

FROMM

**ELS FS402/FS403 FROMM
TURNTABLE STRETCH MACHINE
ELS.1055
Version 04 machines Rev. 03**

Print date Monday, 17 January 2011/ servisia/ © 01/11

MODEL : FROMM FS 402

MODEL : FROMM FS 403

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PROGETTO
BANCA DIS.
TIPICO

KIND OF CIRCUIT	COLORS CONDUCTORS	MINIMUM SECTION	F		
			DATA	13/05/10	DESIGN/VICENTINI F.
POWER CONDUCTORS	BLACK	N07V-K/1,5mm ²			
NEUTRAL CONDUCTORS	LIGHT BLUE	N07V-K/1,5mm ²			
CONTROLS / SIGNALS ALTERNATING CURRENT	RED	N07V-K/0,5mm ²	24V AC		
CONTROLS / SIGNALS DIRECTING CURRENT	BLUE	N07V-K/0,5mm ²	24V DC		
GROUND CONDUCTORS	YELLOW-GREEN	N07V-K/1,5mm ²			
			DATA	13/05/10	DESIGN/VICENTINI F.
			VISTO		
			APPR.		
			FIRMA		
			DATA		
			MODIFICA		

FROMM

SOST. IL : 3 SOST. DA : 4

FILE ELS.1055.dwg

TENSIONE POWER SUPPLY	230V-50/60Hz
POTENZA INSTALLATA INSTALLED POWER	1,8kW
CORRENTE CURRENT	8A
FROMM ITALIANA S.R.L. Caprino Veronese (VR) ITALY	

