

Softstart

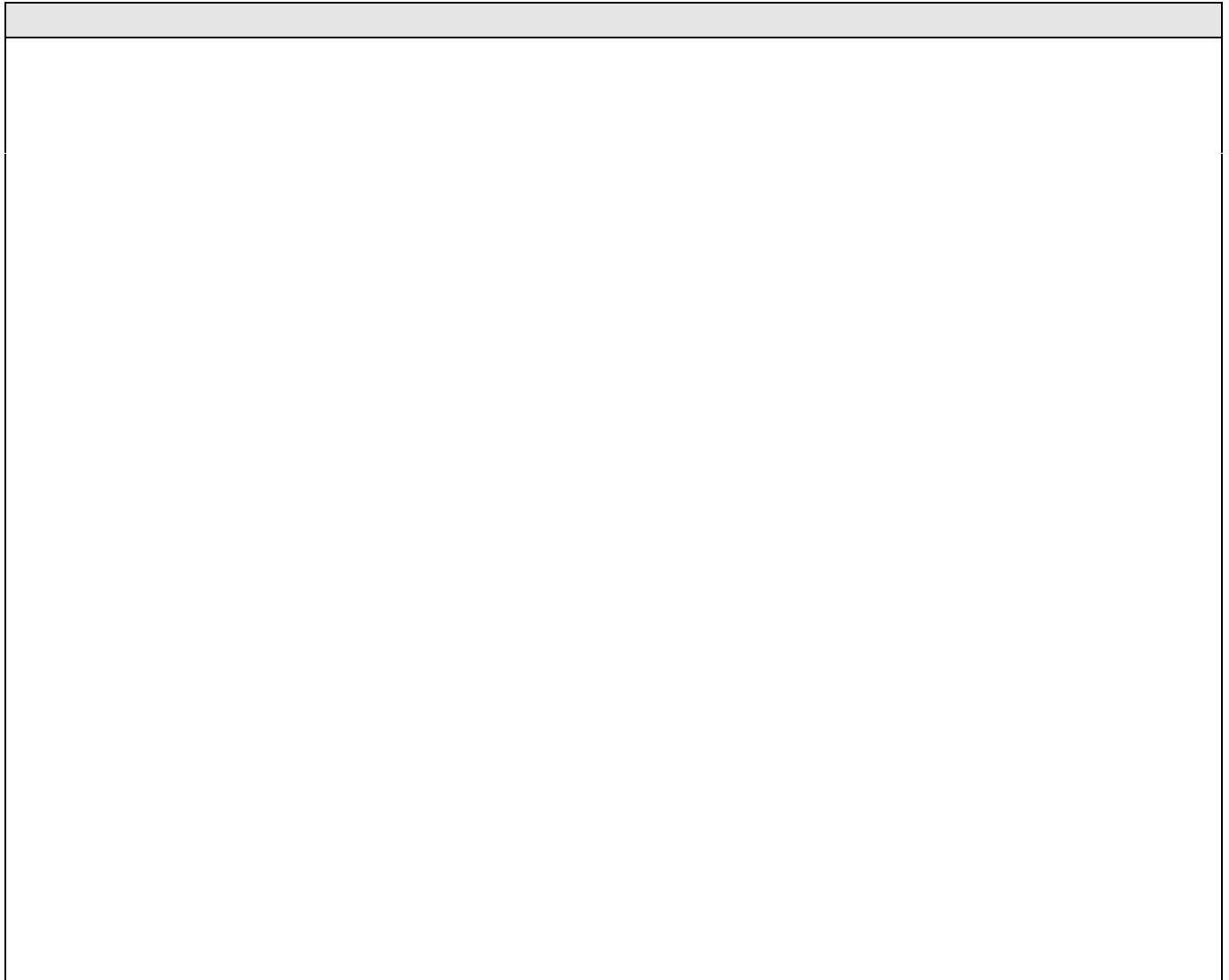
Diagram for softstarters

PS A18...60

PS D75...840

PS DH30...720

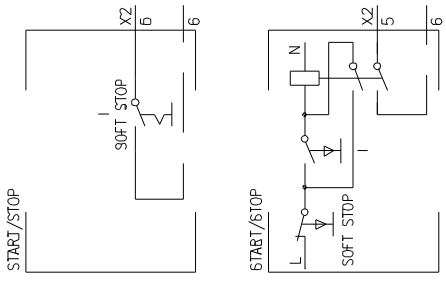
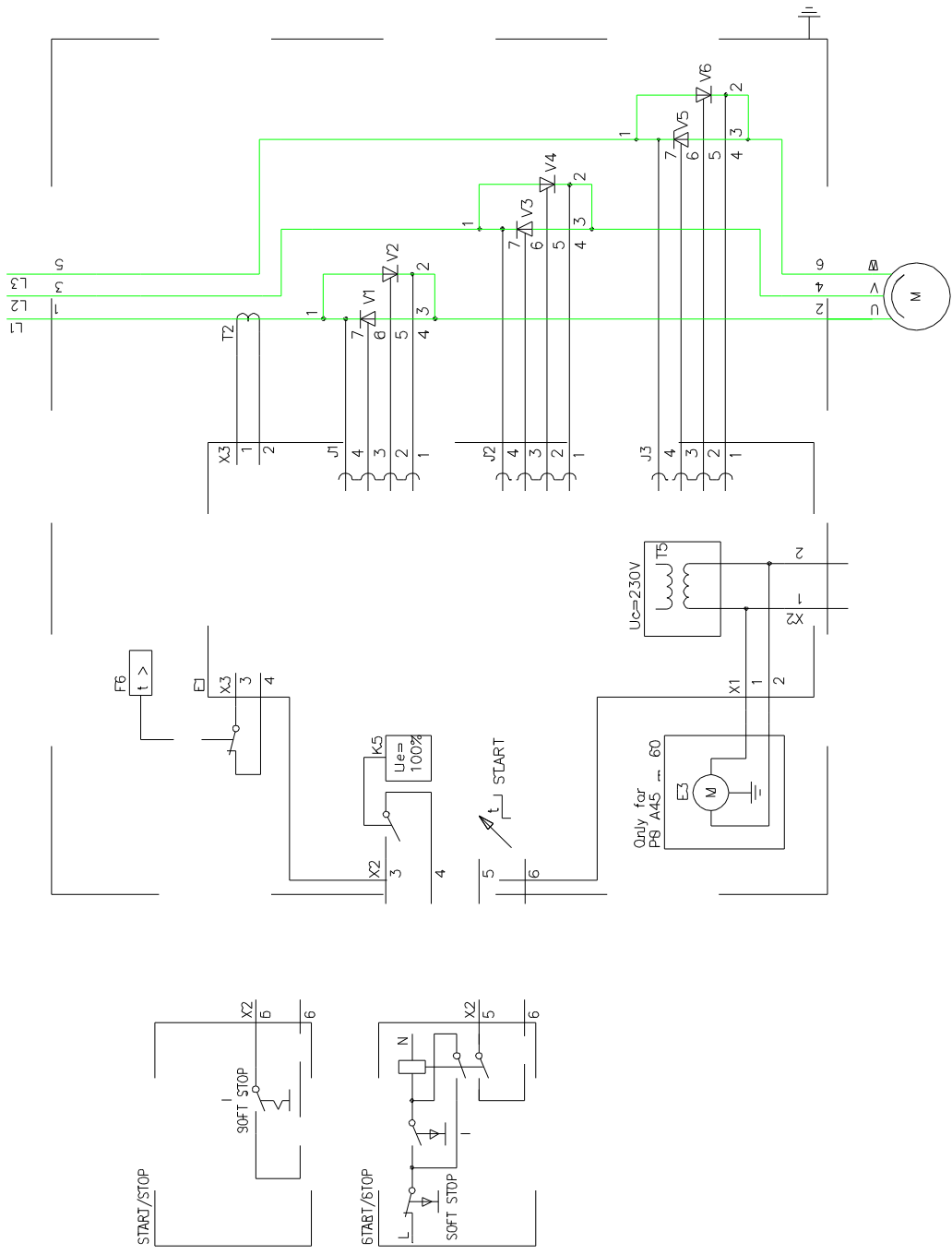
5309 698-1 Edition 4 Dec-01 (English)



STANDARD DIAGRAM

5366 104-1	PS A18...60	Standard.
5366 104-2	PS D75...840	Standard.
5366 104-3	PS D75...840	Standard.
	PS DH30...720	

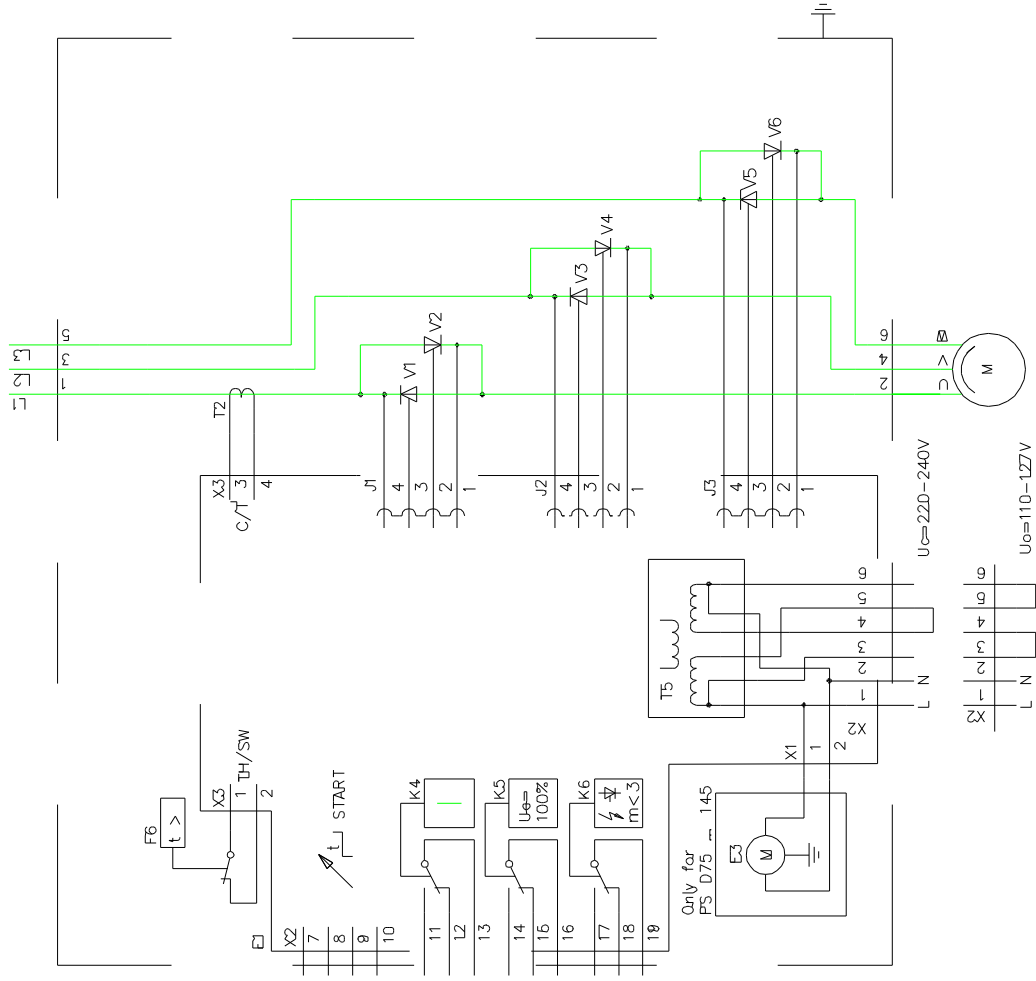
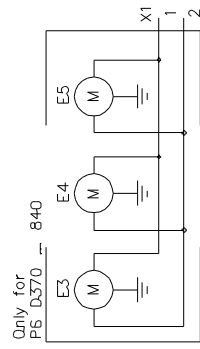
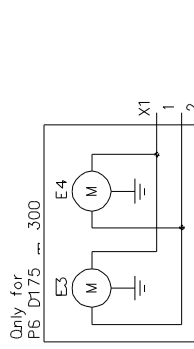
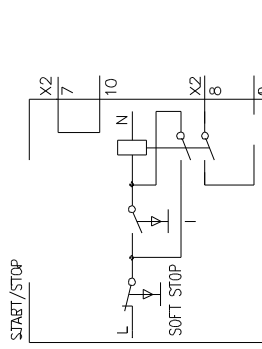
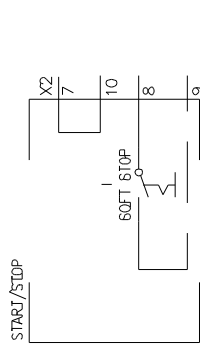
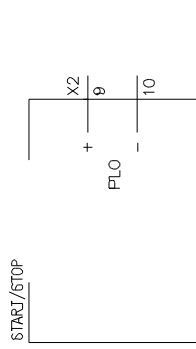
Soft Starter PS A18...60 standard diagram.



S104-1

Circuit diagram SOFT STARTERS Mjukstartare		SCORL/B0 Ø2 4Ø	ISSUED
T PERSSON	T PERSSON		
T PERSSON	TP		
4	Adjusted	TP 95 07	Year Week
Rev. int.			
82	5366 104-1	4	1
4			-

Soft Starter PS D75...840 standard diagram.



- E1 - E3 - E5 - E6
- F6 - E3
- J1 - J3
- K4 - J5
- K5
- K6
- T2
- T5
- V1 - V6
- X1 - X3

- Circuit board
- Fan
- Temperature monitor
- Contact blocks
- Relay, actuated in operational position
- Relay, actuated at full voltage (Ue=100%)
- Relay, fault signal
- Current transformer
- Control transformer
- Thyristor
- Terminal block

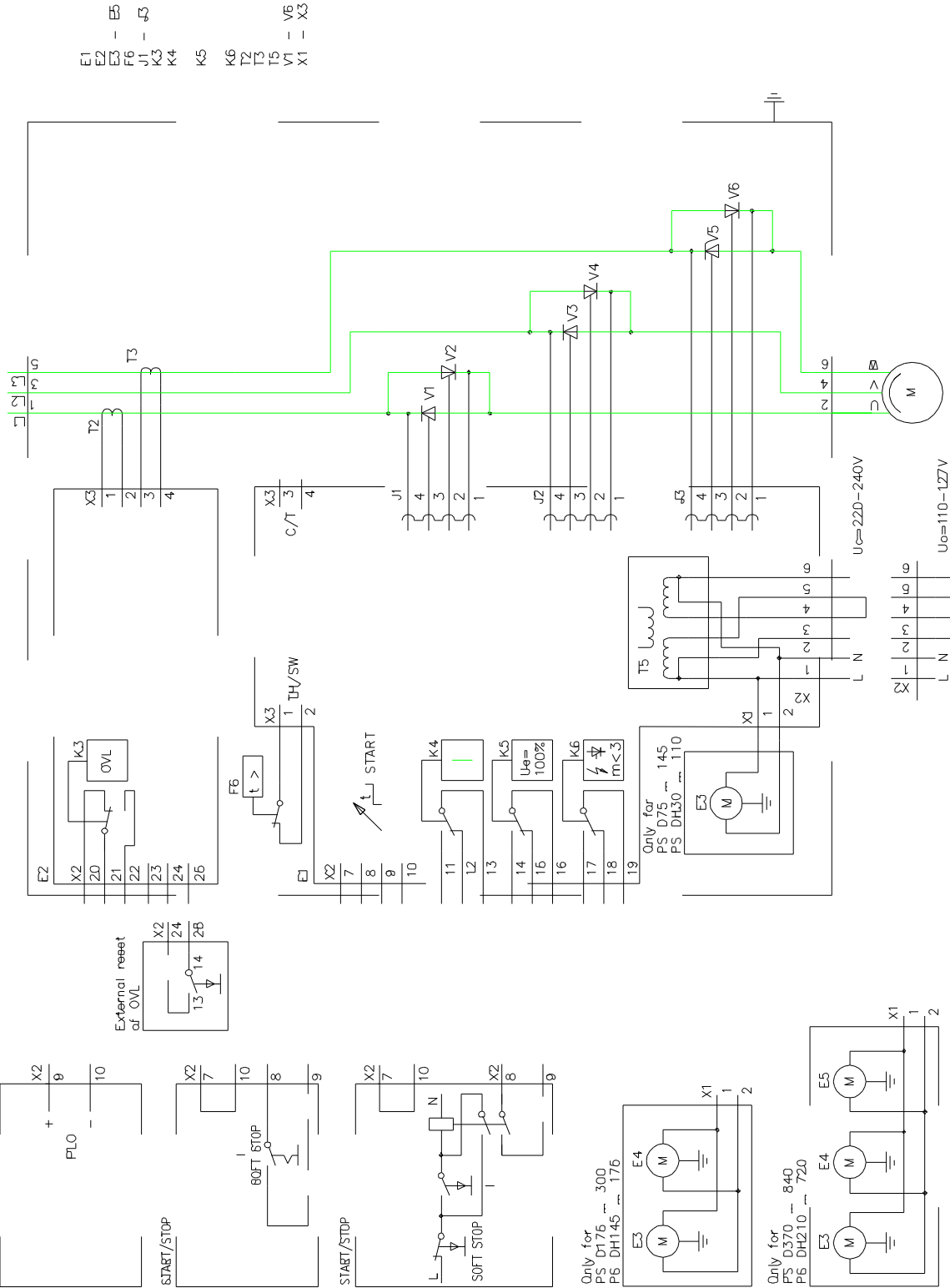
4	Approved	TP	95	07	Year	Week
	Rev. int.	Appl.	Year	Week		

ISSUED	ABB Control	Rev. No. (Proj. / Rev. No.)	92 / 14
	ABB	Rev. No. (Sheet) / Total	82 / 4

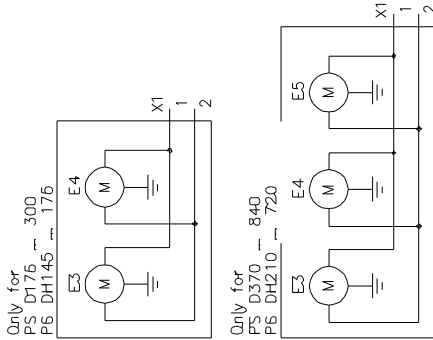
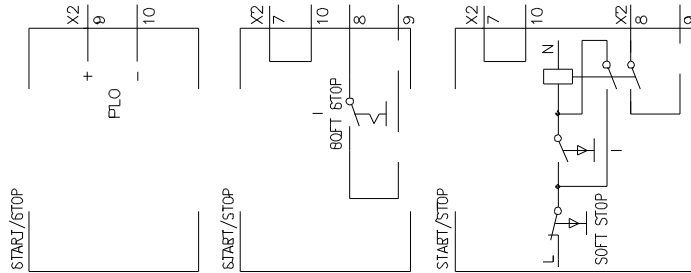
5366	104-2	Rev. No. (Sheet) / Total	82 / 4
		Rev. No. (Sheet) / Total	82 / 4

ST04-2

Soft Starter PS D75...840, PS DH30...720 standard diagram.



- E1 - ES
 - E2 - EB
 - F6 - FS
 - J1 - JS
 - K4
 - K5
 - K6
 - T2
 - T3
 - T5
 - V1 - V6
 - X1 - X3
- Circuit board
Circuit board OVL
Fus
Temperature monitor
Contact blocks
Relay, overload
Relay, actuated in operational position
Relay, actuated at full voltage (Ue=100%)
Relay, fault signal
Current transformer
Current transformer
Control transformer
Thyristor
Terminals block

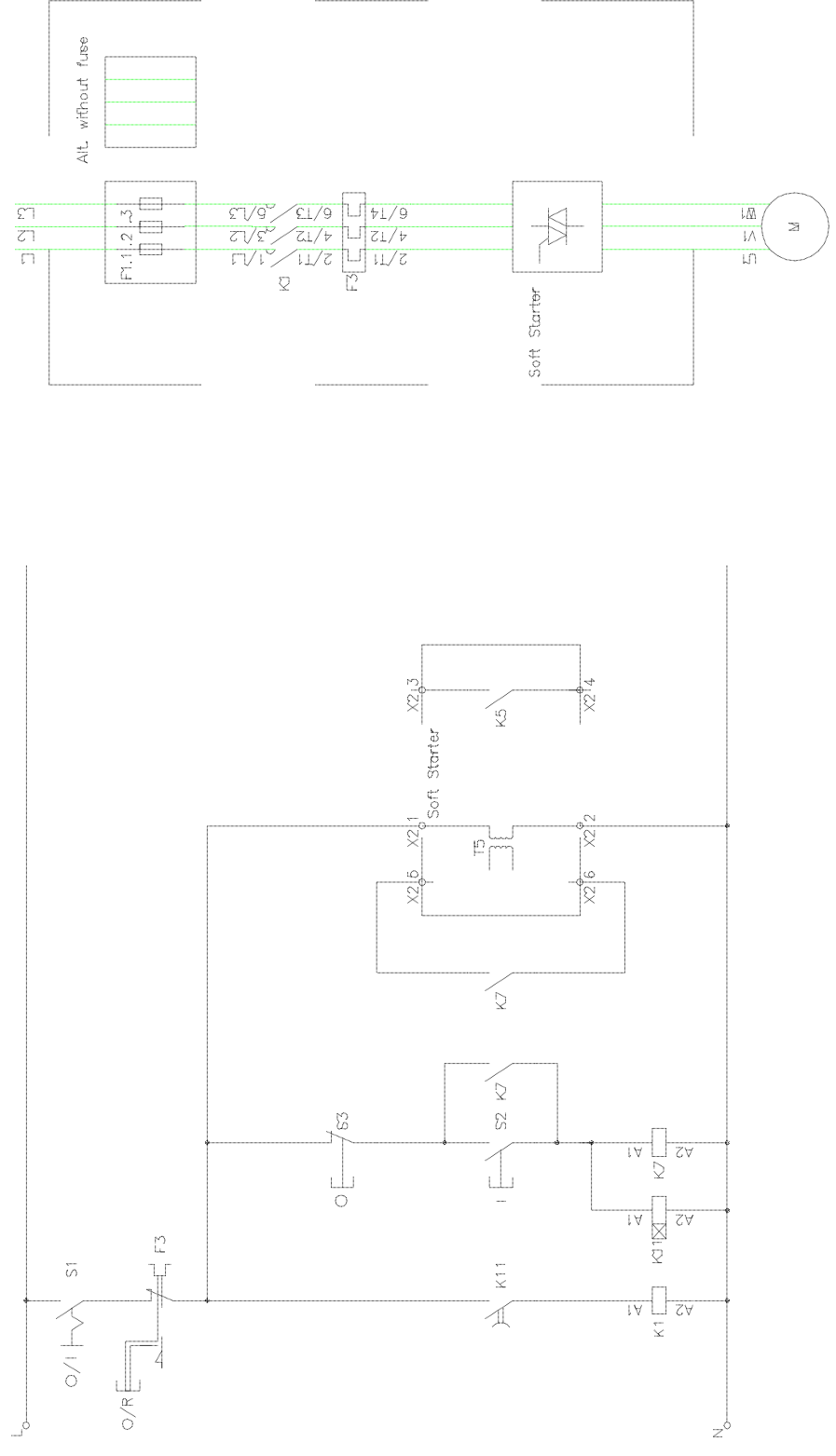


APPLICATION DIAGRAM

5366 105-1	PS A18...60	With motor protection and softstop.
5366 105-2	PS D75...300	With motor protection and softstop.
5366 105-3	PS D370...840	With motor protection and softstop.
5366 105-4	PS D75...300	With motor protection and softstop.
	PS DH30...250	
5366 105-5	PS D370...840	With motor protection and softstop.
	PS DH300...720	
5366 105-6	PS A18...60	With softstop and By-pass.
5366 105-7	PS D75...300	With softstop and By-pass.
5366 105-8	PS D370...840	With softstop and By-pass.
5366 105-9	PS D75...145	With softstop and By-pass.
	PS DH30...110	
5366 105-10	PS D175...300	With softstop and By-pass.
	PS DH145...250	The internal overload relay is working also together with By-pass.
5366 105-11	PS D370...840	With softstop and By-pass.
	PS DH300...720	The internal overload relay is working also together with By-pass.
5366 105-12	PS A18...60	With motor protection, softstop and By-pass.
5366 105-13	PS D75...300	With motor protection, softstop and By-pass.
5366 105-14	PS D370...840	With motor protection, softstop and By-pass.
5366 105-15	PS D75...145	With motor protection, softstop and By-pass.
	PS DH30...110	
5366 105-16	PS D175...300	With motor protection, softstop and By-pass.
	PS DH145...250	The internal overload relay is working also together with By-pass.
5366 105-17	PS D370...840	With motor protection, softstop and By-pass.
	PS DH300...720	The internal overload relay is working also together with By-pass.
5366 105-18	PS A18...60	With reversing and softstop.
5366 105-19	PS D75...300	With reversing and softstop.
5366 105-20	PS D370...840	With reversing and softstop.
5366 105-21	PS D75...840	With reversing and softstop.
	PS DH30...720	
5366 105-22	PS A18...60	With reversing, By-pass and softstop.
5366 105-23	PS D75...300	With reversing, By-pass and softstop.
5366 105-24	PS D370...840	With reversing, By-pass and softstop.
5366 105-25	PS D75...145	With reversing, By-pass and softstop.
	PS DH30...110	
5366 105-26	PS D175...300	With reversing, By-pass and softstop.
	PS DH145...250	The internal overload relay is working also together with By-pass.
5366 105-27	PS D370...840	With reversing, By-pass and softstop.
	PS DH300...720	The internal overload relay is working also together with By-pass.

5366 105-28	PS A18...60	With pole-changing and softstop. For motor with two winding.
5366 105-29	PS D75...300	With pole-changing and softstop. For motor with two winding.
5366 105-30	PS D370...840	With pole-changing and softstop. For motor with two winding.
5366 105-31	PS A18...60	With pole-changing, By-pass and softstop. For motor with two winding.
5366 105-32	PS D75...300	With pole-changing, By-pass and softstop. For motor with two winding.
5366 105-33	PS D370...840	With pole-changing, By-pass and softstop. For motor with two winding.
5366 105-34	PS A18...60	With pole-changing and softstop.
5366 105-35	PS D75...300	For motor with one winding (Dallander). With pole-changing and softstop.
5366 105-36	PS D370...840	For motor with one winding (Dallander). With pole-changing and softstop.
5366 105-37	PS A18...60	For motor with one winding (Dallander). With pole-changing, By-pass and softstop.
5366 105-38	PS D75...300	For motor with one winding (Dallander). With pole-changing, By-pass and softstop.
5366 105-39	PS D370...840	For motor with one winding (Dallander). With pole-changing, By-pass and softstop.

