## DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	: Ast	traprom d.o	0.0.							
Product line	: W22					Produ	ct code :	12868	103	
Frame Insulation class Duty cycle Ambient temper Altitude Protection degree		: 90L : F : S1 : -20°C t : 1000 m : IP55 : N			Cooling Mountin Rotation Starting Approx. Moment	g n¹ metho weigh	od t³	: IC411 : B5T : Both : Direc : 24.2 : 0.002	(CW a t On I kg	and CCW) _ine
Output [kW]			2.2		2.2		2	.2		2.2
Poles			2.2		2.2					2.2
Frequency [Hz]			50		50			0		60
Rated voltage [V]			0/380		230/400			/415		460
Rated current [A]			1/4.58		7.84/4.51		7.80			3.99
L. R. Amperes [A]	I		4/32.1		58.8/33.8		62.4			34.7
			-							
LRC [A]	.1		7.0		7.5		8			8.7
No load current [A	-		5/2.00		4.17/2.40		4.67			2.20
Rated speed [RPI	VIJ		870		2885			95		3500
Slip [%]			1.33		3.83			50		2.78
Rated torque [kgf			.747		0.743			40		0.612
Locked rotor torqu			310		350			70		409
Breakdown torque	€ [%]		300		340			30		440
Service factor			1.00		1.00			00		1.00
Temperature rise			80 K		80 K			K		80 K
Locked rotor time			d) 10s (hot)	,	cold) 9s (h	not)		) 9s (hot)	18s	(cold) 10s (hot)
Noise level <sup>2</sup>		62.0	dB(A)	6	2.0 dB(A)		62.0	dB(A)		68.0 dB(A)
	25%									
Efficiency (%)	50%	8	35.0		83.0			3.0		84.0
Linciency (70)	75%	8	35.5		85.9		85	5.0		85.5
	100%	8	35.9		85.9		85	5.9		86.5
	25%									
Davis Factor	50%	C	0.68		0.62		0.	57		0.60
Power Factor	75%	C	).79		0.75		0.	70		0.73
	100%	C	).85		0.82		0.	79		0.80
Lacaca at name	tive energine	nainta (an			-t					
Losses at norma				n percei			itput power	40.0		45.0
		9;1,0)	16.0			6.0		16.0		15.3
		5;1,0)	14.1			4.1		14.1		13.4
		25;1,0)	12.8			2.8		12.8		12.2
Losses (%)		9;0,5)	7.6			'.6		7.6		7.2
		5;0,5)	5.3			5.3		5.3		5.0
		5;0,25)	3.5			5.5		3.5		3.3
	P7 (0,2	(5;0,25)	2.5		2	2.5		2.5		2.4
Bearing type Sealing Lubrication inter Lubricant amour		Drive 6 6205 : Oil S :	ZZ 620	ive end 04 ZZ Seal -	Foundati Max. trac Max. cor	ction		: 64 kgf : 89 kgf		
Lubricant type			obil Polyrex E	-M						
		. 141		*1						
This revision repl must be eliminate (1) Looking the n (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with to weight subject ocess.	shaft end. olerance of	f +3dB(A).	nich		ipply, s		based on tea e tolerances		th sinusoidal lated in IEC
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Three Pha	se Induction Motor - Squirrel Cage	<b>;</b>		ШЕЦ
Customer	: Astraprom d.o.o.			
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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

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

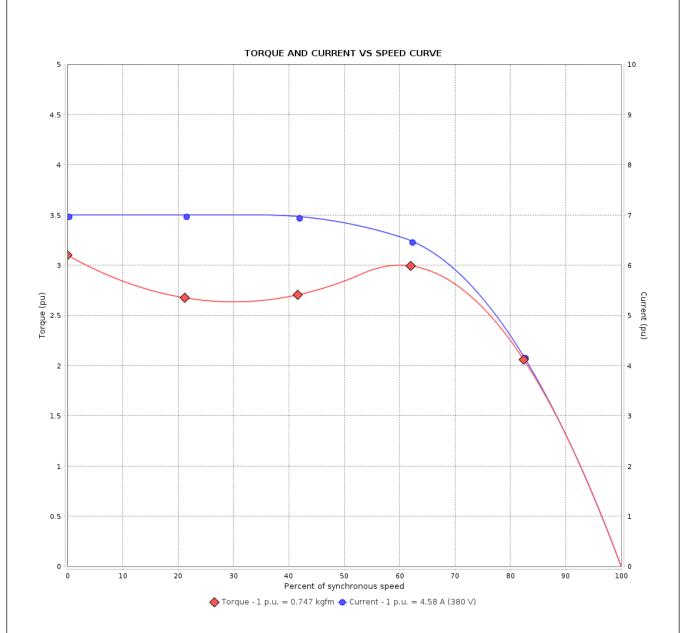
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### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