FROMM

ELS.1055

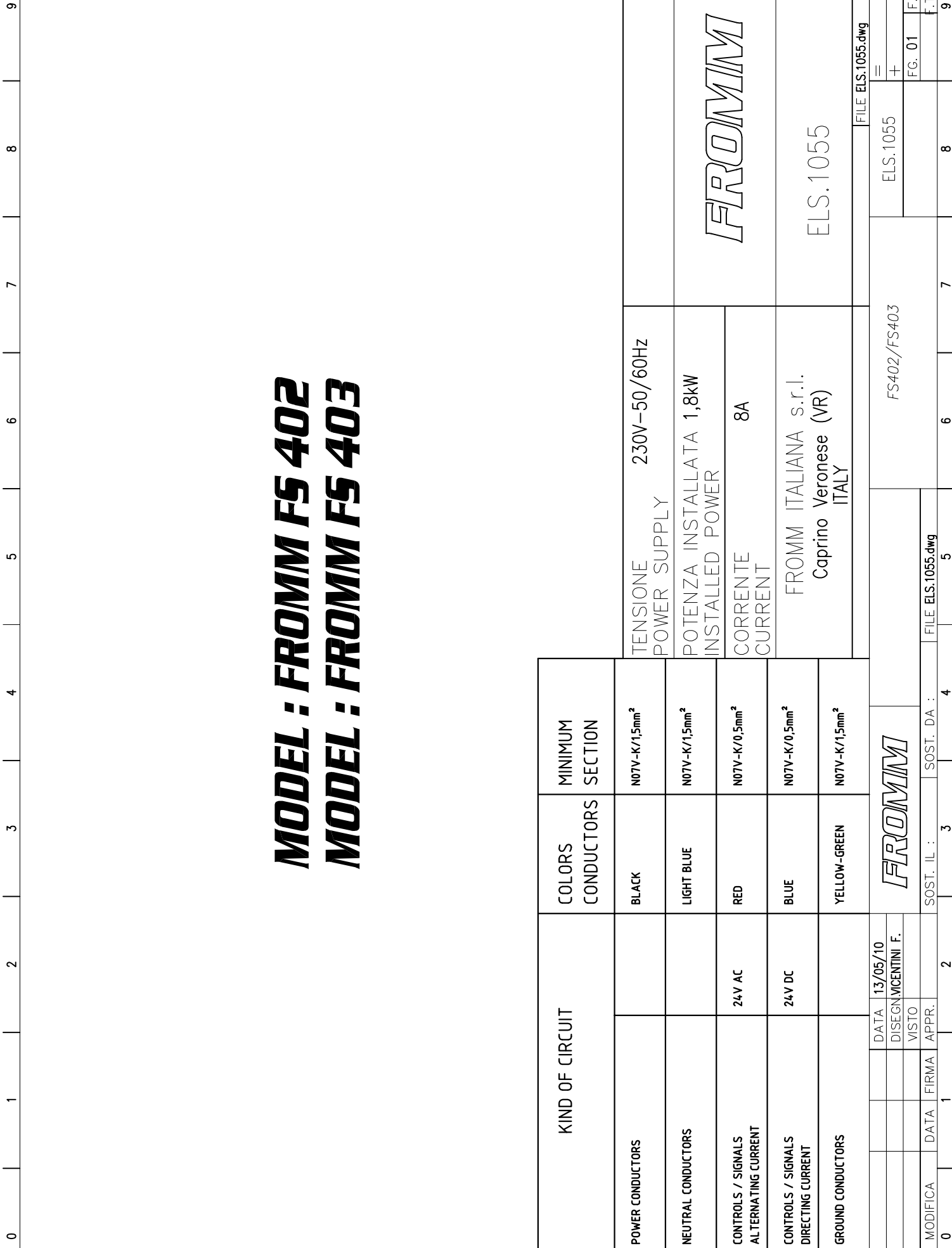
FS402/FS403

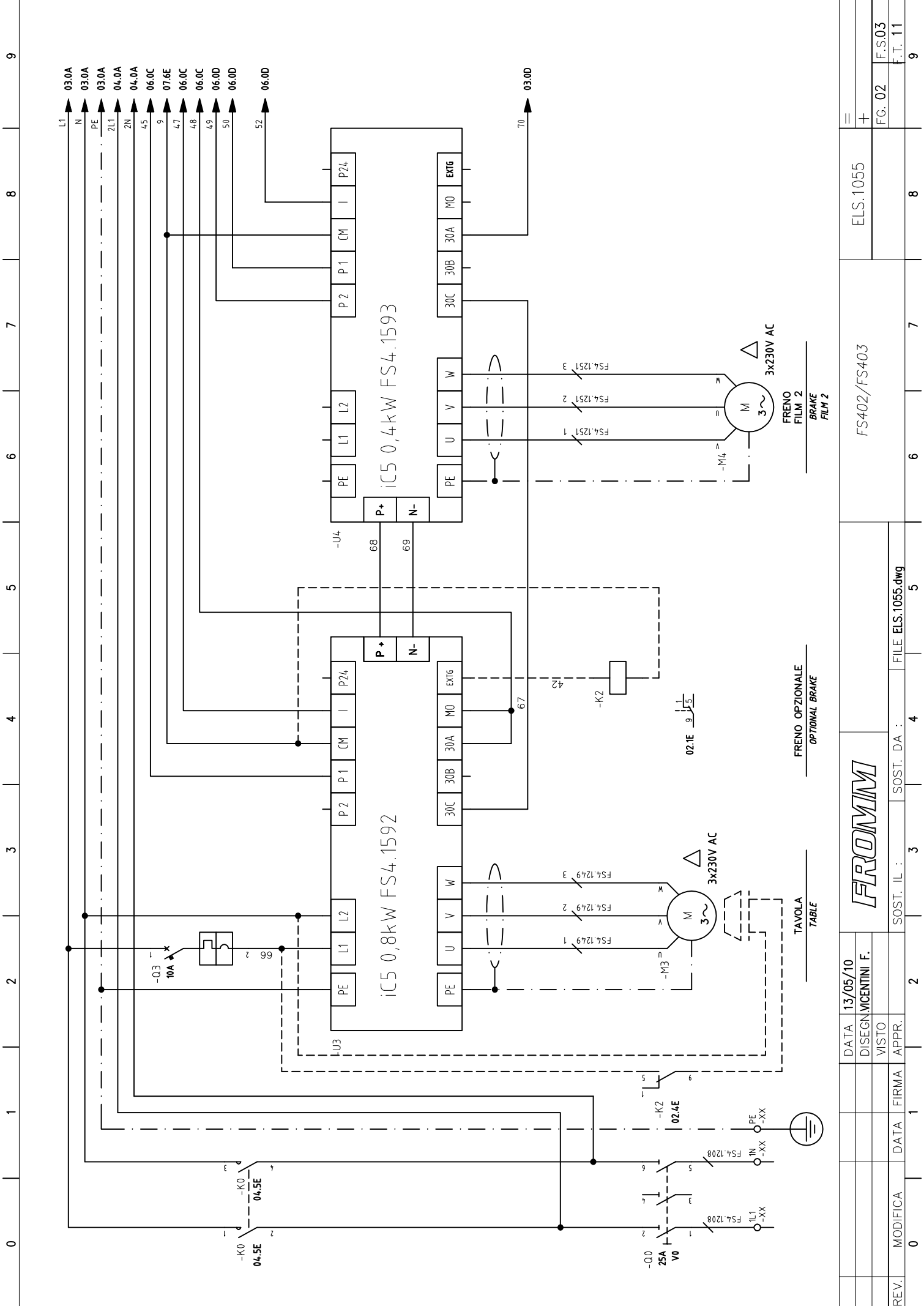
ELS.1055

FC. 01 F.S.02
T.F. 11 F.T. 11

FILE ELS.1055.dwg

FOGLIO
1
T.F. 11





TAVOLA

FRENTO OPZIONALE
OPTIONAL BRAKE

FRENTO FILM 2
BRAKE FILM 2

DATA 13/05/10
DISEGN. VICENTINI F.

FROMM

FS402/FS403

ELS.1055

REV. MODIFICA DATA FIRMA APPR.