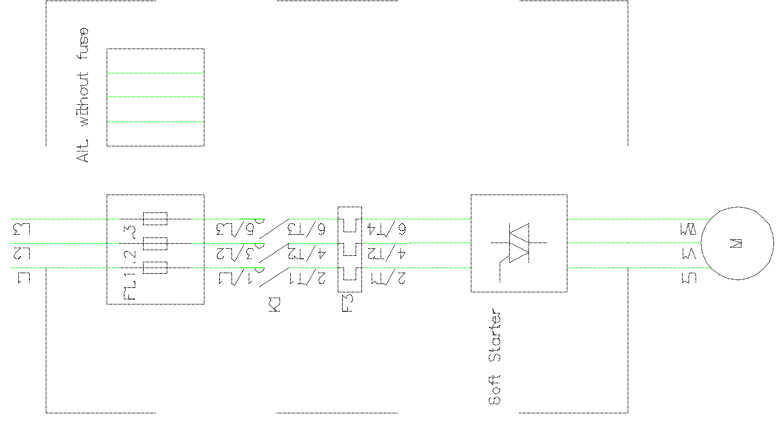
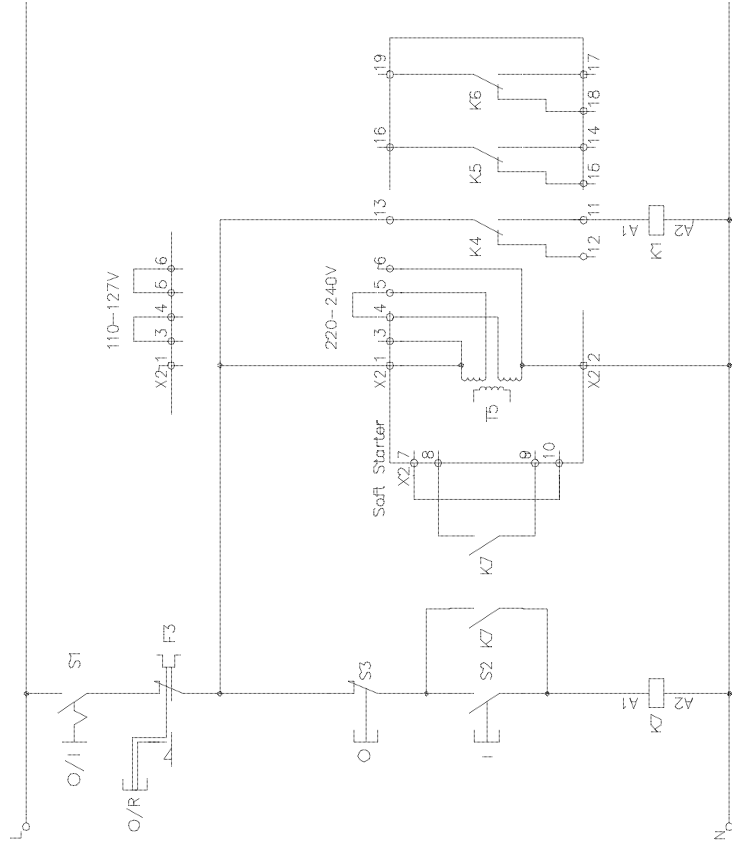
Soft Starter PS A18...60 with motor protection and softstop.
 Main contactor open during pause



A105-1

APPLICATION DIAGRAM		ISSUED	
Soft Starter		82	
Mjukstare		5366 105-1	
T Persson		SECUR/B00 B6 B5	
T Persson		1	
TP		1	
TP: 06 40		1	
App: Yarr		1	
Risk		1	
1 K11 Insert and fuse moved		1	
Rev: int		1	

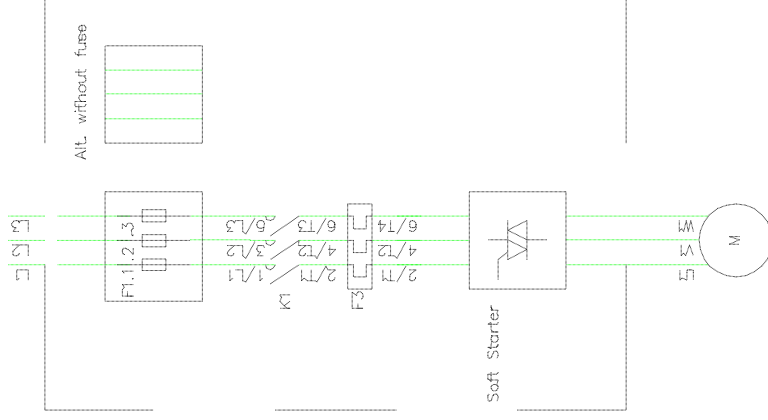
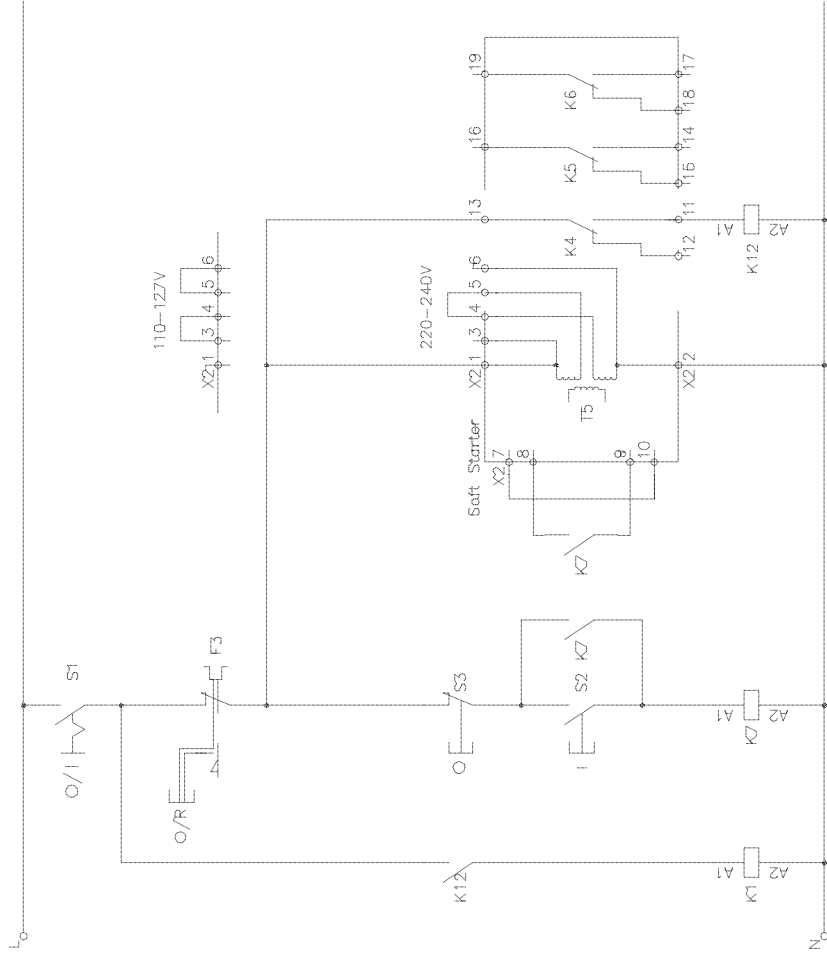
Soft Starter PS D75...300 with motor protection and softstop.
 Main contactor open during pause



A105-2

Rev. no.		Sheet	
1		1	
K1 and fuses moved		5366 105-2	
App. Year		ISSUED	
TP: 06 40		des. by: Dipt. Year: 05	
App. Year		SECUR/BQ	
App. Year		ABB Control	
App. Year		APPLICATION DIAGRAM	
App. Year		Soft Starter	
App. Year		Mpakstare	

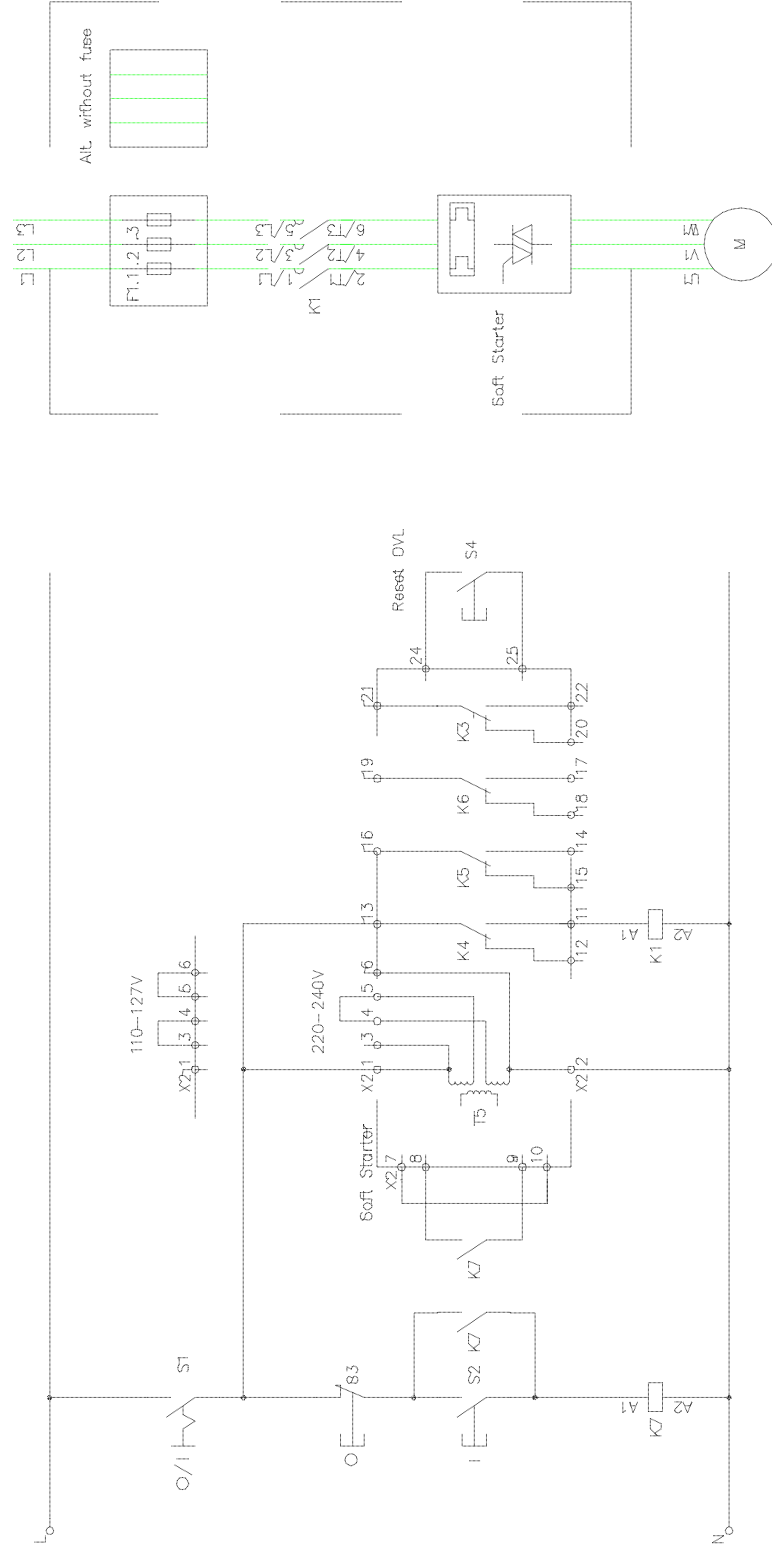
Soft Starter PS D370...840 with motor protection and softstop.
 Main contactor onen during pause



AI05-3

5366 105-3		82	1
ISSUED		1	...
SECUR/B00 B05			
APPLICATION DIAGRAM			
Soft Starter			
Mjakstartare			
T Perissoc			
T Perissoc			
TP			
Rev: int		TP: 06	40
		App: int	Rev: int

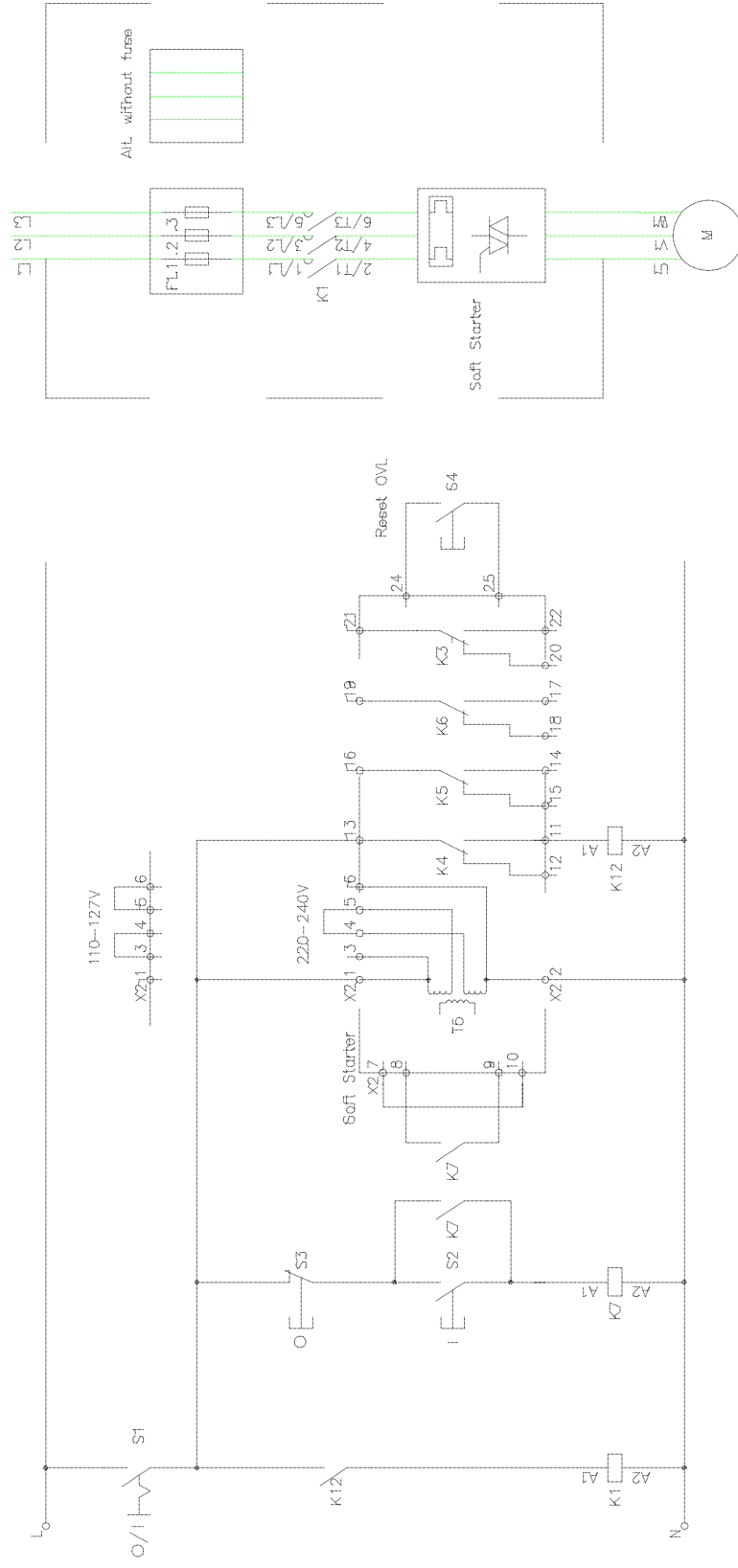
Soft Starter PS D75...300, PS DH30...250 with motor protection and softstop.
 Main contactor open during pause



AI05-4

		APPLICATION DIAGRAM		Rev. no. Sheet	
Design checked by T. Persson		Soft Starter		Long Sheet	
Drawing checked by T. Persson		Mikstarkare		Rev. no. Cont.	
Drawn by TP		ABB Control		2	
		Issued by Dept. Secur./BQ		2	
		Year Week		...	
		06 09			
		App. Year Week			
		06 05			
		ISSUED			
		5366 105-4			

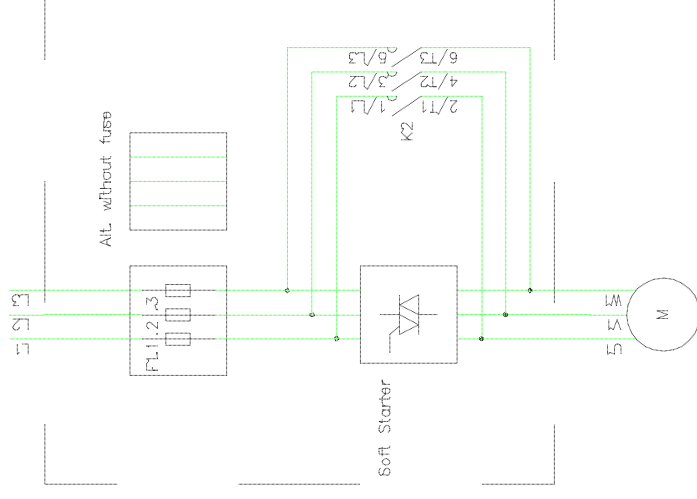
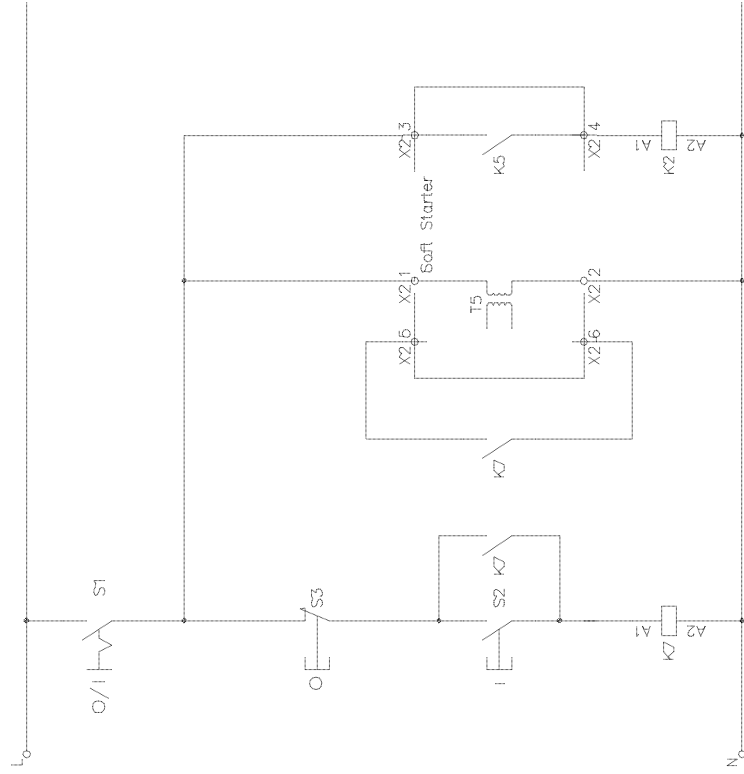
Soft Starter PS D370...840, PS DH300...720 with motor protection and softstop.
 Main contactor open during pause



A105-6

Rev. no		Date		Description		Issued	
2	K12 Insert and fuse moved	TP	06	40			
1	Adjusted	TP	06	09			
		Appd	Yarr	Week			
Design checked by		I. Persson		APPLICATION DIAGRAM			
Drawing checked by		I. Persson		Soft Starter			
Drawn by		TP		Mjukstare			
Issued by		TP		ABB ABB Control			
Issued by Dept.		SECUR/80		Year		05	
Issued by Week		05		Year		05	
Long Rev. no		82		Sheet		1	
Long Rev. no		2		Cont.		...	
5366		105-5		ISSUED			

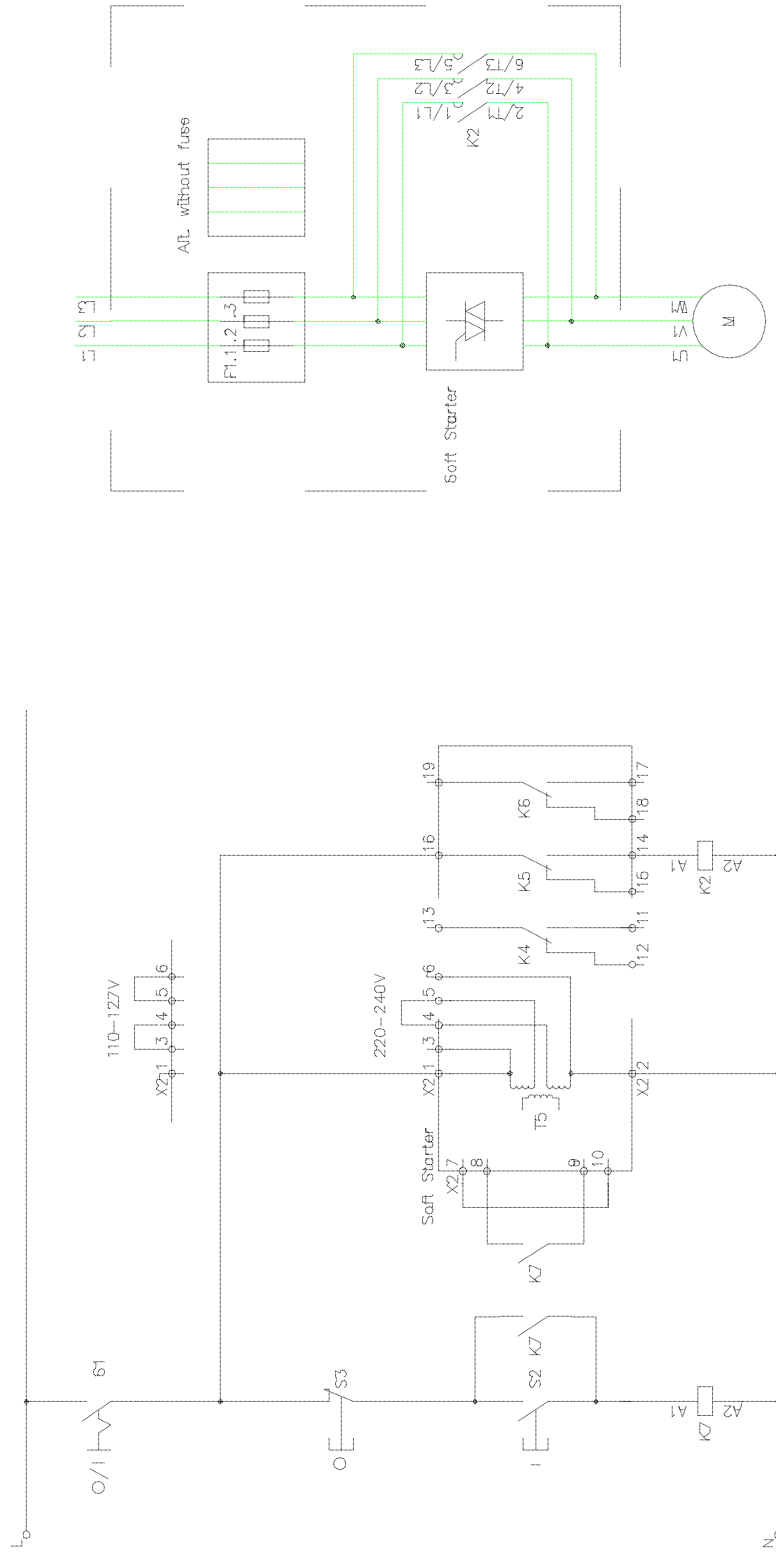
Soft Starter PS A18...60 with softstop and By-pass.



A105-6

APPLICATION DIAGRAM		SECUR/80 06 05		ISSUED	
Soft Starter		Mjuketartare		5366 105-6	
I Perissoa		I Perissoa		82	
I Perissoa		TP		1	
TP		Appd		1	
1 Fuses moved		86 40		...	
Rev int		Xor		10x6	

Soft Starter PS D75...300 with softstop and By-pass.