Performance	: 220/380 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.91/4.58 A : 7.0 : 0.747 kgfm : 310 % : 300 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0026 kgm² : S1 : F : 1.00 : 80 K : N
Rated speed	: 2870 rpm	Design	: N

Locked rotor time : 18s (cold) 10s (hot)

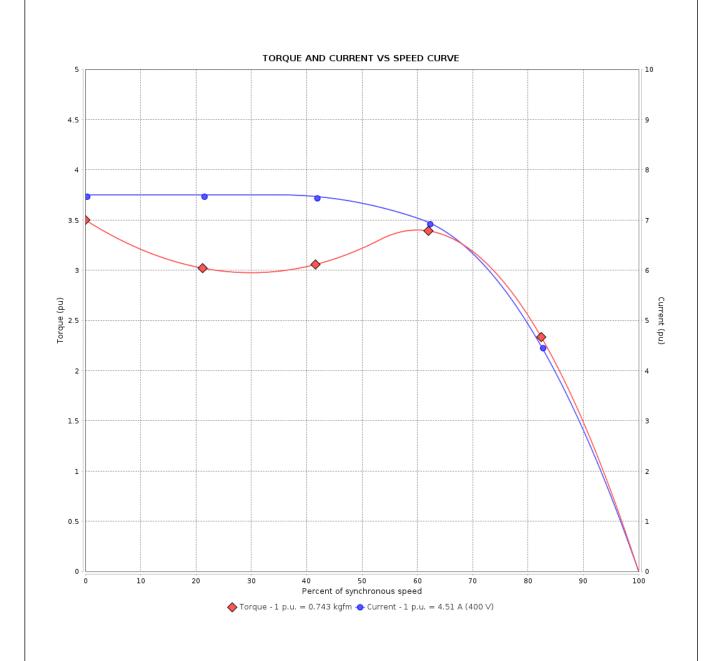
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



Performance	: 230/400 V 50 Hz 2P		
Rated current	: 7.84/4.51 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 0.743 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: N

Locked rotor time : 16s (cold) 9s (hot)

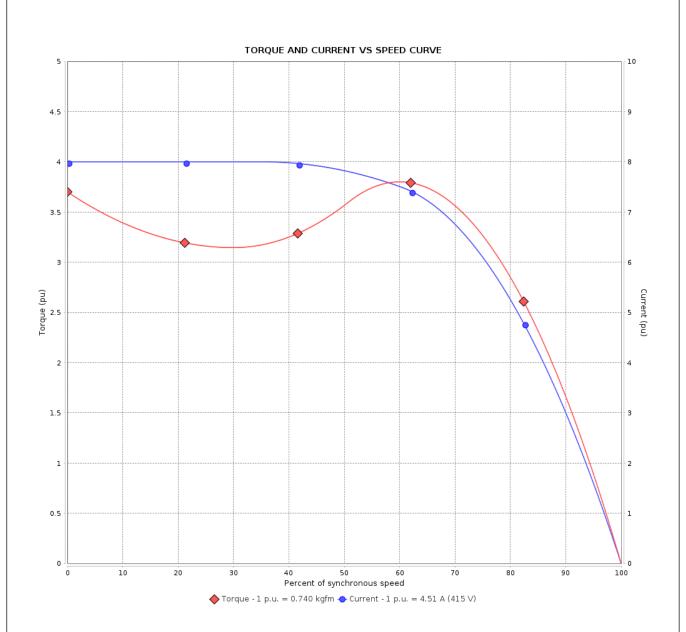
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