SOST. IL : SOST. DA : FILE ELS.1055.dwg

FC. 02 F.S.03
F.T. 11

0 1 2 3 4 5 6 7 8 9

A B C D E F

03.0A 03.0A 03.0A 04.0A 04.0A 06.0C 07.6E 06.0C 06.0C 06.0D 06.0D 06.0D 03.0D

L1 N PE 2L1 2N 45 9 47 48 49 50 52 70

PE L1 L2 P+ N- P1 P2 CM I P24 30C 30B 30A MO EXTG U V W -M4

FS4.1251 1 FS4.1251 2 FS4.1251 3

FS4.1249 1 FS4.1249 2 FS4.1249 3

02.1E 02.4E

04.5E -K0 -K0

04.5E -Q3 10A

04.5E -Q0 25A

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

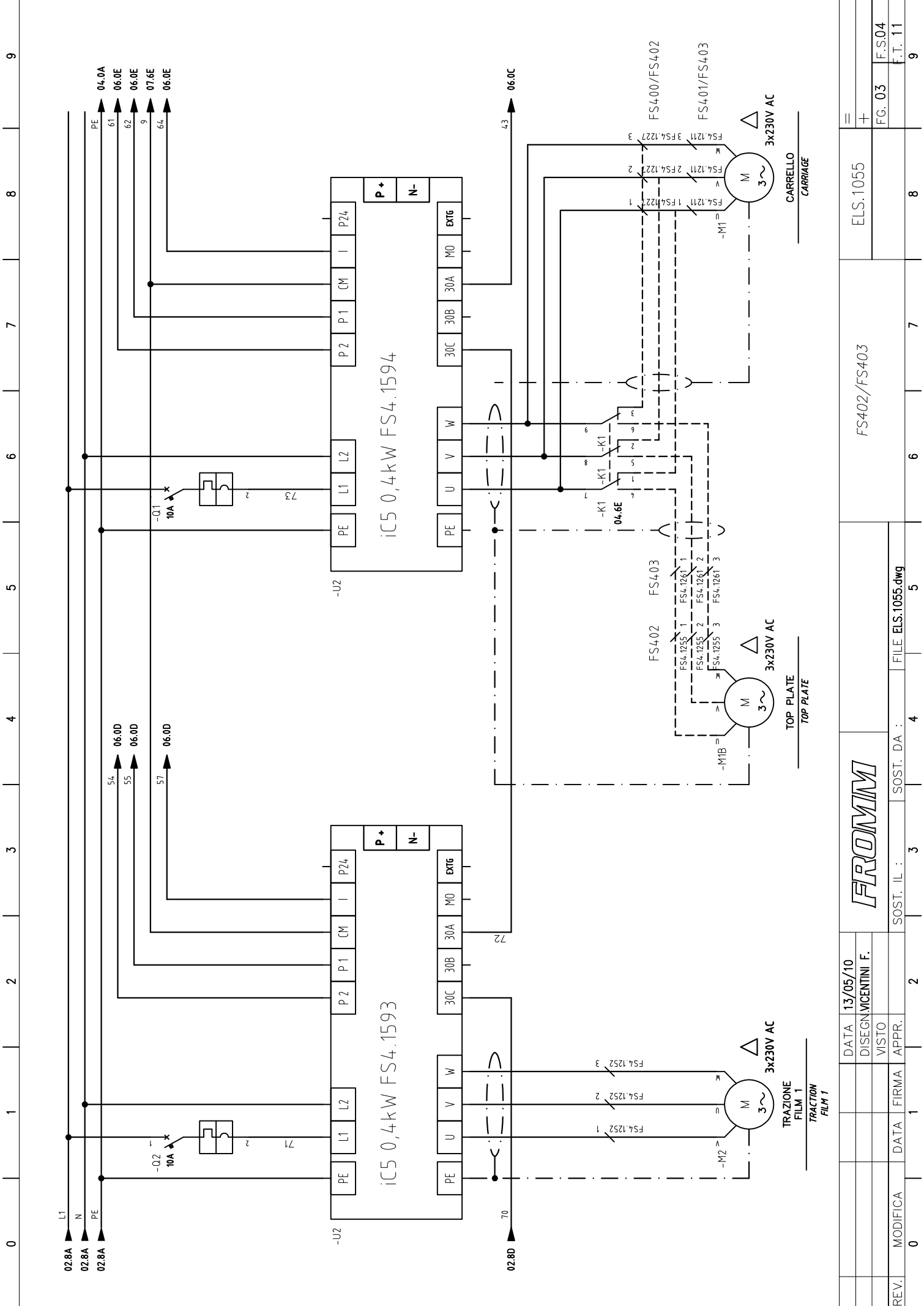
02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E

02.1E 02.4E



FROMM

FS402/FS403

ELS.1055

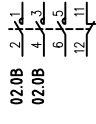
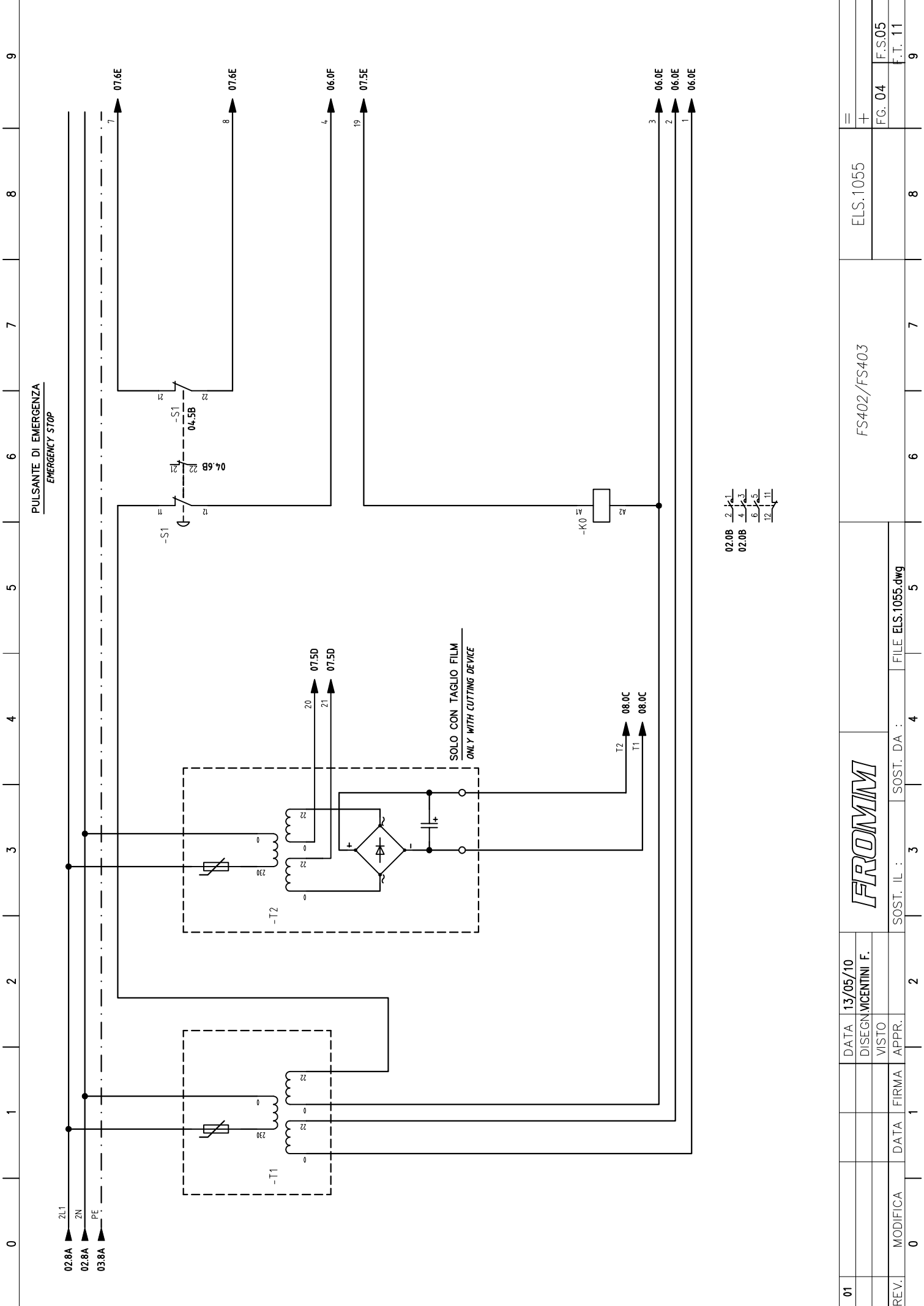
REV.	MODIFICA	DATA	FIRMA	APPR.
0				
SOST. IL :		3	SOST. DA :	
FILE ELS.1055.dwg		5		
FC. 03		F.S.04	F.T. 11	
		8	9	

DATA 13/05/10
DISEGN. VICENTINI F.

