DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	: As	traprom d.	0.0.							
Product line	: W22	IE3 Three-	Phase			Produc	t code :	12862	2392	
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 160M : F : S1 : -20°C t : 1000 m : IP55 : N			Cooling Mountin Rotation Starting Approx. Moment	ig n¹ metho weight	d ³	: B3T : Both : Dired : 125	cṫ On L	and CCW) Line
,			44	1	44			4		
Output [kW]			2		11 2			1 2		<u>11</u> 2
Poles Frequency [Hz]			50		50			<u>2</u> 0		60
Rated voltage [V]		30	0/660		400/690		4			460
Rated current [A]			6/12.4		21.0/12.2		20			19.0
L. R. Amperes [A]			0/98.1		178/103		18			184
LRC [A]			7.9		8.5	-	9.			9.7
No load current [A	.1		0/5.24		10.1/5.86		11			9.50
Rated speed [RPI	-		2955		2960		29			3565
Slip [%]	۸۱]		1.50		1.33		1.3			0.97
Rated torque [kgfr	m1		3.63		3.62		3.0			3.01
Locked rotor torque			270		3.62			02 30		380
			350		380		42			470
Breakdown torque	9 [%]		1.00				1.0			1.00
Service factor			30 K		1.00 80 K		80			80 K
Temperature rise				11-		241			100	
Locked rotor time			ld) 0s (hot)		cold) 0s (h	101)	14s (cold			(cold) 0s (hot)
Noise level ²	25%	67.0) dB(A)	О	7.0 dB(A)		67.0	uB(A)		72.0 dB(A)
		,	20.0		00.0		0.0			00.0
Efficiency (%)	50%		90.0		89.0		88			89.0
• • • • • • • • • • • • • • • • • • • •	75%	91.2			91.0		90.0 91.2			91.0
	100%	,	91.2		91.2		91	.2		91.0
	25%		2.00		0.05		•	00		
Power Factor	50%		0.69		0.65		0.0			0.62
	75%	1	0.80		0.76		0.			0.74
	100%	(0.85		0.83		0.8	81		0.80
Losses at normat	ive operating	points (sp	eed;torque), i	n percei	ntage of ra	ited out	tput power			
		,9;1,0)	9.3	-		0.3		9.3		9.5
		,5;1,0)	7.7		7	7.7		7.7		7.9
		25;1,0)	7.1			'.1		7.1		7.3
Losses (%)	•	,9;0,5)	5.1			5.1		5.1		5.2
(,		,5;0,5)	3.4		3	3.4		3.4	_	3.5
		5;0,25)	2.4			2.4		2.4		2.5
		25;0,25)	1.7			.7		1.7	_	1.7
	(0,2	Drive (L	ive end						
Bearing type Sealing Lubrication inter	val	: 6309 Z	ZZ C3 6209	ZZ C3 Ring	Max. trac Max. cor	ction		: 159 k : 285 k		
Lubricant amour Lubricant type		: - : M	lobil Polyrex E	- ЕМ						
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of full	ed. notor from the 1m and with t weight subject ocess.	shaft end.	f +3dB(A).	hich		upply, s				th sinusoidal lated in IEC
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DATA SHEET

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Three Phase Induction Motor - Squirrel Cage				<u> </u>		
Customer	: Astrapı	om d.o.o.				
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

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

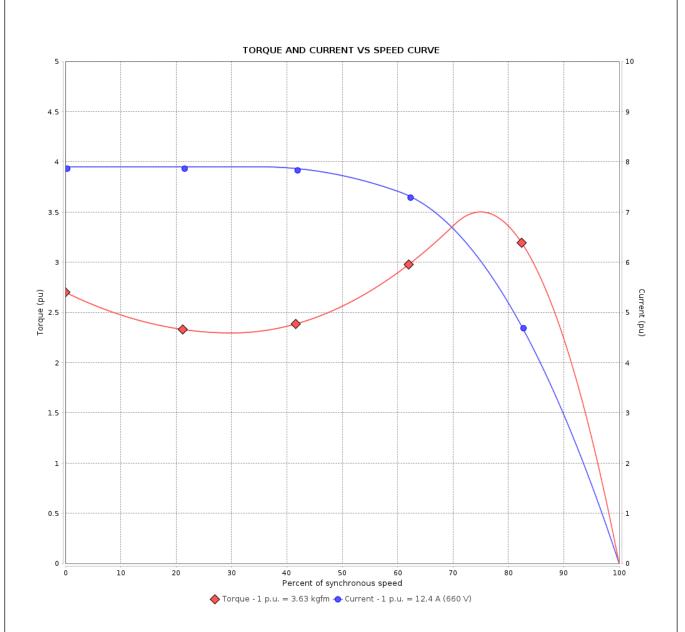
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	: 380/660 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.6/12.4 A : 7.9 : 3.63 kgfm : 270 % : 350 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0482 kgm² : S1 : F : 1.00 : 80 K : N