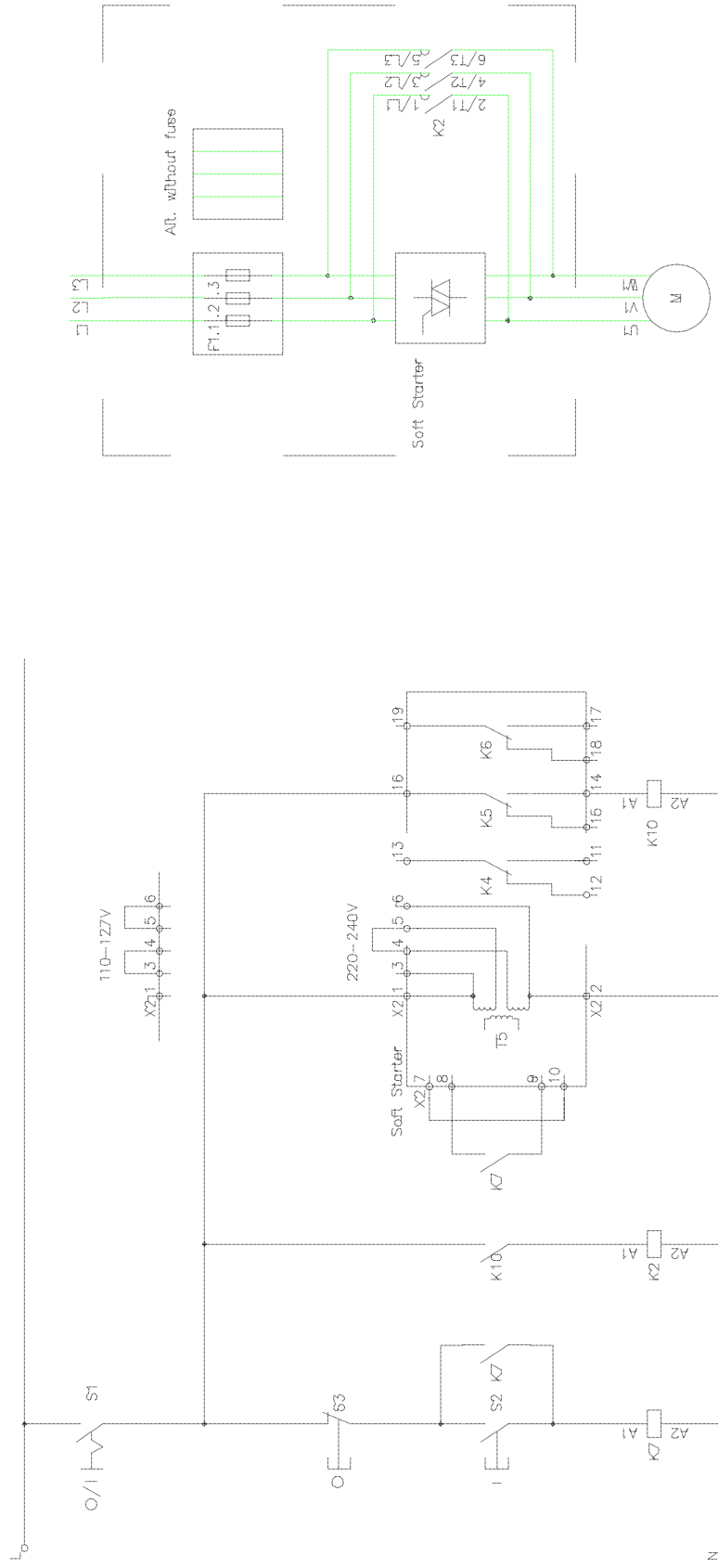


A105-7

APPLICATION DIAGRAM		SECUR/80 06 05	
Soft Starter		ISSUED	
Mjpkstartare		1	
I Pensjon		82	
I Pensjon		1	
TP		...	
1 Fuses moved			
TP 86 40			
Rev int		Xor Work	

5366 105-7

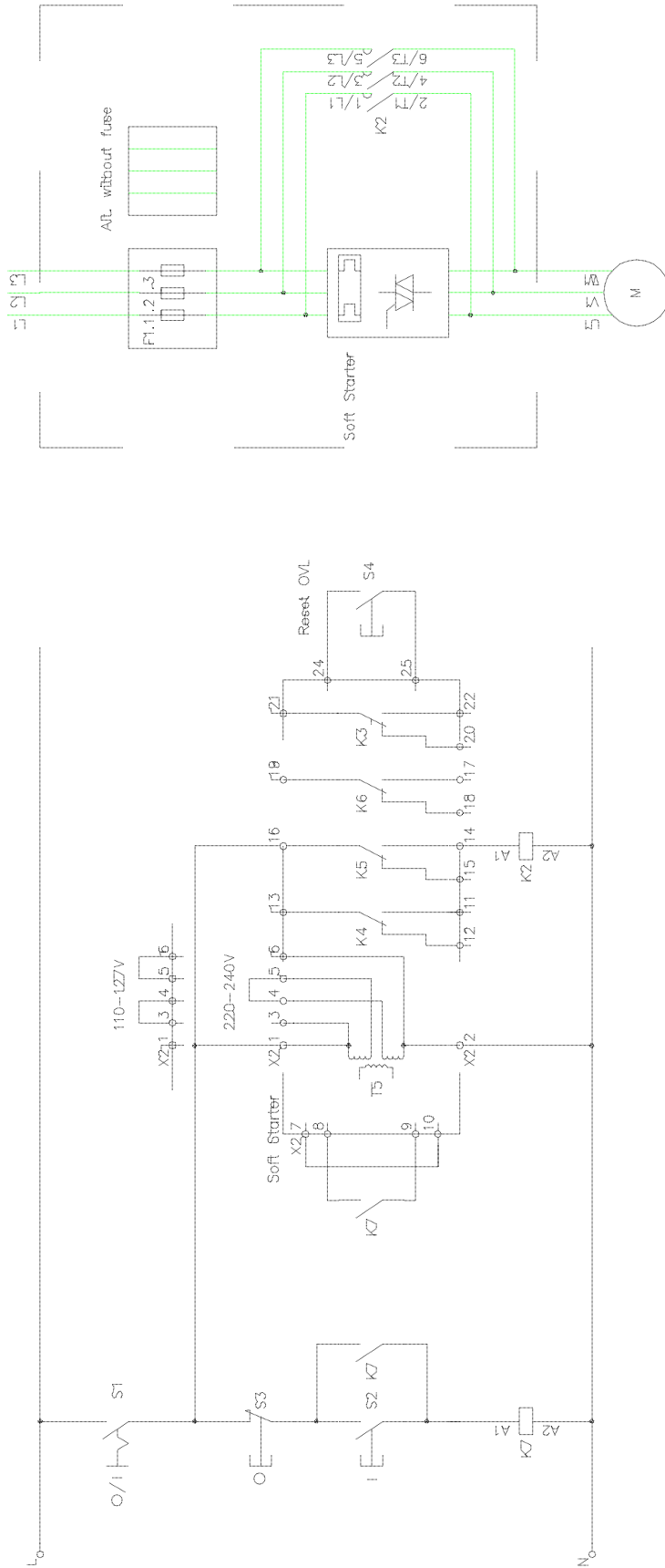
Soft Starter PS D370...840 with softstop and By-pass.



A105-8

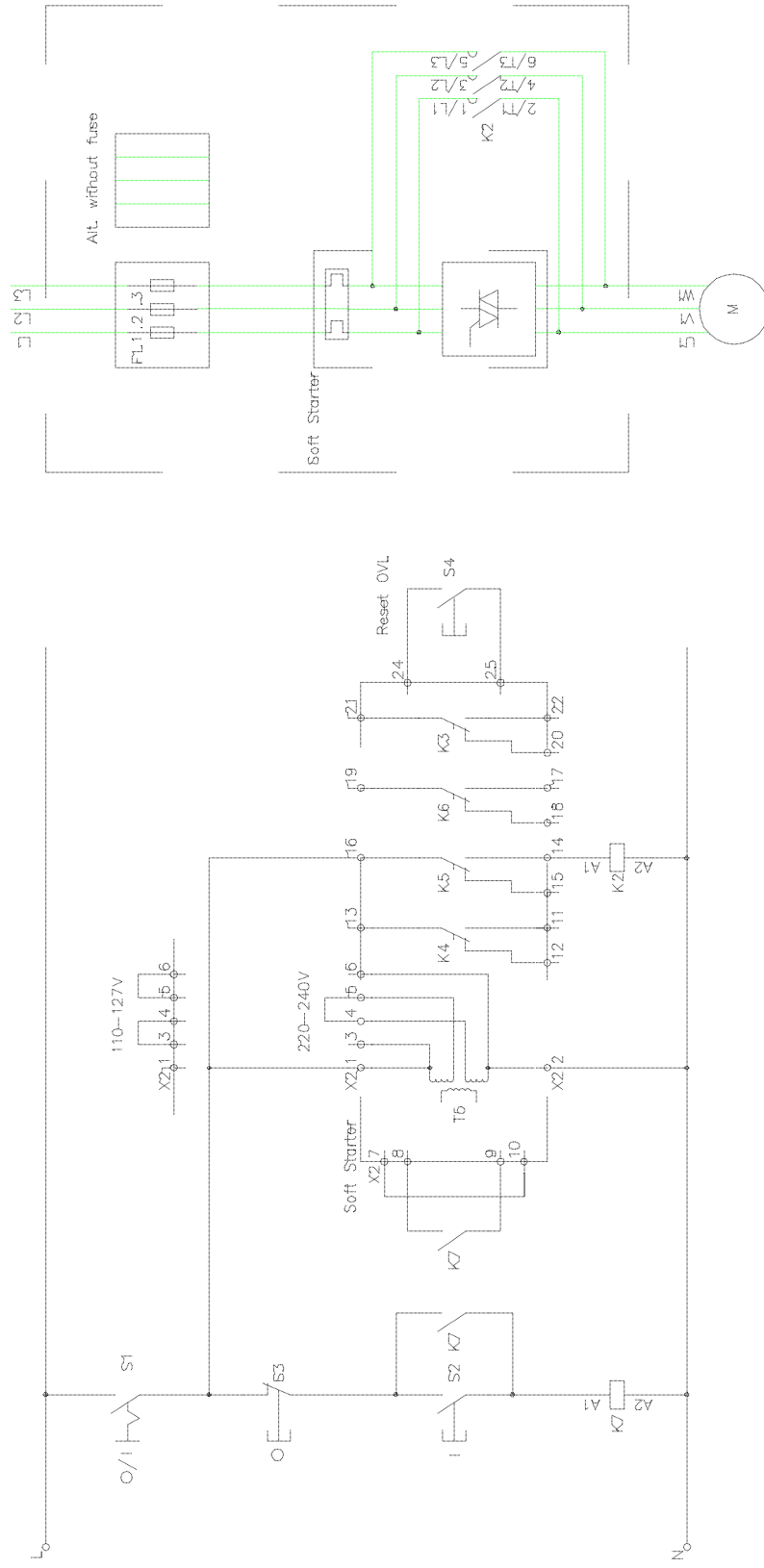
Rev. no	1	Fuses moved	TP	86	40	Appd	Yor	Issued	1	---
	TP	86	40							
APPLICATION DIAGRAM			Soft Starter		Mjakstartare		SECUR/80 86 05		5366 105-8	
I Perisson			I Perisson		TP					

Soft Starter PS D75...145, PS DH30...110 with softstop and By-pass.



Rev. no.		Date		By		Issued		5366 105-9		A105-9	
2	Fuses moved	TP	86	40	Application Diagram		Soft Starter		Rev. no.		1
1	Adjusted	TP	86	08	Soft Starter		Mikrotartare		Long		82
		Appd.	Year	Week	ABB Control		ABB		Rev. no.		2
Design checked by		I. Pefssod		Checked by		I. Pefssod		Drawn by		TP	
Drawing checked by		I. Pefssod		Checked by		I. Pefssod		Drawn by		TP	
Rev. no.		Date		By		Issued		5366 105-9		A105-9	
2	Fuses moved	TP	86	40	Application Diagram		Soft Starter		Rev. no.		1
1	Adjusted	TP	86	08	Soft Starter		Mikrotartare		Long		82
		Appd.	Year	Week	ABB Control		ABB		Rev. no.		2
Design checked by		I. Pefssod		Checked by		I. Pefssod		Drawn by		TP	
Drawing checked by		I. Pefssod		Checked by		I. Pefssod		Drawn by		TP	
Rev. no.		Date		By		Issued		5366 105-9		A105-9	

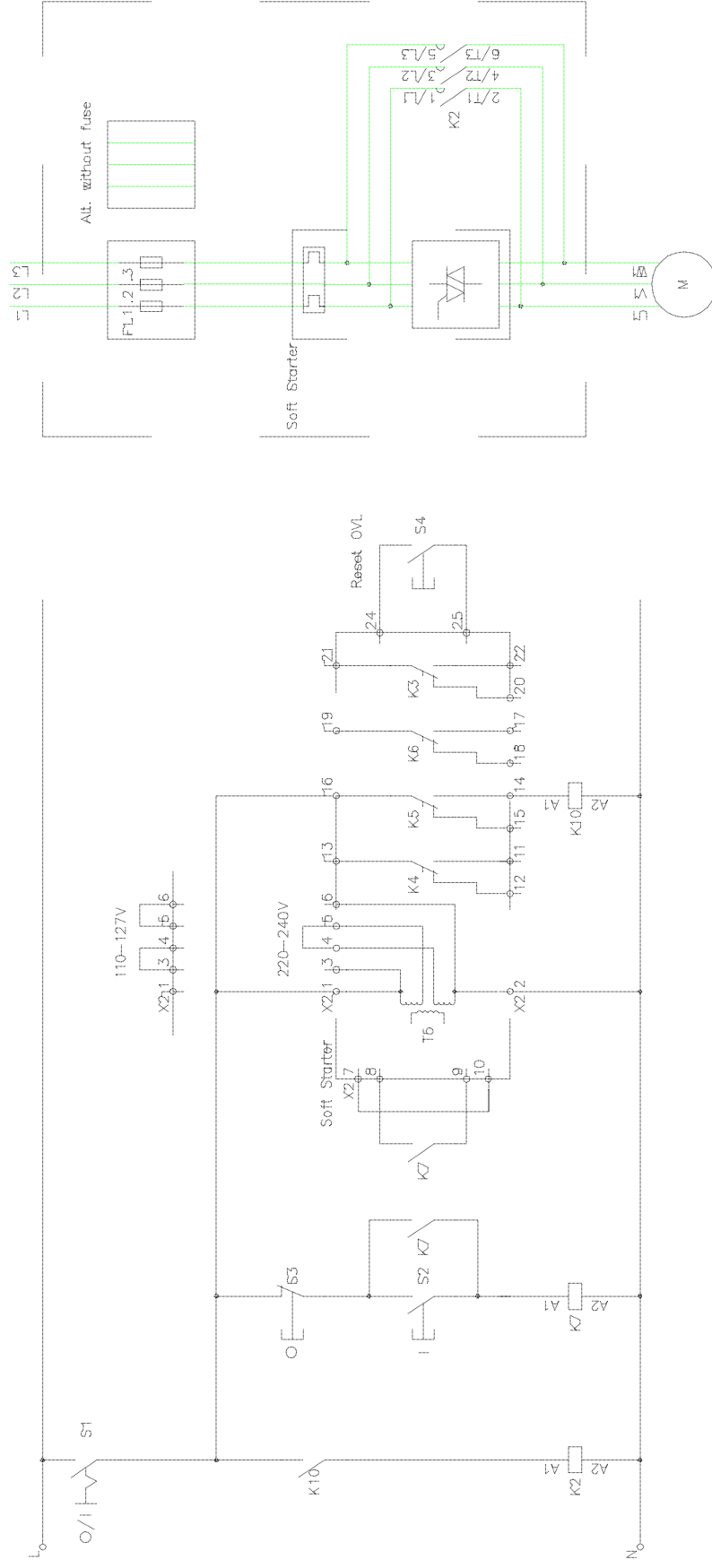
Soft Starter PS D175...300, PS DH145...250 with softstop and By-pass.
 The internal overload relay is working also together with By-pass.



A105-10

I Persson		APPLICATION DIAGRAM		82		1	
I Persson		Soft Starter		5366 105-10		2	
IP		Mjukstartare		ISSUED		...	
				SECUR/80 06 05			
2	KT0 removed	IP	06 40				
1	Adjusted	IP	06 09				
Rev int		Appl	Year	Week			

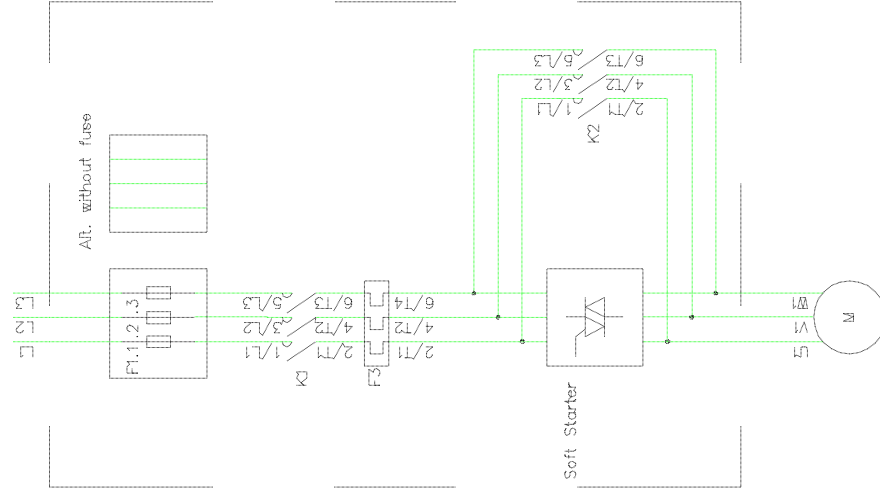
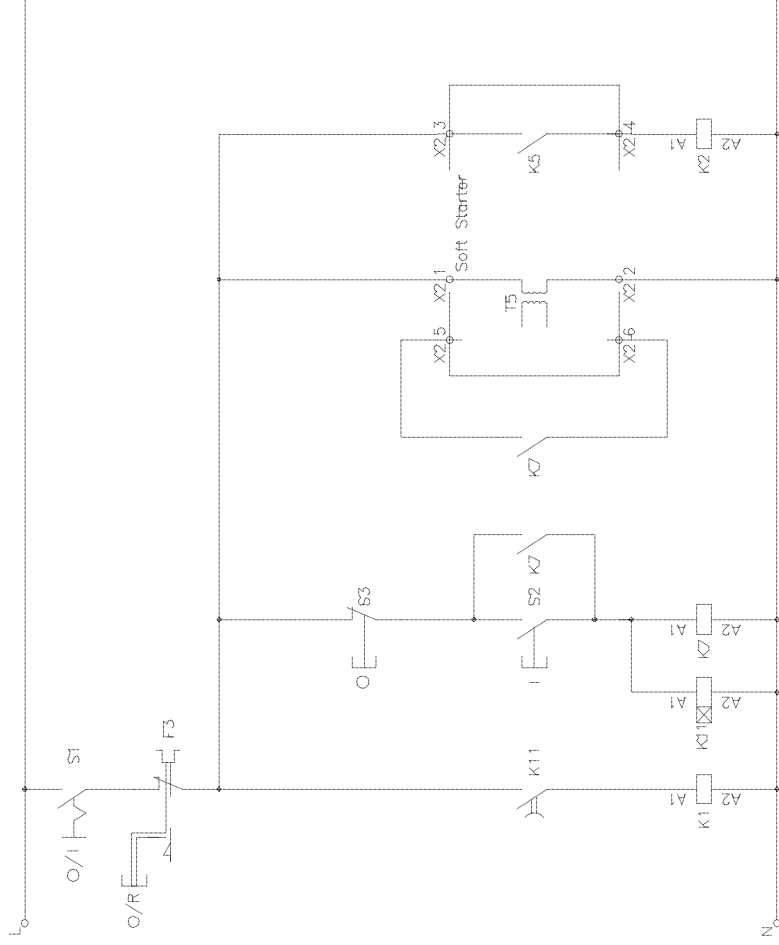
Soft Starter PS D370...840, PS DH300...720 with softstop and By-pass.
 The internal overload relay is working also together with By-pass.



A105-11

2		Revised	TP	86	40
1		Adjusted	TP	86	08
Rev. no.		Appl.	Year	Week	
Design checked by I. Persson Drawing checked by I. Persson Drawn by TP					
APPLICATION DIAGRAM Soft Starter Mjukstartare					
Issued by STC/80 05 05 Year Week					
ABB Control					
5366 105-11					
ISSUED					
Rev. no.	2	Rev. no.	1	Long	82
Rev. no.	1	Rev. no.	1	Sheet	1
Rev. no.	1	Rev. no.	1	Sheet	1

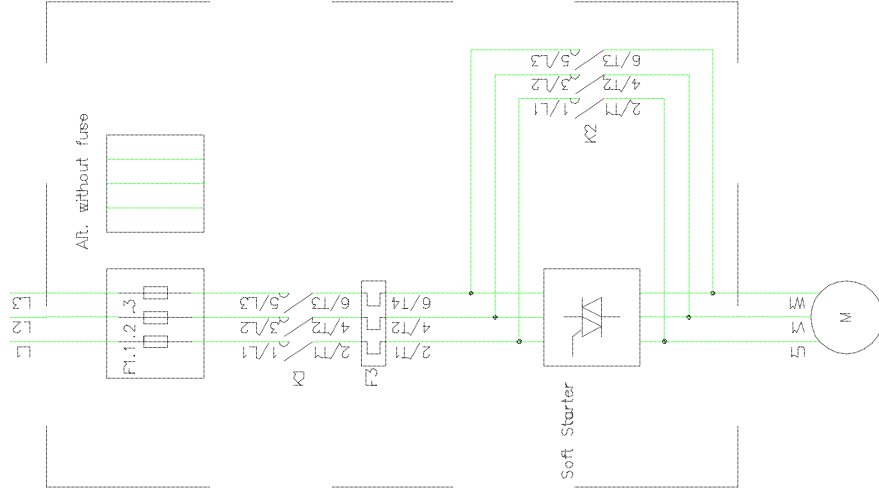
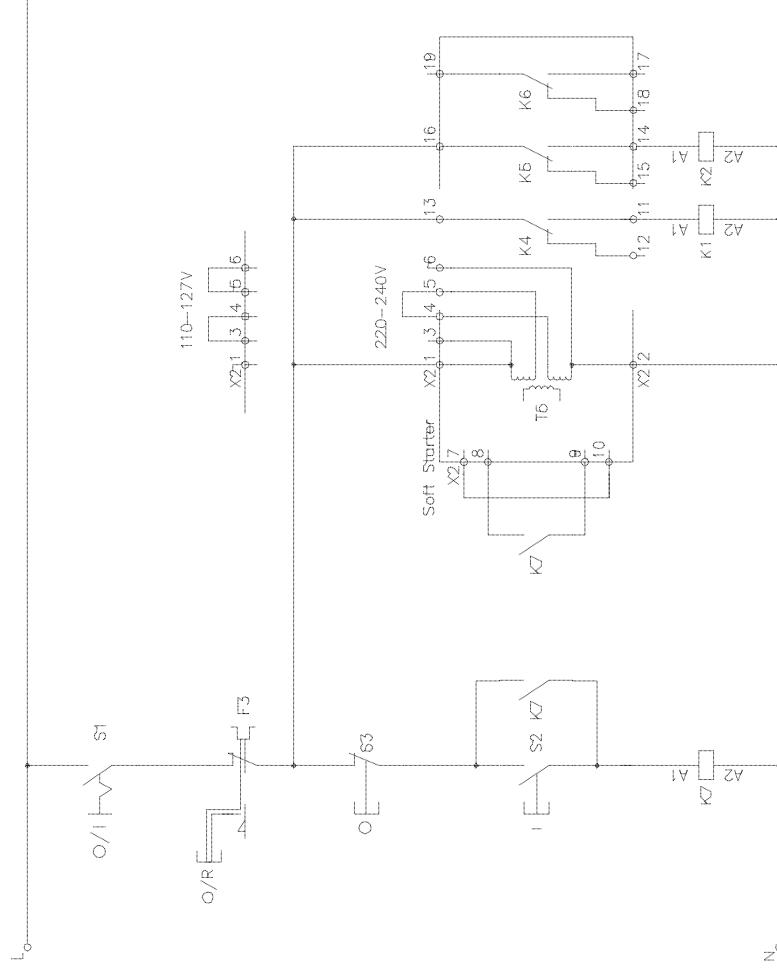
Soft Starter PS A18...60 with motor protection, softstop and By-pass.
 Main contactor open during pause



A105-12

Rev	Int	Sheet	Rev	Int	Sheet
1	Redrains	TP	86	40	1
5366	105-12	ISSUED	1	1	...
Design checked by I. Persson Drawing checked by I. Persson Drawn by TP			Application Diagram Soft Starter Mjukstartare		
Design checked by I. Persson Drawing checked by I. Persson Drawn by TP			Issued by STCRL/80 06 05 Year Week		
Design checked by I. Persson Drawing checked by I. Persson Drawn by TP			ABB Control		

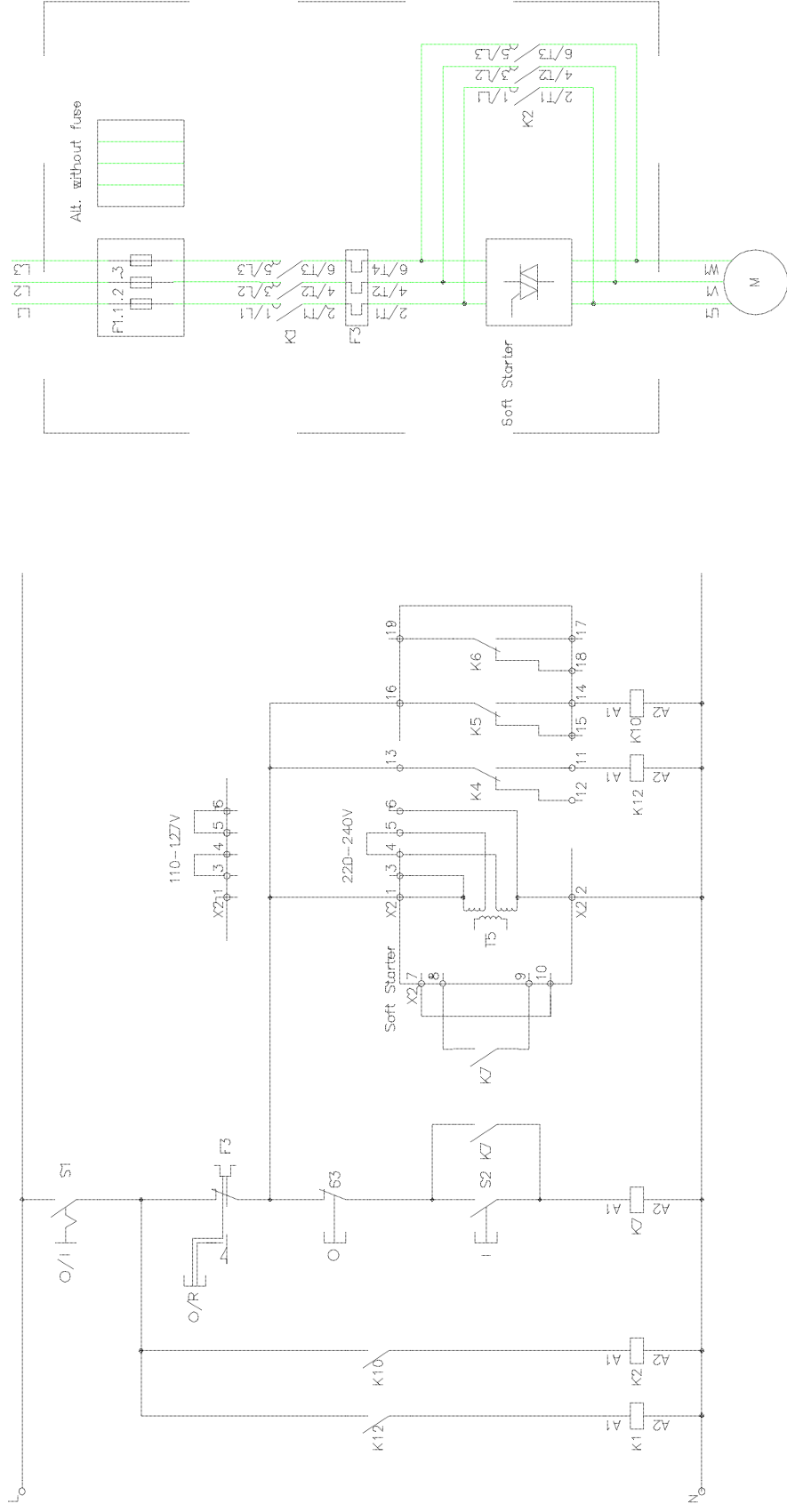
Soft Starter PS D75...300 with motor protection, softstart and By-pass.
 Main contactor open during pause



