

elenco Disegni

Cablaggi esterni

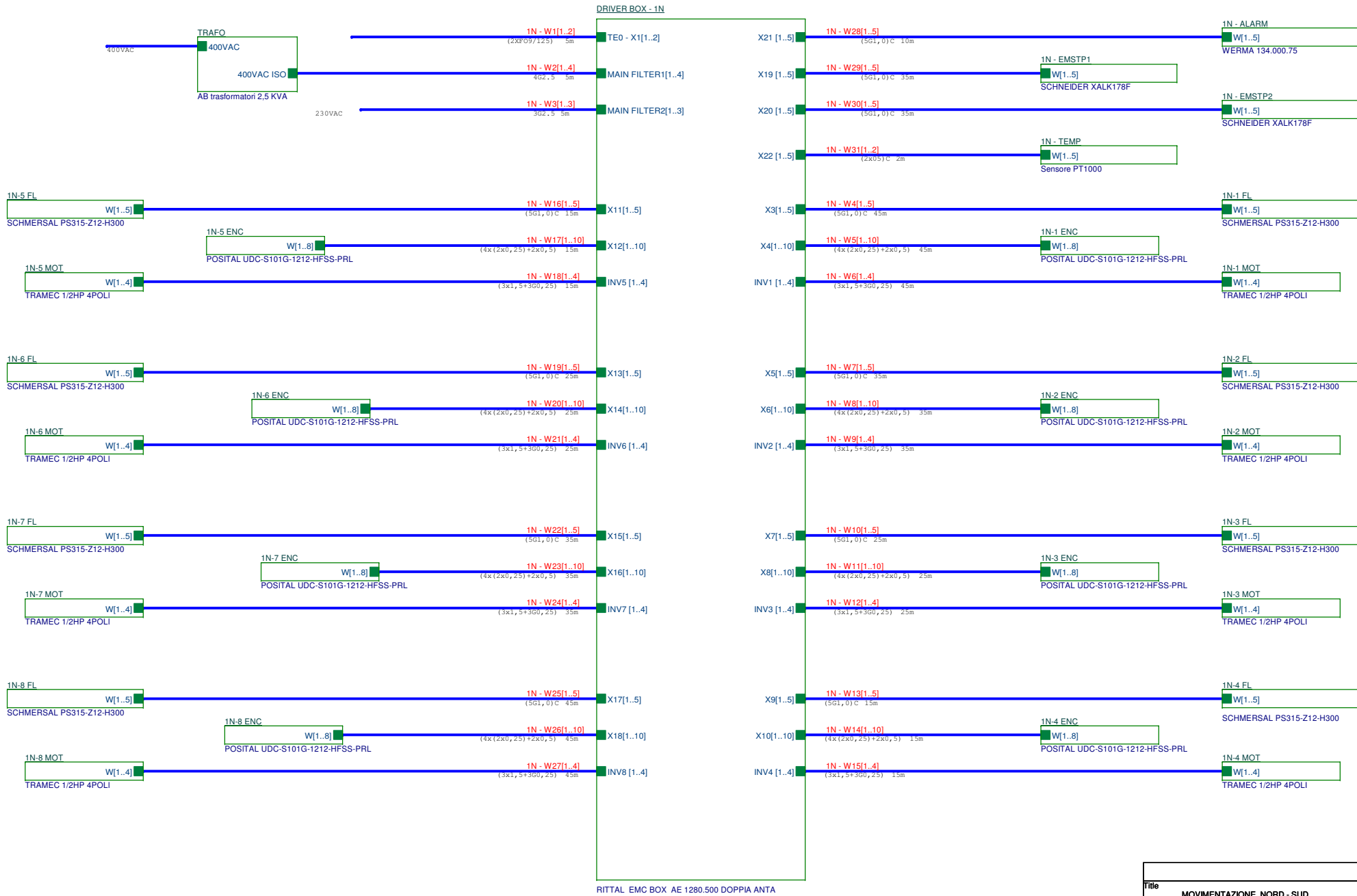
- sheet 3 Cablaggio 1 Nord
- sheet 4 Cablaggio 2 Nord
- sheet 5 Cablaggio 3 Nord
- sheet 6 Cablaggio 4 Nord
- sheet 7 Cablaggio Fibre Ottiche