Locked rotor time : 16s (cold) 0s (hot)

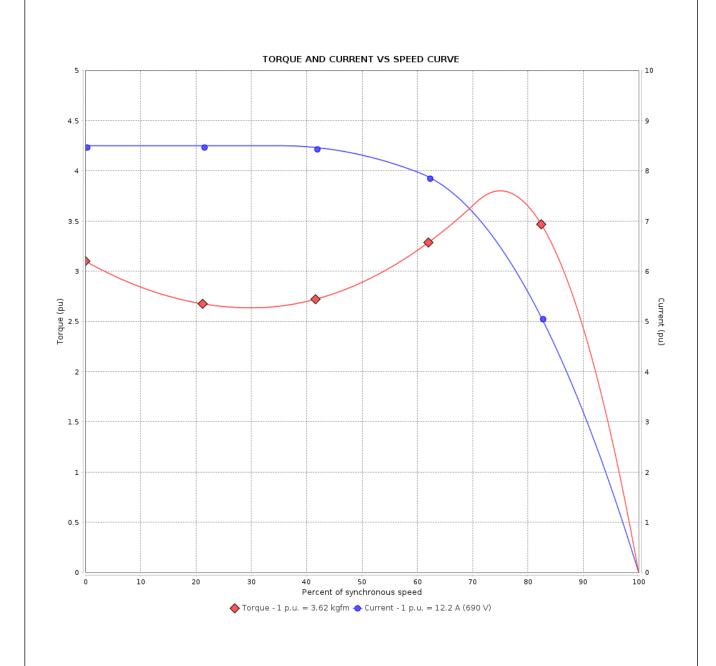
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	: 400/690 V 50 Hz 2P			
Rated current	: 21.0/12.2 A	Moment of inertia (J)	: 0.0482 kgm²	
LRC	: 8.5	Duty cycle	: S1	
Rated torque	: 3.62 kgfm	Insulation class	: F	
Locked rotor torque	: 310 %	Service factor	: 1.00	
Breakdown torque	: 380 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: N	

Locked rotor time : 14s (cold) 0s (hot)

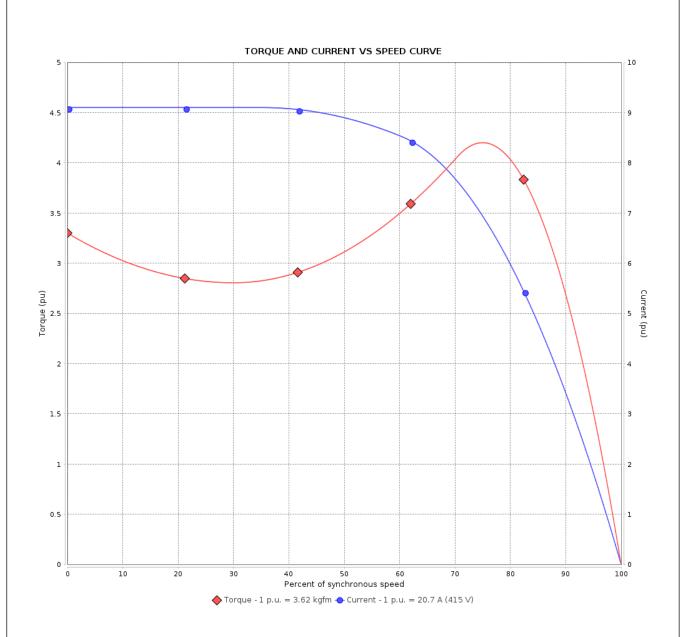
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance : 415 V 50 Hz 2P Rated current : 20.7 A Moment of inertia (J) : 0.0482 kgm² **LRC** : 9.1 Duty cycle : S1 Rated torque : 3.62 kgfm Insulation class : F : 330 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 420 % Temperature rise Rated speed : N : 2960 rpm Design

