DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Customer	: As	traprom d.	0.0.							
Product line	: IE3 T	hree-Phas	e			Produ	ct code :	13096	349	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: L100L : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N		Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J)		: B5T : Both : Dired : 34.1	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 34.1 kg : 0.0120 kgm²			
Output [kW]			3		3			3		3
Poles			4		4			4		4
Frequency [Hz]			50		50		5	0		60
Rated voltage [V]			0/660		400/690			15		460
Rated current [A]			2/3.70		6.31/3.66			23		5.46
L. R. Amperes [A]			1/28.8	4	49.2/28.5			3.6		47.0
LRC [A]			7.8		7.8			.8		8.6
No load current [A			0/1.84	;	3.40/1.97			80		3.30
Rated speed [RPI	M]		430		1440			45		1740
Slip [%]			1.67		4.00			67		3.33
Rated torque [kgfr			2.04		2.03			02		1.67
Locked rotor torqu			310		350			30		459
Breakdown torque	e [%]		330		370			00		480
Service factor			1.00		1.00			00		1.00
Temperature rise			30 K		80 K) K		80 K
Locked rotor time			d) 13s (hot)		cold) 15s (hot)) 15s (hot)		(cold) 18s (hot)
Noise level ²		53.0) dB(A)	5	3.0 dB(A)		53.0	dB(A)		54.0 dB(A)
	25%									
Efficiency (%)	50%		87.7		87.0		86.3 87.7			84.0
	75%		38.0		88.0					86.5
	100%	3	37.7		88.0		88	3.1		89.5
	25%									
Power Factor	50%		0.63		0.58 0.71		0.54 0.68			0.57
	75%	l .	0.75							0.69
	100%	(0.81		0.78		0.	76		0.77
Losses at normat	tive operating	points (sp	eed;torque), i	n perce	ntage of ra	ated ou	tput power			
	P1 (0	,9;1,0)	13.6		1	3.2		13.1		11.4
	P2 (0	,5;1,0)	12.1		1	1.8		11.7		10.1
	P3 (0,	25;1,0)	11.8		1	1.4		11.3		9.8
Losses (%)	P4 (0	,9;0,5)	6.4		6	6.2		6.2		5.4
	P5 (0	,5;0,5)	4.8		4	1.7		4.6		4.0
	P6 (0,	5;0,25)	3.2		3	3.1		3.1		2.7
	P7 (0,2	25;0,25)	2.4		2	2.4		2.3		2.0
		Drive (end Non dr	ive end	Foundat	ion loa	ds			
Bearing type		: 6206	620 620 620 620	05 ZZ	Max. tra	ction		: 184 k	af	
Sealing		: Oil S	Seal Oil	l Seal	Max. cor	npress	sion	: 218 k		
Lubrication inter	val	: -		-		-			-	
Lubricant amour	nt	: -		-						
Lubricant type		: M	lobil Polyrex E	ΞM						
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate v manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subject ocess.	shaft end.	f +3dB(A).	hich		upply, s		based on te		h sinusoidal ated in IEC
Rev.		Chanç	ges Summary	,	1	Pe	rformed	Checke	ed	Date
Performed by										
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Date	07/11/2022		1 / 19			
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Subject to change without notice						

Page

Revision

DATA SHEET



Three Phase Induction Motor - Squirrel Cage				ШЕЦ
Customer	: Astraprom d.o.o.			
Notes				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