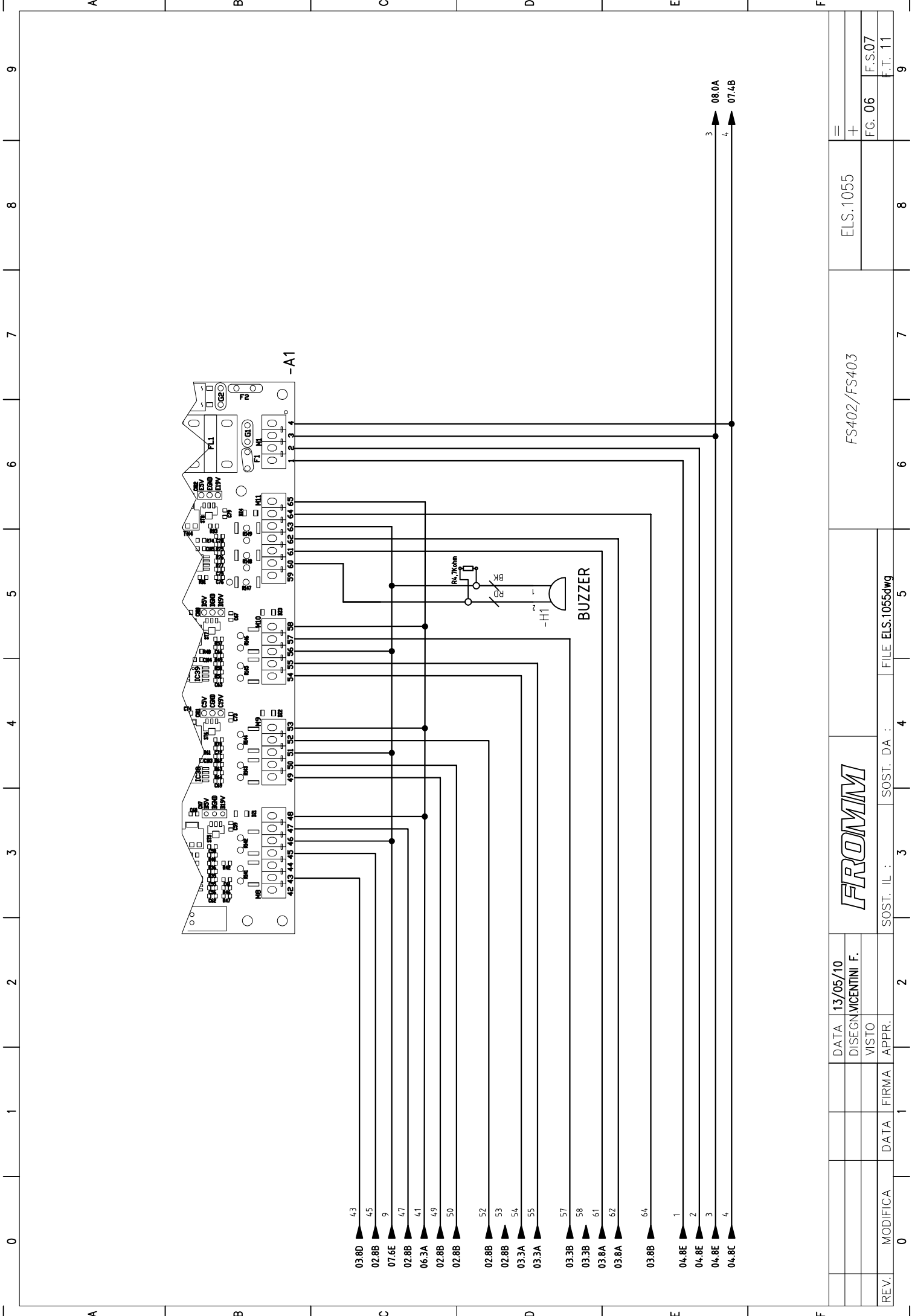
VISTO

TRAZIONE FILM 1

TRAZIONE FILM 2



01	DATA	13/05/10			ELS.1055		
	DISEGN	VICENTINI F.			FS402/FS403		
	VISTO						
REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL :	SOST. DA :	FILE ELS.1055.dwg
0					3	4	5
					6	7	8
					9		



REV.	MODIFICA	DATA	FIRMA	APPR.
0				

SOST. IL :		3
SOST. DA :		4
FILE ELS.1055dwg		

FROMMINI		
FS402/FS403		
ELS.1055		

DATA	13/05/10
DISIGN	VICENTINI F.
VISTO	
APPR.	