Performance : 240/415 V 50 Hz 2P Rated current : 7.80/4.51 A Moment of inertia (J) : 0.0026 kgm<sup>2</sup> LRC : 8.0 Duty cycle : S1 Rated torque : 0.740 kgfm Insulation class : F Service factor : 1.00 Locked rotor torque : 370 % : 80 K Breakdown torque : 380 % Temperature rise Rated speed : N : 2895 rpm Design

Locked rotor time : 16s (cold) 9s (hot)

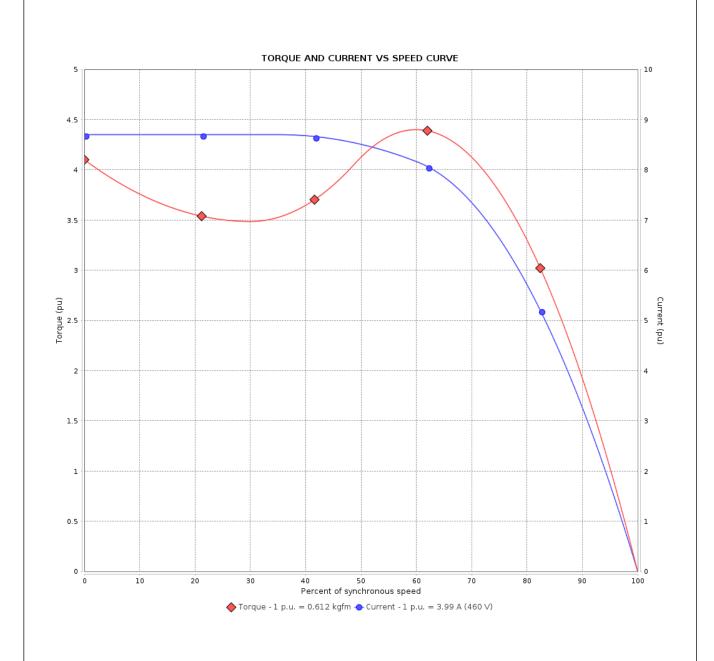
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



Performance	: 460 V 60 Hz 2P			
Rated current	: 3.99 A	Moment of inertia (J)	: 0.0026 kgm²	
LRC	: 8.7	Duty cycle	: S1	
Rated torque	: 0.612 kgfm	Insulation class	: F	
Locked rotor torque	: 409 %	Service factor	: 1.00	
Breakdown torque	: 440 %	Temperature rise	: 80 K	
Rated speed	: 3500 rpm	Design	: N	

Locked rotor time : 18s (cold) 10s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



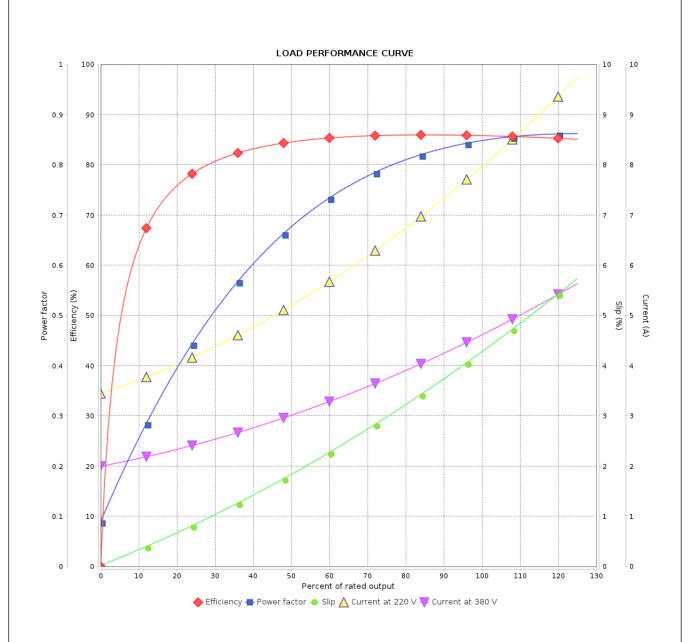
Customer : Astraprom d.o.o.