2/19

07/11/2022

Date

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

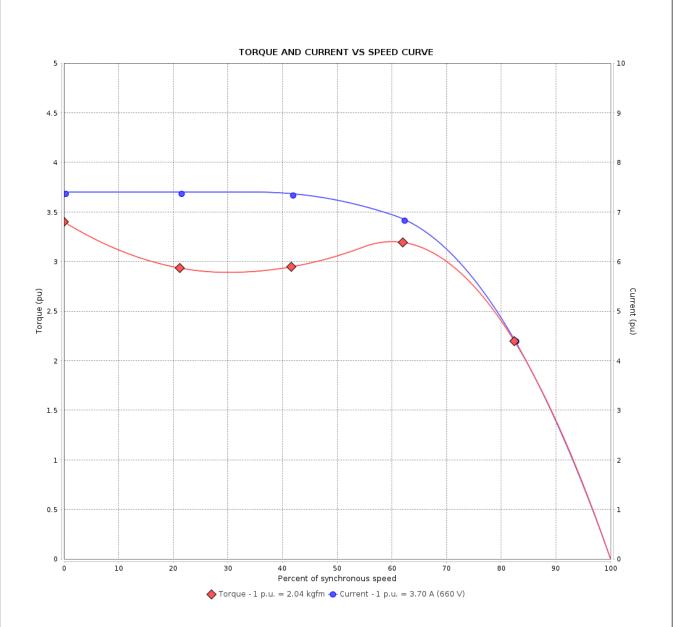
Rev.		Changes Summary	Performed	Checked	Date
		,			
Performed by					I
Checked by				Page	Revision
Date	07/11/2022			3 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance	: 380/660 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.42/3.70 A : 7.8 : 2.04 kgfm : 310 % : 330 % : 1430 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0120 kgm² : S1 : F : 1.00 : 80 K : N

Locked rotor time : 23s (cold) 13s (hot)

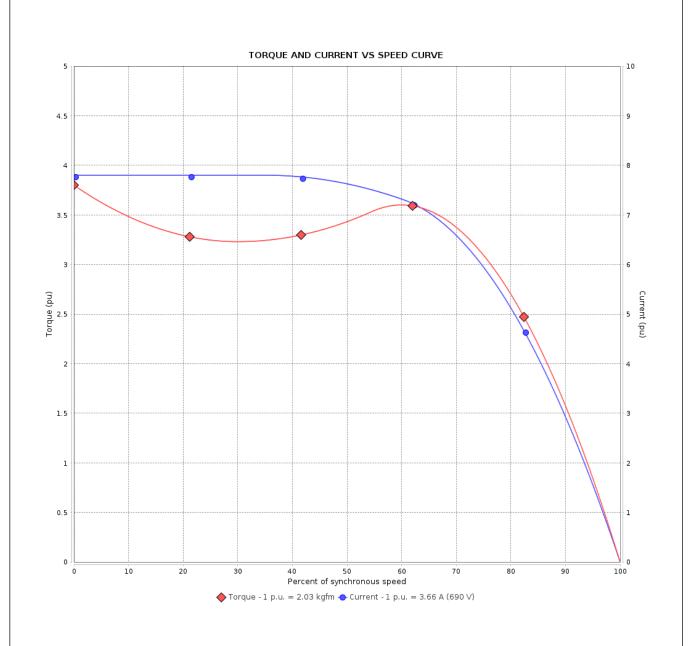
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022			4 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance	: 400/690 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.31/3.66 A : 7.8 : 2.03 kgfm : 350 % : 370 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0120 kgm² : S1 : F : 1.00 : 80 K : N	

Locked rotor time : 27s (cold) 15s (hot)

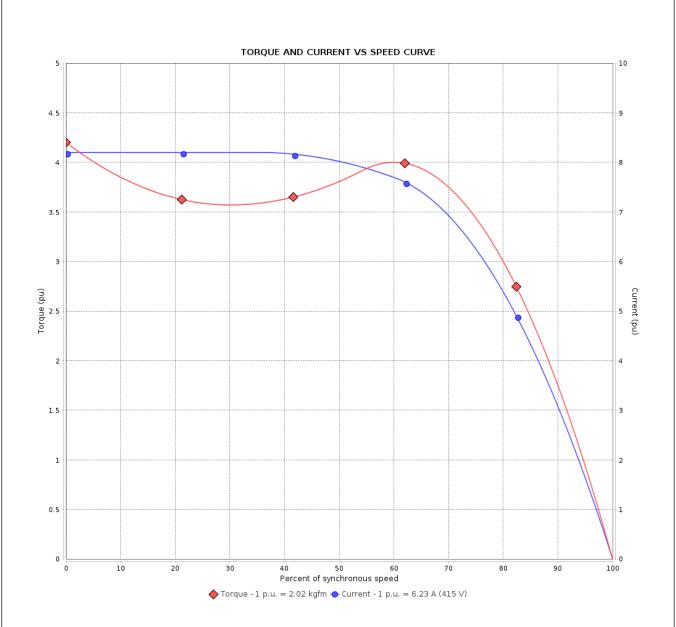
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022			5 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance	: 415 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.23 A : 7.8 : 2.02 kgfm : 380 % : 400 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0120 kgm² : S1 : F : 1.00 : 80 K : N