Locked rotor time : 14s (cold) 0s (hot)

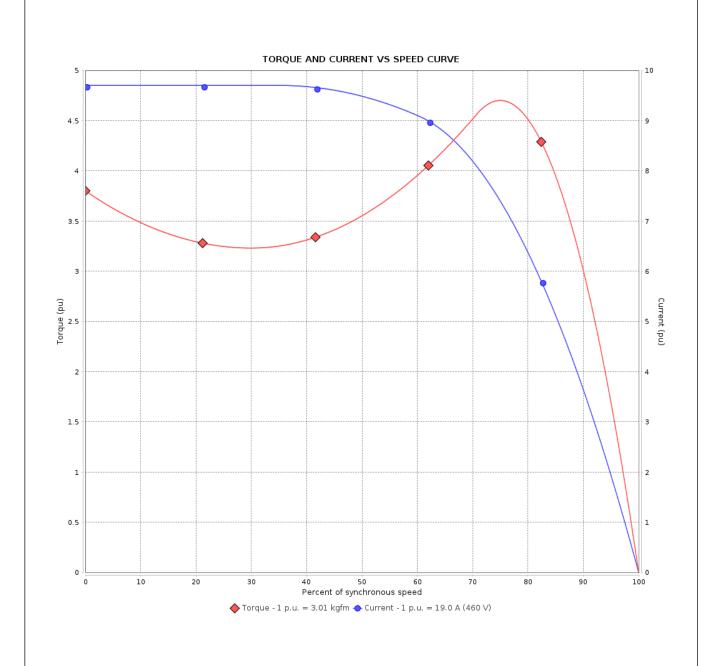
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	: 460 V 60 Hz 2P			
Rated current	: 19.0 A	Moment of inertia (J)	: 0.0482 kgm²	
LRC	: 9.7	Duty cycle	: S1	
Rated torque	: 3.01 kgfm	Insulation class	: F	
Locked rotor torque	: 380 %	Service factor	: 1.00	
Breakdown torque	: 470 %	Temperature rise	: 80 K	
Rated speed	: 3565 rpm	Design	: N	

Locked rotor time : 18s (cold) 0s (hot)

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Three Phase Induction Motor - Squirrel Cage



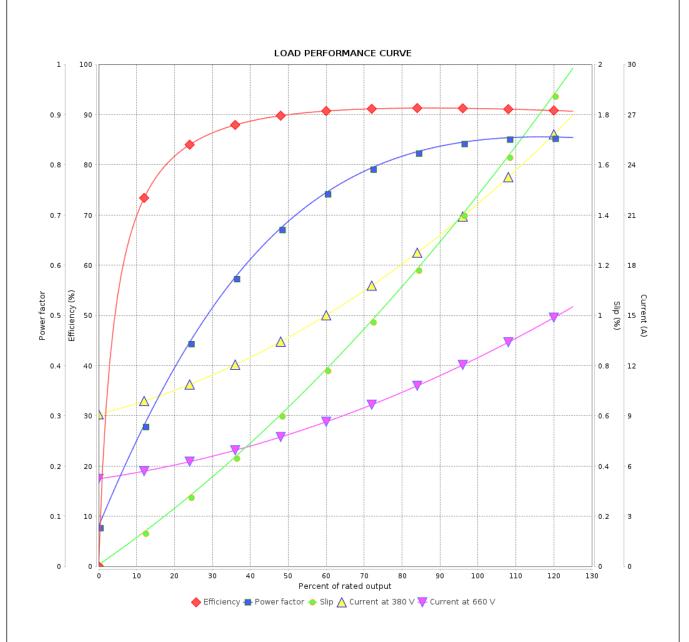
Customer : Astraprom d.o.o.