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Product line : W22 Product code : 12868103



Performance : 220/380 V 50 Hz 2P			2P				
Rated current : 7.91/4.58 A LRC : 7.0 Rated torque : 0.747 kgfm Locked rotor torque : 310 % Breakdown torque : 300 % Rated speed : 2870 rpm		D Ir S Te	floment of outy cycle nsulation ervice face emperatures	class ctor	: 0.0026 kgm² : S1 : F : 1.00 : 80 K : N		
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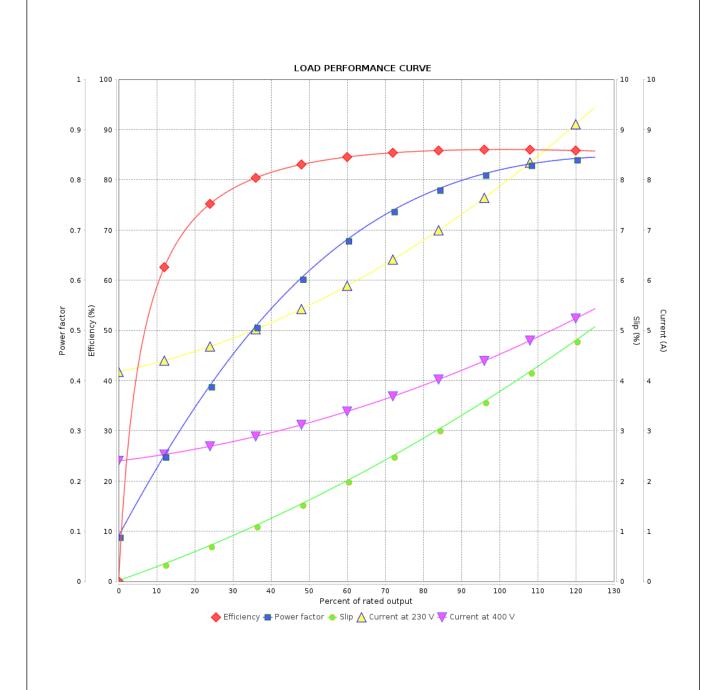
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### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



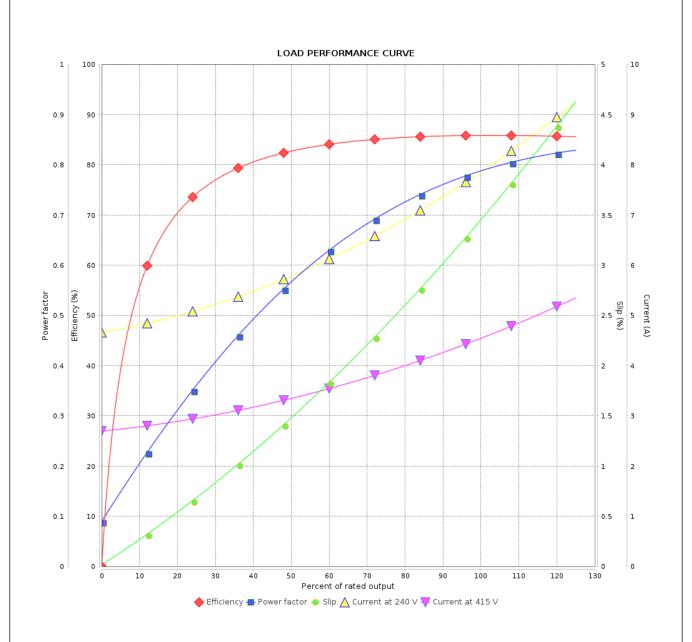
Performance	:	: 230/400 V 50 Hz 2P				
Rated current	: 7.84/4.51 A		Moment o	f inertia (J)	: 0.0026 kgm²	
LRC	:	7.5	Duty cycle	)	: S1	
Rated torque	:	0.743 kgfm	Insulation	class	: F	
Locked rotor torque	e :	350 %	Service fa	ctor	: 1.00	
		340 %	Temperature rise		: 80 K	
•		2885 rpm	Design		: N	
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