Locked rotor time : 27s (cold) 15s (hot)

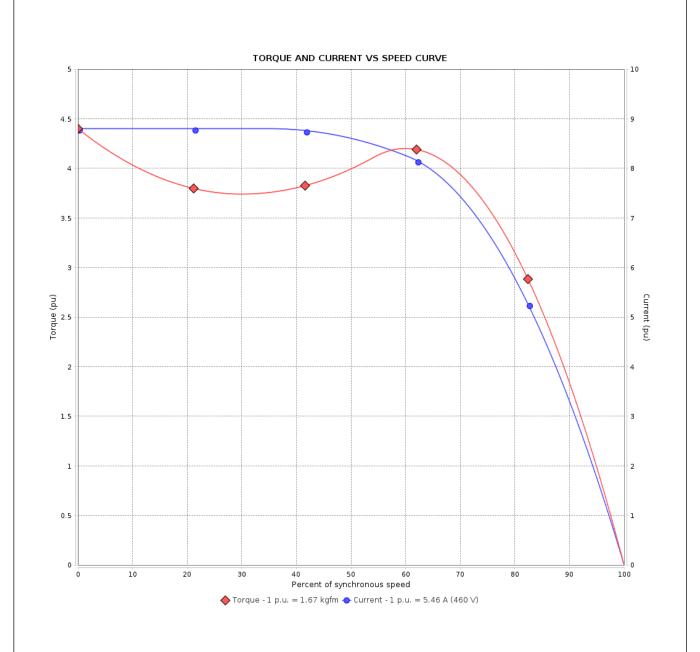
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022			6 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance	: 460 V 60 Hz 4P		
Rated current	: 5.46 A	Moment of inertia (J)	: 0.0120 kgm²
LRC	: 8.6	Duty cycle	: S1
Rated torque	: 1.67 kgfm	Insulation class	: F
Locked rotor torque	: 459 %	Service factor	: 1.00
Breakdown torque	: 480 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: N

Locked rotor time : 32s (cold) 18s (hot)

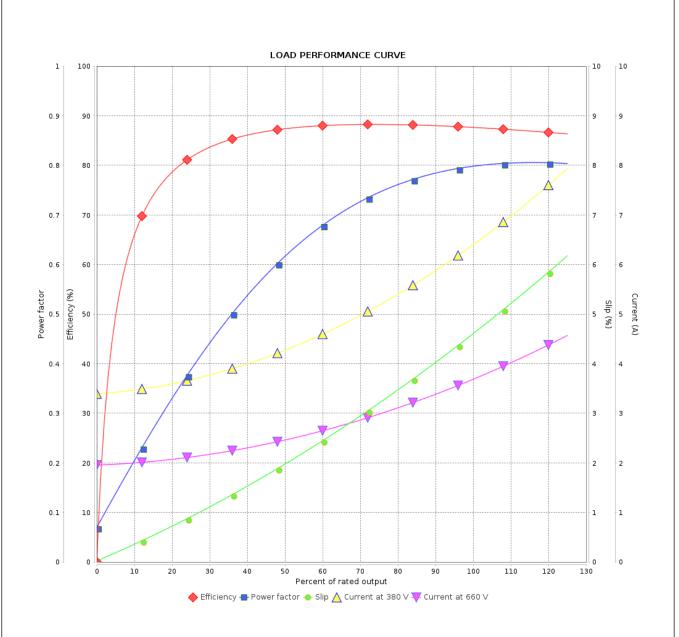
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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022			7 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance	: 380/660 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.42/3.70 A : 7.8 : 2.04 kgfm : 310 % : 330 % : 1430 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0120 kgm² : S1 : F : 1.00 : 80 K : N	2
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision

