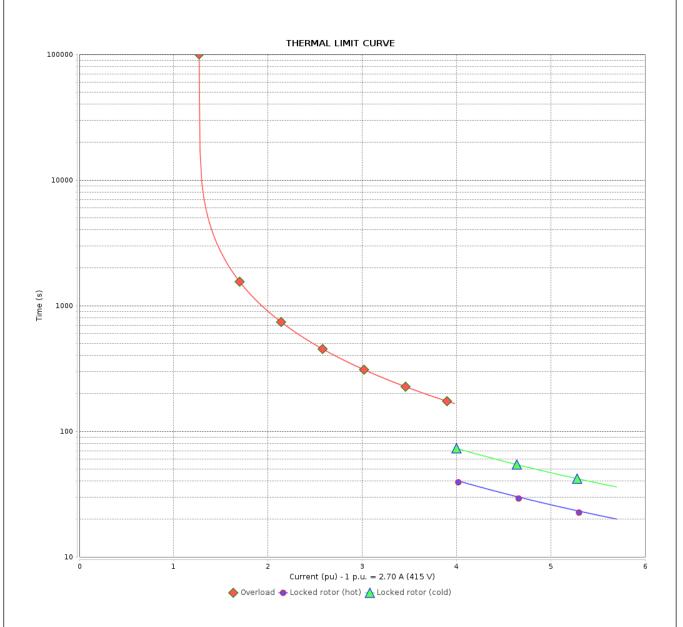
### THERMAL LIMIT CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 13292958



Performance : 240/415 V 50 Hz 6P Rated current : 4.67/2.70 A Moment of inertia (J) : 0.0077 kgm² **LRC** Duty cycle : S1 : 5.7 Insulation class : F Rated torque : 1.13 kgfm : 290 % : 1.00 Locked rotor torque Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 950 rpm Design Heating constant

Cooling constant

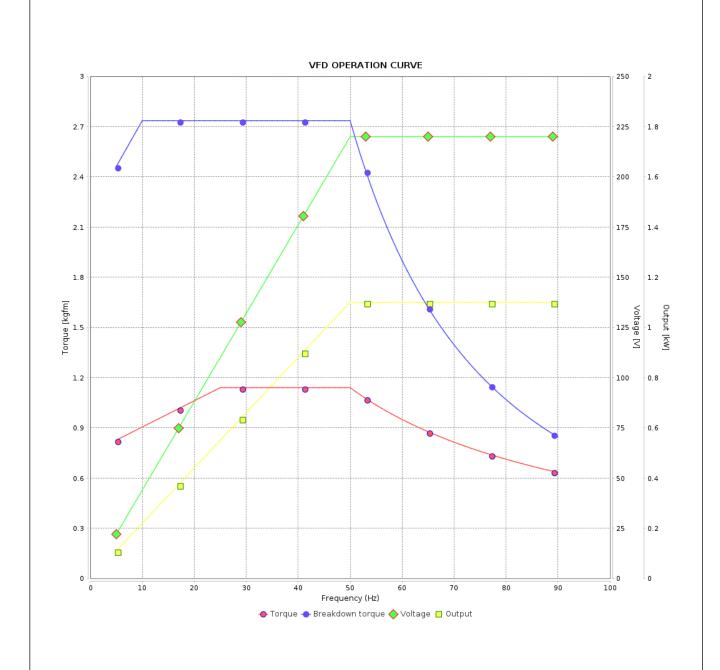
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 22	20/380 V 50 Hz 6P				
Rated current	: 4.	63/2.68 A	Moment of	Moment of inertia (J)		
LRC	: 5.	2	Duty cycle	Э	: S1	
Rated torque	: 1.	14 kgfm	Insulation	class	: F	
Locked rotor tord	rotor torque : 240 % Service factor		actor	: 1.00		
Breakdown torque : 24		40 %	Temperat	Temperature rise		
Rated speed		0 rpm Design		: N		
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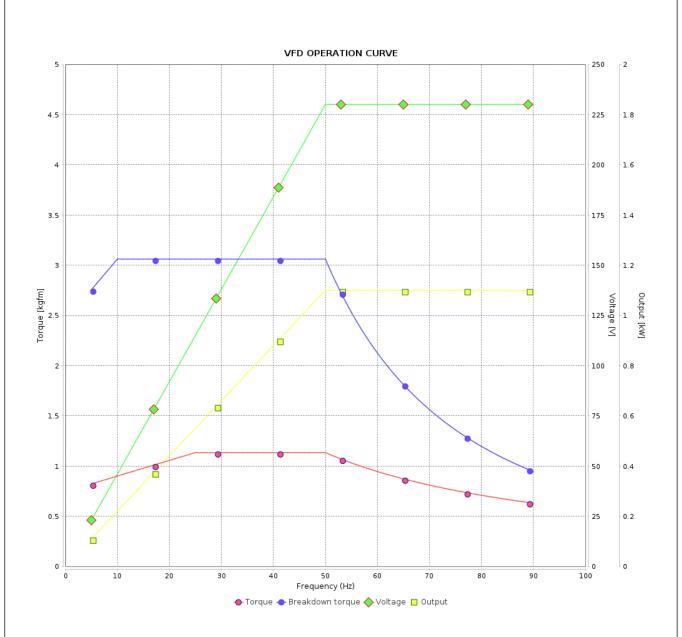
## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 13292958



Performance	: 23	: 230/400 V 50 Hz 6P							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 1. que : 27 ie : 27	68/2.69 A 5 13 kgfm 70 % 70 % 15 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0077 kgm² : S1 : F : 1.00 : 80 K : N				
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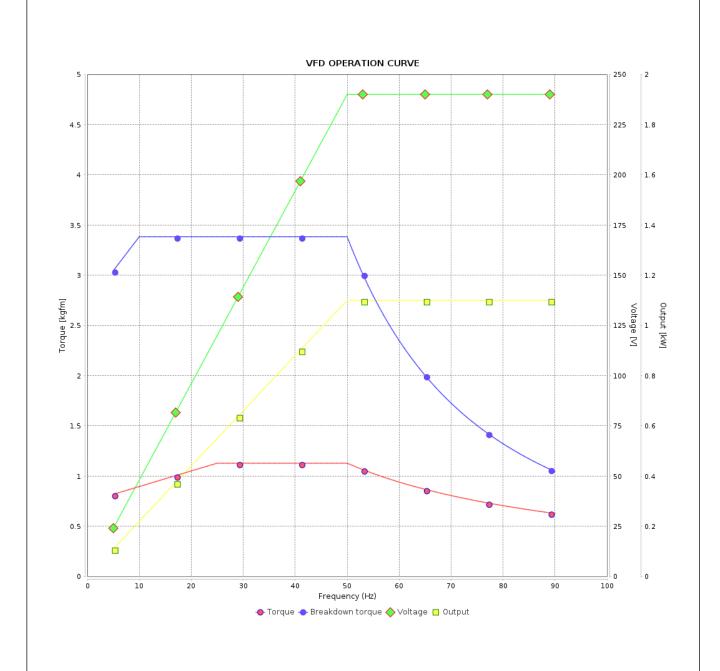
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 24	40/415 V 50 Hz 6P				
Rated current : 4.6		67/2.70 A	Moment of	Moment of inertia (J)		
LRC	: 5.	7	Duty cycle	Э	: S1	
Rated torque	: 1.	13 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 29	90 %	Service fa	octor	: 1.00	
Breakdown torque : 3		00 %	Temperat	Temperature rise		
Rated speed		50 rpm Design			: N	
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