Driver Box

- sheet 8 Alimentazione Potenza 400 VAC
- sheet 9 Alimentazione Controllo 230 VAC / 24VDC
- sheet 10 Distribuzione 24VDC
- sheet 11 Driver Asse 1-2
- sheet 12 Driver Asse 3-4
- sheet 13 Driver Asse 5-6
- sheet 14 Driver Asse 7-8
- sheet 15 Encoder Asse 1-2
- sheet 16 Encoder Asse 3-4
- sheet 17 Encoder Asse 5-6
- sheet 18 Encoder Asse 7-8
- sheet 19 link Ethercat Inverter
- sheet 20 Emergency Stop - allarme acustico visivo
- sheet 21 Beckhoff I/O
- sheet 22 Controllo temperatura - ventilazione
- sheet 23 Layout - disposizione componenti

Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date: Monday, March 09, 2020		Sheet 2 of 23

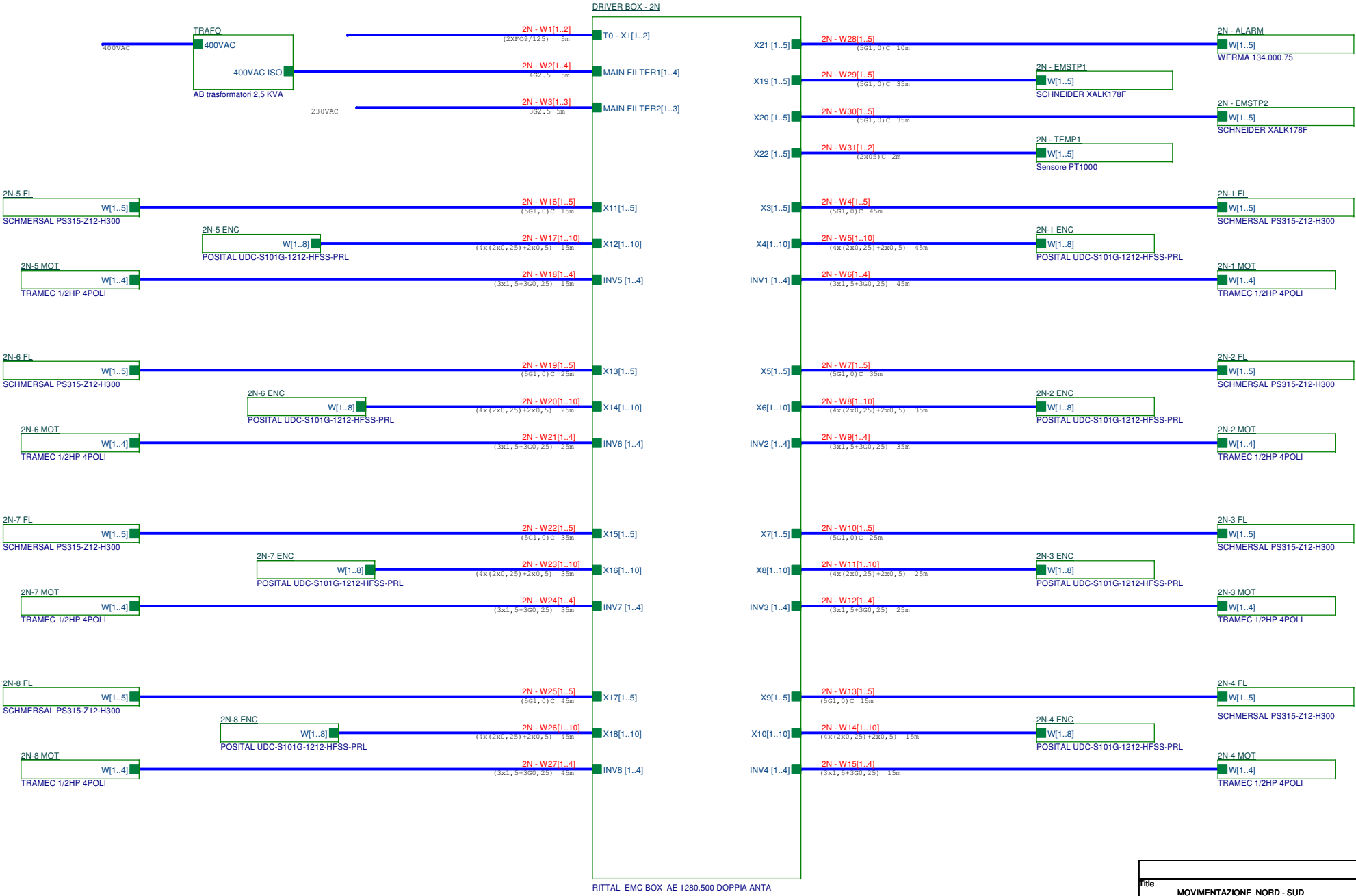
WIRING RAMO 1 NORD



RITTAL EMC BOX AE 1280.500 DOPPIA ANTA

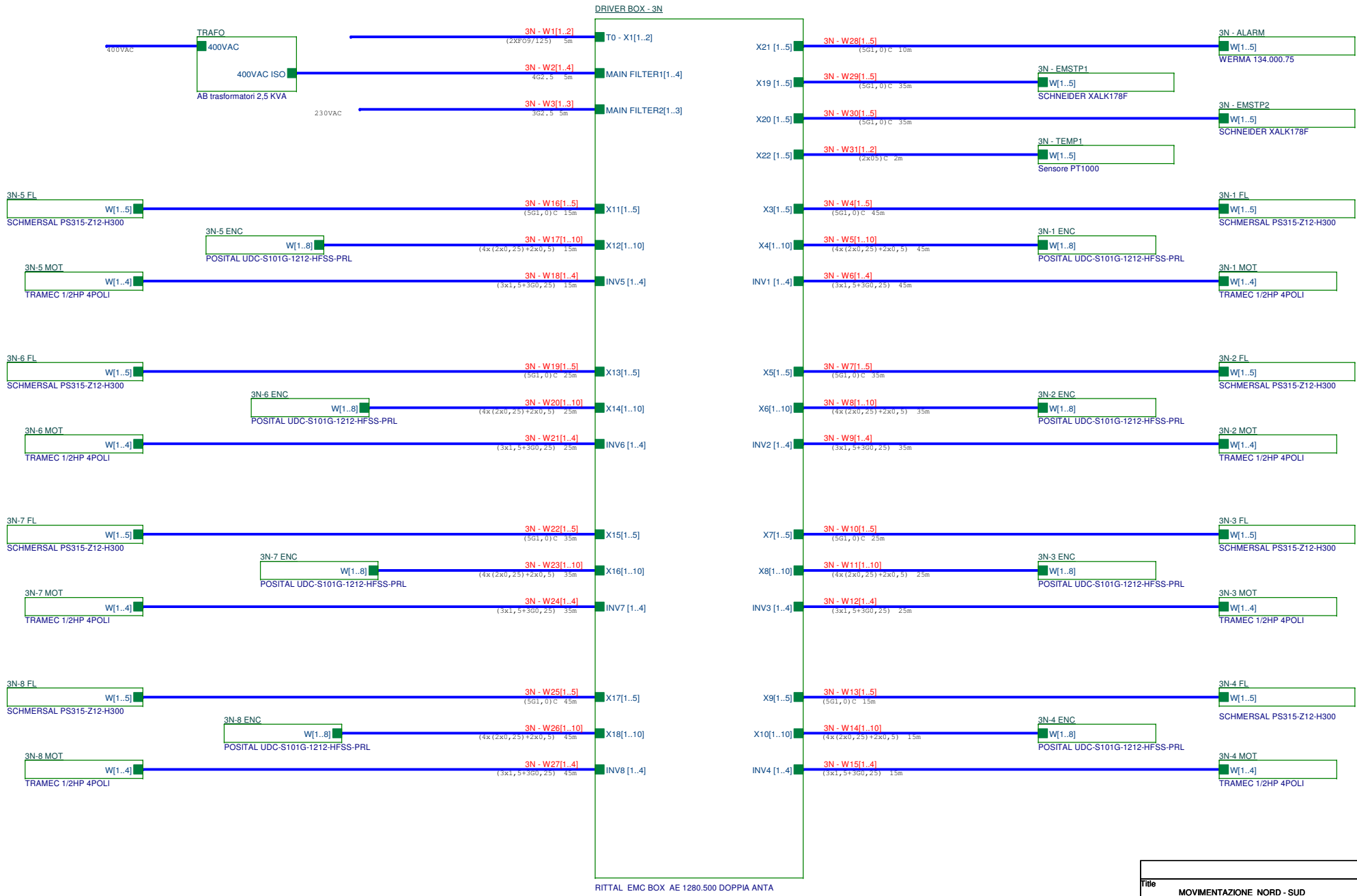
Title			
MOVIMENTAZIONE NORD - SUD			
Size	Document	Number	Rev
	MOV-NS-2020-2		A
Date:	Monday, March 09, 2020	Sheet	3 of 23