8 / 19

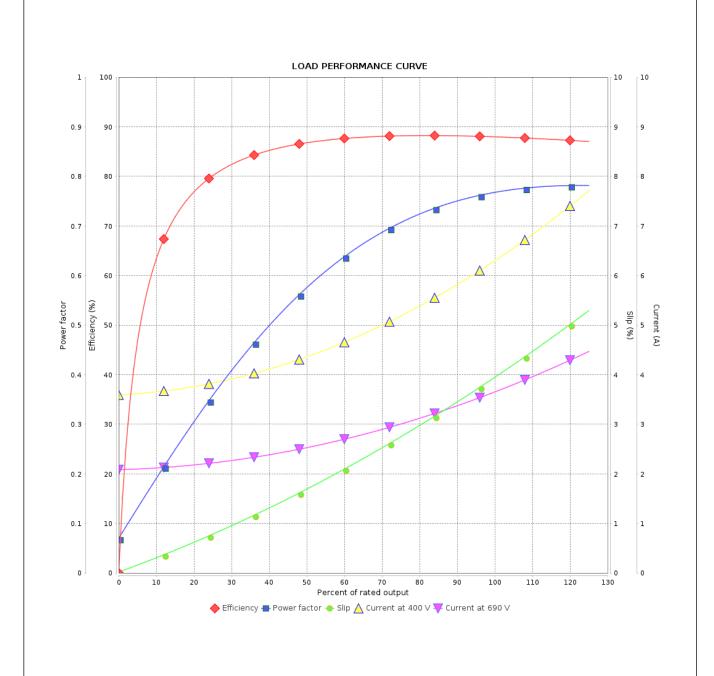
07/11/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 4	00/690 V 50 Hz 4P				
Rated current	: 6	.31/3.66 A	Moment o	f inertia (J)	: 0.0120 kgm²	
_RC	: 7	.8	Duty cycle	}	: S1	
Rated torque	: 2	.03 kgfm	Insulation	class	: F	
ocked rotor torq	ue : 3	50 %	Service fa	ctor	: 1.00	
Breakdown torqu	e :3	70 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	440 rpm	Design		: N	
Rev.		Changes Summary	 	Performed	Checked	Date
D ()						
Performed by						
Checked by					Page	Revision
Date	07/11/2022				9 / 19	

Three Phase Induction Motor - Squirrel Cage



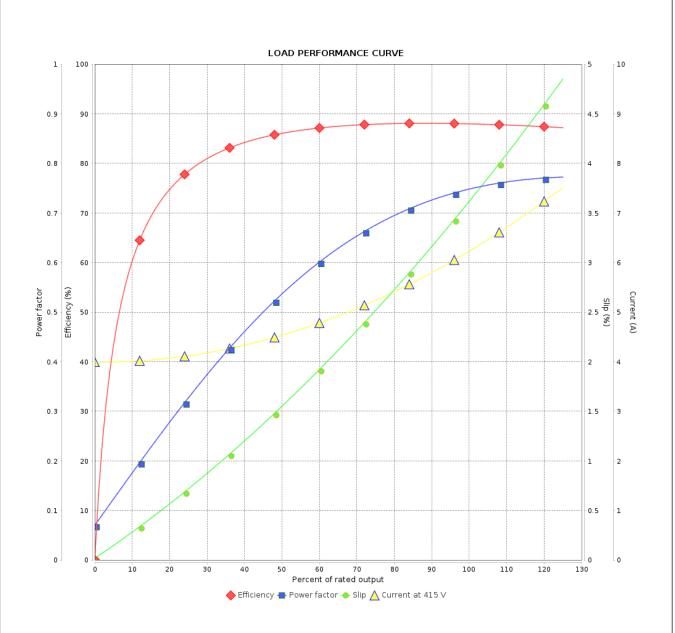
Customer : Astraprom d.o.o.

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Date

07/11/2022

Product line : IE3 Three-Phase Product code : 13096349



Performance	: 4	115 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 jue : 3	5.23 A 7.8 2.02 kgfm 880 % 100 % 1445 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 0.0120 kgm ² : S1 : F : 1.00 : 80 K : N	
Rev.		Changes Summary		Performed	Checked	Date
Performed by					·	