Performance	: 240/415 V 50 Hz 2P						
Rated current LRC	: 7.80/4.51 A : 8.0	Moment of inertia (J) Duty cycle		Duty cycle		: 0.0026 kgm² : S1	
Rated torque Locked rotor torque Breakdown torque	: 0.740 kgfm : 370 % : 380 %	Insulation class Service factor Temperature rise		: F : 1.00 : 80 K : N			
Rated speed  Rev.	: 2895 rpm Changes Summary	Design	erformed	Checked	Date		
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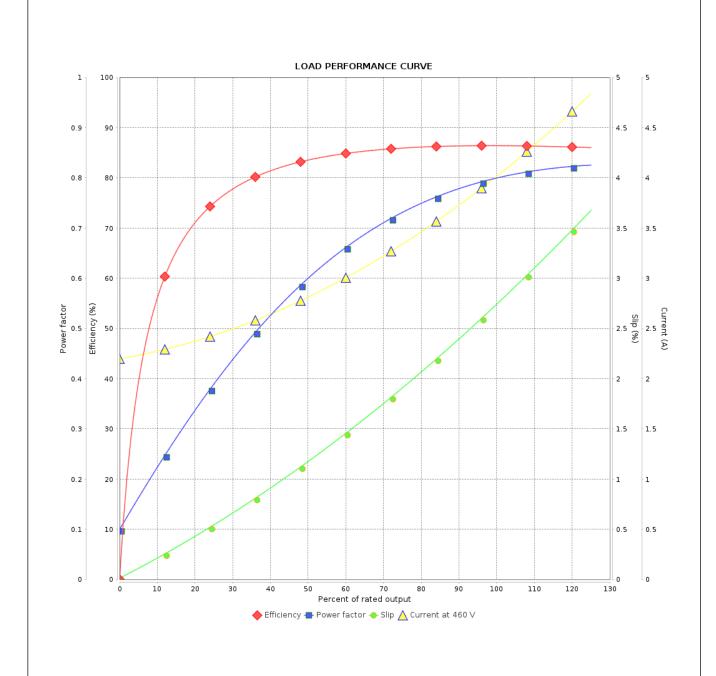
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

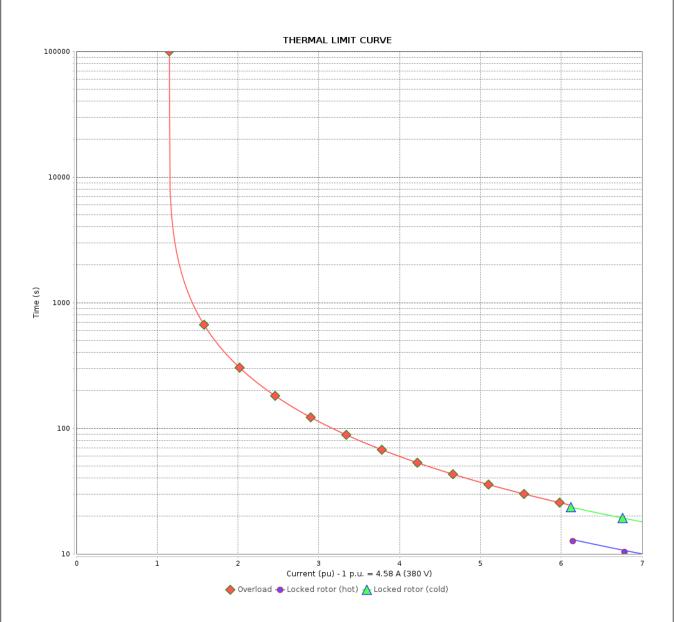


Performance	: 40	60 V 60 Hz 2P				
Rated current		.99 A	99 A Moment of		: 0.0026 kgm²	
LRC	: 8.	.7	Duty cycle	9	: S1	
Rated torque	: 0	.612 kgfm	Insulation	class	: F	
Locked rotor tord	que : 40	09 %	Service fa	ictor	: 1.00	
Breakdown torqu	ıe : 4	440 % Temperature		ure rise	: 80 K	
Rated speed : 3500 rpn		500 rpm	Design		: N	
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### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