AJ05-13

I Persson		APPLICATION DIAGRAM		82		1	
I Persson		Soft Starter		5366 105-13		1	
TP		Mjukstartare		ISSUED		1	
1 K10 removed, K1, K2 and fuses moved		TP B6 40		SECUR/B06 05		---	
Rev int	Appd	Year	Week				

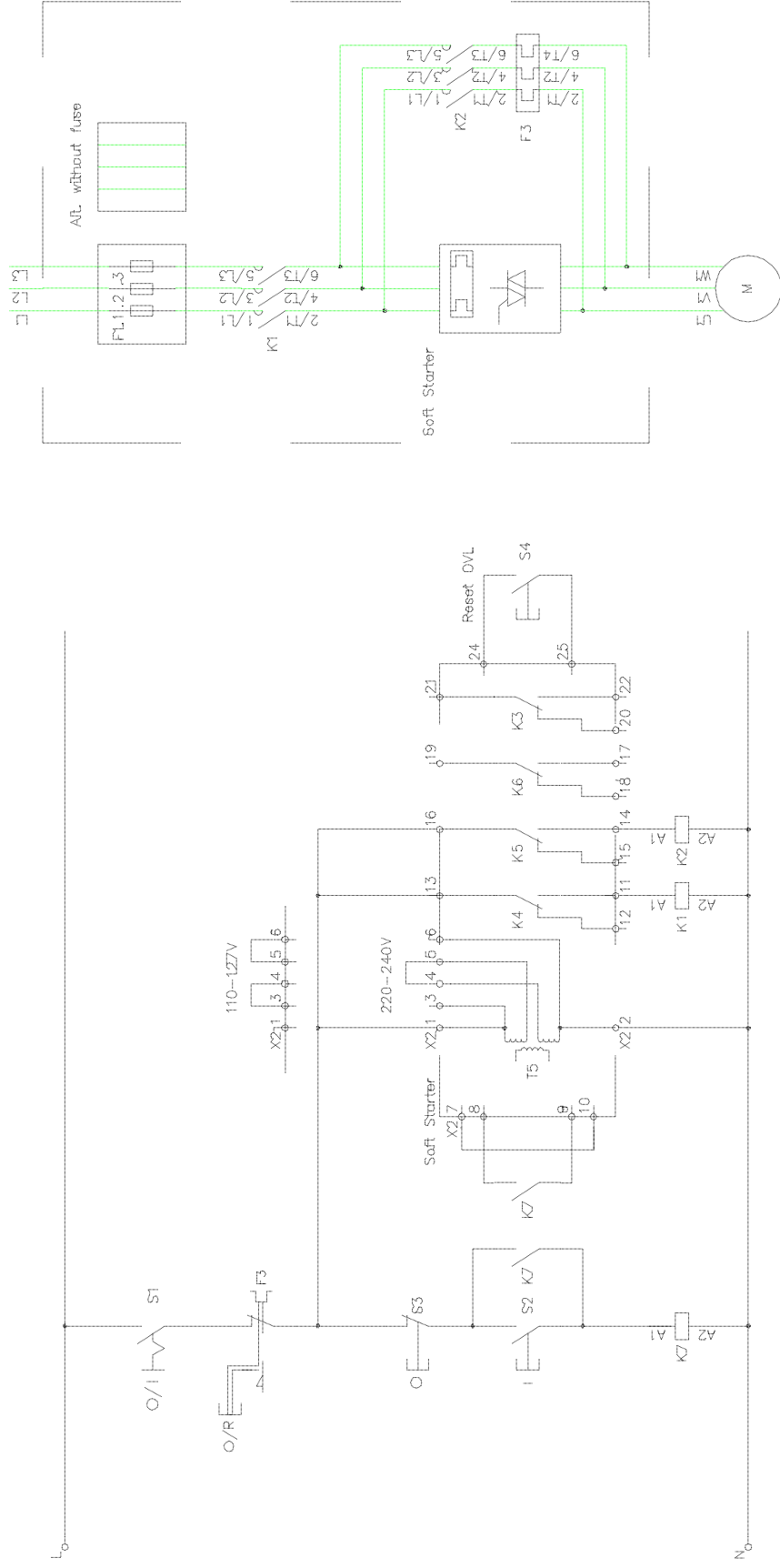
Soft Starter PS D370...840 with motor protection, softstop and By-pass.
 Main contactor open during pause



A105-14

Rev. no.		Appd.	Year	Issue	ISSUED	
1	K12 Insert, and fuses moved	TP	86	40	82	1
					5366 105-14	
					SECUR/80 86 05	
					APPLICATION DIAGRAM	
					Soft Starter	
					Mjpkstartare	
					T Pensson	
					T Pensson	
					TP	

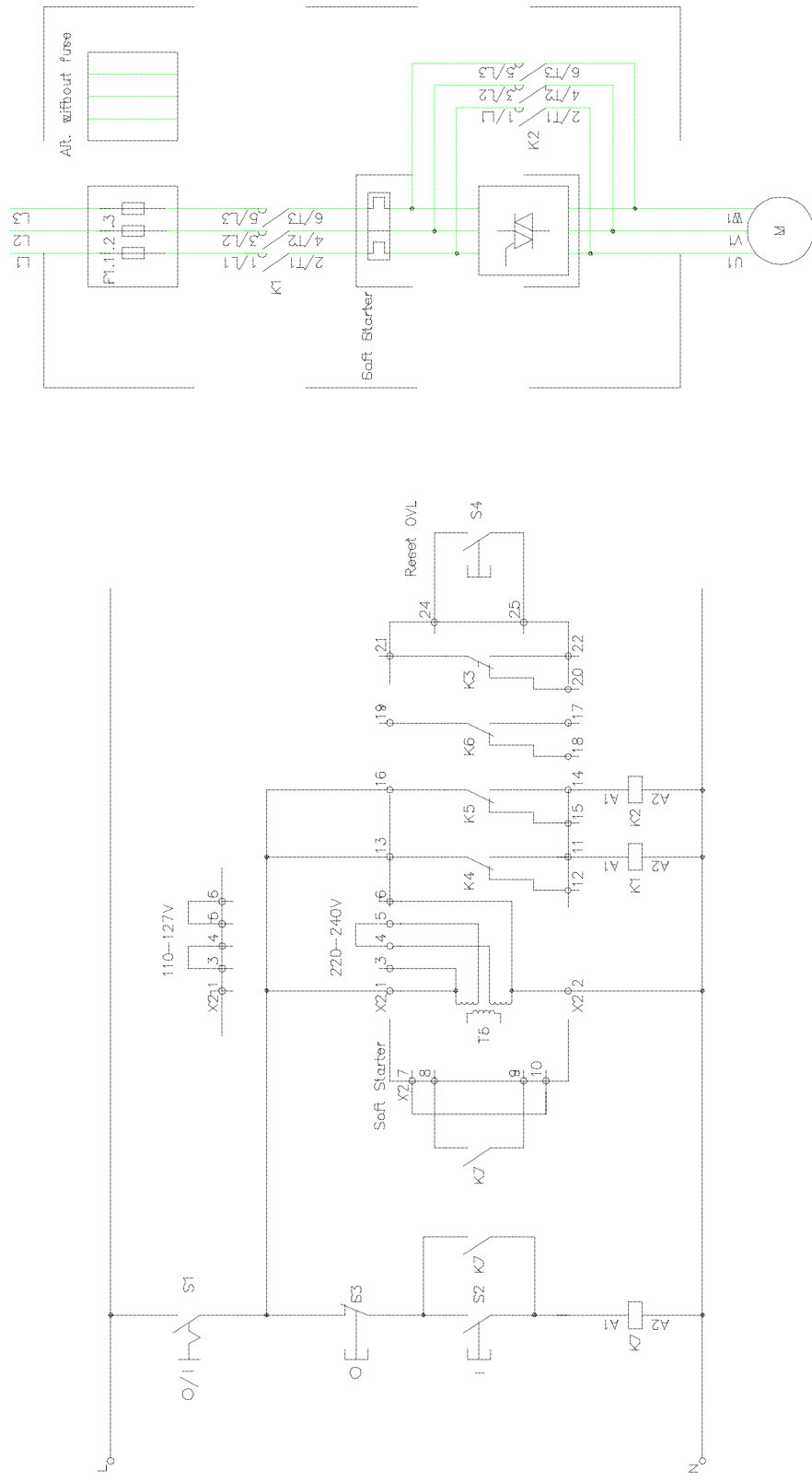
Soft Starter PS D75...145, PS DH30...110 with motor protection, softstop and By-pass.
 Main contactor open during pause



A105-15

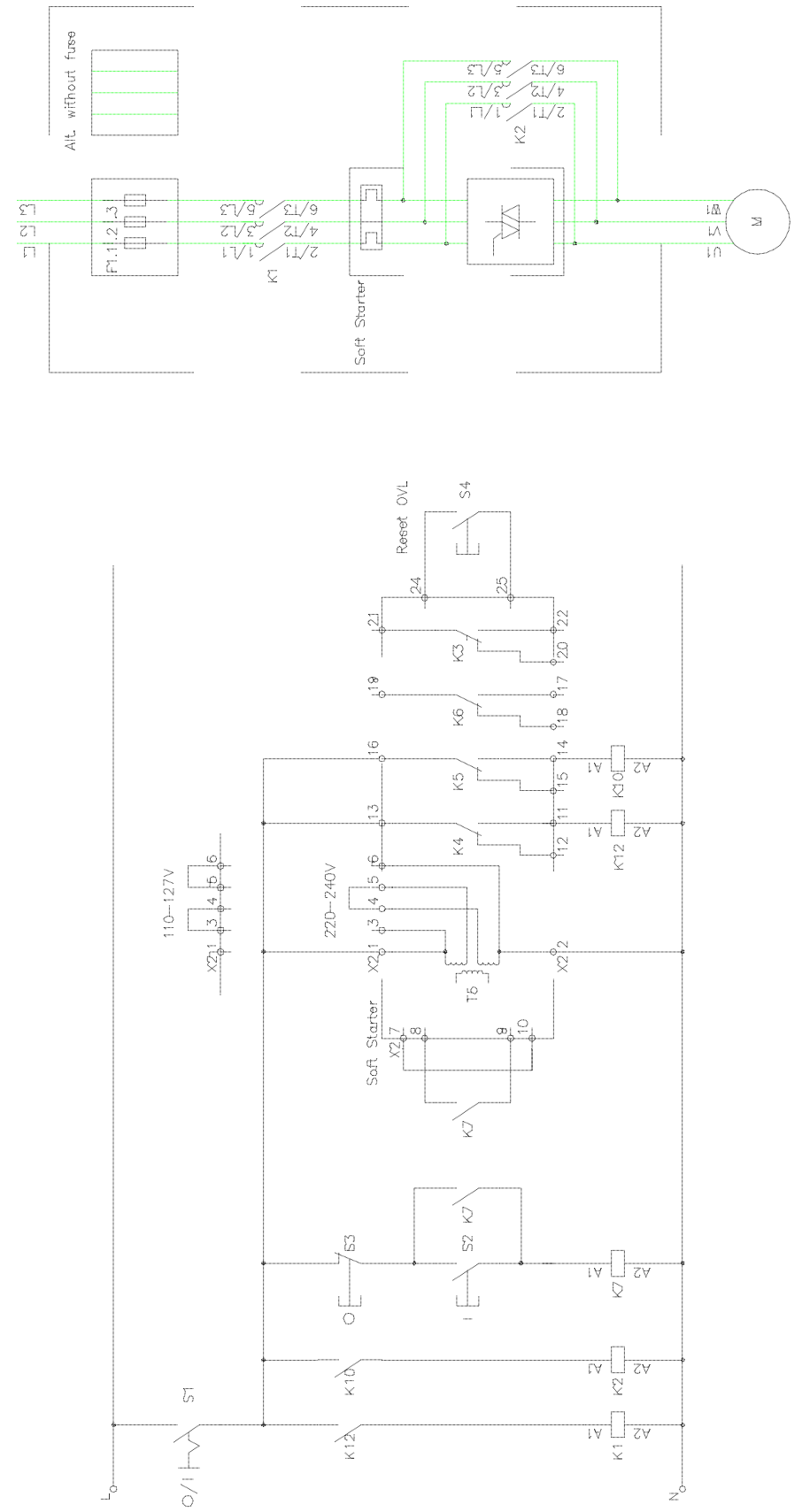
Rev int	2	Issued	5366 105-15	Rev int Sheet	2
2	K1 and fuses moved	TP	86 40	Long Sheet	1
1	Adjusted	TP	86 08	Rev int Cont	...
Rev int	Appd	Year	Week	Issued	...
Design checked by I Persson			APPLICATION DIAGRAM		
Drawing checked by I Persson			Soft Starter		
Drawn by TP			Mjukstare		
			ABB Control		
			Iss by Dept: Year Week		
			SECUR/80 06 05		

Soft Starter PS D175...300, PS DH145...250 with motor protection, softstop and By-pass.
 The internal overload relay is working also together with By-pass.
 Main contactor open during pause



Rev int		Sheet	A105-16	
2	F3K8 removed, K12 inserted, fuses moved	TP	96	40
1	Adjusted	TP	96	09
Rev int	Appd	Year	Week	
Design checked by I. Pefrsson		APPLICATION DIAGRAM		
Drawing checked by I. Pefrsson		Soft Starter Mjuktstartare		
Drawn by TP		ABB Control		
Iss by Dept		Year	Week	05
ISSUED		5366 105-16		
Rev int	Sheet	Long	Sheet	1
2	2	82	Rev int	Cont.

Soft Starter PS D370...840, PS DH300...720 with motor protection, softstop and By-pass.
 The internal overload relay is working also together with By-pass.
 Main contactor open during pause



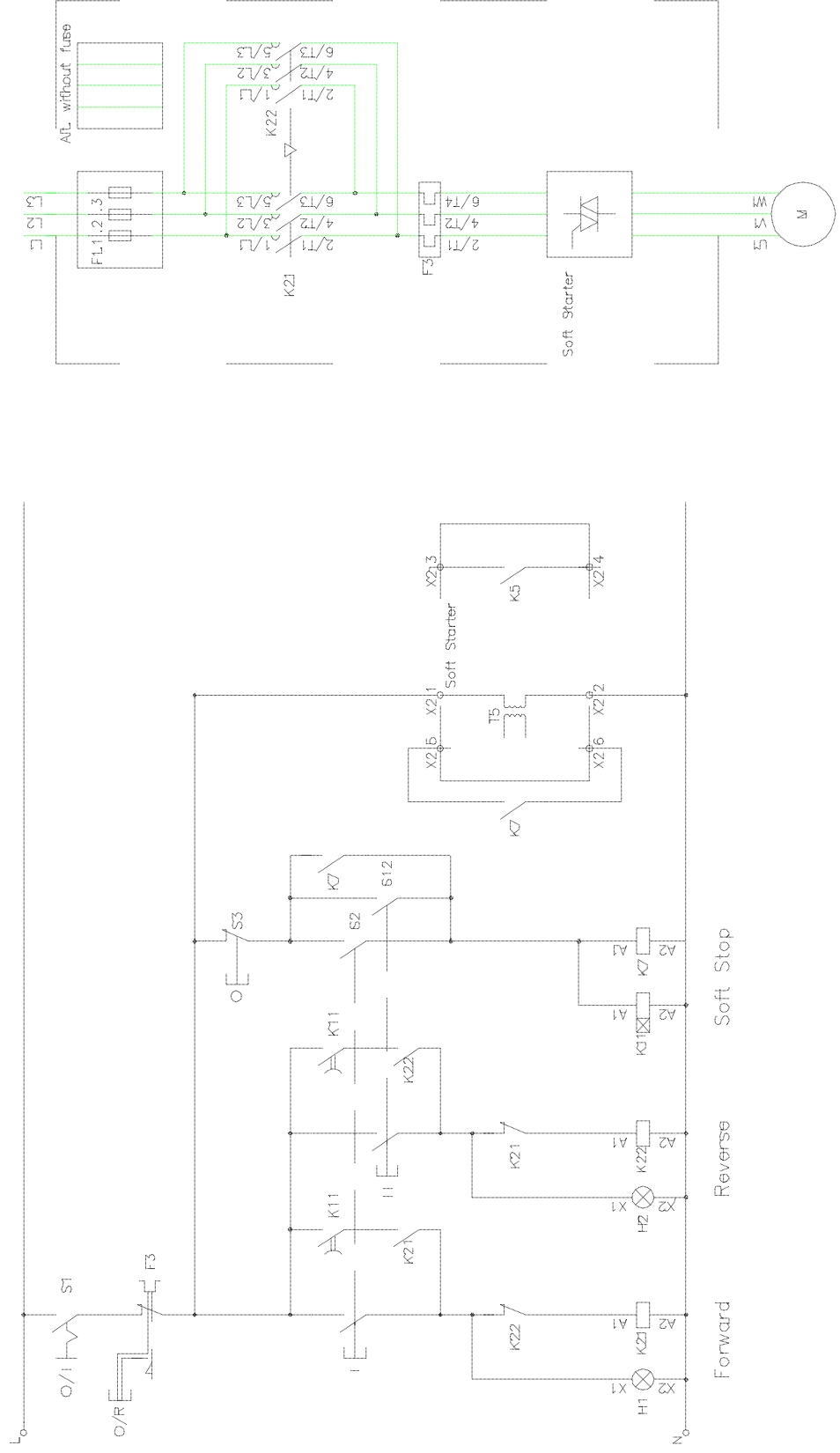
Rev int		Appd	Year	Week
2	K12 Insert and fuses moved	TP	96	40
1	Adjusted	TP	96	09
Rev int		Appd	Year	Week
APPLICATION DIAGRAM Soft Starter Mjukstartare ABB Control				
Design checked by I. Persson		Reviewed by TP		
Drawing checked by I. Persson		Drawn by TP		
Issued by I. Persson		Year 96		
Version 1		Week 05		
Drawing No. 5366 105-17		Issue No. ISSUED		
Revision 2		Drawing Sheet 1		
Drawing Sheet 82		Total Drawing Sheets 1		
Drawing Sheet 1		Total Drawing Sheets 1		
A105-17				

Soft Starter PS A18...60 with reversing and softstop.

To be stopped before reversing.

Start at optional direction.

If softstop is not needed set the time for softstop to 0.5.



A105-18

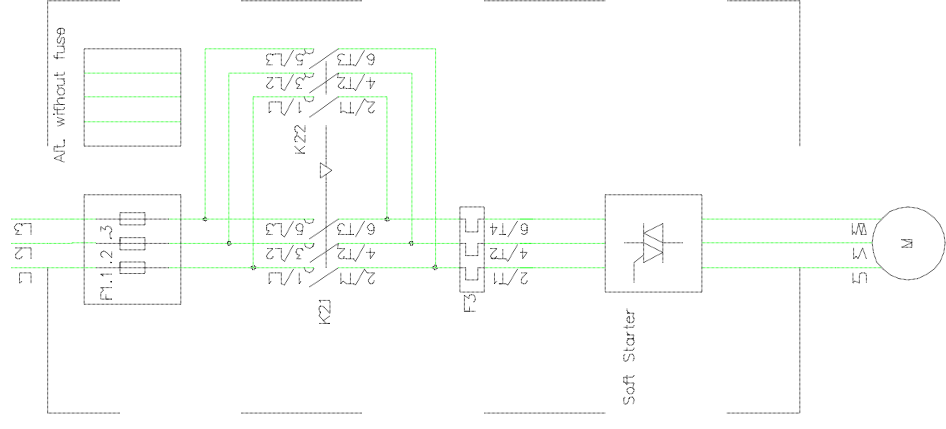
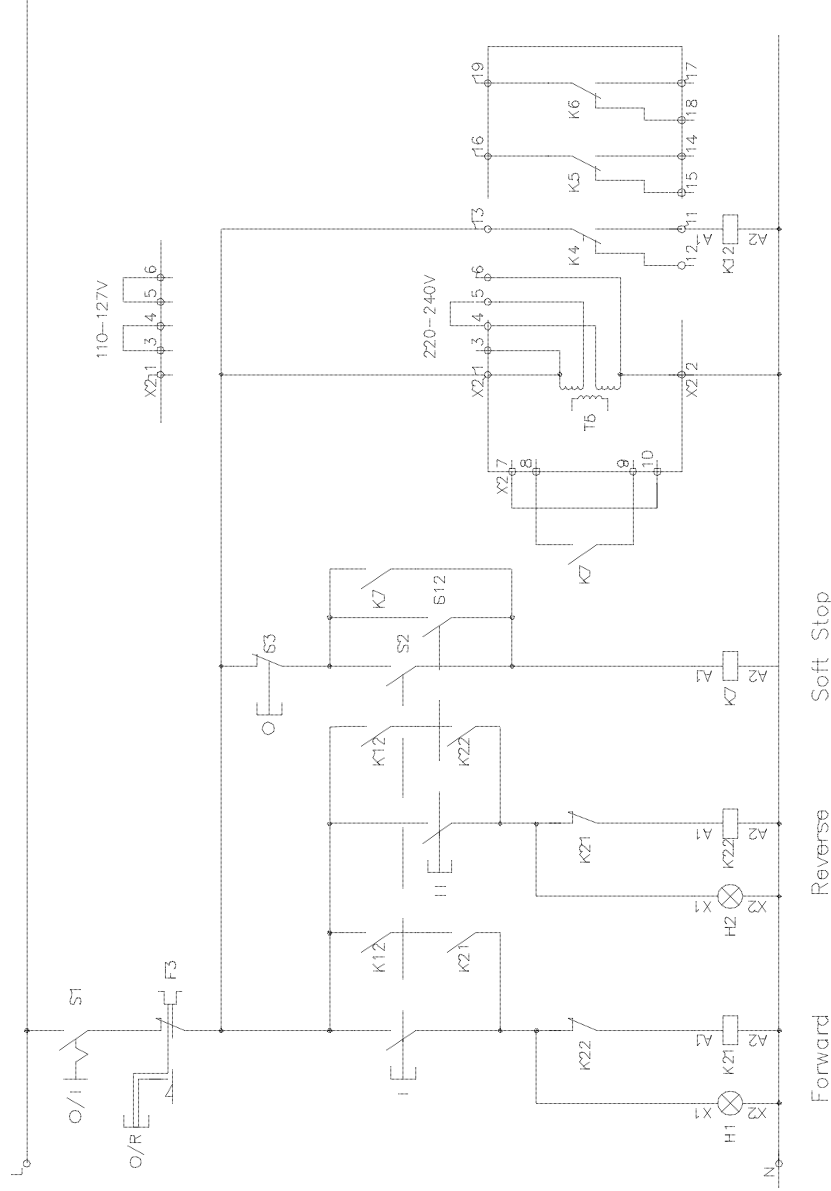
2		Revised	TP	96	42	APPLICATION DIAGRAM		I Perisson		Soft Starter		5366 105-18		82	1
1		Adjusted	TP	96	10	Mjakstartare		I Perisson		Mjakstartare		5366 105-18		2	...
Rev. int.		Appt.	Year	Week		SECORL/80		06		05		ISSUED			

Soft Starter PS D75...300 with reversing and softstop.

To be stopped before reversing.

Start at optional direction.

If softstop is not needed set the time for softstop to 0.5.



A105-19

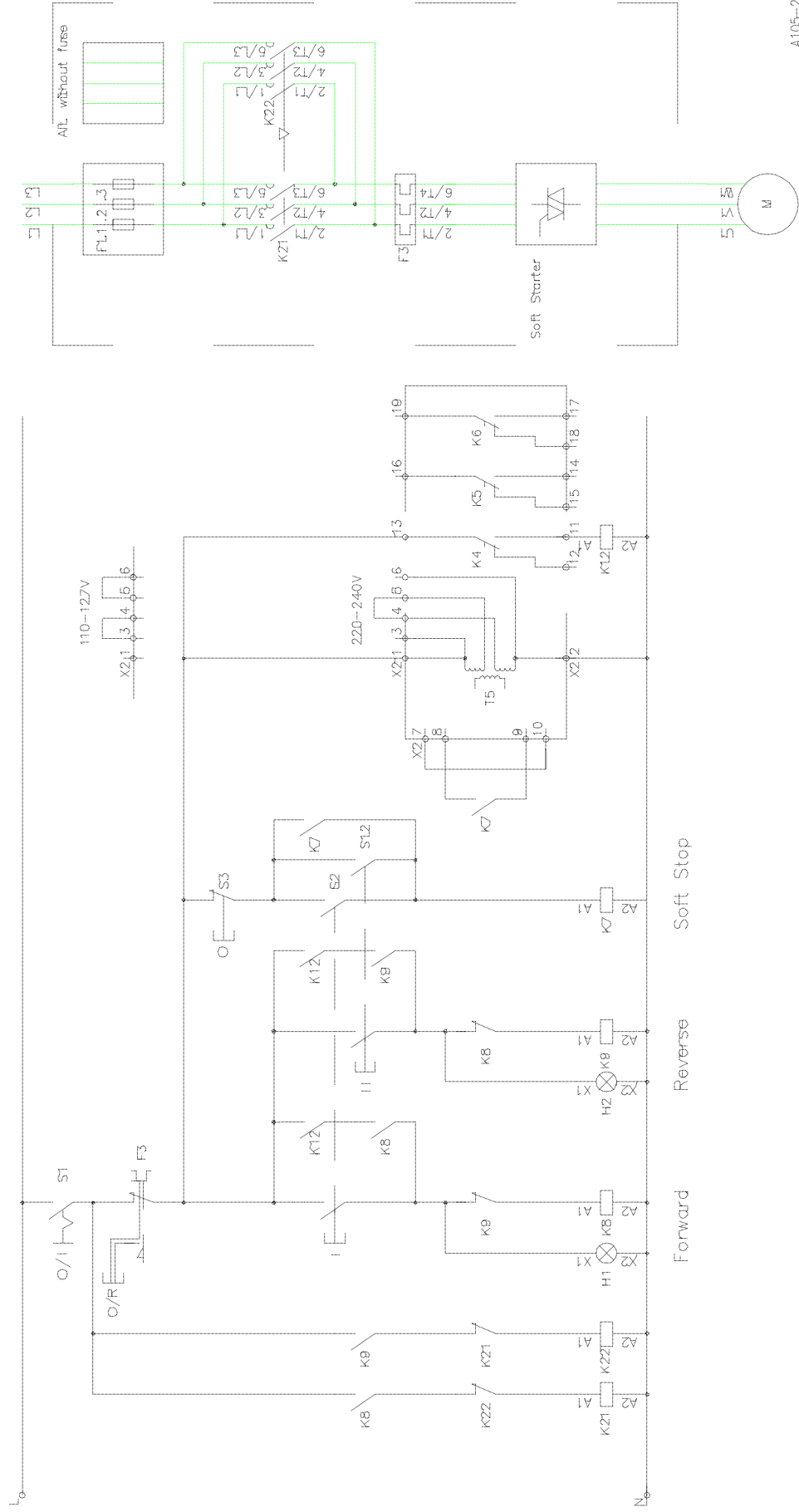
APPLICATION DIAGRAM		Soft Starter		Mjakstartare	
I Perissona		I Perissona		IP	
1 Redrawn		TP 86 42		Appd Year /Week	
5366 105-19		SECUR/80 06 05		ISSUED	
82		1		...	