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Date

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Product line : W22 IE3 Three-Phase Product code : 12862392



Performance		: 380/660 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 21.6/12.4 A : 7.9 : 3.63 kgfm : 270 % : 350 % : 2955 rpm	A	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0482 kgm² : S1 : F : 1.00 : 80 K : N	
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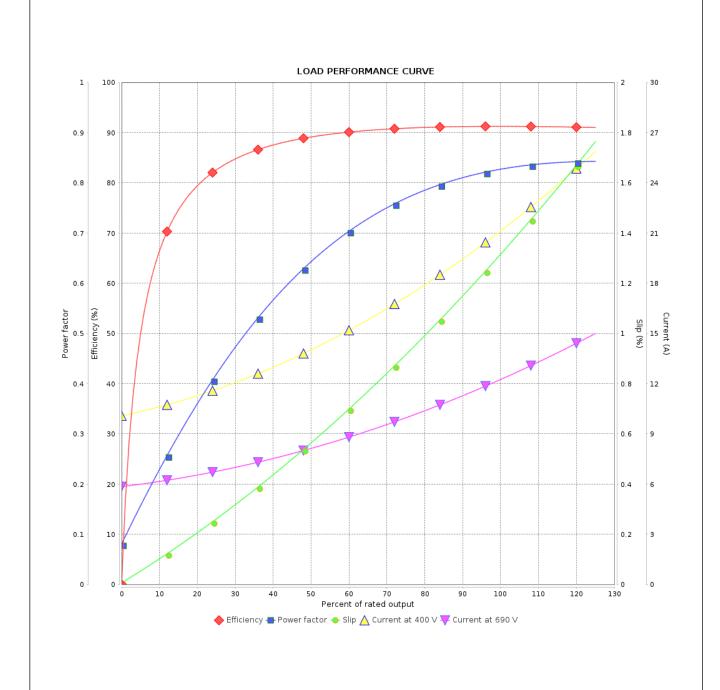
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