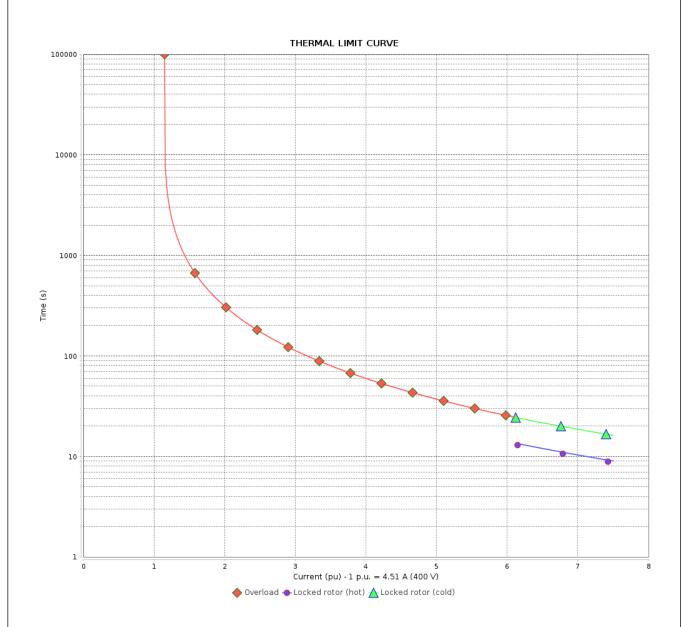
Performance	: 220/380 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.91/4.58 A : 7.0 : 0.747 kgfm : 310 % : 300 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0026 kgm² : S1 : F : 1.00 : 80 K : N	
Heating constant				
Cooling constant				

Cooling constant	Ţ				
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 230/400 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.84/4.51 A : 7.5 : 0.743 kgfm : 350 % : 340 % : 2885 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0026 kgm² : S1 : F : 1.00 : 80 K : N
Heating constant Cooling constant			

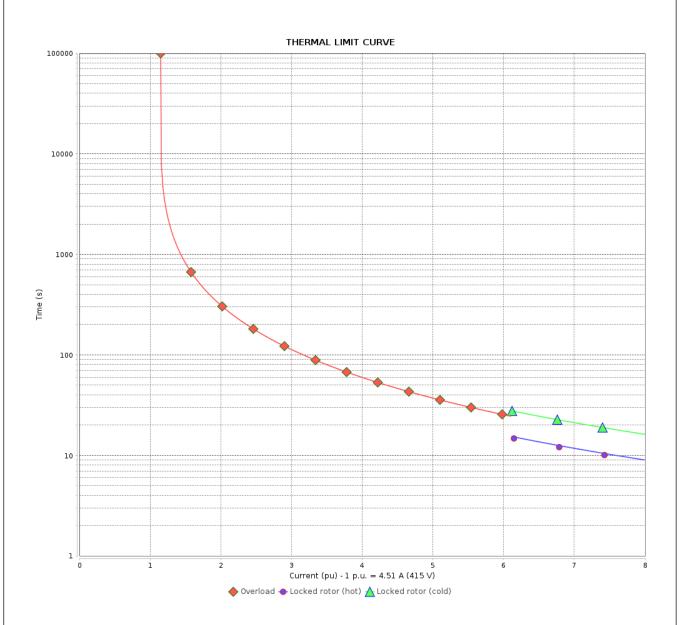
Cooling constant	t				
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



Performance : 240/415 V 50 Hz 2P Rated current : 7.80/4.51 A Moment of inertia (J) : 0.0026 kgm<sup>2</sup> **LRC** : 8.0 Duty cycle : S1 Insulation class : 0.740 kgfm : F Rated torque : 1.00 Locked rotor torque : 370 % Service factor Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2895 rpm Design Heating constant Cooling constant

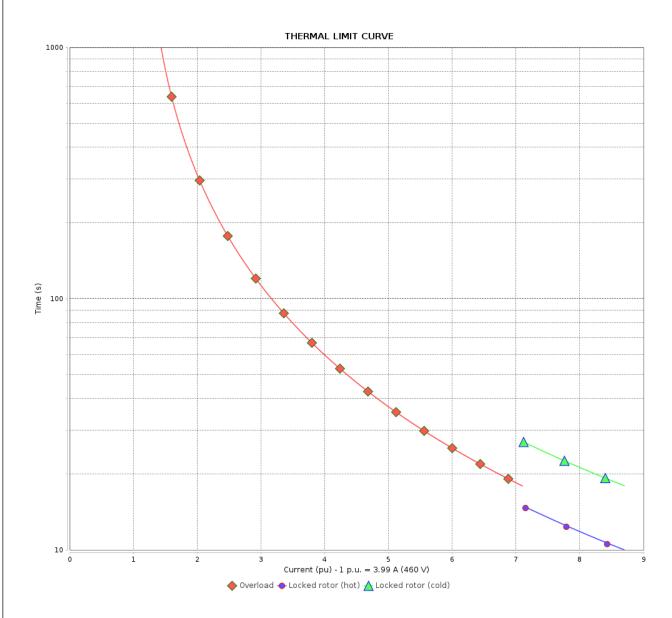
Cooling Constant	•				
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 Product code : 12868103