Soft Starter PS D370...840 with reversing and softstop.

To be stopped before reversing.

Start at optional direction.

If softstop is not needed set the time for softstop to 0.5.



A105-20

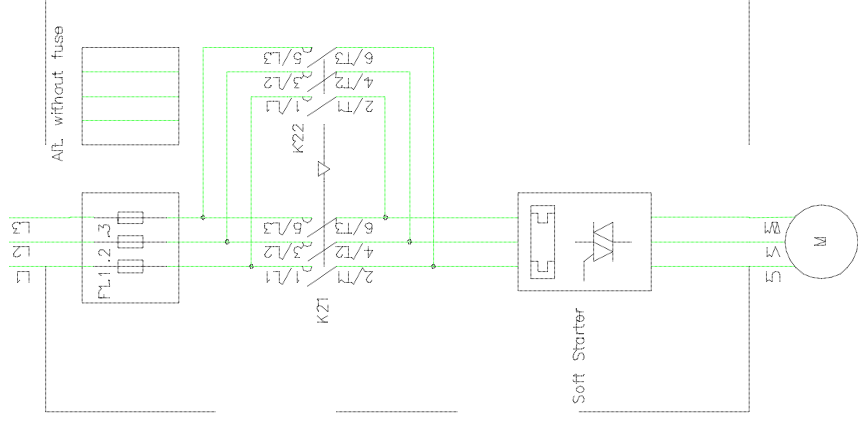
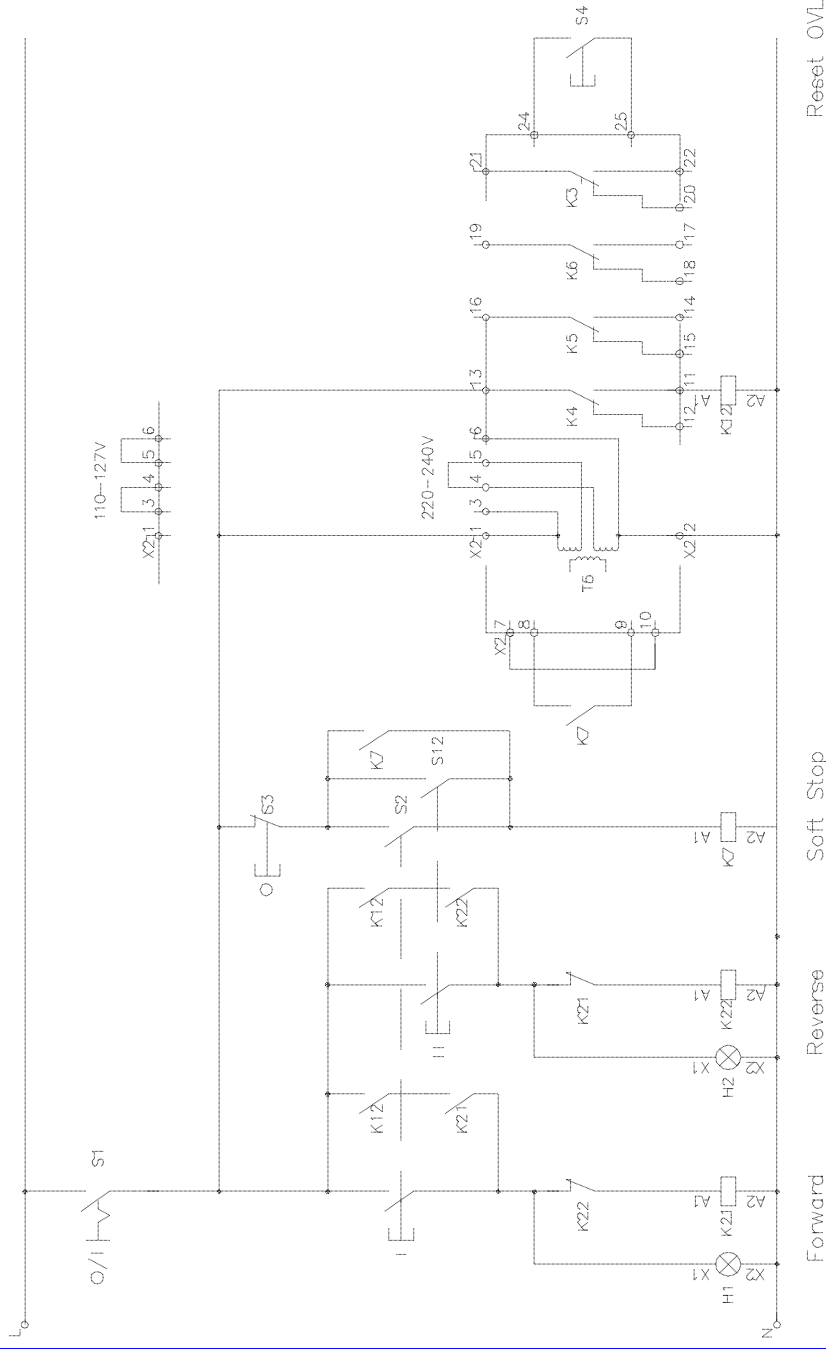
Rev. no.	1	Appd.	86	42	Year	1986
1	Redrawing	TP	86	42	Year	1986
Design checked by I. Persson Drawing checked by I. Persson Drawn by TP						
APPLICATION DIAGRAM Soft Starter Mjukstartare						
ABB Control						
Issued by: STORL/BG 05 05						
5366	105-20					
Rev. no.	1	Rev. no.	1	Sheet	82	Long Sheet

Soft Starter PS D75...840, PS DH30...720 with reversing and softstop.

To be stopped before reversing.

Start at optional direction.

If softstop is not needed set the time for softstop to 0.5.



Reset OVL

Soft Stop

Reverse

Forward

A105-21

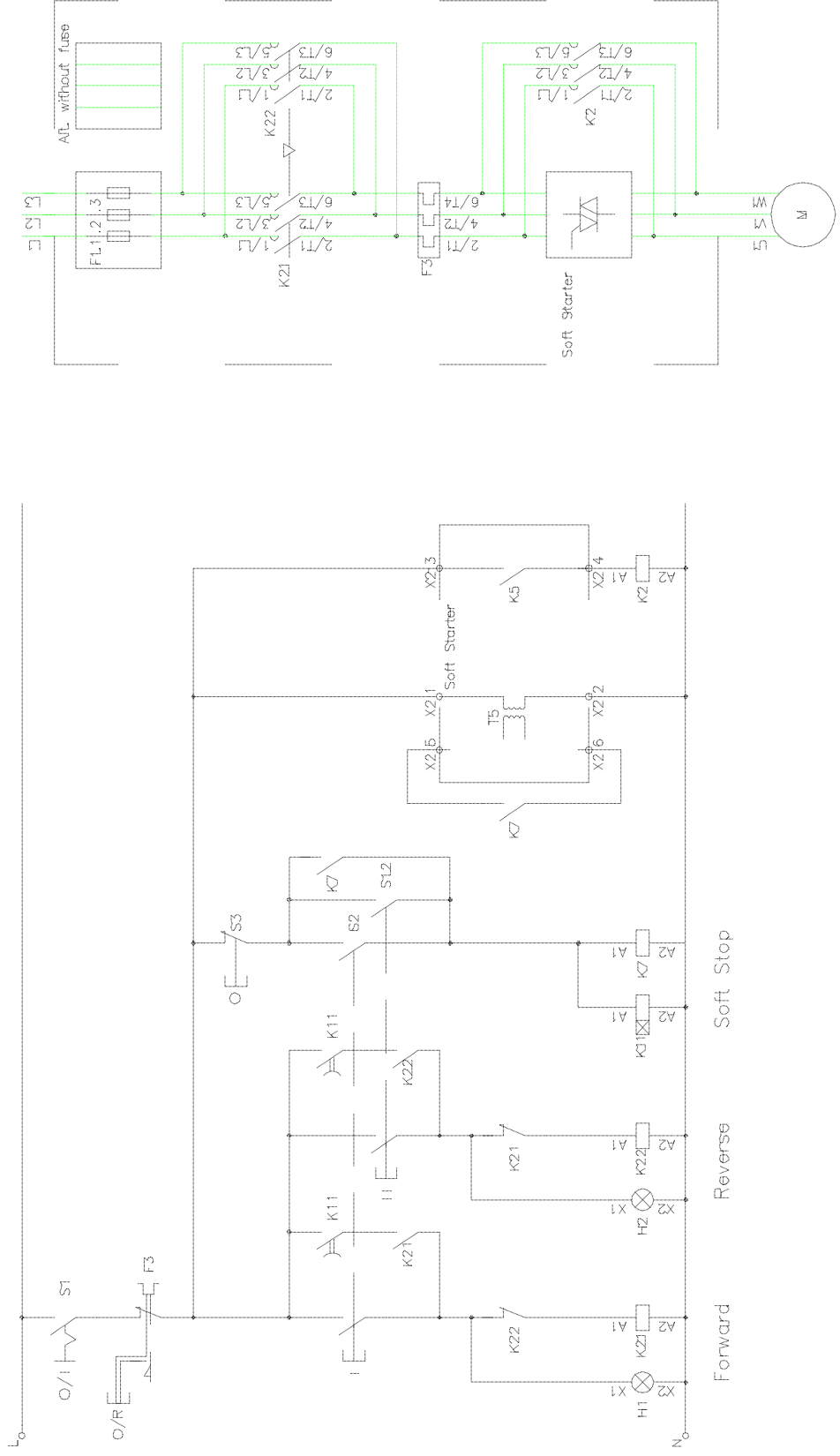
I Persson		APPLICATION DIAGRAM		82		1	
I Persson		Soft Starter		5366 105-21		1	
TP		Mjukstartare		ISSUED		1	
1		Revised		TP 96 42		1	
Rev int		Appl		Year		Week	
				SECUR/80 06 05			

Soft Starter PS A18...60 with reversing, By-pass and softstop.

To be stopped before reversing.

Start at optional direction.

If softstop is not needed set the time for softstop to 0.5.



A105-22

APPLICATION DIAGRAM

I Perisson
I Perisson
TP

Soft Starter
Mjakstartare

ISSUED

05 06 80/82

5366 105-22

82

1

2

Revised

1

Adjusted

TP

96 10

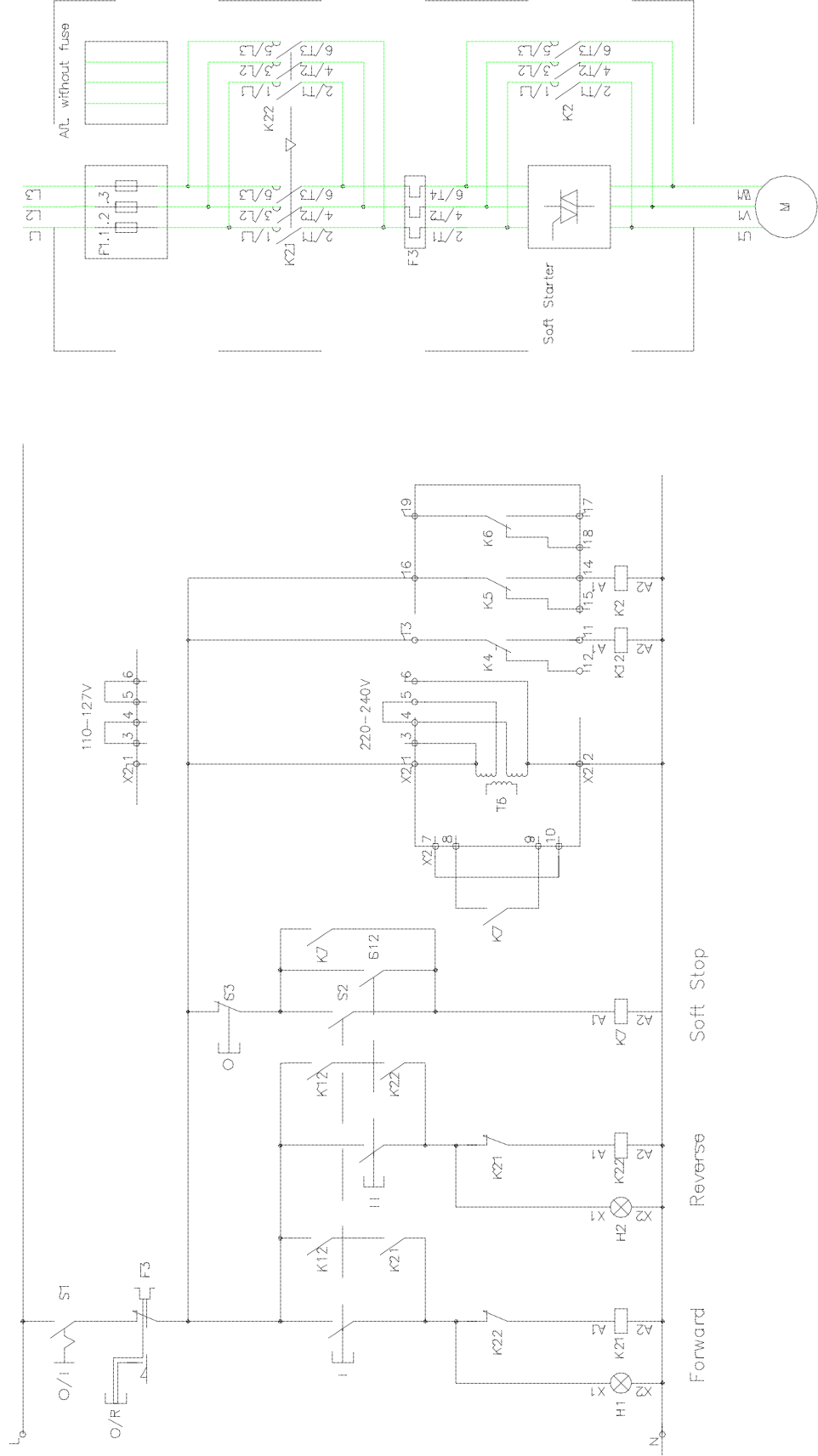
Appt

Year

Rev

Week

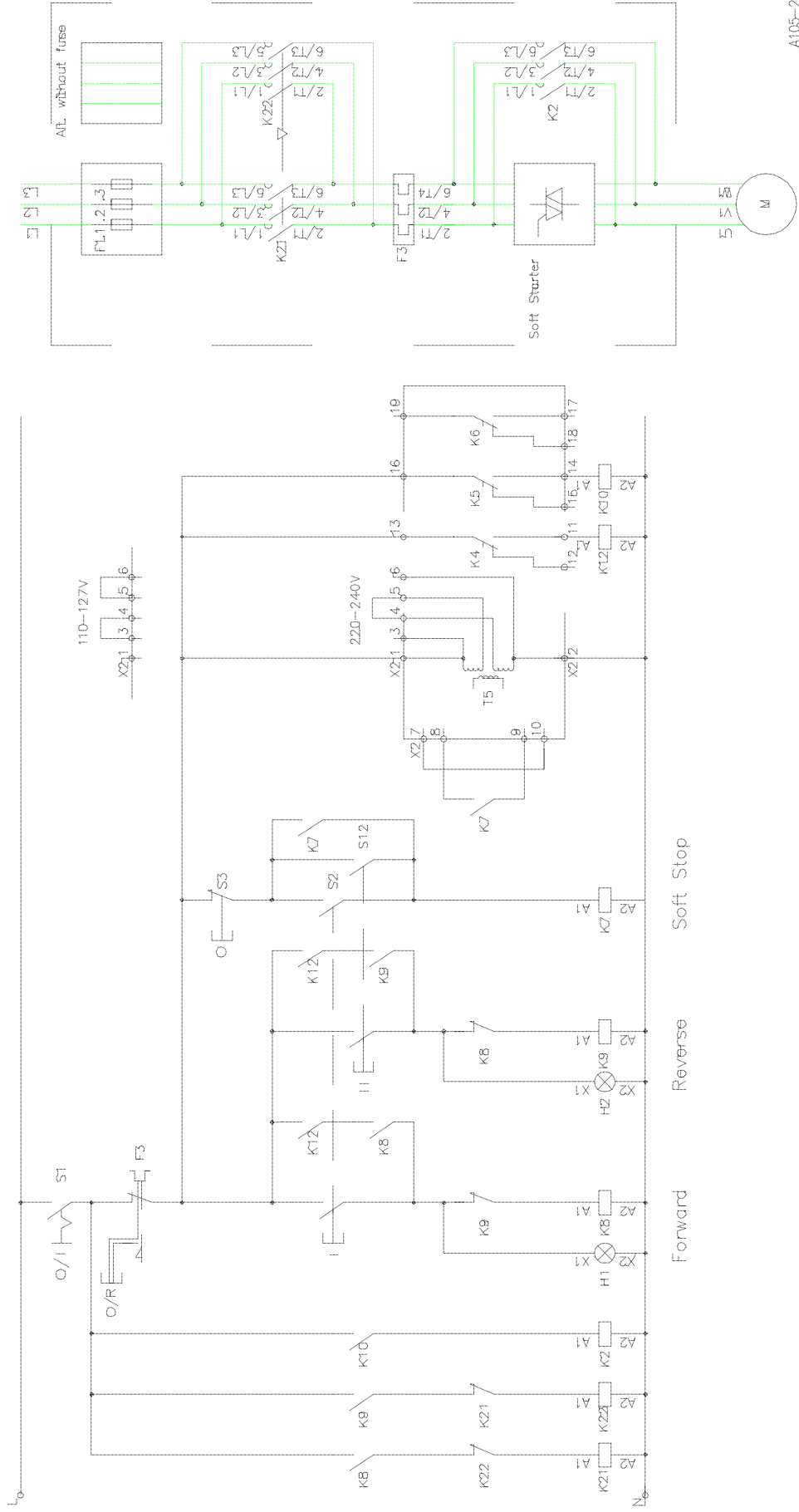
Soft Starter PS D75...300 with reversing, By-pass and softstop.
 To be stopped before reversing.
 Start at optional direction.
 If softstop is not needed set the time for softstop to 0.5.



AJ05-23

APPLICATION DIAGRAM		5366 105-23	
Soft Starter		ISSUED	
Mjapakstartare		SECUR/80 06 05	
I Perissou		82	
I Perissou		1	
TP		...	
1	Redrawn	TP	96 42
Rev int		Appt	Year
		Work	

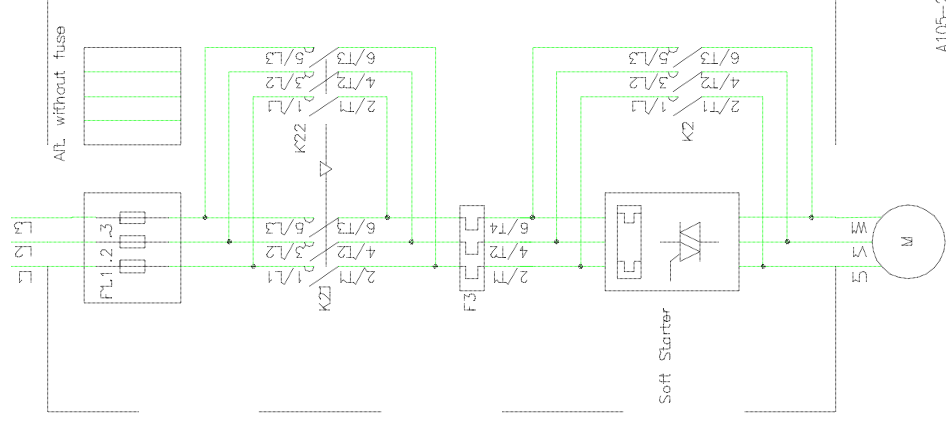
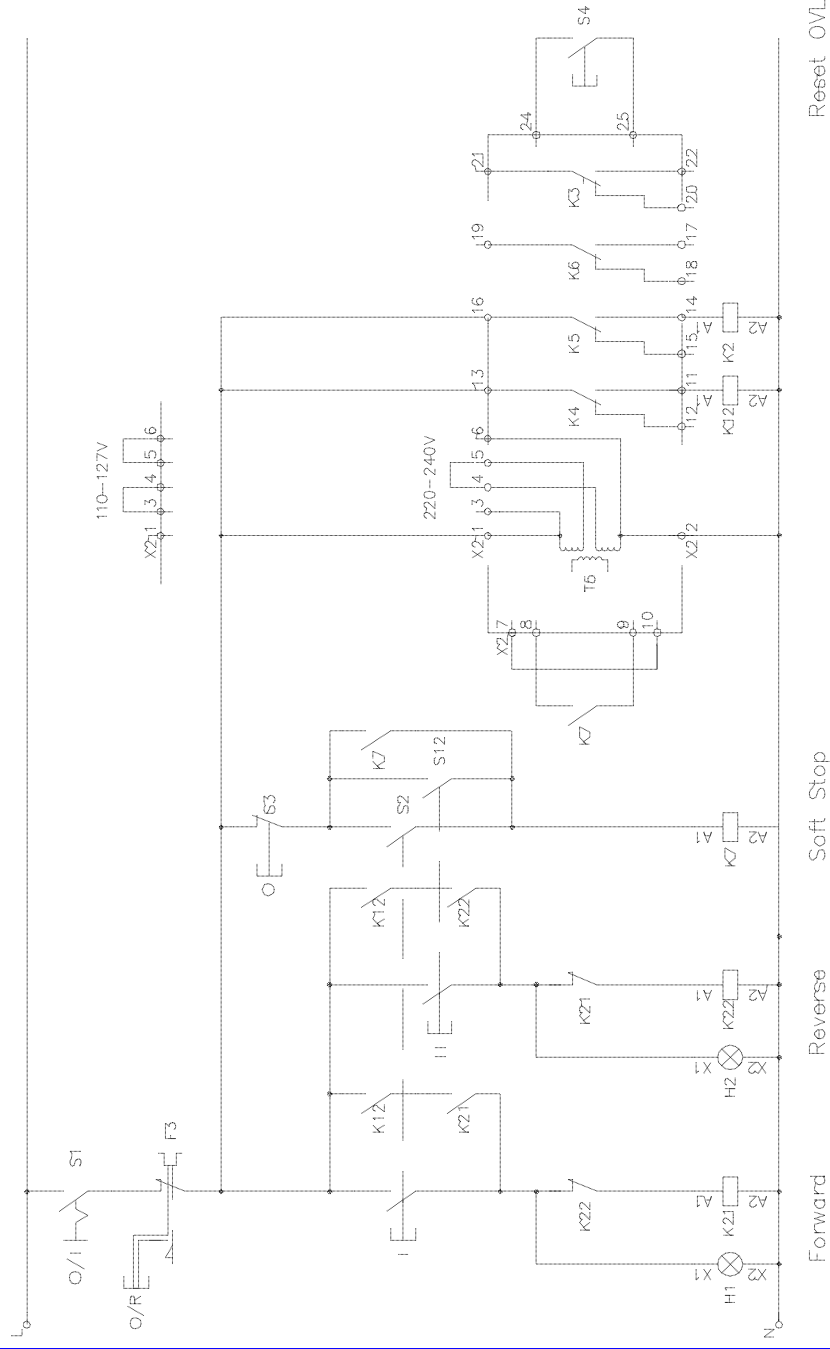
Soft Starter PS D370...840 with reversing, By-pass and softstop.
 To be stopped before reversing.
 Start at optional direction.
 If softstop is not needed set the time for softstop to 0.5.