Page

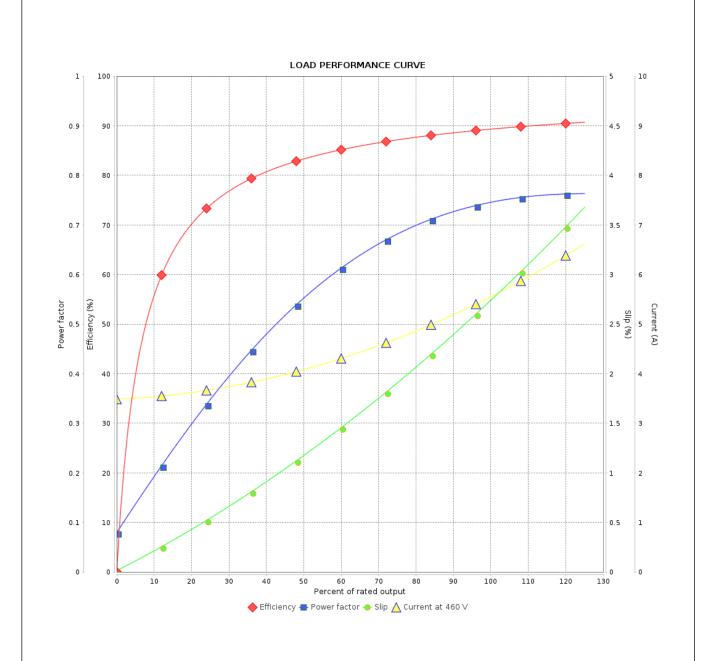
10/19

Revision

Three Phase Induction Motor - Squirrel Cage



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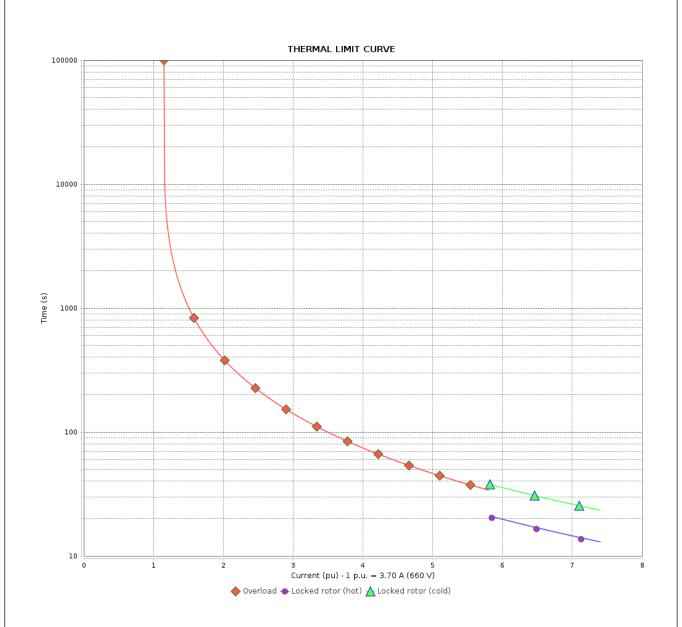
Performance	:	460 V 60 Hz 4P				
Rated current	:	5.46 A	Moment o	f inertia (J)	: 0.0120 kgm²	
LRC	:	8.6	Duty cycle)	: S1	
Rated torque	:	1.67 kgfm	Insulation	class	: F	
Locked rotor torque	e :	459 %	Service fa	ctor	: 1.00	
Breakdown torque	:	480 %	Temperature rise		: 80 K	
Rated speed	:	1740 rpm	Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	07/11/2022				11 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance : 380/660 V 50 Hz 4P Rated current : 6.42/3.70 A Moment of inertia (J) : 0.0120 kgm² **LRC** Duty cycle : S1 : 7.8 Insulation class : F Rated torque : 2.04 kgfm : 310 % : 1.00 Locked rotor torque Service factor Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1430 rpm Design : N Heating constant Cooling constant

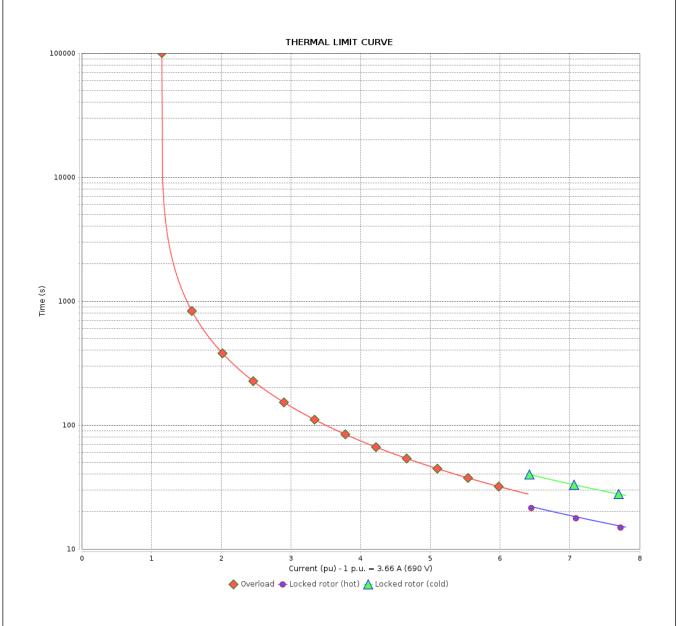
Cooling Constant	•				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022	1		12 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance : 400/690 V 50 Hz 4P : 6.31/3.66 A Moment of inertia (J) : 0.0120 kgm² Rated current **LRC** Duty cycle : S1 : 7.8 Insulation class : F Rated torque : 2.03 kgfm : 350 % Locked rotor torque Service factor : 1.00 Breakdown torque : 370 % : 80 K Temperature rise Rated speed : 1440 rpm Design : N Heating constant