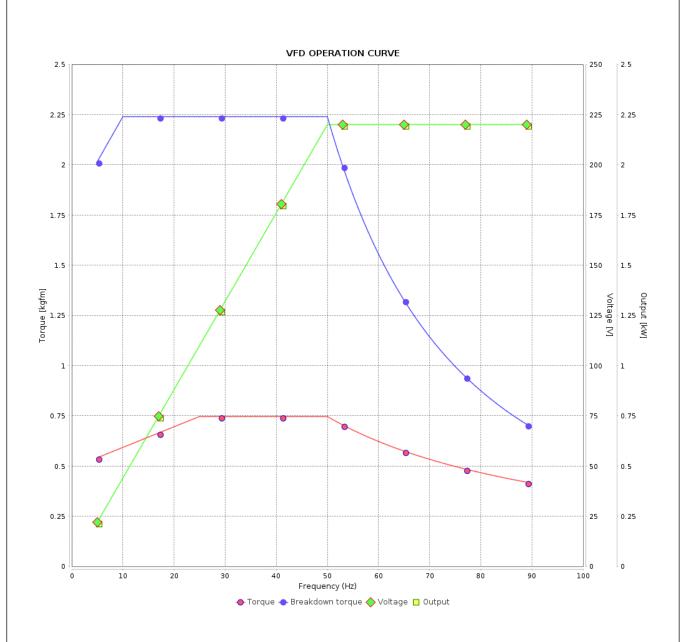
Performance : 460 V 60 Hz 2P Rated current : 3.99 A Moment of inertia (J) : 0.0026 kgm<sup>2</sup> LRC : 8.7 Duty cycle : S1 Insulation class Rated torque : 0.612 kgfm : F Locked rotor torque : 1.00 : 409 % Service factor Temperature rise Breakdown torque : 440 % : 80 K Rated speed : 3500 rpm Design Heating constant

Cooling constant	į .				
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### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



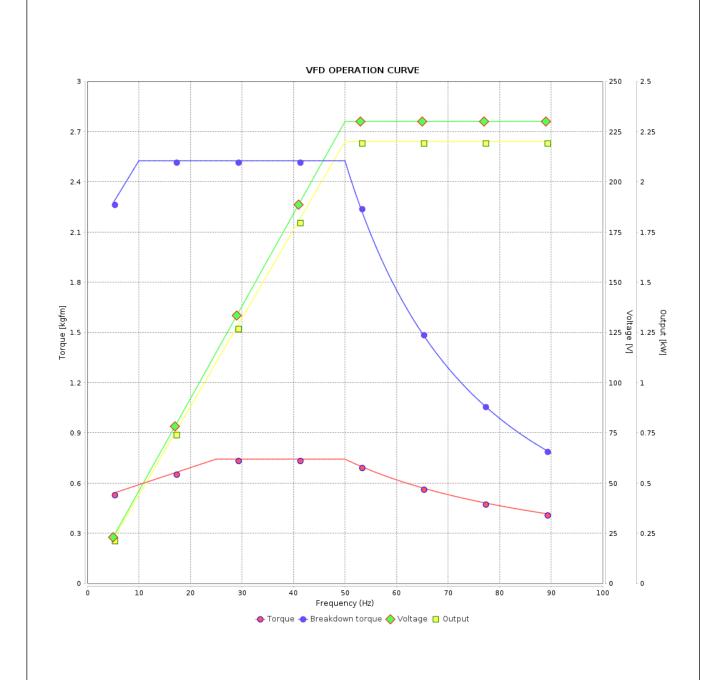
Performance		: 220/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 7.91/4.58 A : 7.0 : 0.747 kgfm : 310 % : 300 % : 2870 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0026 kgm² : S1 : F : 1.00 : 80 K : N	
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#### Three Phase Induction Motor - Squirrel Cage