FC: 06	F.S.07
F.T. 11	

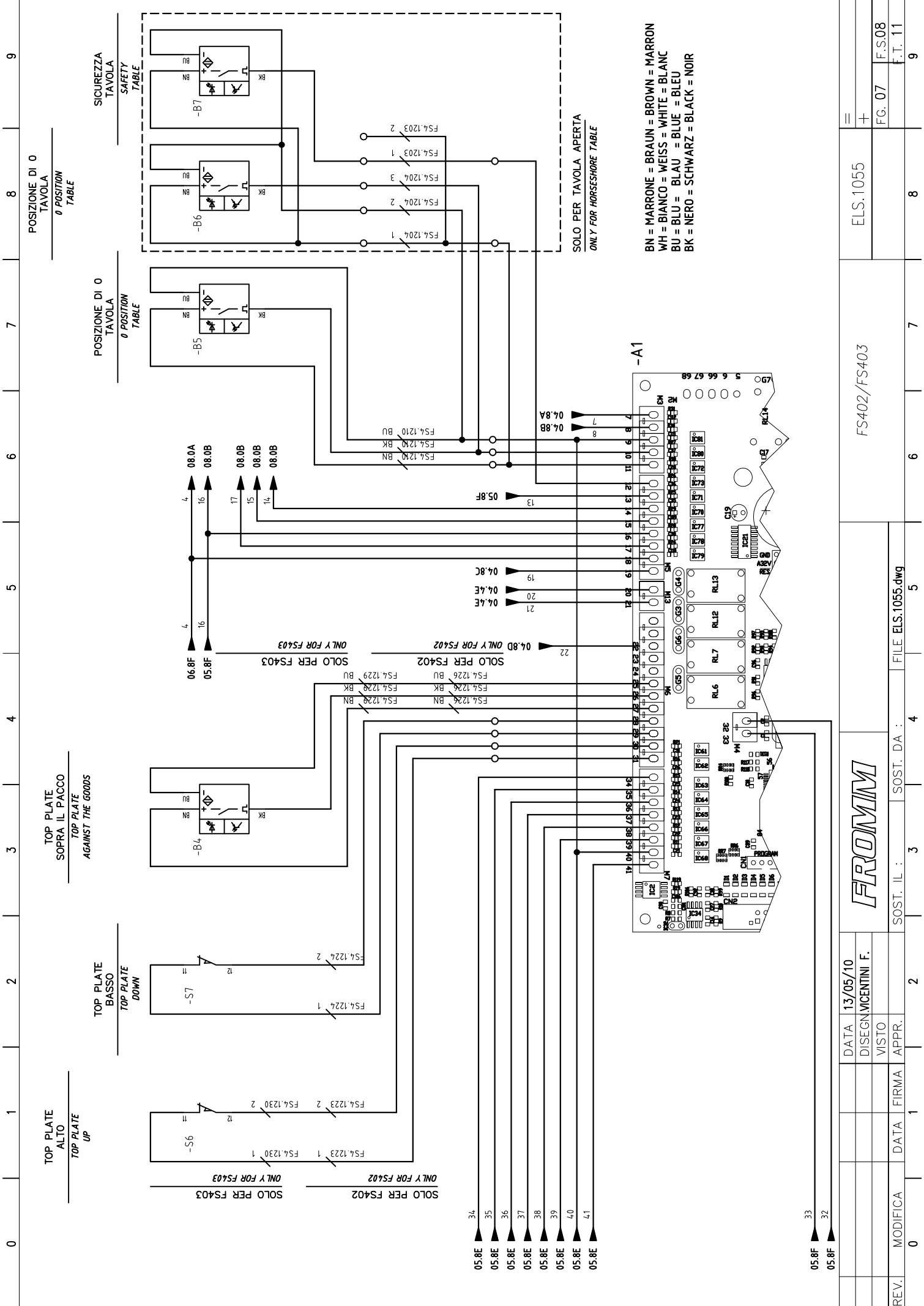
SOST. IL :		3
SOST. DA :		4
FILE ELS.1055dwg		

FROMMINI		
FS402/FS403		
ELS.1055		

REV.	MODIFICA	DATA	FIRMA	APPR.
0				

SOST. IL :		3
SOST. DA :		4
FILE ELS.1055dwg		

FC: 06	F.S.07
F.T. 11	



FROMM

DATA 13/05/10
 DISEGNVINCENTINI F.
 VISTO
 FIRMA APPR.