Cooling constant

Rev. Changes Summary Performed Checked Date

Performed by

 Checked by
 Page
 Revision

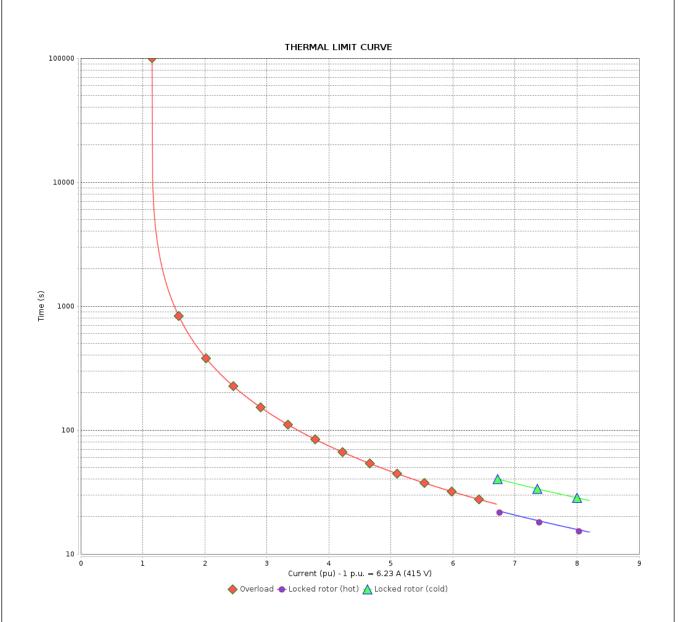
 Date
 07/11/2022
 13 / 19

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



Performance : 415 V 50 Hz 4P Rated current : 6.23 A Moment of inertia (J) : 0.0120 kgm² **LRC** : 7.8 Duty cycle : S1 Insulation class : 2.02 kgfm : F Rated torque : 380 % : 1.00 Locked rotor torque Service factor Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 1445 rpm Design Heating constant Cooling constant

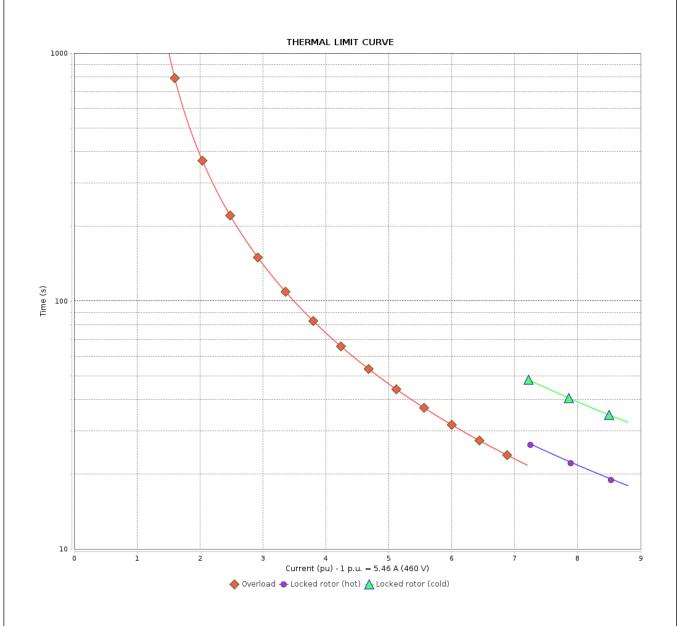
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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022			14 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : IE3 Three-Phase Product code : 13096349