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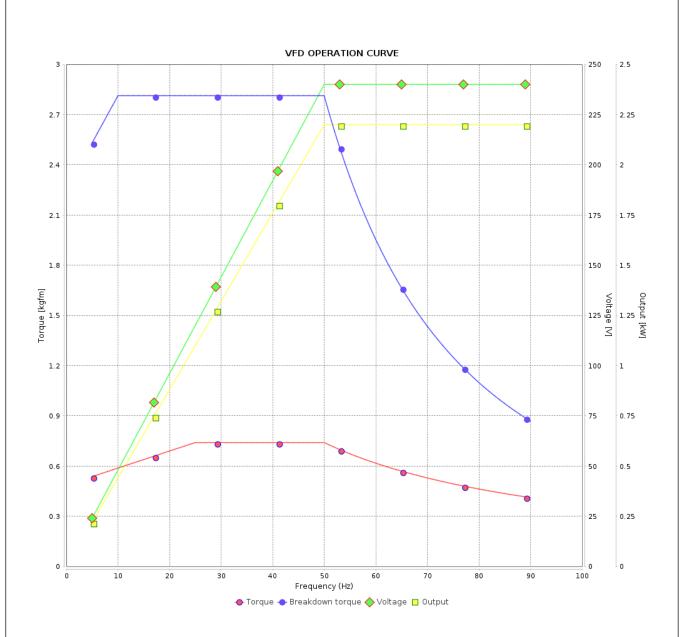


Performance	: 23	30/400 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 0. ue : 38 e : 34	84/4.51 A 5 .743 kgfm 50 % 40 % 885 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0026 kgm² : S1 : F : 1.00 : 80 K : N	
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

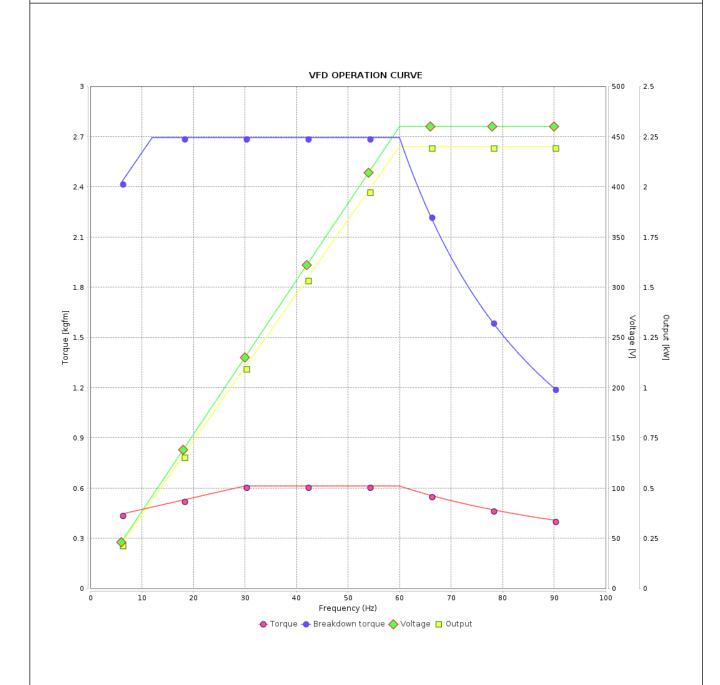


Performance	: 24	: 240/415 V 50 Hz 2P						
		80/4.51 A	1	Moment of inertia (J)		2		
LRC : 8.0		.0	Duty cycle	Duty cycle				
Rated torque	ed torque : 0.740 kgfm Insulation class		class	: F				
Locked rotor torque : 370 %		Service fa	Service factor					
Breakdown torque : 38		80 %	Temperat	Temperature rise				
Rated speed : 28		895 rpm	Design	Design				
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#### Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 40	60 V 60 Hz 2P					
		.99 A Moment of inertia (J)		: 0.0026 kgm²	2		
LRC : 8.		· ·		Duty cycle		: <u>S</u> 1	
		.612 kgfm 09 %		Insulation class Service factor		: F : 1.00	
		40 %		Temperature rise			
Rated speed		500 rpm	Design	Design			
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