WIRING RAMO 2 NORD



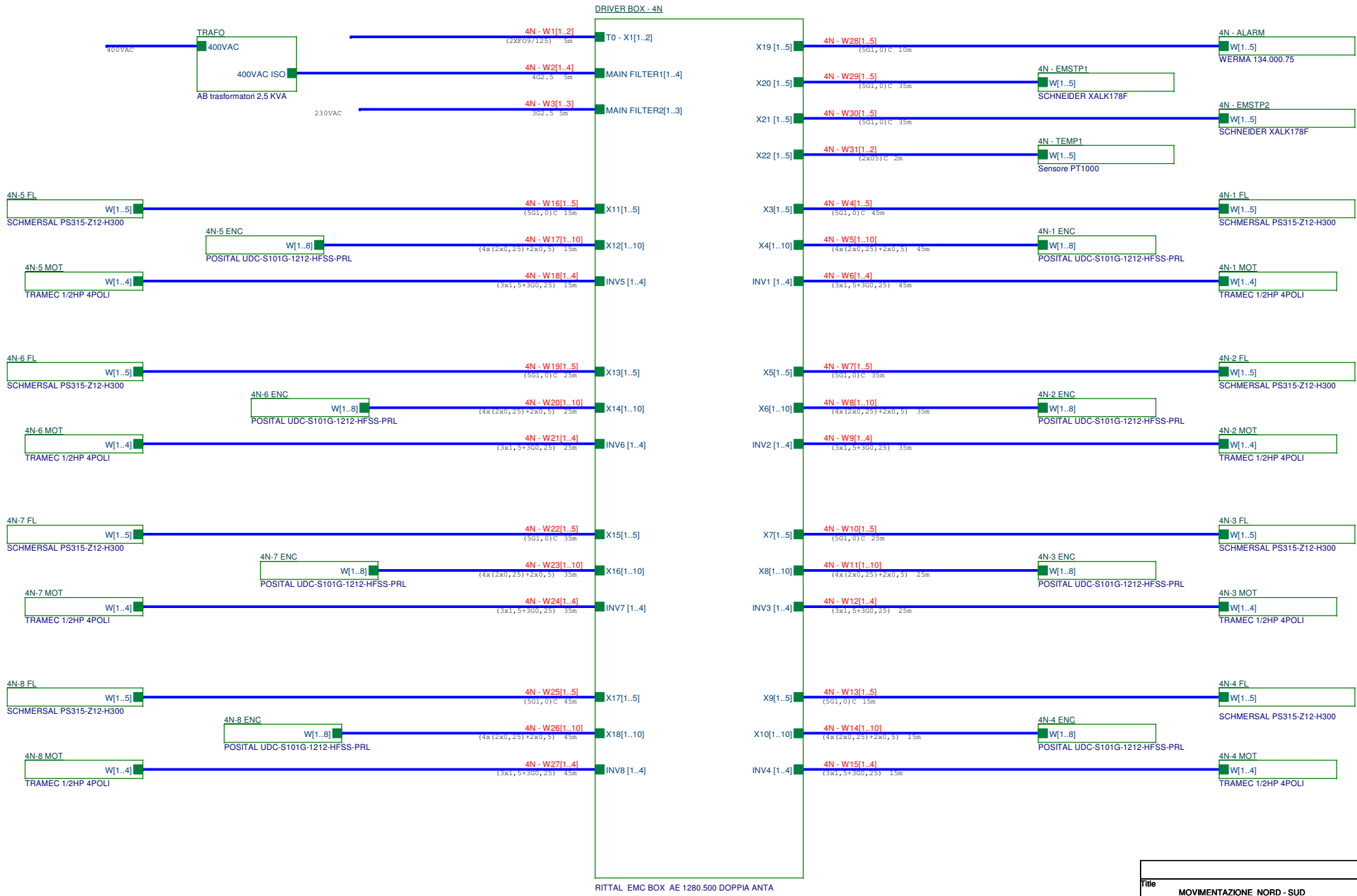
Title			
MOVIMENTAZIONE NORD - SUD			
Size	Document	Number	Rev
	MOV-NS-2020-2		A
Date:	Monday, March 09, 2020		Sheet 4 of 23