: 460 V 60 Hz 4P Performance Rated current : 5.46 A Moment of inertia (J) : 0.0120 kgm² **LRC** : 8.6 Duty cycle : S1 Insulation class Rated torque : 1.67 kgfm : F Locked rotor torque : 459 % : 1.00 Service factor Breakdown torque : 480 % Temperature rise : 80 K Rated speed : 1740 rpm Design : N Heating constant

Heating constant Cooling constant

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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	07/11/2022				15 / 19	

Three Phase Induction Motor - Squirrel Cage



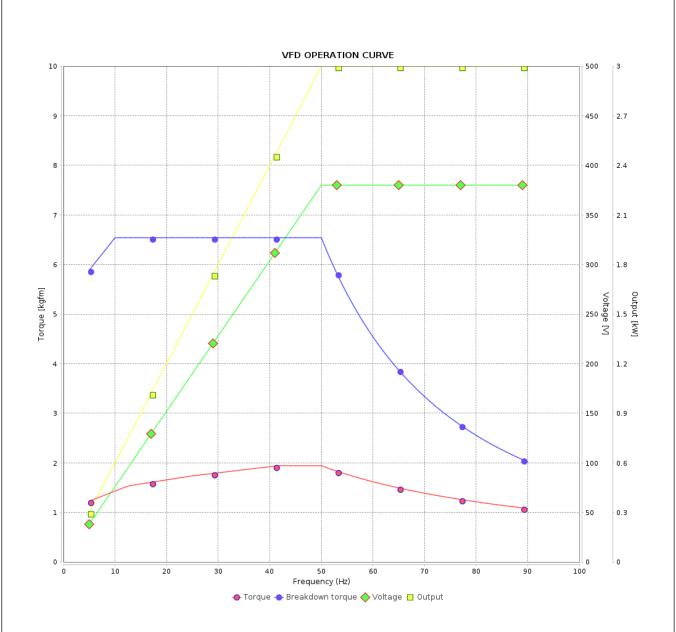
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Checked by

Date

07/11/2022

Product line : IE3 Three-Phase Product code : 13096349



Performance	:	380/660 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	6.42/3.70 A 7.8 2.04 kgfm 310 % 330 % 1430 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0120 kgm ² : S1 : F : 1.00 : 80 K : N	
Rev.		Changes Summary		Performed	Checked	Date
Performed by					·	