A105-24

Rev. no.	1	Redrawn	TP	86	42	Appd.	Year	Week	SECRL/80	86	05	ISSUED	5366 105-24		82	1	
APPLICATION DIAGRAM										Soft Starter		Mjukstartare					
I Persson										I Persson		IP					

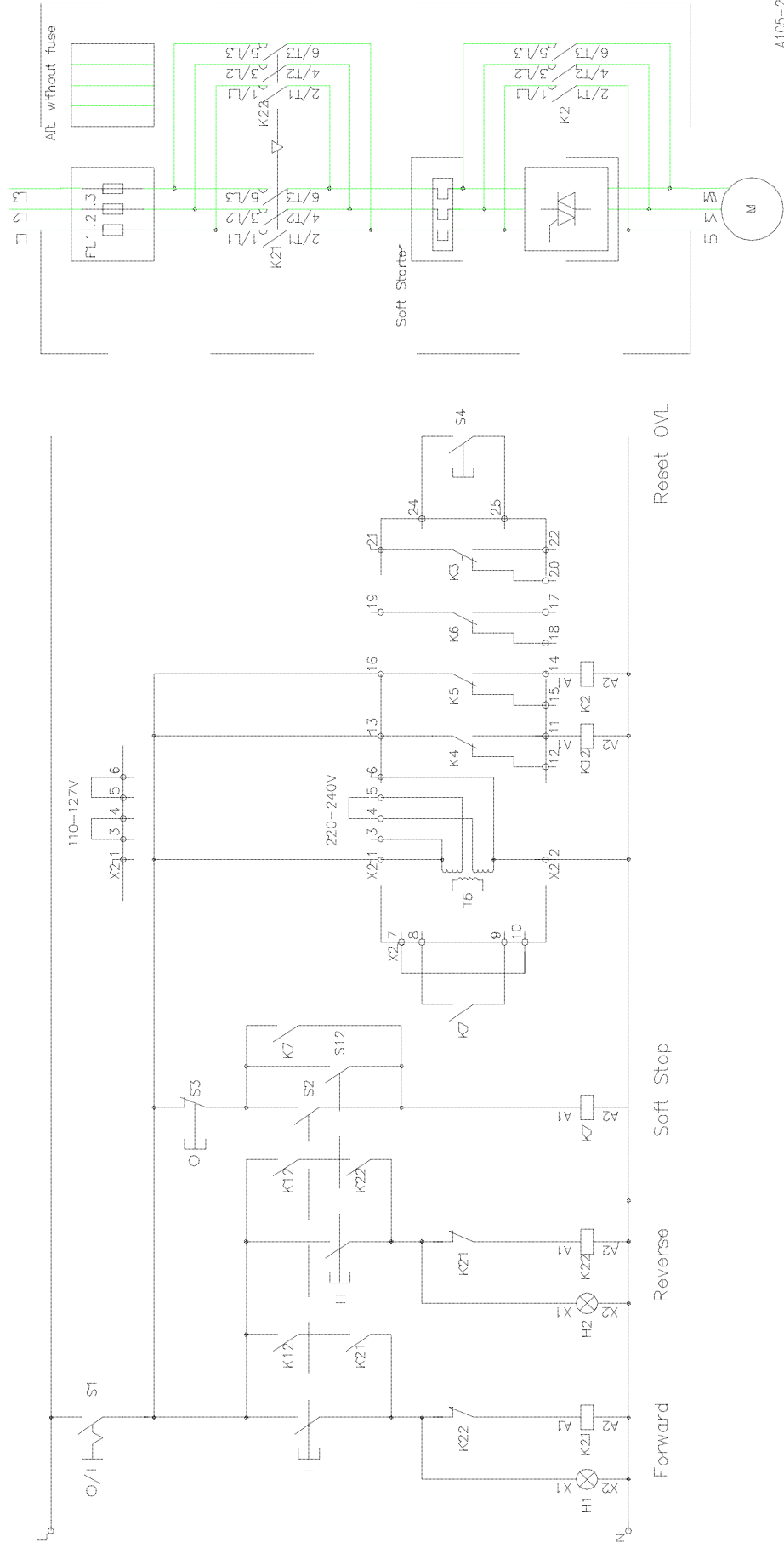
Soft Starter PS D75...145, PS DH30...110 with reversing, By-pass and softstop.
 To be stopped before reversing.
 Start at optional direction.
 If softstop is not needed set the time for softstop to 0.5.



AJ05-26

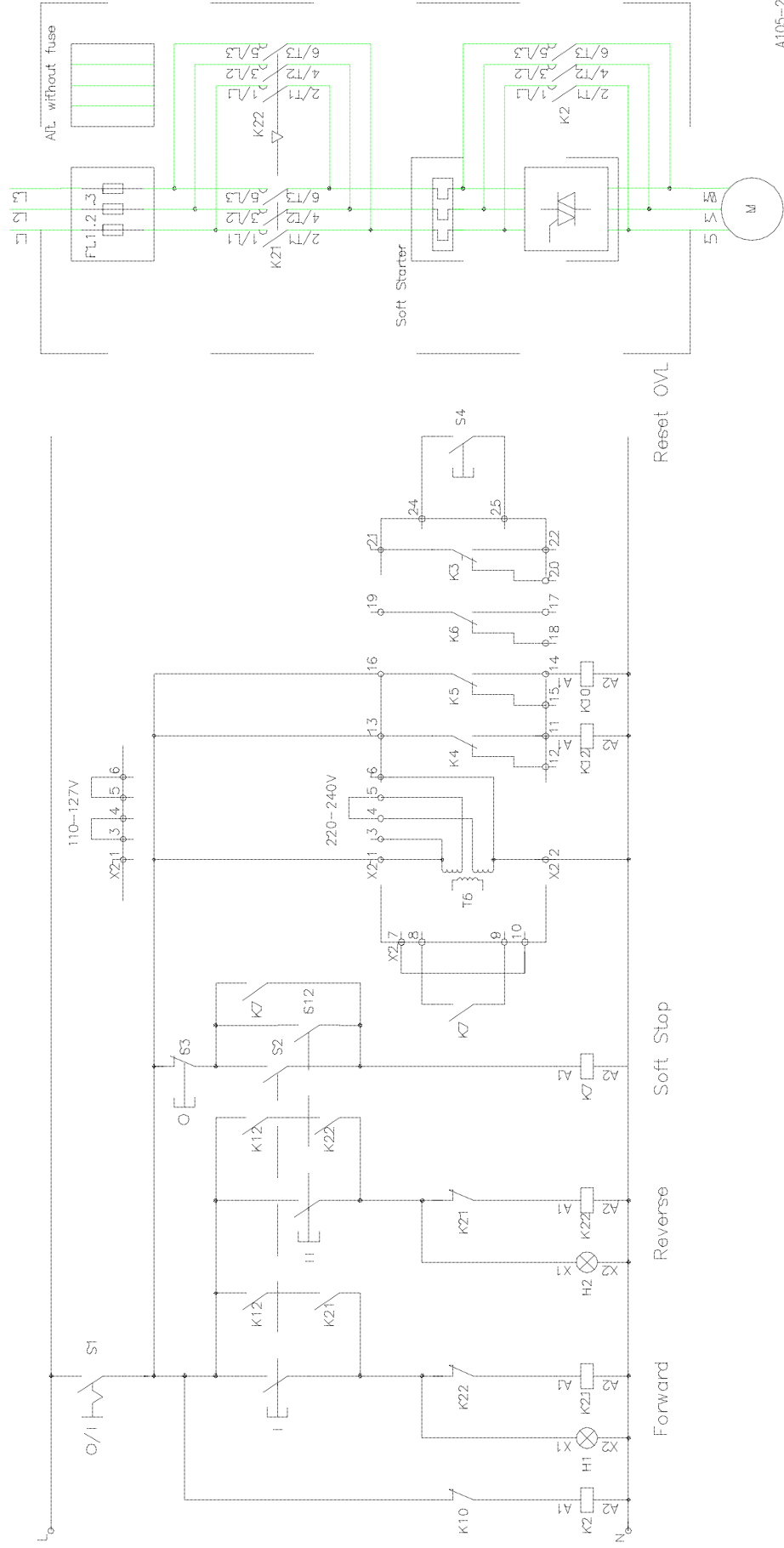
I Perissos		APPLICATION DIAGRAM		5366 105-25		ISSUED	
I Perissos		Soft Starter		82		1	
TP		Mjakstartare		1		...	
1		Rev. not		Appl. 96 42		SECUR/80 06 05	
1		Rev. not		Appl. 96 42		SECUR/80 06 05	

Soft Starter PS D175...300, PS DH145...250 with reversing, By-pass and softstop.
 To be stopped before reversing.
 Start at optional direction.
 If softstop is not needed set the time for softstop to 0.5.
 The internal overload relay is working also together with By-pass.



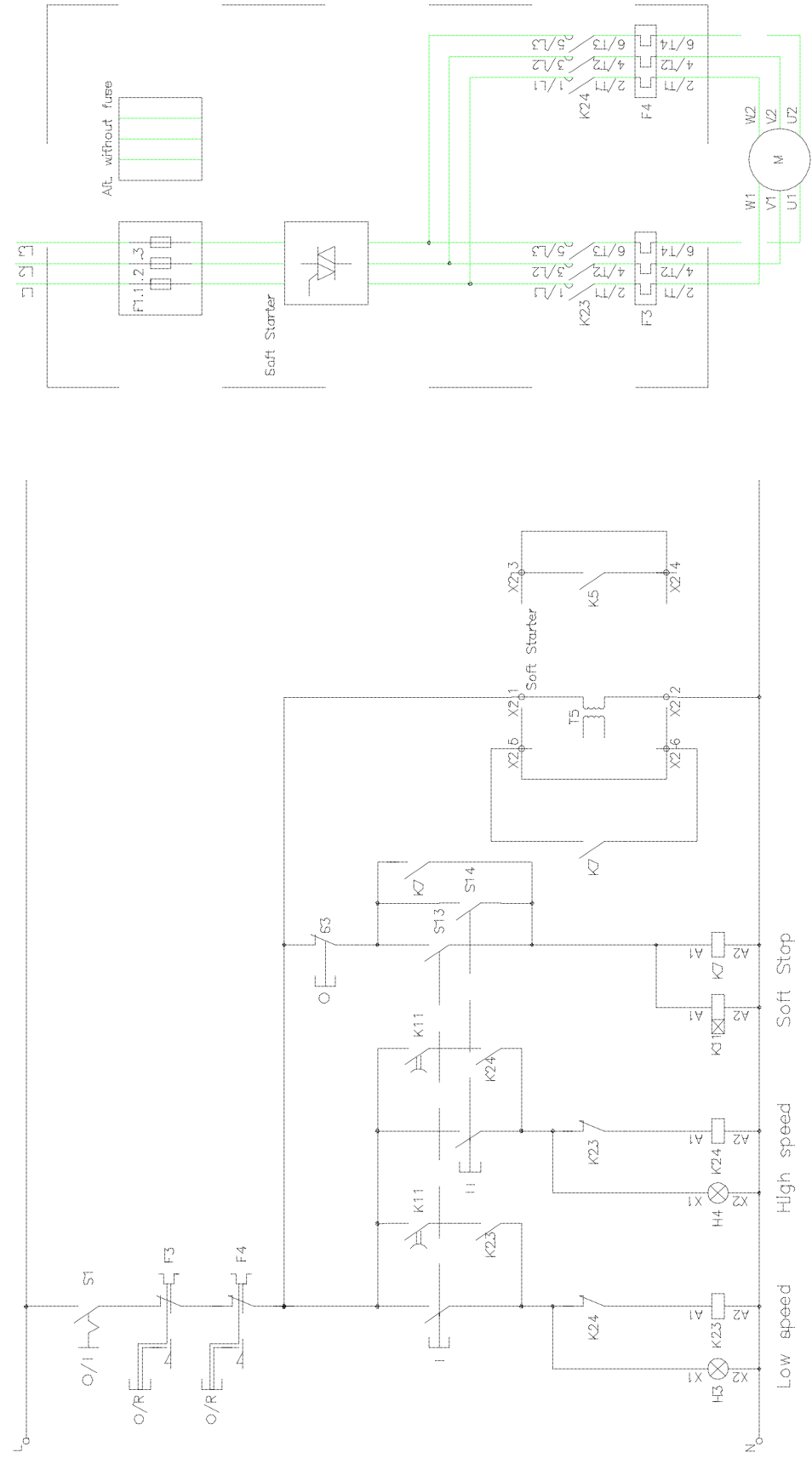
I Persson		APPLICATION DIAGRAM	
I Persson		Soft Starter	
TP		Mjukstartare	
1	Redrawn	TP	96 42
Rev int		Appl	Year
		Issued	Rev
		5366 105-26	1
		SECUR/80 06 05	1
			...

Soft Starter PS D370...840, PS DH300...720 with reversing, By-pass and softstop.
 To be stopped before reversing.
 Start at optional direction.
 If softstop is not needed set the time for softstop to 0.5.
 The internal overload relay is working also together with By-pass.



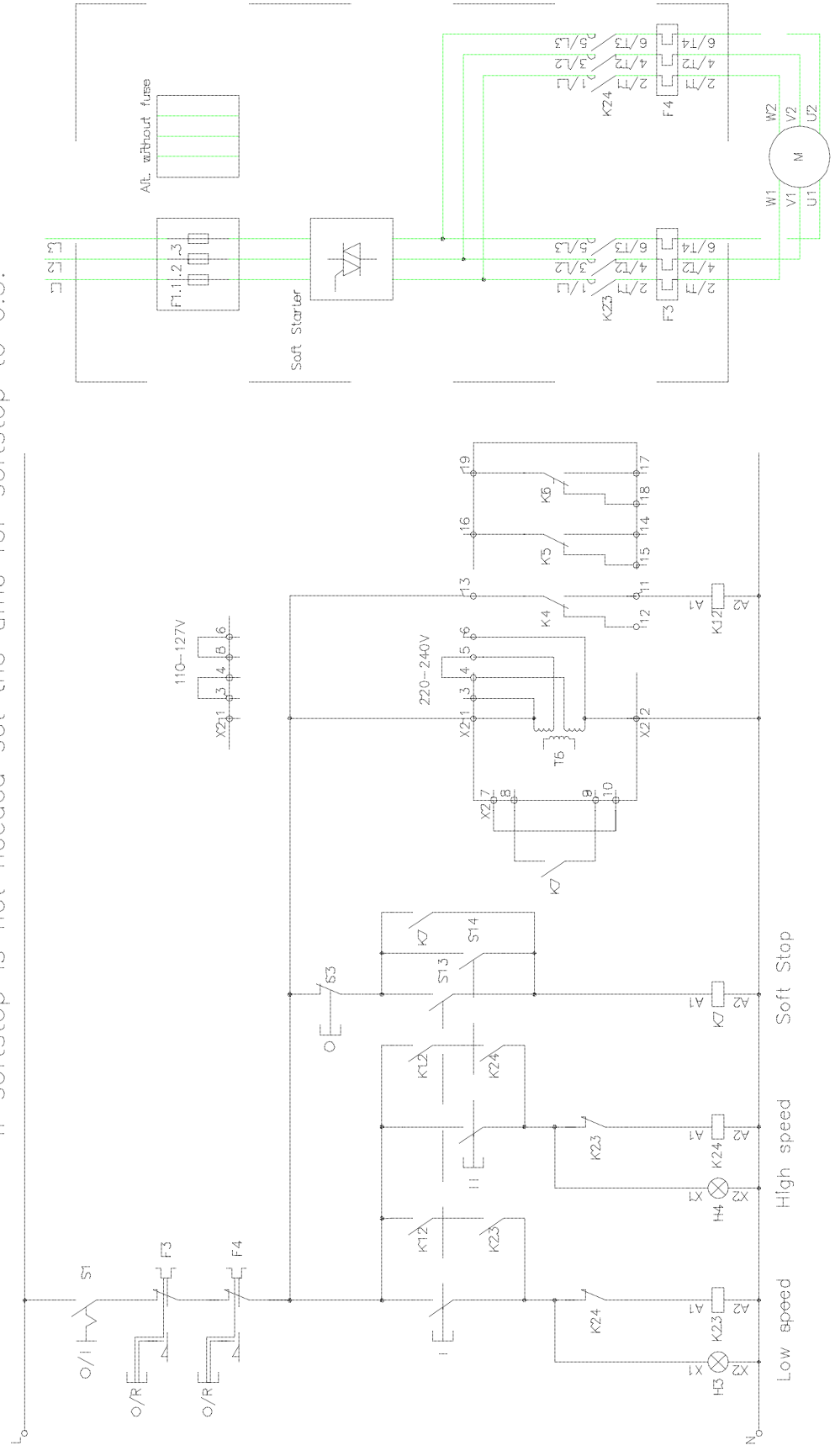
1		Redrawn	TP	96	42	Appd	Year	Issue	SECUR/80 06 05	ISSUED	5366 105-27	82	1	
1														
APPLICATION DIAGRAM												Soft Starter Mjpkstartare		
I Pensson												I Pensson		
TP												TP		

Soft Starter PS A18...60 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with two winding.
 If softstop is not needed set the time for softstop to 0.5.



Rev. no.	Appt.	Year	Week	ISSUED	5366 105-28	Rev. no.	Sheet	Cont.
							82	1
								...
Design checked by I. Pajssod				APPLICATION DIAGRAM Soft Starter Mjpkstartare		Rev. no. Sheet Cont.		
Drawing checked by I. Pajssod				ABB Control		A105-28		
Drawn by TP				ABB		Rev. no. Sheet Cont.		
Checked by TP				Year Week 2006 42		Rev. no. Sheet Cont.		

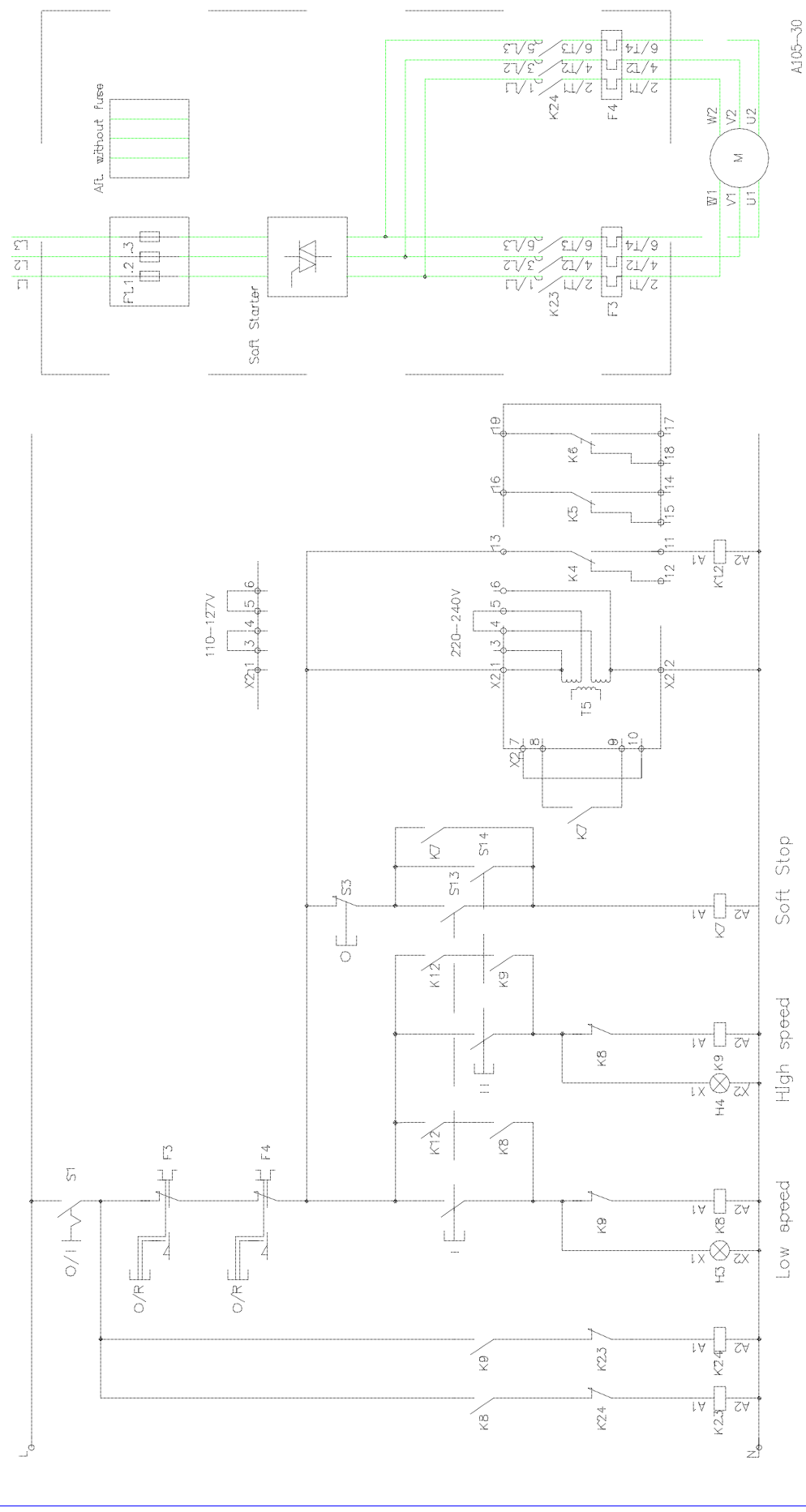
Soft Starter PS D75...300 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with two winding.
 If softstop is not needed set the time for softstop to 0.5.



A105-29

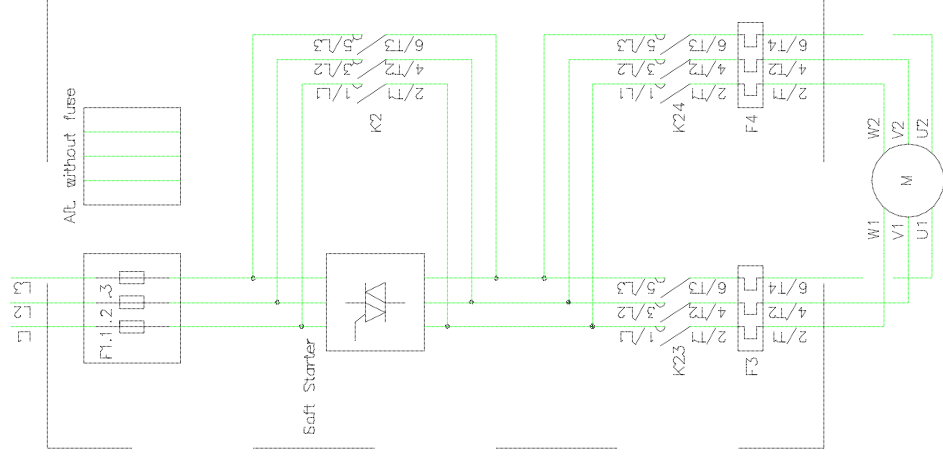
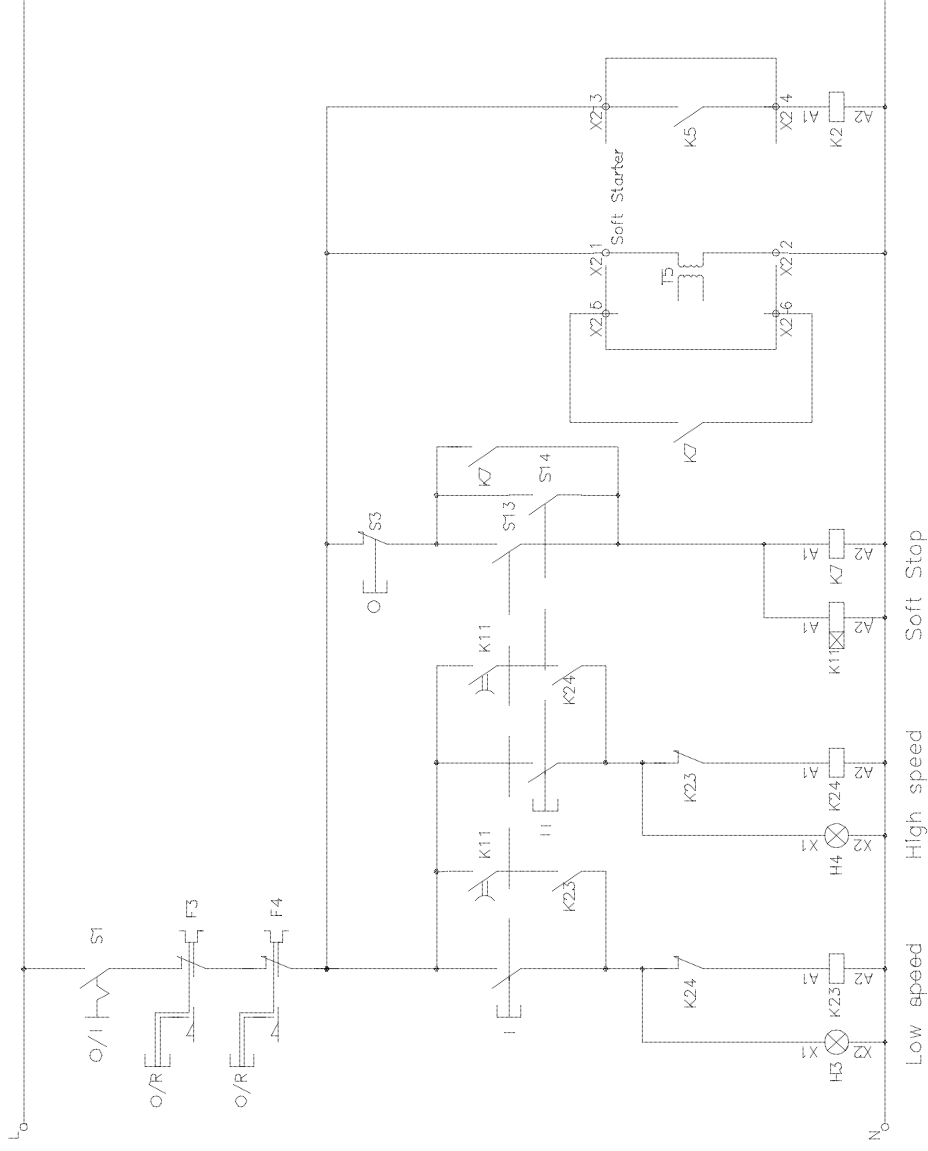
Rev. int.	Issued	Year	Week	Appd.	Yor.	Week
Design checked by I. Perissod Drawing checked by I. Perissod Drawn by TP				APPLICATION DIAGRAM Soft Starter Mjaketartare		
Issued by SECURITY/80 06 42				ABB Control		
5366 105-29				Rev. int. Sheet 82 1 Rev. int. Cont. ...		

Soft Starter PS D370...840 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with two winding.
 If softstop is not needed set the time for softstop to 0.5.