WIRING RAMO 3 NORD



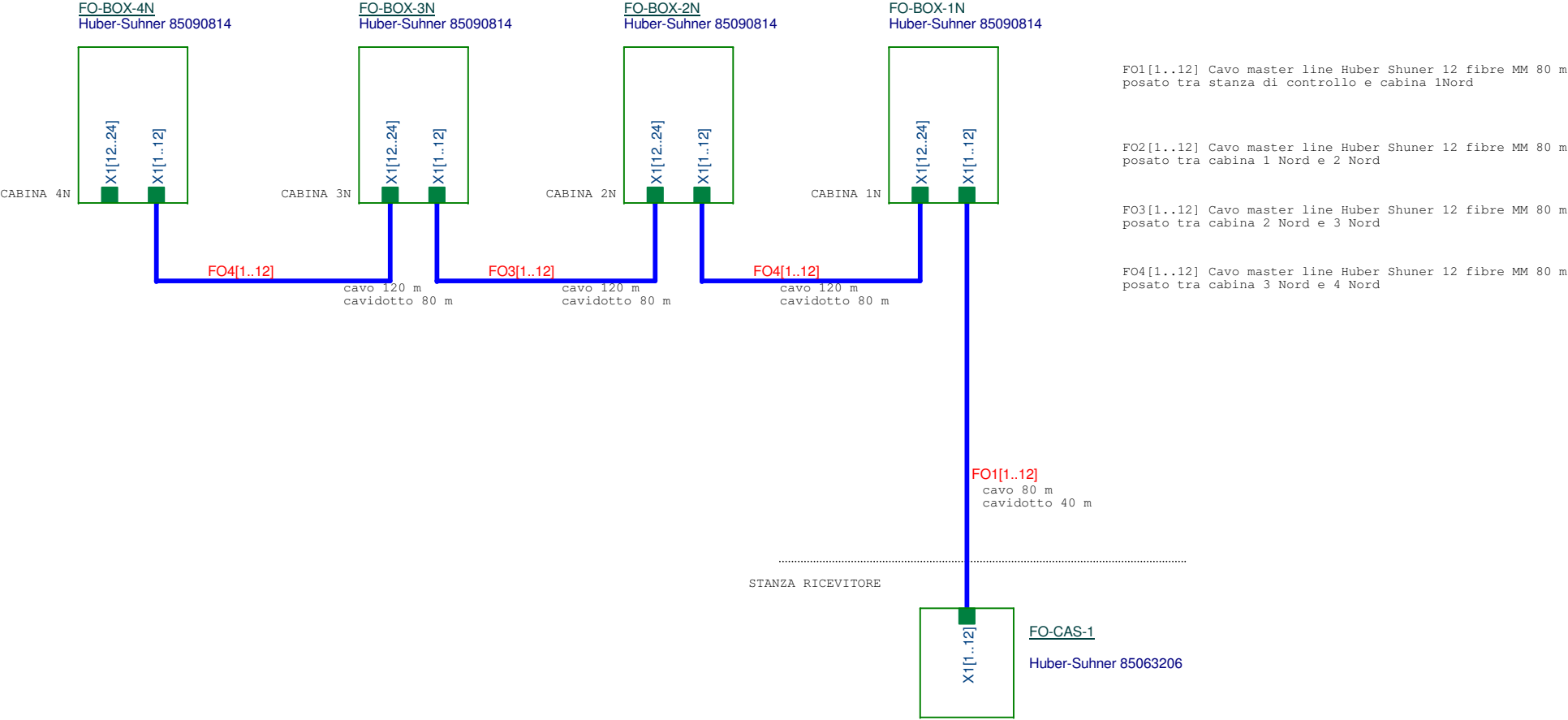
Title			
MOVIMENTAZIONE NORD - SUD			
Size	Document	Number	Rev
	MOV-NS-2020-2		A
Date:	Monday, March 09, 2020	Sheet	5 of 23

WIRING RAMO 4 NORD



Title			
MOVIMENTAZIONE NORD - SUD			
Size	Document	Number	Rev
	MOV-NS-2020-2		A
Date:	Monday, March 09, 2020	Sheet	6 of 23