REV.	MODIFICA	DATA	FIRMA	APPR.
0				

SOST. IL : 3 SOST. DA : 4 FILE ELS.1055.dwg

FS402/FS403

ELS.1055

FC. 07	F.S.08
F.T. 11	

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

A

B

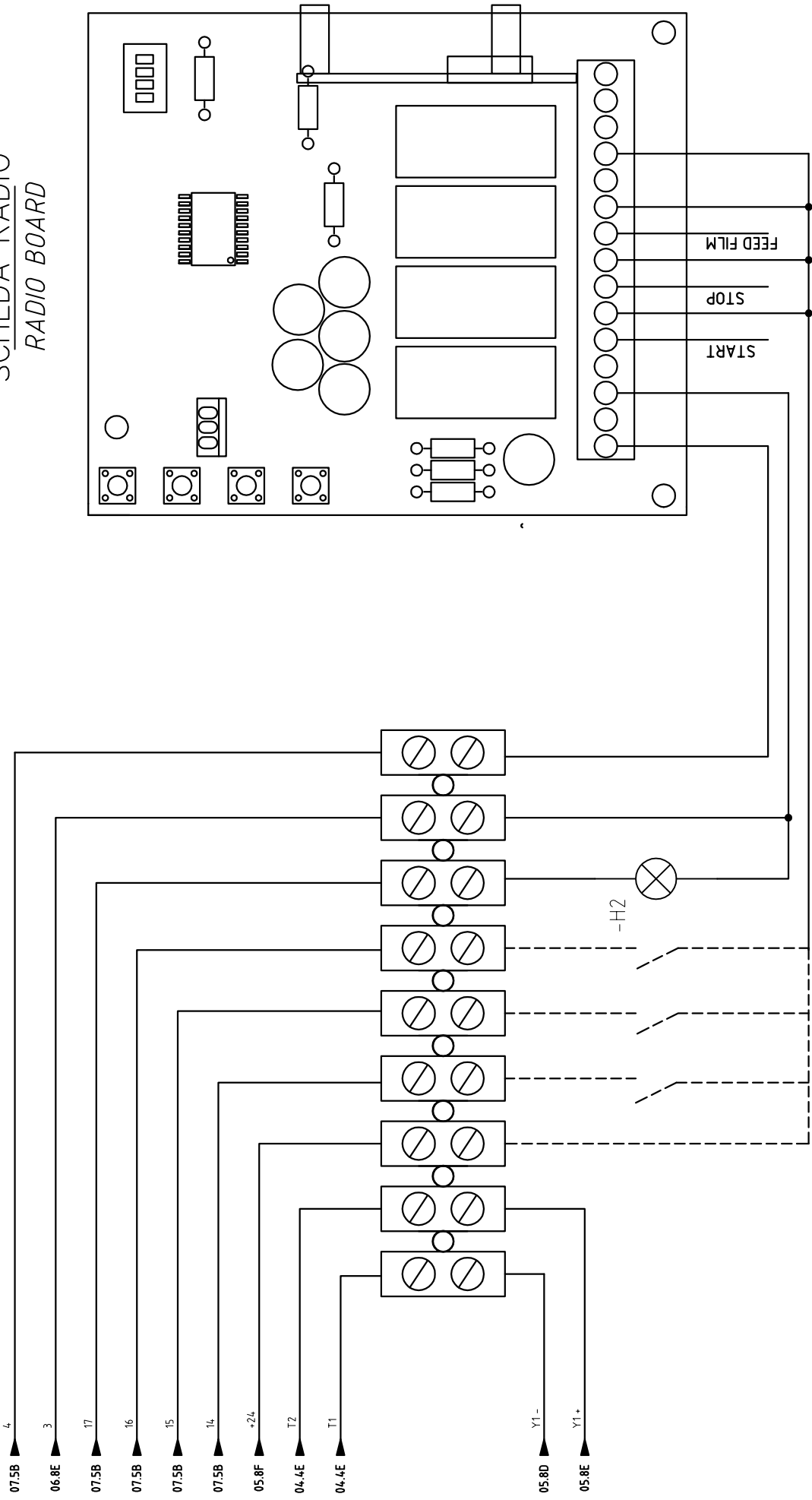
C

D

E

F

SCHEDA RADIO RADIO BOARD



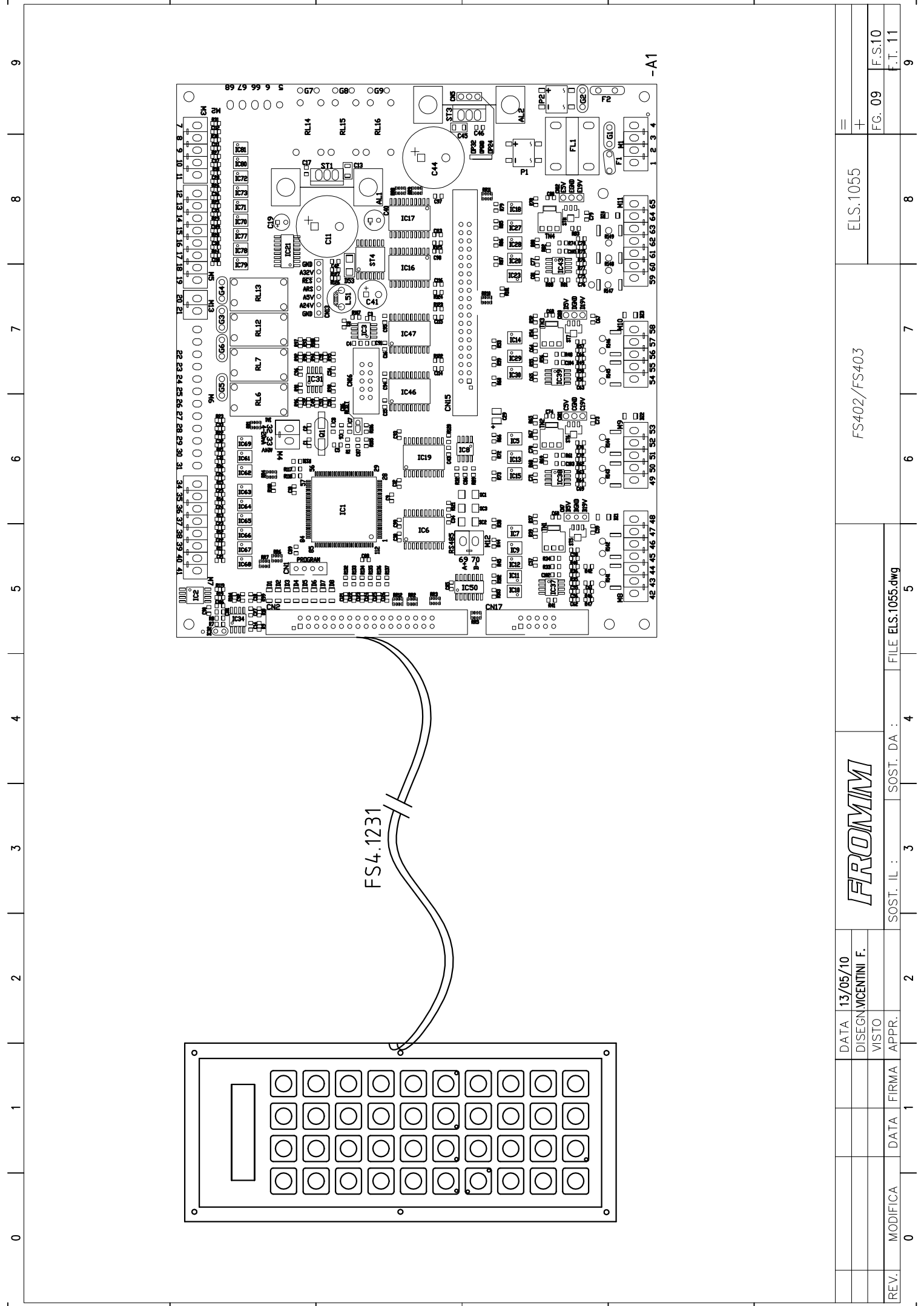
+24V DC STOP ERROR LIGHT
24V AC - 5VA MAX

START FEED FILM

REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL :	SOST. DA :	FILE ELS.1055.dwg	FS402/FS403	ELS.1055	
		13/05/10								
		DISEGN	VICENTINI F.							
		VISTO								

FC. 08 F.S.09
F.T. 11

9



DATA 13/05/10
 DISEGNI VICENTINI F.