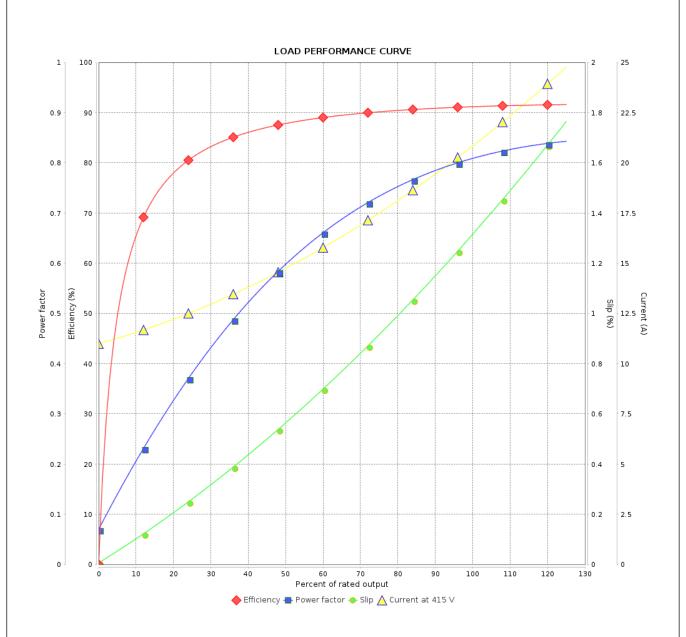
Performance	: 4	: 400/690 V 50 Hz 2P					
Rated current	: 2	21.0/12.2 A	Moment o	f inertia (J)	: 0.0482 kgm²		
LRC	: 8	3.5	Duty cycle	;	: S1		
Rated torque	: 3	3.62 kgfm	Insulation	class	: F		
Locked rotor torque	e :3	310 %	Service fa	ctor	: 1.00		
Breakdown torque		880 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	2960 rpm	Design		: N		
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	ance : 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.7 A : 9.1 : 3.62 kgfm : 330 % : 420 % : 2960 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class actor	: 0.0482 kgm² : S1 : F : 1.00 : 80 K : N	2
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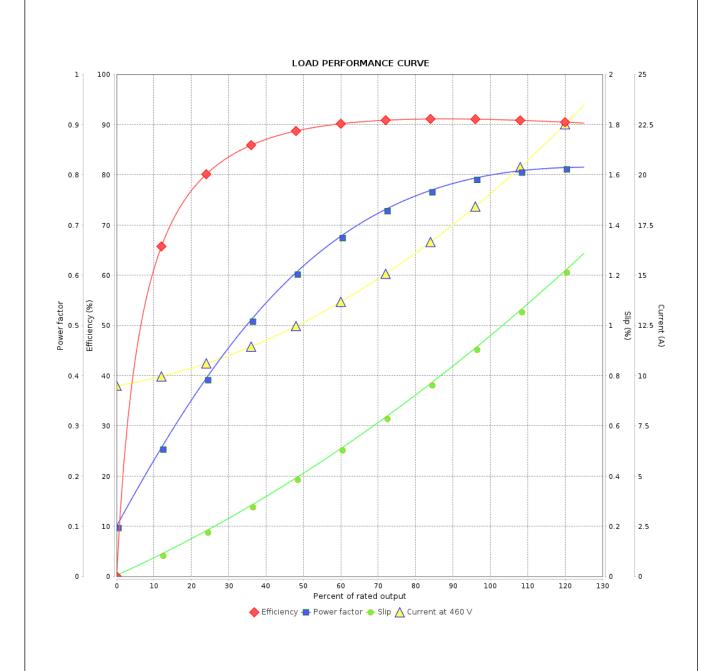
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	: 460 V 60 Hz 2P	: 460 V 60 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.0 A : 9.7 : 3.01 kgfm : 380 % : 470 % : 3565 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0482 kgm² : S1 : F : 1.00 : 80 K : N	2
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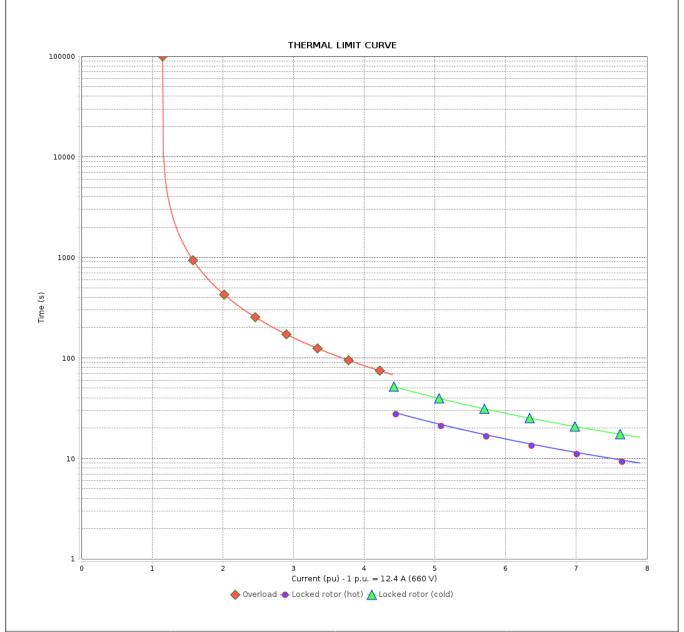
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance : 380/660 V 50 Hz 2P Rated current : 21.6/12.4 A Moment of inertia (J) : 0.0482 kgm² **LRC** : 7.9 Duty cycle : S1 Insulation class : F Rated torque : 3.63 kgfm : 270 % : 1.00 Locked rotor torque Service factor Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2955 rpm Design Heating constant Cooling constant

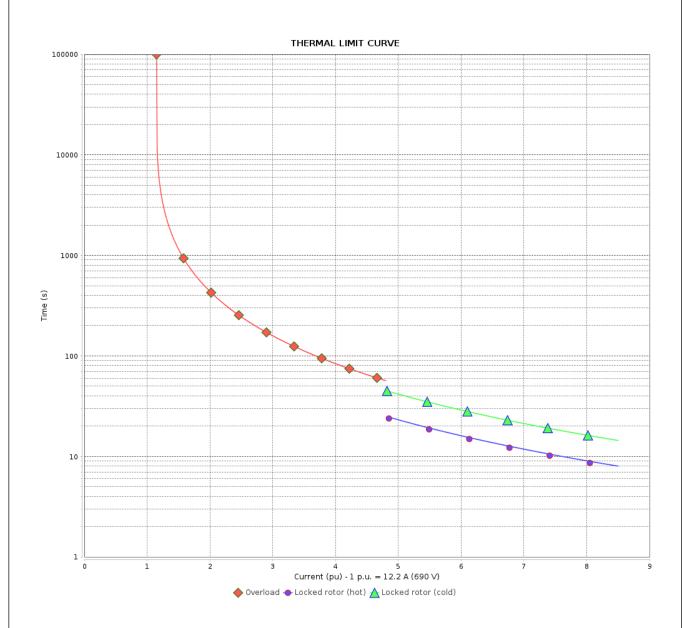
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code: 12862392