Page

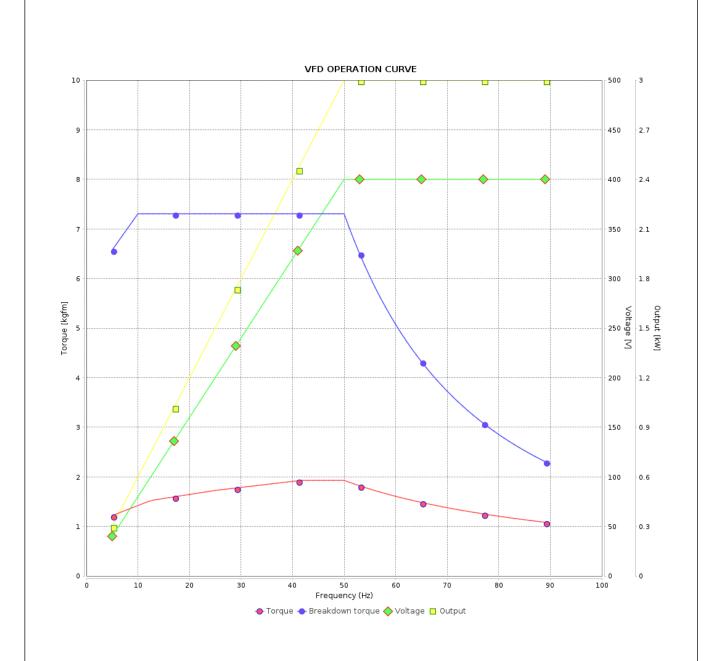
16/19

Revision

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

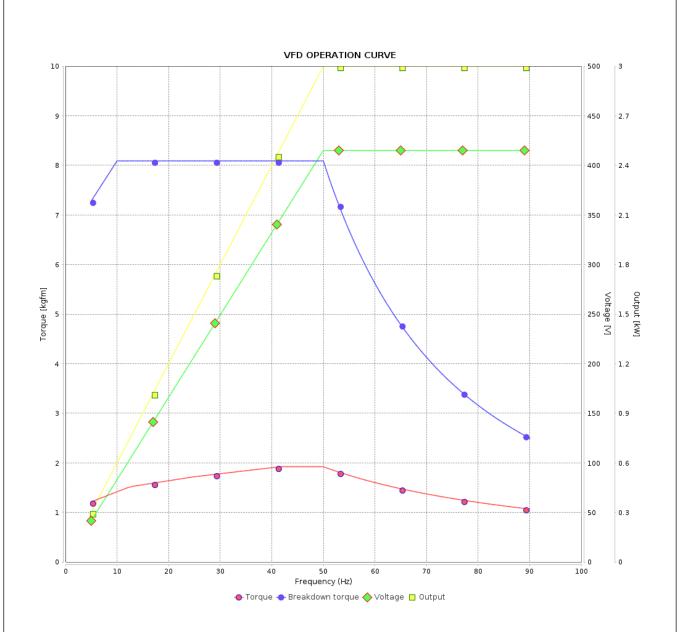


Performance	: 40	00/690 V 50 Hz 4P				
Rated current	: 6.	31/3.66 A	S A Moment of inertia (J)		: 0.0120 kgm²	
LRC	: 7.	8	Duty cycle	9	: S1	
Rated torque	: 2.	03 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 35	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 37	70 %	Temperati	Temperature rise		
Rated speed	: 14	140 rpm	Design		: N	
Rev.		Changes Summary	у	Performed	Checked	Date
Performed by						
,					_	
Checked by					Page	Revision
Date	07/11/2022				17 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



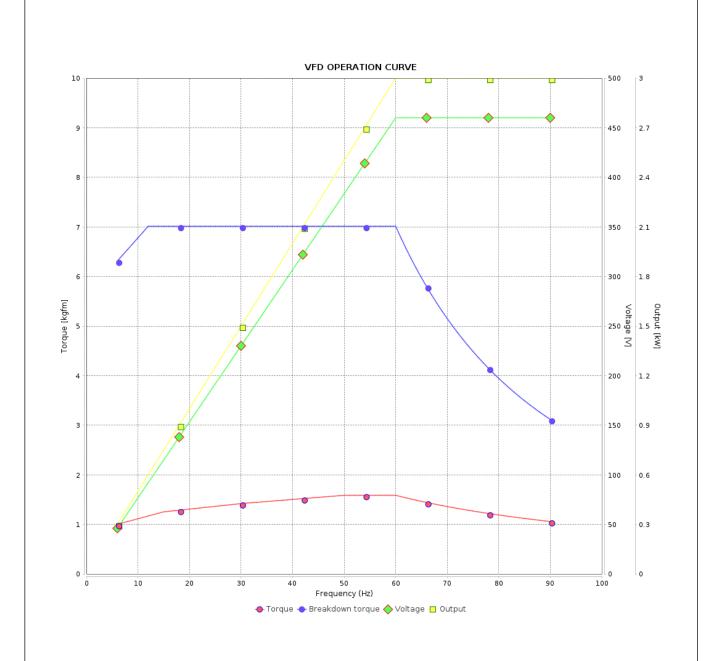
Performance		: 415 V 50 Hz 4P				
Rated current LRC Rated torque		: 6.23 A : 7.8 : 2.02 kgfm	Duty cycle		: 0.0120 kgm² : S1 : F	
Locked rotor tord	Locked rotor torque : 380 % Service		Service fa	e factor : 1.00 rature rise : 80 K		
Rated speed		: 1445 rpm	Design		: N	
Rev.		Changes Summary		Performed	Checked	Date

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	07/11/2022			18 / 19	

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.



Performance	: 40	60 V 60 Hz 4P				
Rated current LRC		5.46 A Mome 8.6 Duty (of inertia (J)	: 0.0120 kgm² : S1	
Rated torque Locked rotor torc		: 1.67 kgfm Insulation : 459 % Service fa : 480 % Temperat : 1740 rpm Design		class	: F : 1.00	
Breakdown torqu Rated speed				ure rise	: 80 K : N	
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	07/11/2022	1			19 / 19	