Rev. int.	Appl.	Year	Issue	SECUR/80 06 42	ISSUED	82	1	...
						5366 105-30		
				APPLICATION DIAGRAM				
				Soft Starter				
				Mjakstartare				
				I Perissos				
				I Perissos				
				IP				

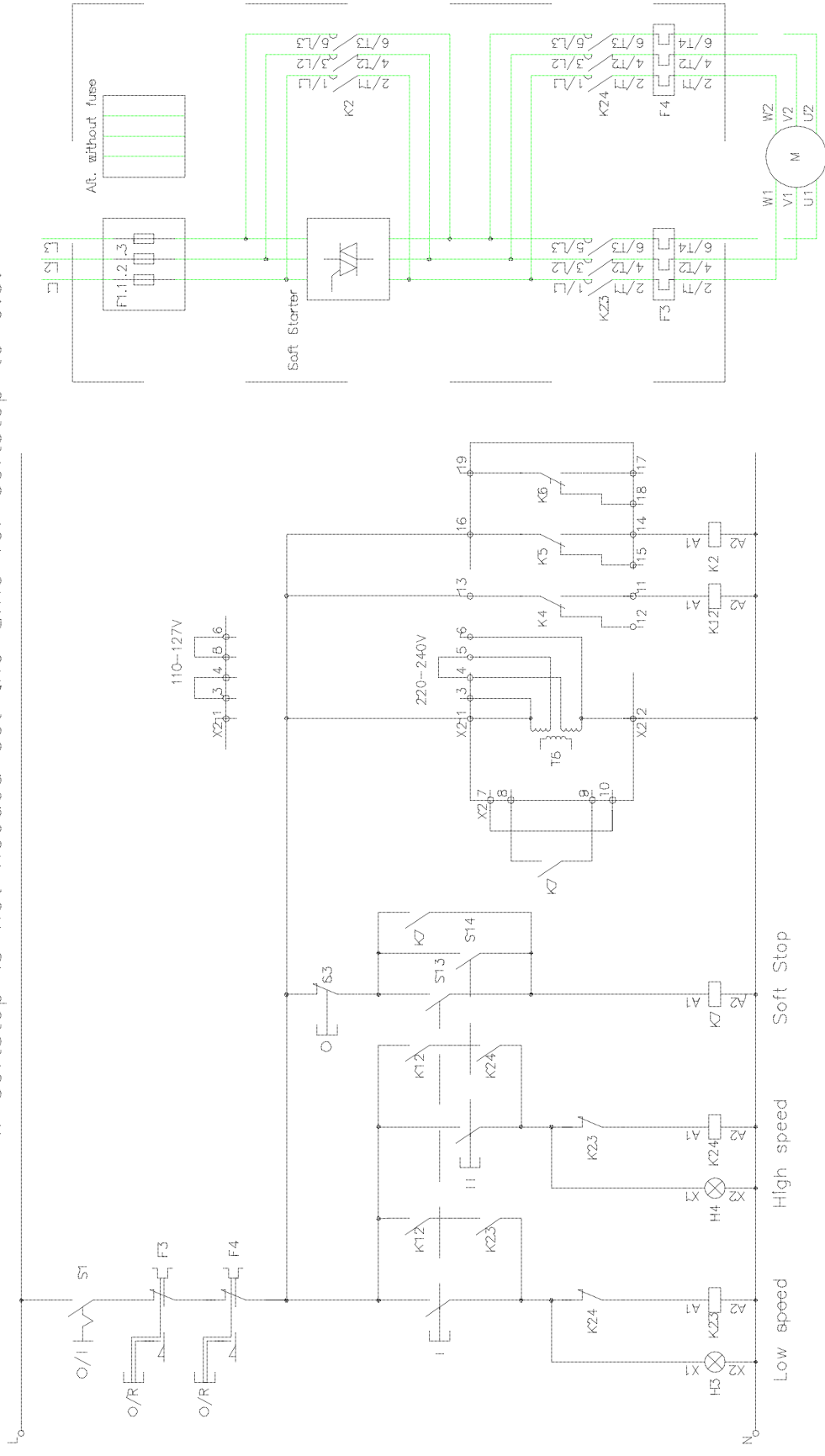
Soft Starter PS A18...60 with pole-changing, By-pass and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with two winding.
 If softstop is not needed set the time for softstop to 0.5.



A105-31

APPLICATION DIAGRAM		ISSUED	
I Persson	Soft Starter	SECUR/80	06 42
I Persson	Mjukstartare	5366 105-31	
TP		1	82
Rev: int	Appt: Yoon		1000

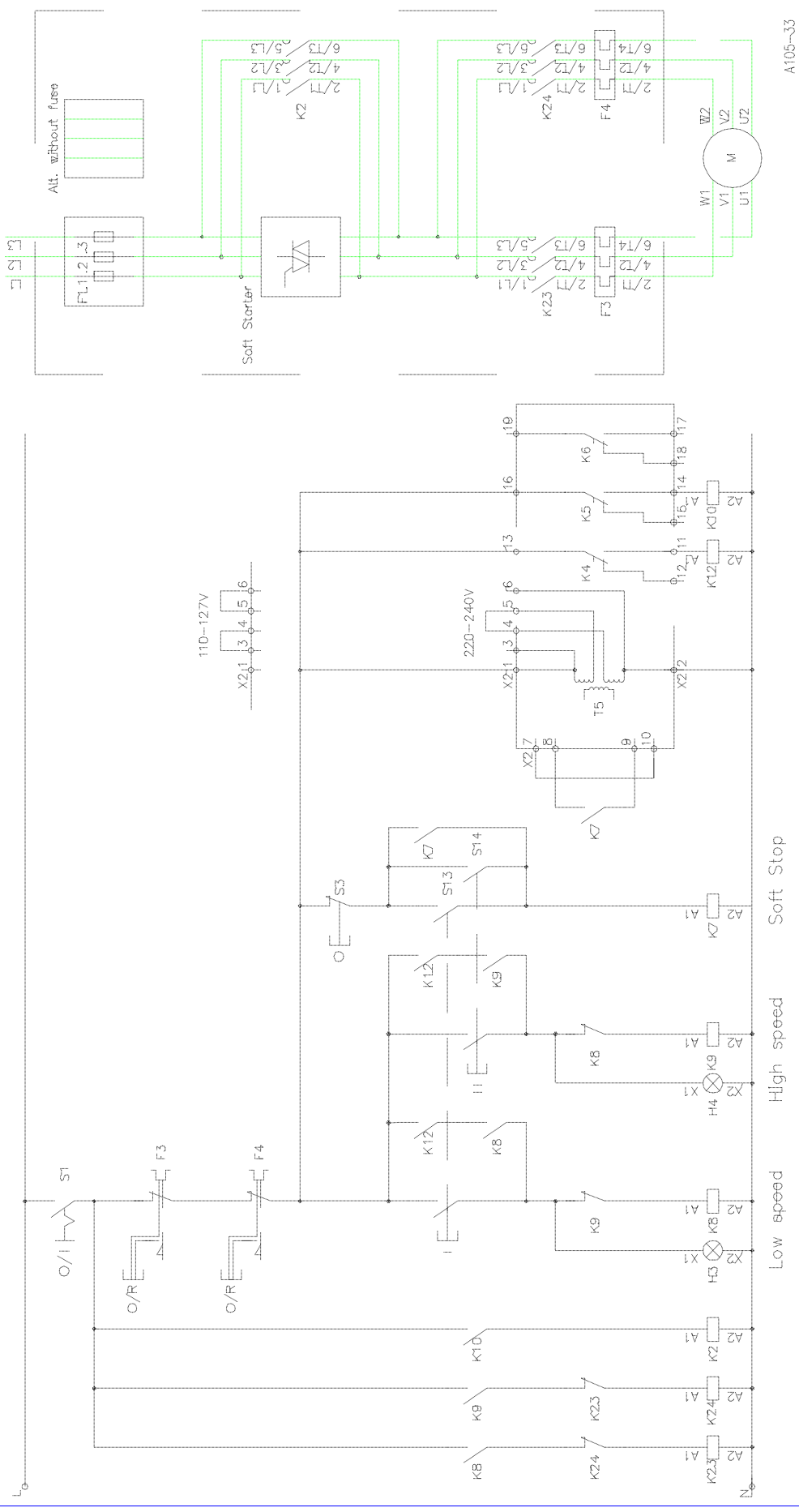
Soft Starter PS D75...300 with pole-changing, By-pass and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with two winding.
 If softstop is not needed set the time for softstop to 0.5.



A105-32

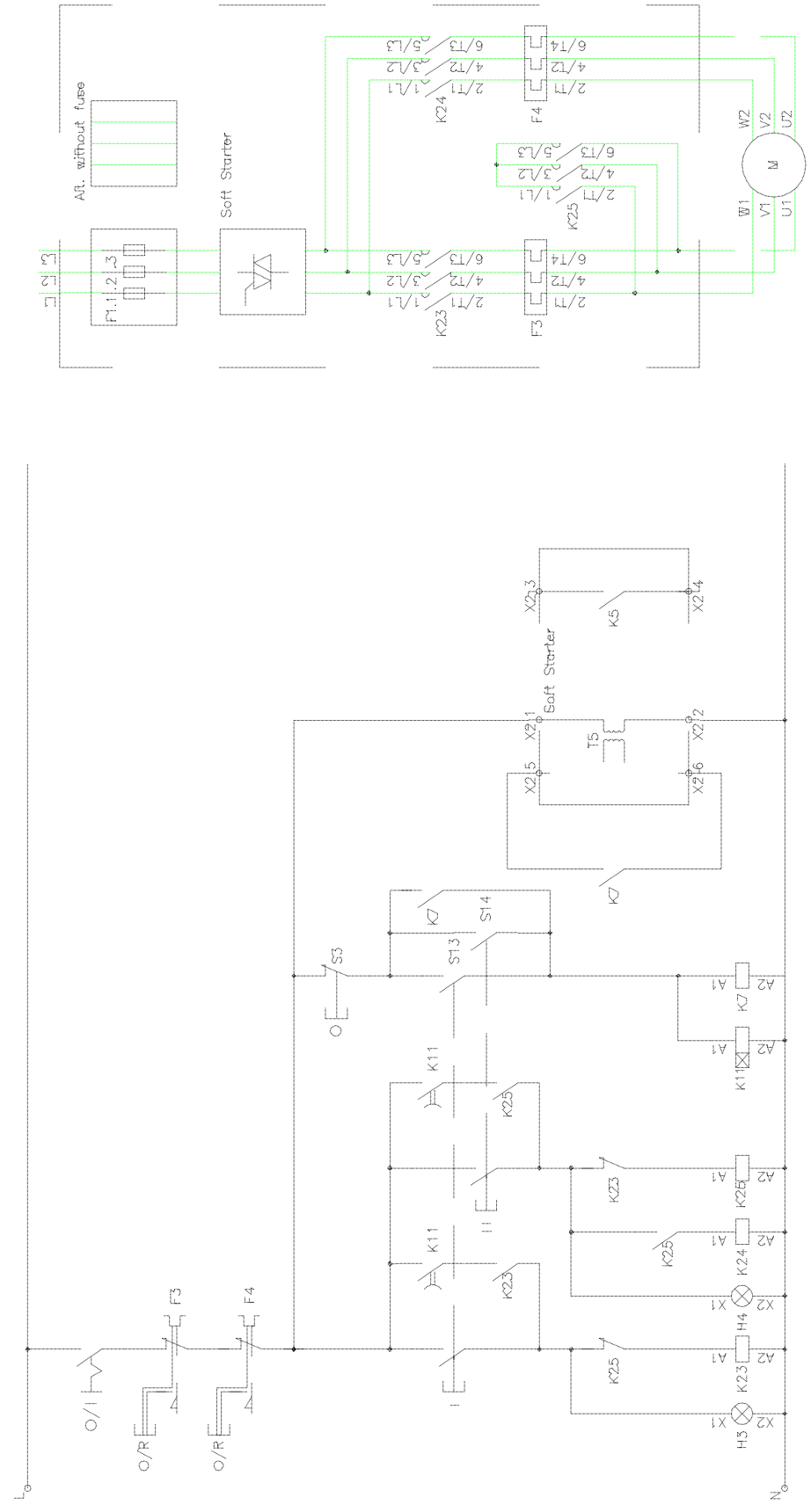
Rev. no.	Sheet	Rev. no.	Sheet
5366	105-32	ISSUED	...
des. by	year	year	week
SECUR/BO	06	02	
APPLICATION DIAGRAM		ABB Control	
Design checked by		I. Pefssod	
Drawing checked by		I. Pefssod	
Drawn by		I. P.	
Soft Starter	Mjakstartare		

Soft Starter PS D370...840 with pole-changing, By-pass and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with two winding.
 If softstop is not needed set the time for softstop to 0.5.



APPLICATION DIAGRAM		I Perissa		Soft Starter		Mjakstartare		SECUR/80 06 42		ISSUED	
		I Perissa								5366 105-33	
		IP								1	
										...	

Soft Starter PS A18...60 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with one winding (Dahlander).
 If softstop is not needed set the time for softstop to 0.5.

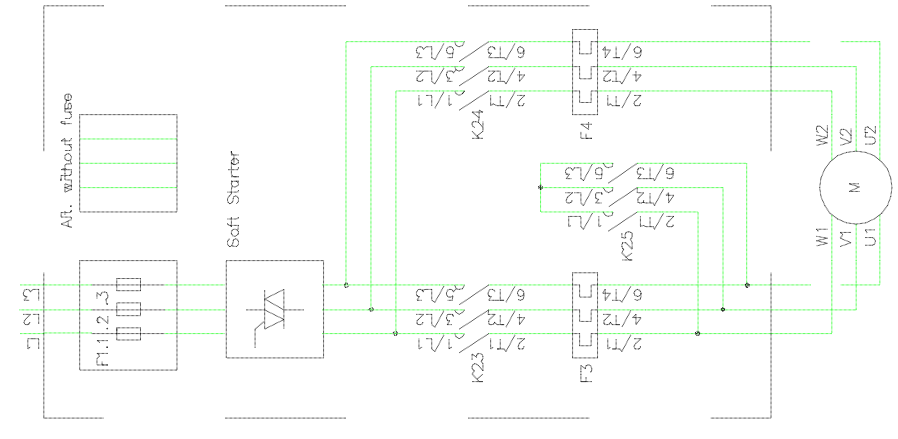
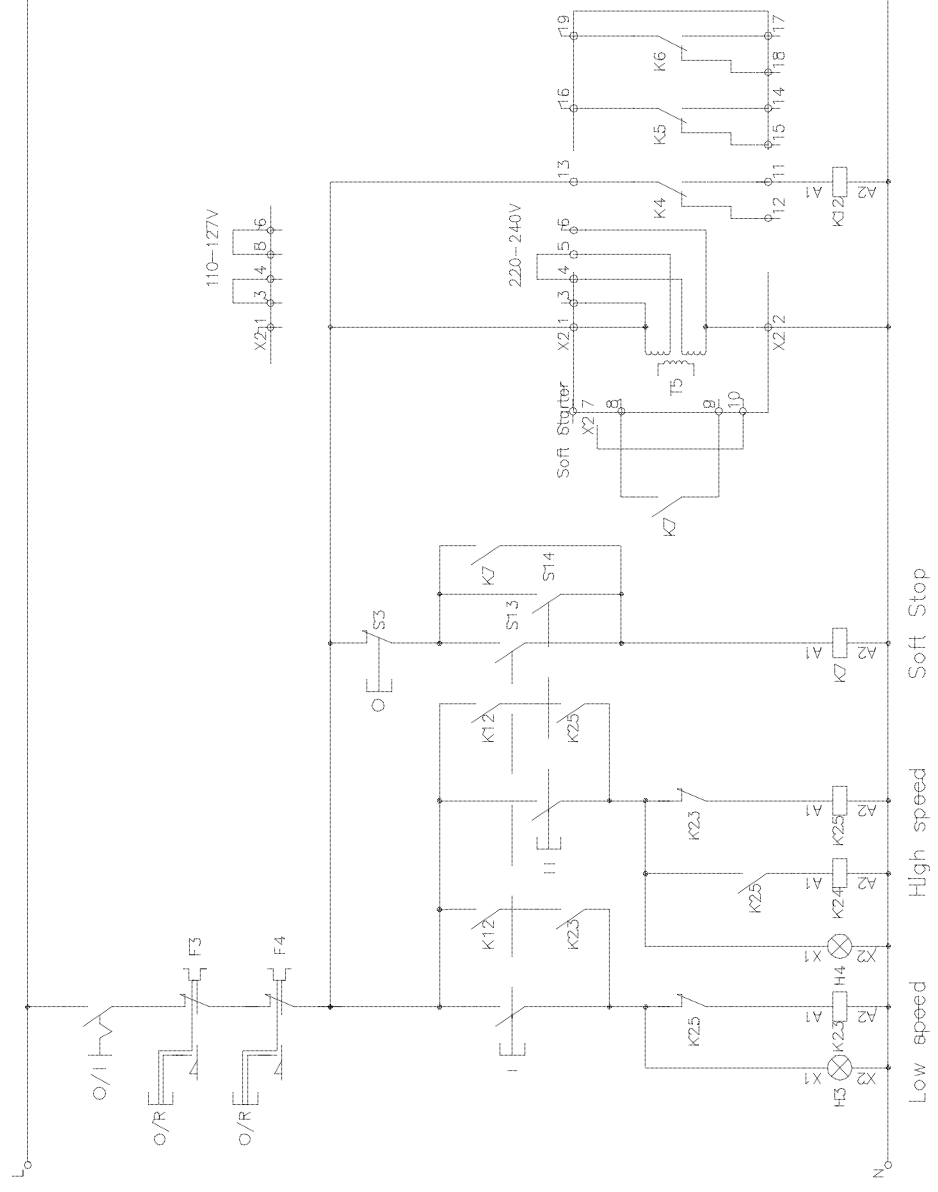


Low speed High speed Soft Stop

A105-34

Rev. int.	Appl.	Year	Week	ISSUED	82	1
				SECUR/80 06 42	5366 105-34	...
APPLICATION DIAGRAM				I Persson		
Soft Starter				I Persson		
Mjukstartare				TP		

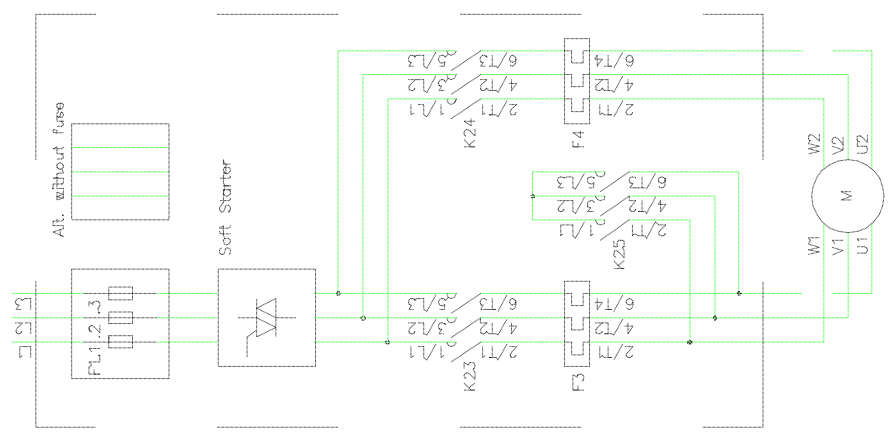
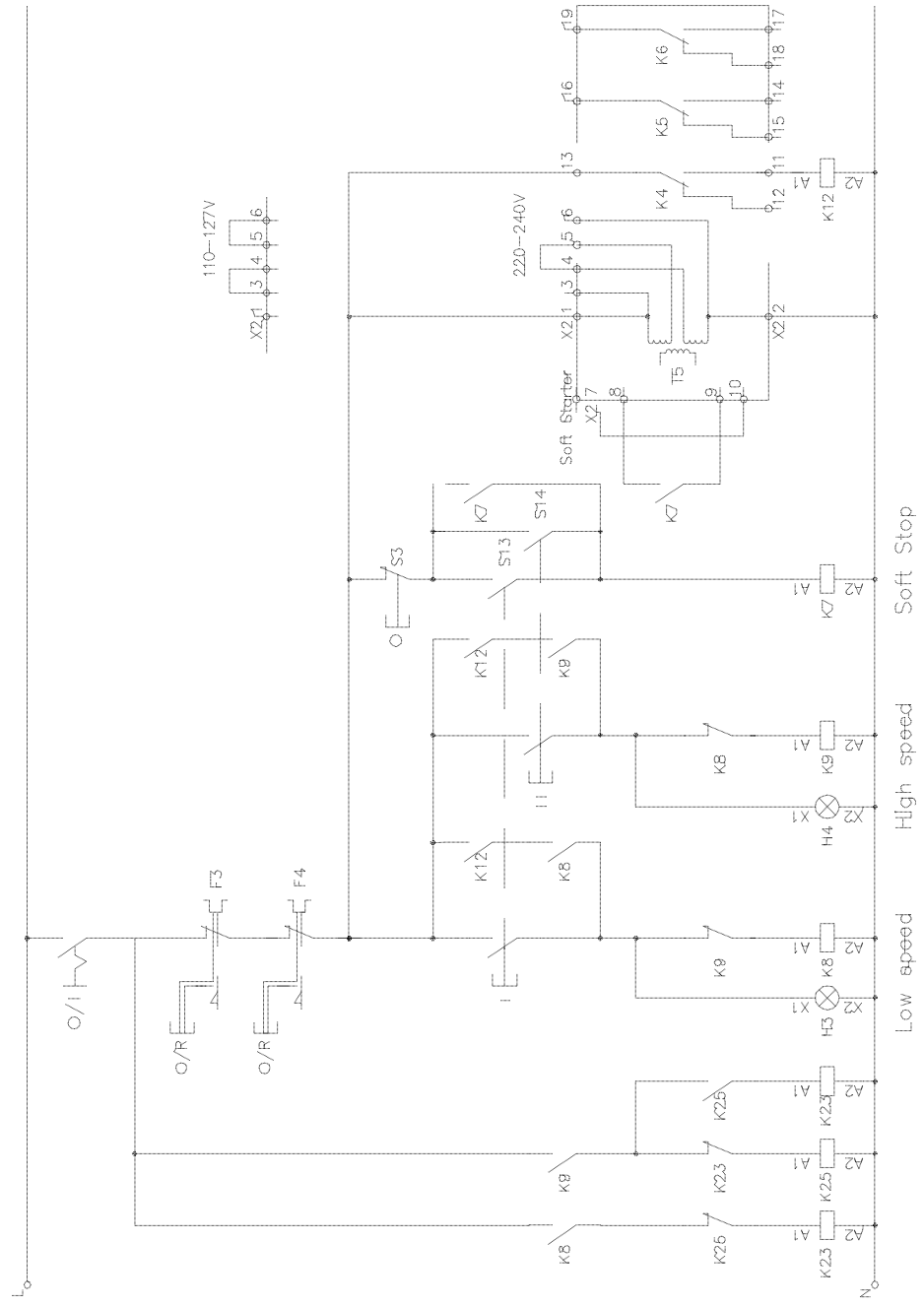
Soft Starter PS D75...300 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with one winding (Dahlander).
 If softstop is not needed set the time for softstop to 0.5.



AJ05-35

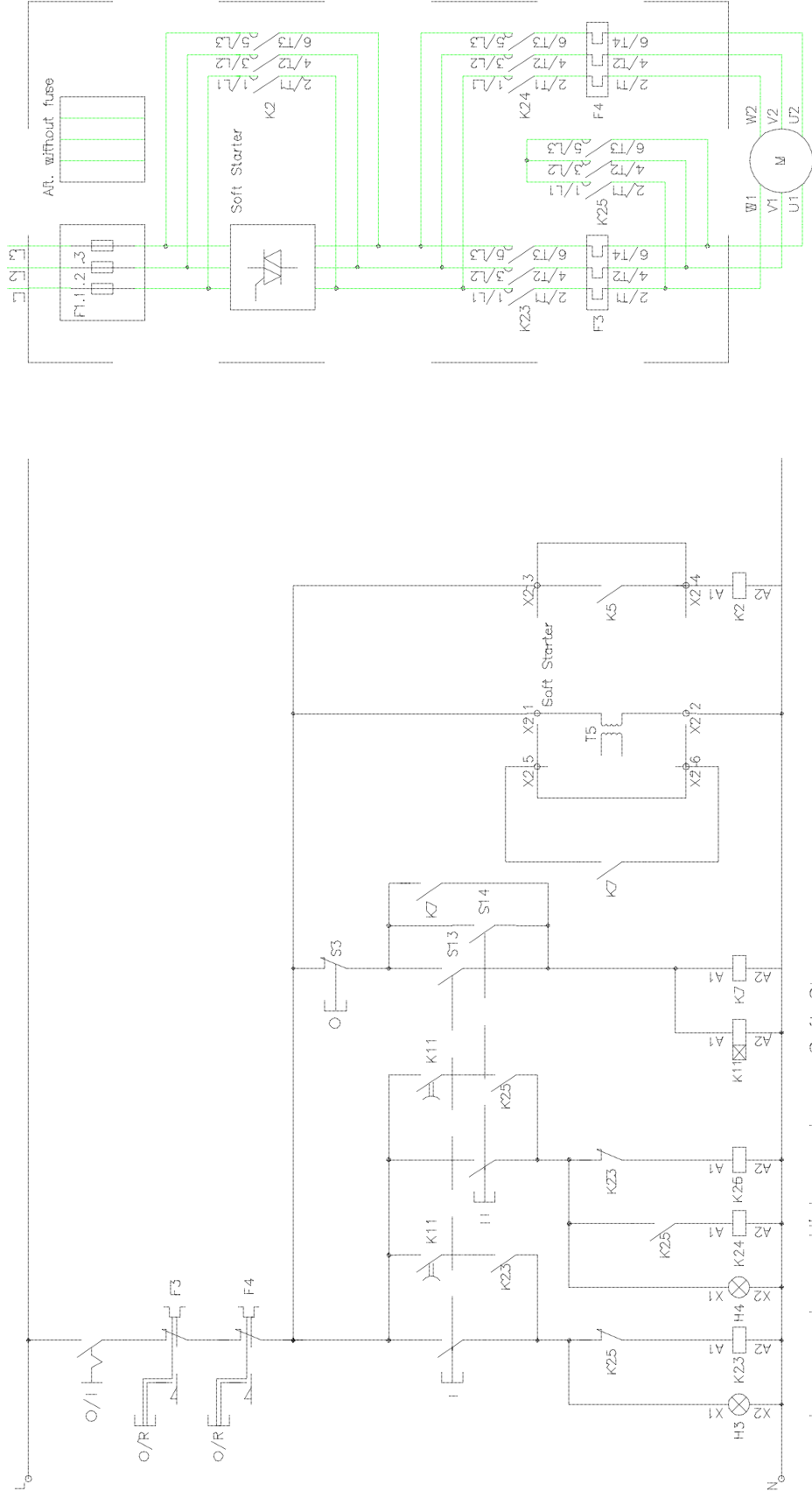
Rev. int.	Appt.	Year	Week	ISSUED	82	1
				SECUR/80 06 42	5366 105-35	...
APPLICATION DIAGRAM				Soft Starter		
I Persson				Mjukstartare		
I Persson				Mjukstartare		
IP						

Soft Starter PS D370...840 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with one winding (Dahlander).
 If softstop is not needed set the time for softstop to 0.5.