Performance : 400/690 V 50 Hz 2P : 21.0/12.2 A Moment of inertia (J) : 0.0482 kgm² Rated current **LRC** : 8.5 Duty cycle : S1 Insulation class : F Rated torque : 3.62 kgfm : 310 % Locked rotor torque Service factor : 1.00 : 380 % : 80 K Breakdown torque Temperature rise Rated speed : 2960 rpm Design : N Heating constant Cooling constant

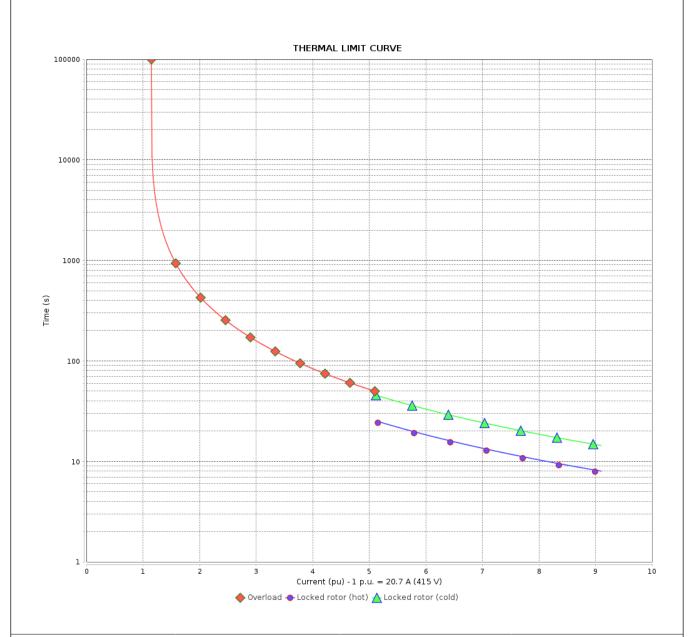
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance : 415 V 50 Hz 2P Rated current : 20.7 A Moment of inertia (J) : 0.0482 kgm² **LRC** : 9.1 Duty cycle : S1 Insulation class : 3.62 kgfm : F Rated torque : 330 % : 1.00 Locked rotor torque Service factor Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2960 rpm Design

Heating constant

Cooling constant

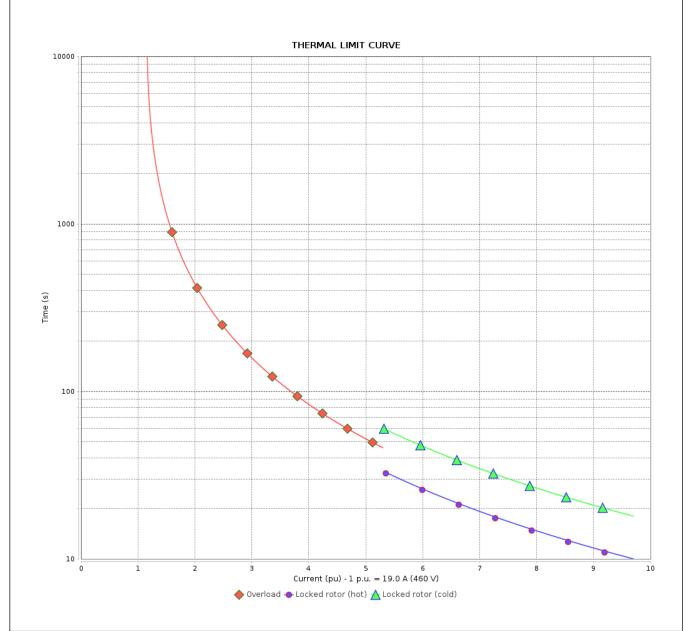
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance : 460 V 60 Hz 2P Rated current : 19.0 A Moment of inertia (J) : 0.0482 kgm² **LRC** : 9.7 Duty cycle : S1 Insulation class : F Rated torque : 3.01 kgfm Locked rotor torque : 380 % Service factor : 1.00 Breakdown torque : 470 % Temperature rise : 80 K Rated speed : 3565 rpm Design : N Heating constant Cooling constant