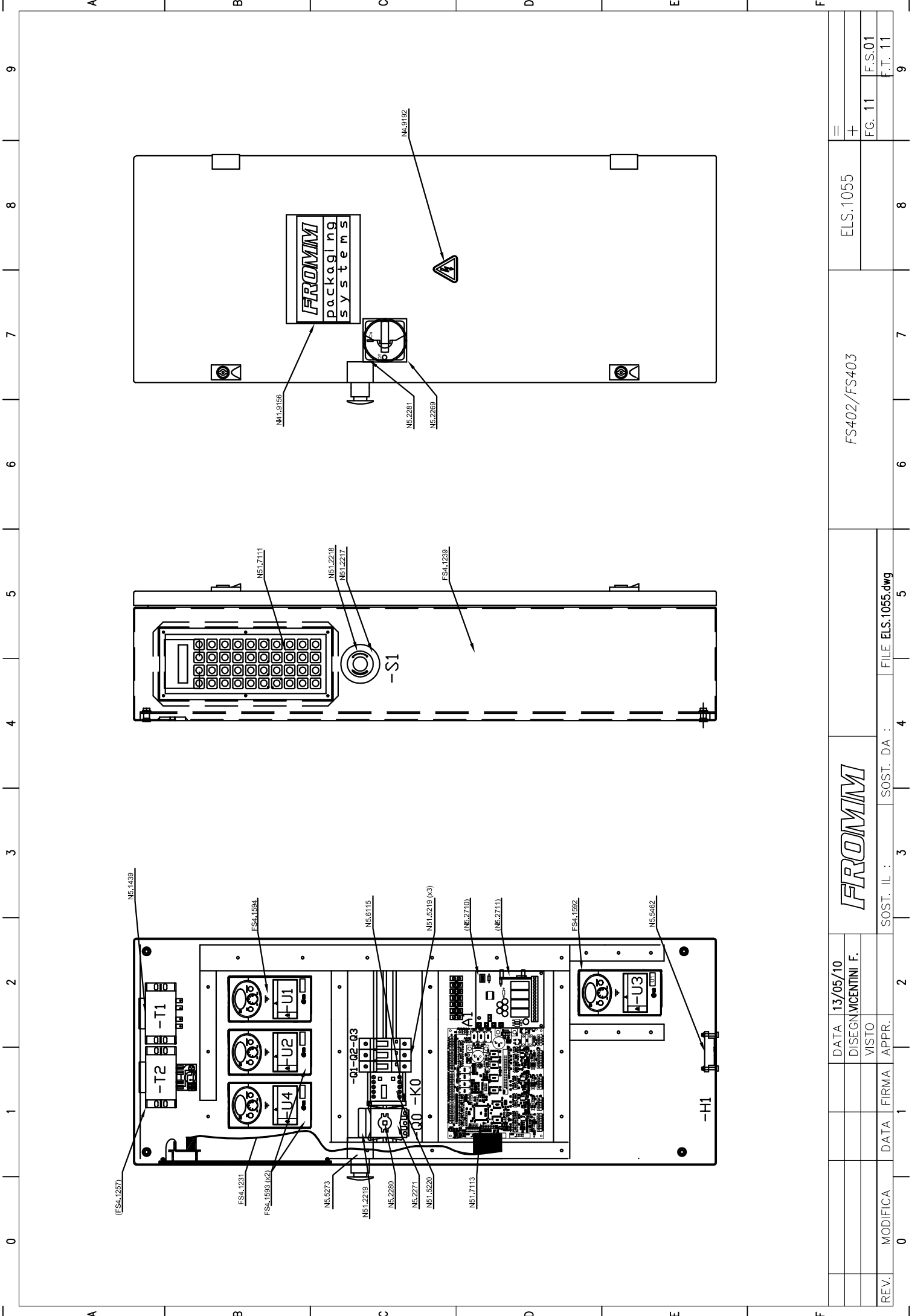
REV. MODIFICA DATA FIRMA APPR.

0	1	2	3	4	5	6	7	8	9
					FILE ELS.1055.dwg				

ELLS.1055

FS402/FS403

FC. 09
 F.T. 11



FROMM

FS402/FS403

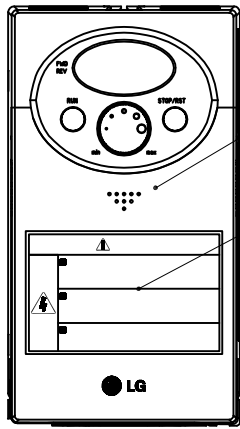
ELS.1055

REV.	MODIFICA	DATA	FIRMA	APPR.
0				

DATA	13/05/10
DISEGN	VICENTINI F.
VISTO	
SOST. IL :	FILE ELS.1055.dwg
SOST. DA :	

FC. 11	F.S.01
F.T. 11	

Aenderungen:
Modifiche:



1

2 PARAMETER LIST

-----[DRV]-----

Acc	3.0	sec	Acceleration time 0
Dec	3.0	sec	Deceleration time 0
Frq	4		Freq. Setting mode

-----[FU1]-----

F8	0.10	Hz	DC Brake start frequency
F9	0.0	sec	DC Brake wait time
F10	80	%	DC Brake voltage
F11	0.5	sec	DC Brake time
F14	0.1	sec	Motor Magnetizing time
F21	65.00	Hz	Maximum Frequency
F22	50.00	Hz	Base Frequency
F23	0.10	Hz	Start Frequency
F25	65.00	Hz	Frequency high limit
F27	1		Man/Auto Torque select
F50	1		Electronic thermal select

-----[FU2]-----

H33	3.4	A	Motor rated current
H34	1.7	A	No load motor current
H40	3		Control mode

-----[I0]-----

I12	0.00	mA	I input minimum current
I15	65.00	Hz	Frequency related to I14
I55	16		30-A/B/C output working

1	PROGRAMMING FILE	2	PARAMETER LIST			
	INVERTER TABLE	1	LS INDUSTRIAL SYSTEMS		N5.5475	SV08-iC5-1F

Gebrauch Zchg.
Usa del disegno

Stueckzahl Numero pezzi	Gegenstand Oggetto	Pos.	Werkstoff Materiale	Gewicht/Stueck Peso/Pezzo	Bestandt. Nr. Elemento Nr.	Bemerkungen Osservazioni
Rubrik Rubrica			kg.			