Rev. int.	Appl.	Year	Week	I. Persson	APPLICATION DIAGRAM	ISSUED	...
				I. Persson	Soft Starter	82	1
				TP	Mjukstartare	5366 105-36	...
						SECUR/80 06 42	...

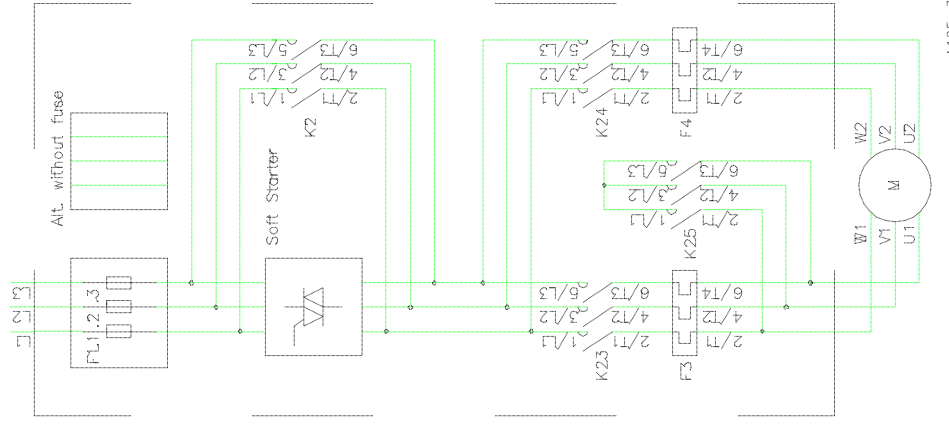
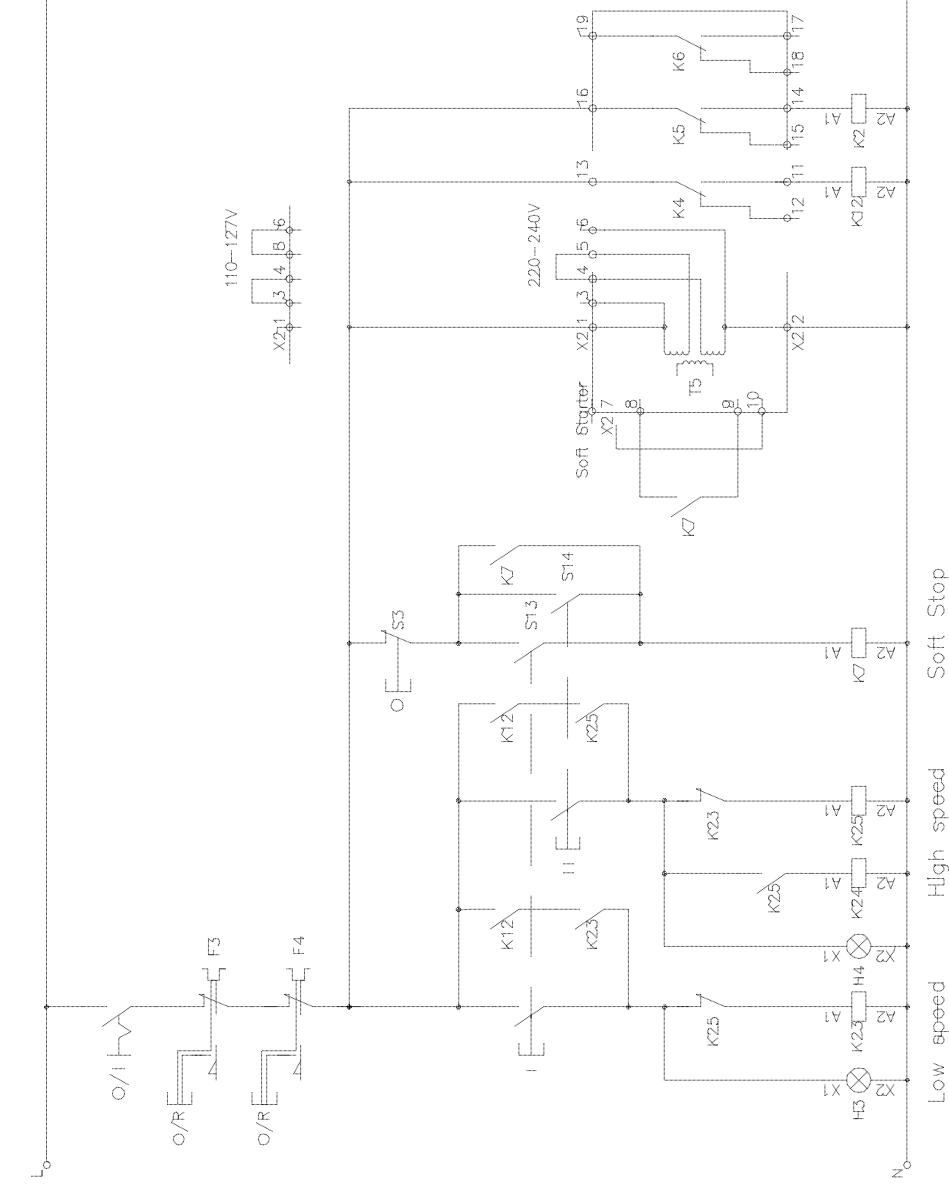
Soft Starter PS A18...60 with pole-changing, By-pass and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with one winding (Dahlander).
 If softstop is not needed set the time for softstop to 0.5.



AJ05-37

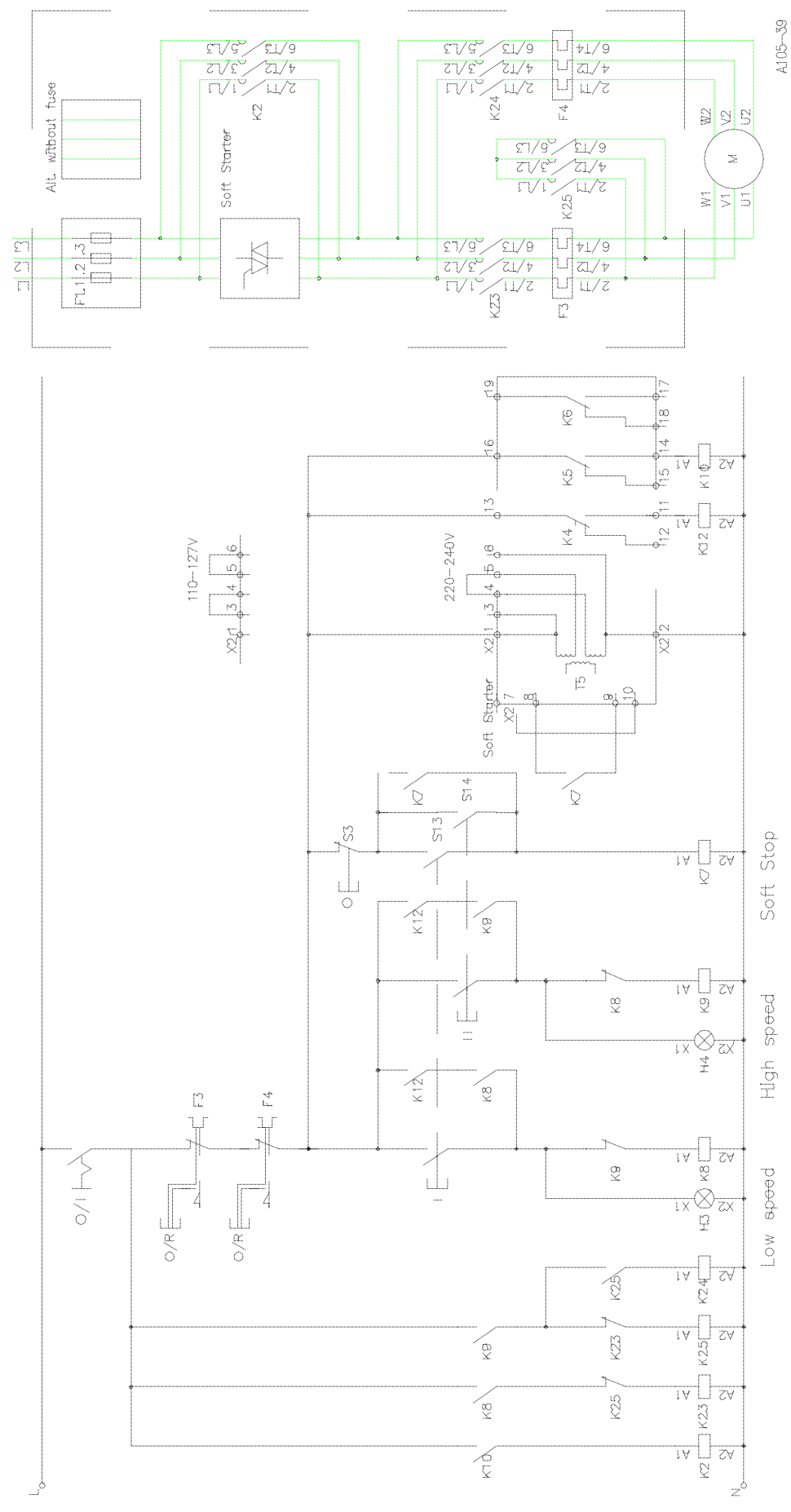
Rev. int.	Appl.	Year	Issue	5366 105-37	82	1	...
			SECUR/80 06 42	ISSUED			
APPLICATION DIAGRAM				Soft Starter Mjukstartare			
I Persson				I Persson			
I Persson				TP			

Soft Starter PS D75...300 with pole-changing, By-pass and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with one winding (Dahlander).
 If softstop is not needed set the time for softstop to 0.5.



Rev. int.	Appl.	Year	Issue	SECUR/80 06 42	ISSUED	5366 105-38	82	1	...
				APPLICATION DIAGRAM					
				I Perisosa		Soft Starter			
				I Perisosa		Mjukstartare			
				TP					

Soft Starter PS D370...840 with pole-changing and softstop.
 To be stopped before change of speed.
 Start at optional speed.
 For motor with one winding (Dahlander).
 If softstop is not needed set the time for softstop to 0.5.



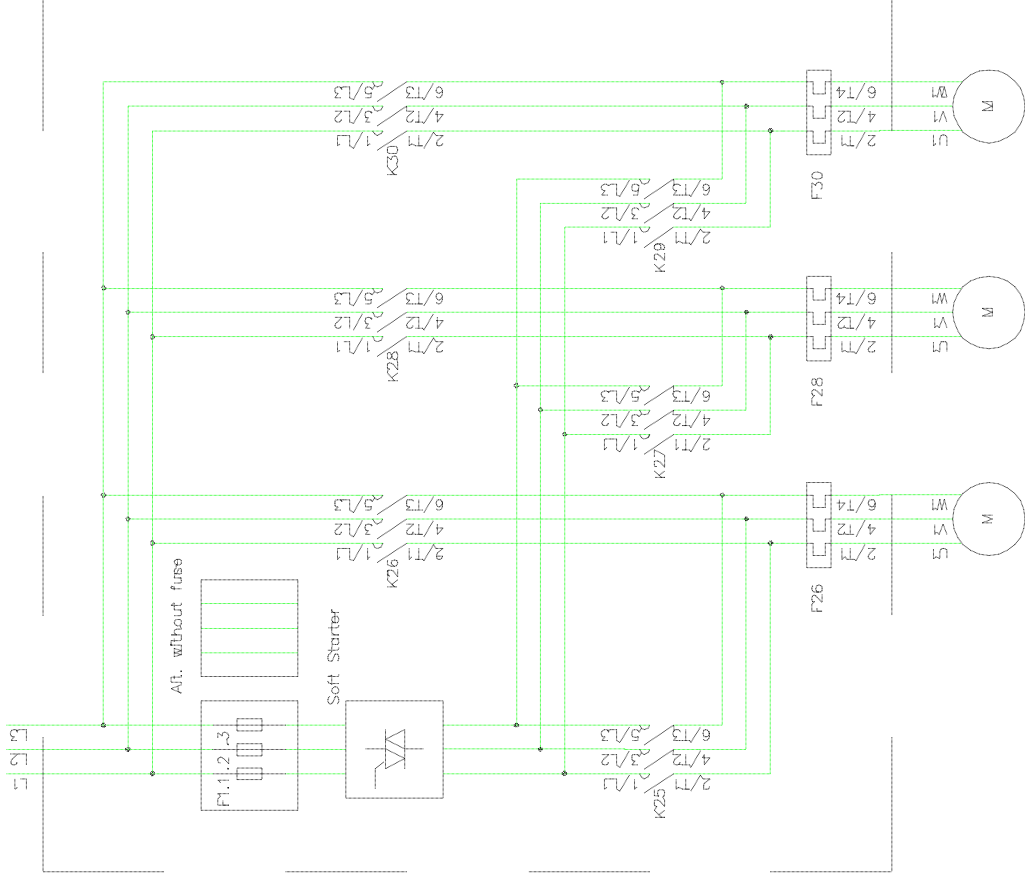
Rev. int.	Appl.	Year	Issue	SECUR/80 06 42	ISSUED	5366 105-39	82	1	...
				APPLICATION DIAGRAM					
				Soft Starter					
				Mjpkstartare					
				I Persson					
				I Persson					
				TP					

A105-39

SPECIAL APPLICATION DIAGRAM

5366 106-1	PS D75...840	Sequential start for 3 motors.
5366 106-2	PS D75...300	Start of 2 motors.

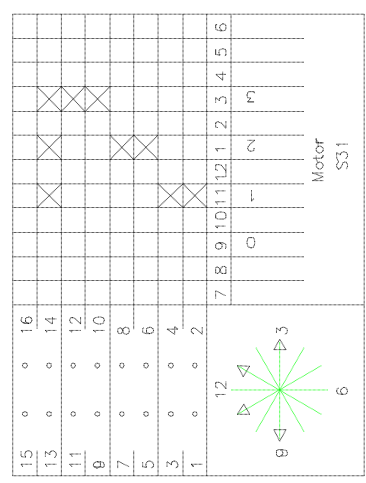
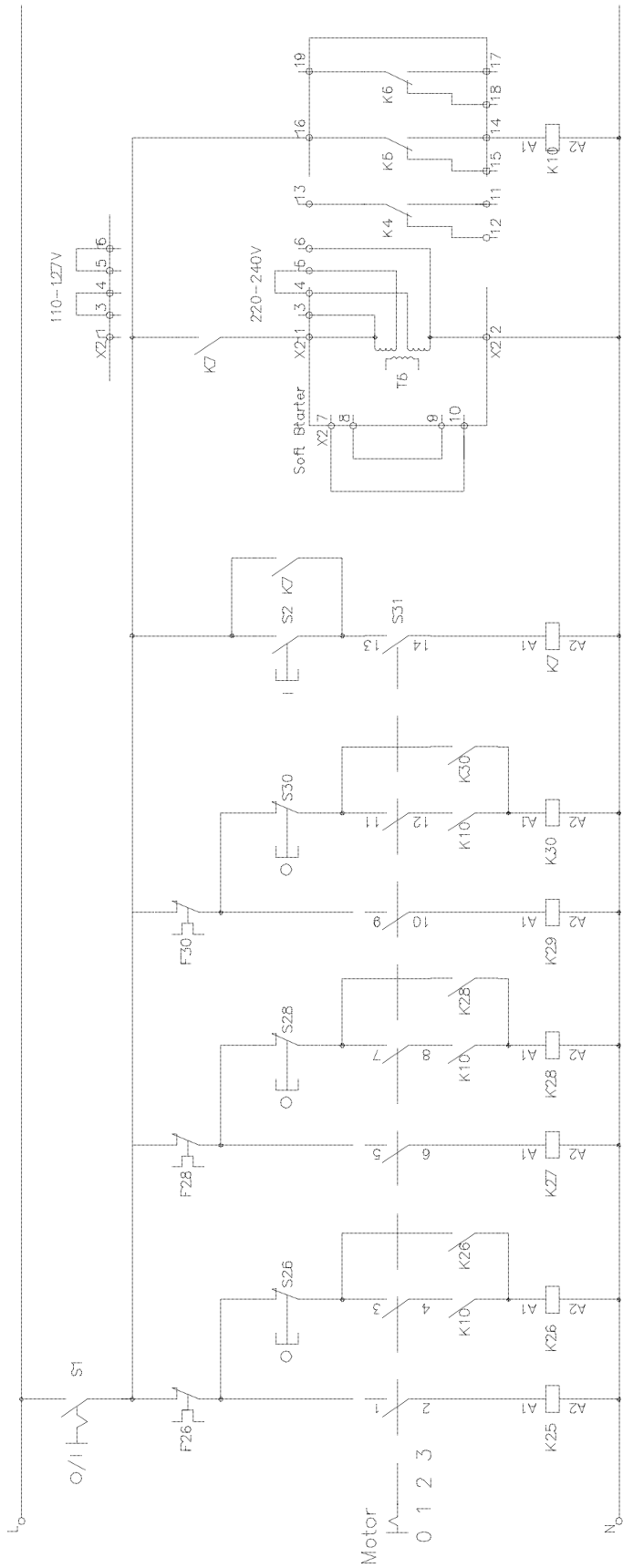
Sequential start for 3 motors.
 Soft Starter PS D75...300 with motor protection without softstop.
 Start of optional motor.



A106-1A

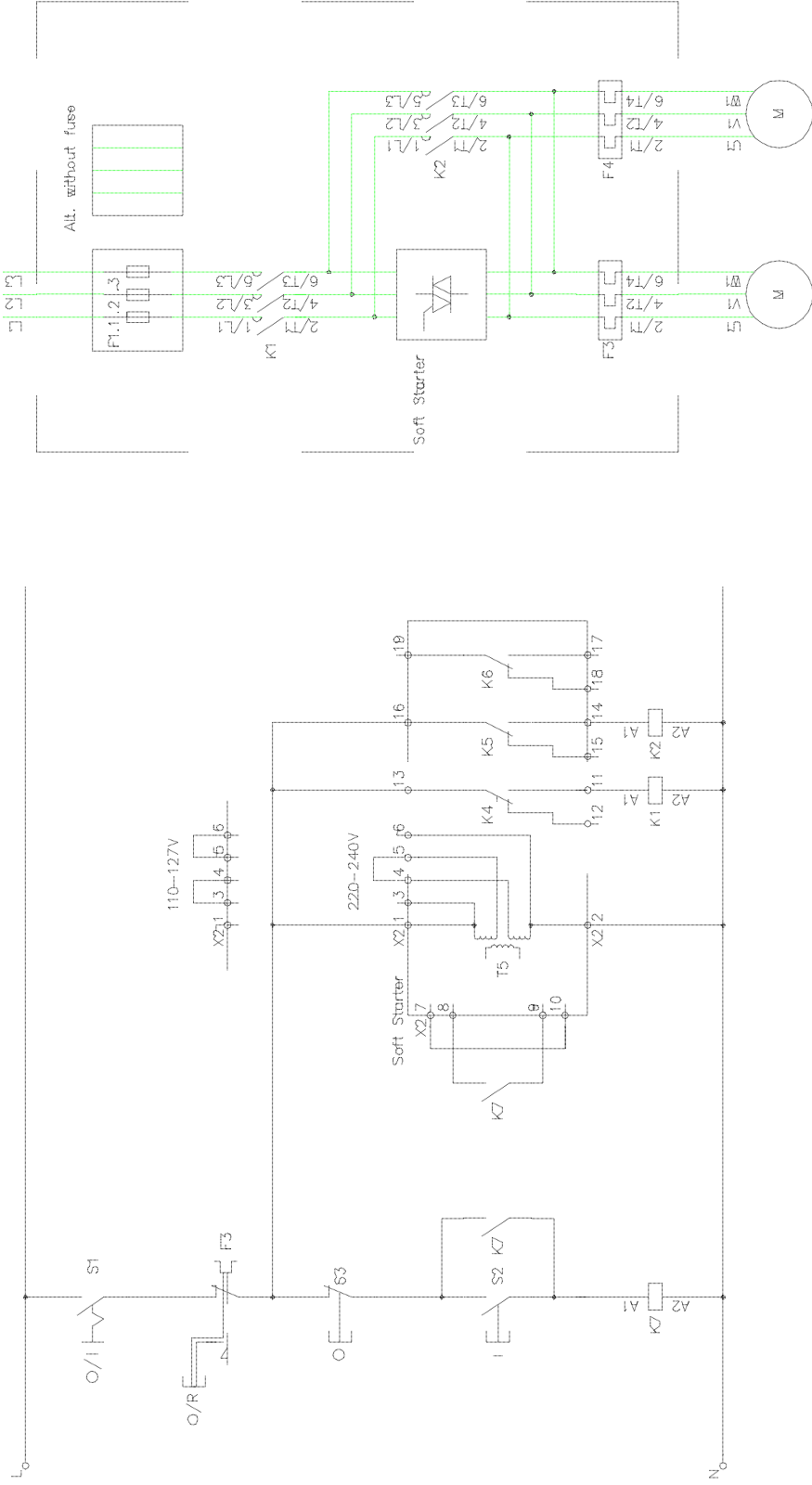
Rev. nr	Appd.	Year	Week	TP	T. Persson	APPLICATION DIAGRAM		STORL/BO 06 07	ISSUED	2	2
2	Åbsterad	TP	06	43	T. Persson	Soft Starter				82	1
1	Fusser moved.	TP	05	09	T. Persson	Mjåkastartare				5366 106--1	
					TP						

Sequential start for 3 motors.
 Soft Starter PS D75...300 with motor protection without softstop.
 Start of optional motor.



		APPLICATIOn DIAGRAM		A106-1B	
		Soft Starter		82	
		Mjapakstartare		5366 106-1	
		TP		ISSUED	
		TP		SECUR/80 06 07	
		TP		1	
		TP		2	
		Appd Year		...	
		1 Jasterad			
		TP 06 43			
		Rev. int			

Start of 2 motors.
 Soft Starter PS D75...300 with motor protection, softstart and By-pass.
 Main contactor open during pause



A106-2

APPLICATION DIAGRAM

I Persson
 Soft Starter
 Mjukstartare

SECUR/80 06 43

ISSUED

5366 106-2

82

1

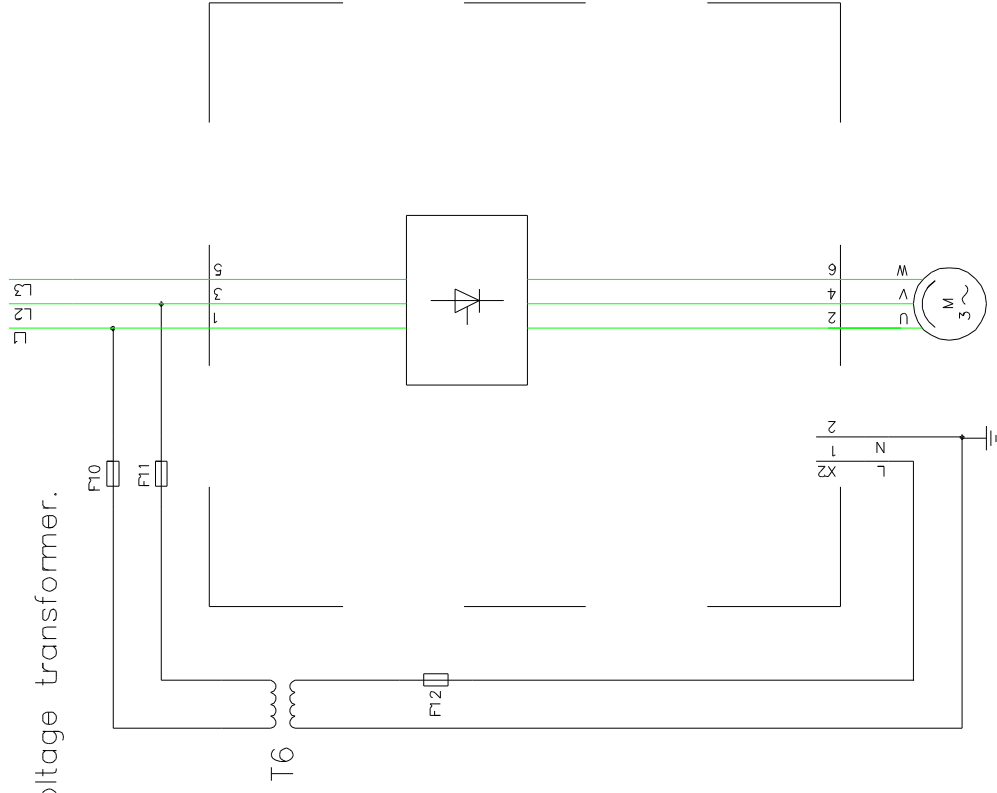
Rev. nr

Appl. Year Week

SPECIAL DIAGRAM

5366 107-1	PS A, PS D(H)	Connection of control voltage transformer.
5366 107-2	PS A, PS D(H)	Connection of control voltage between phase and neutral wire.

Connection of control voltage transformer.



A107-1

Rev	Ind	Sheet	5366 107-1	ISSUED
Rev	Ind	Sheet		
Rev	Ind	Cont		
Designed by		Diagram		
I PERSSON		SOFT STARTERS		
Drawing checked by		MADKSTARTARE		
I PERSSON		ABB Control		
Drawn by		Sec. Week		
IP		SCRL/BM 96 07		
Appd.	Year	Rev	Ind	Sheet



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TELEFAX +46 21 12 60 01

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