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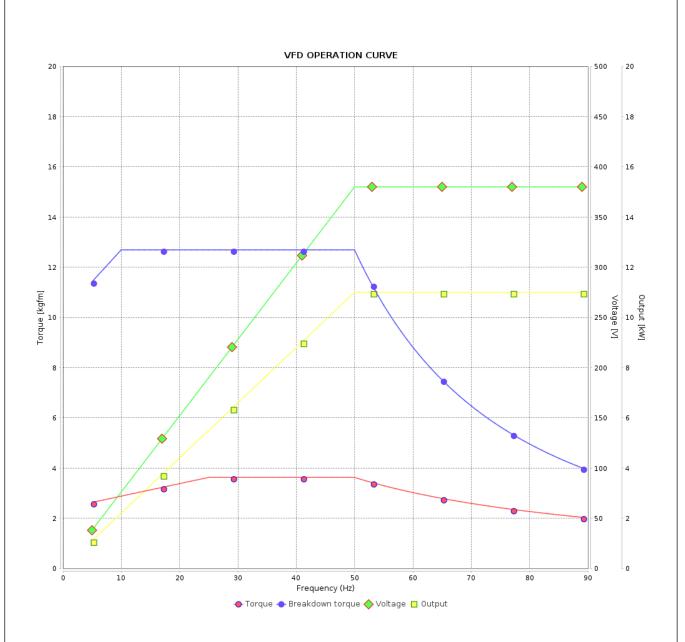
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	: 380/660 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.6/12.4 A : 7.9 : 3.63 kgfm : 270 % : 350 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0482 kgm² : S1 : F : 1.00 : 80 K : N	
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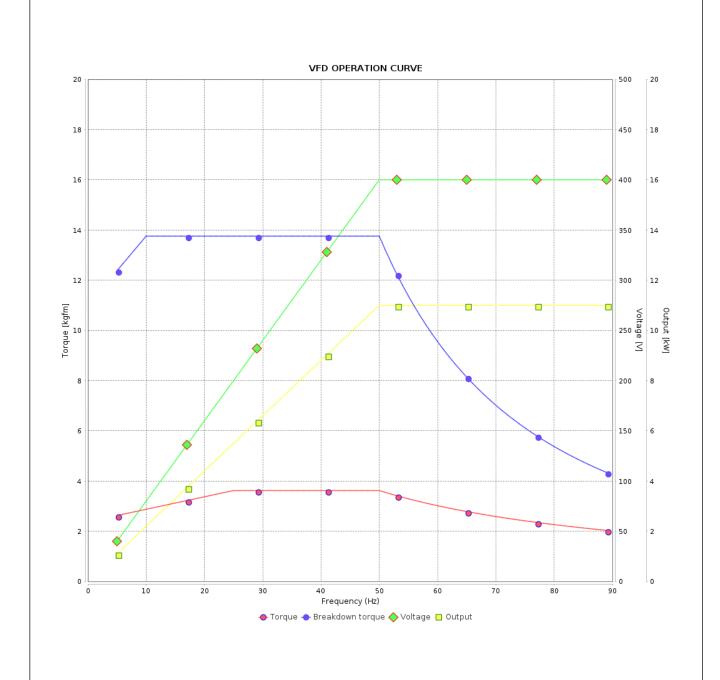
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance	: 4	: 400/690 V 50 Hz 2P				
Rated current	: 2	1.0/12.2 A	Moment o	f inertia (J)	: 0.0482 kgm²	
LRC	: 8	.5	Duty cycle	Duty cycle : S1		
Rated torque	: 3	.62 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 3	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 3	80 %	Temperature rise		: 80 K	
Rated speed	: 2	960 rpm	Design		: N	
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Three Phase Induction Motor - Squirrel Cage