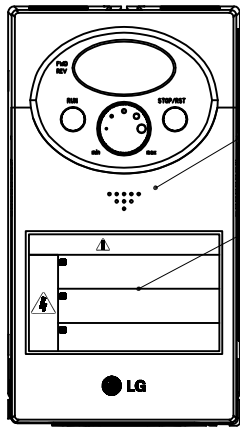
Freimass-Toleranzen/Tolleranze della misure libere

Aenderungen: Modifiche:	⊙		Keine Nessuna Stueckliste separat Lista pezzi separata	Ersetzt durch Sostituito da Ersatz fuer Sostituisce
Typ: Tipo:	U3		Massstab Scala	Gezeichnet Disegnato
INVERTER MOTOR TABLE FS400			1:1	VICENTINI
			Gesehen Visto	13-05-2010

FROMM

FS4.1592

Aenderungen:
 Modifiche:
 (a)
 Change the parameters:
 I13 from 1.0 to 0.1
 ACC from 0.1 to 0.0
 DEC from 0.1 to 0.0
 F14 from 0.1 to 0.0



1
 2 PARAMETER LIST

-----[DRV]-----

Acc 0.0 sec Acceleration time 0
 Dec 0.0 sec Deceleration time 0
 Frq 4 Freq. Setting mode

-----[FU1]-----

F8 3.00 Hz DC Brake start frequency
 F9 0.0 sec DC Brake wait time
 F11 0.1 sec DC Brake time
 F12 90 % DC Brake start voltage
 F14 0.0 sec Motor Magnetizing time
 F21 72.00 Hz Maximum Frequency
 F22 50.00 Hz Base Frequency
 F23 0.10 Hz Start Frequency
 F27 1 Man/Auto Torque select
 F50 1 Electronic thermal select

-----[FU2]-----

H33 2.1 A Motor rated current
 H40 3 Control mode
 H41 1 Auto tuning

-----[IO]-----

I12 0.00 mA I input minimum current
 I13 0.1 Hz Frequency related to I12
 I15 72.00 Hz Frequency related to I14
 I21 11 Multifunction input P2
 I55 16 30-A/B/C output working

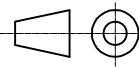
1	FILE DI PROGRAMMAZIONE	2	PARAMETER LIST			
	INVERTER TABLE	1	LS INDUSTRIAL SYSTEMS		N51.5427	SV04-iC5-1F

Gebrauch Zchg.
 Uso del disegno

Stueckzahl Numero pezzi	Gegenstand Oggetto	Pos.	Werkstoff Materiale	Gewicht/Stueck Peso/Pezzo	Bestandt. Nr. Elemento Nr.	Bemerkungen Osservazioni
----------------------------	-----------------------	------	------------------------	------------------------------	-------------------------------	-----------------------------

Freimass-Toleranzen/tolleranze della misure libere

Aenderungen:
 Modifiche: (a)



Keine
 Nessuna
 Stueckliste
 separat
 Lista pezzi
 separata

Ersetzt durch
 Sostituito da
 Ersatz fuer
 Sostituisce

Typ:
 Tipo:

U2-U4

Massstab
 Scala
 1:1

Gezeichnet
 Disegnato VICENTINI 13-05-2010

Geprueft
 Controllato **Servisi** 18-01-2010

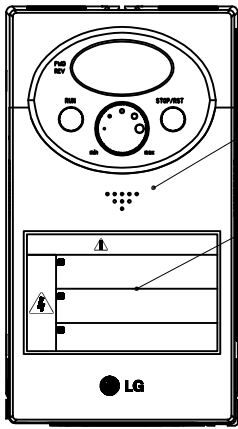
INVERTER FILM FS400

Gesehen
 Visto

FROMMM

FS4.1593

Aenderungen:
Modifiche:



1

2 PARAMETER LIST

-----[DRV]-----

Acc	0.2	sec	Acceleration time 0
Dec	0.2	sec	Deceleration time 0
Frq	4		Freq. Setting mode

-----[FU1]-----

F8	0.50	Hz	DC Brake start frequency
F10	80	%	DC Brake voltage
F11	0.1	sec	DC Brake time
F14	0.1	sec	Motor Magnetizing time
F22	50.00	Hz	Base Frequency
F23	0.10	Hz	Start Frequency
F27	1		Man/Auto Torque select
F50	1		Electronic thermal select

-----[FU2]-----

H33	1.9	A	Motor rated current
H40	3		Control mode
H41	1		Auto tuning

-----[IO]-----

I12	0.00	mA	I input minimum current
I55	16		30-A/B/C output working

1	PROGRAMMING FILE	2	PARAMETER LIST			
	INVERTER TABLE	1	LS INDUSTRIAL SYSTEMS		N51.5427	SV04-iC5-1F

Gebrauch Zchg.
Usò del disegno

Stueckzahl Numero pezzi Rubrik Rubrica	Gegenstand Oggetto	Pos.	Werkstoff Materiale	Gewicht/Stueck Peso/Pezzo	Bestandt. Nr. Elemento Nr.	Bemerkungen Osservazioni
	Aenderungen: Modifiche:			Keine Nessuna Stueckliste separat Lista pezzi separata	Ersetzt durch Sostituito da Ersatz fuer Sostituisce	
Freimass-Toleranzen/Tolleranze della misure libere	Typ: Tipo:	U 1		Massstab Scala	Gezeichnet Disegnato	VICENTINI/ 13-05-2010
	INVERTER CARRIAGE FS400			1:1	Geprueft Controllato	
	FROMMM			FS4.1594		