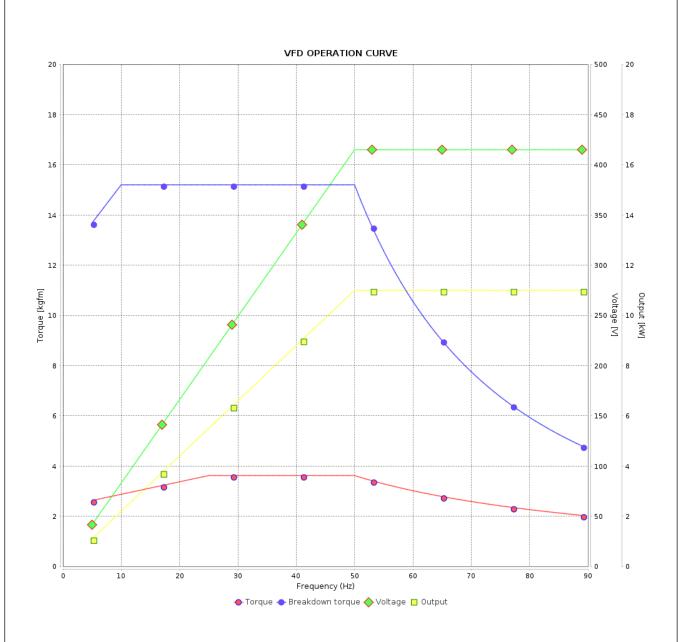
Customer : Astraprom d.o.o.

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Date

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Product line : W22 IE3 Three-Phase Product code : 12862392



Performance : 415 V 50 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 20.7 A : 9.1 : 3.62 kgfm : 330 % : 420 % : 2960 rpm	Duty cyc Insulatio Service	n class	: 0.0482 kgm² : S1 : F : 1.00 : 80 K : N	
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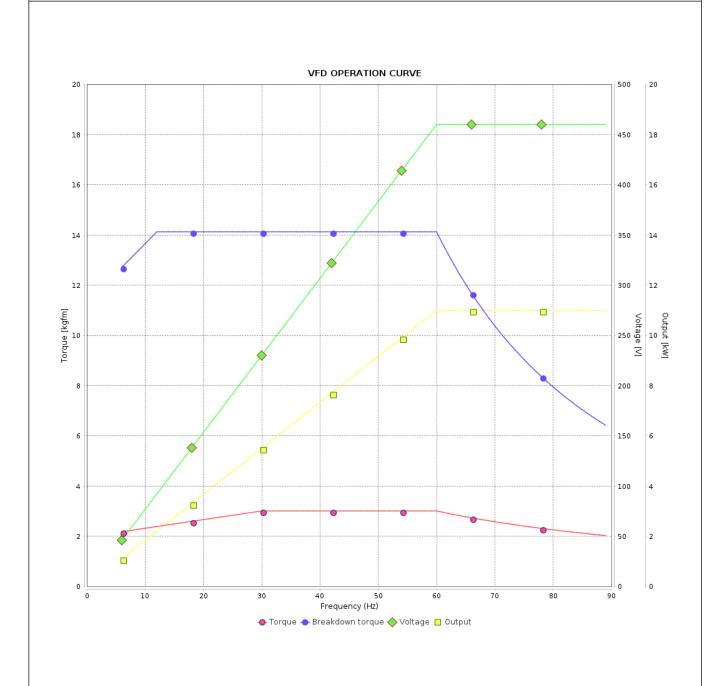
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Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line : W22 IE3 Three-Phase Product code : 12862392



Performance		: 460 V 60 Hz 2P					
Rated current LRC		: 19.0 A : 9.7		Moment of inertia (J) Duty cycle		: 0.0482 kgm² : S1	
Rated torque Locked rotor torq	: 3.	01 kgfm Insulation class Service factor		: F : 1.00			
Breakdown torqu	e : 47	70 % Temperature rise		: 80 K : N			
Rated speed : 3565 rpm Rev. Changes Summary			Design	Performed		Date	
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