DISTRIBUZIONE CAVI FIBRE OTTICHE MULTIMODALE



Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 7 of 23

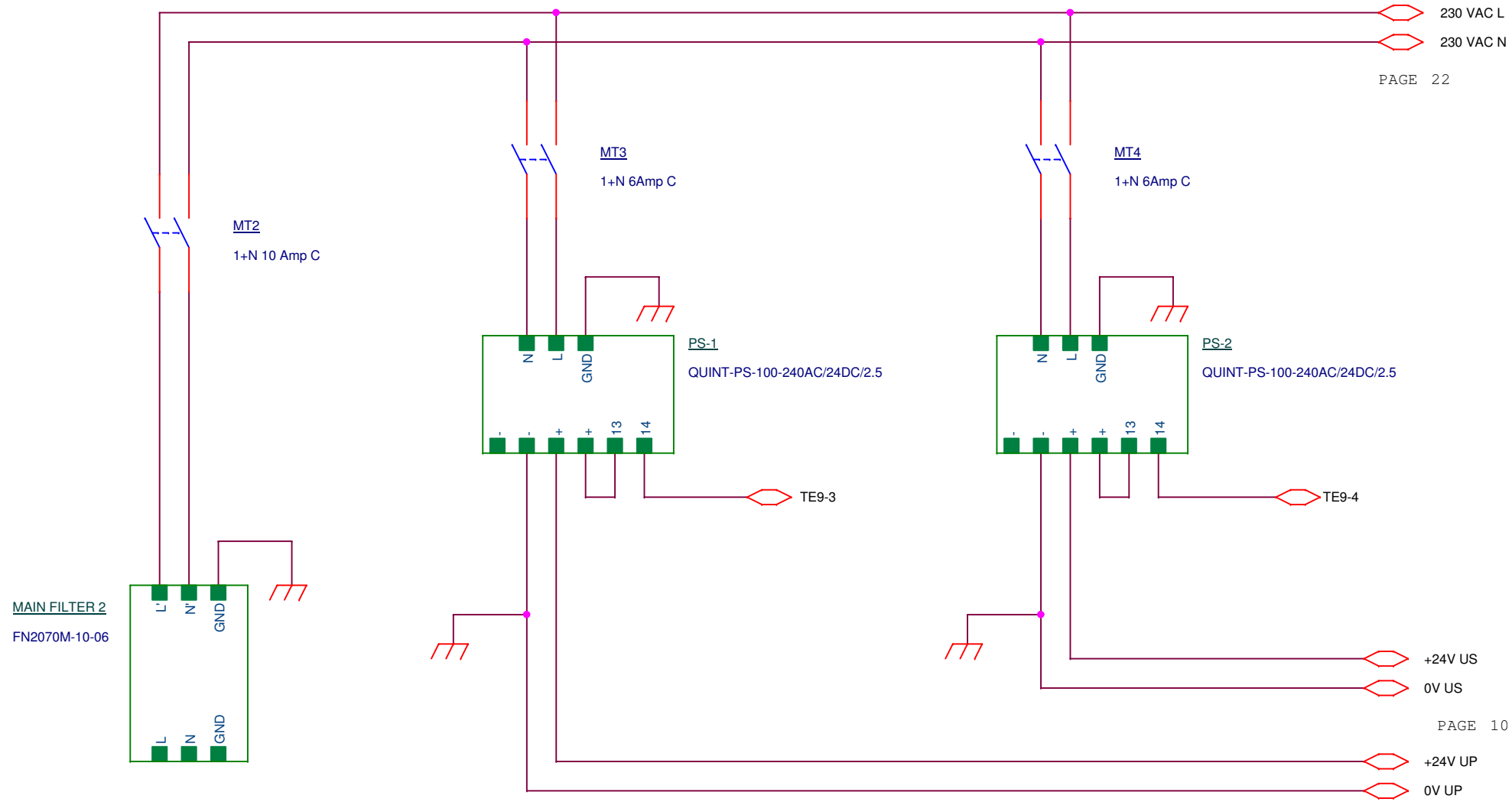
5	4	3	2	1
---	---	---	---	---



PAGE 21

5 4 3 2 1 Date: Monday, March 09, 2020 Sheet 8

ALIMENTAZIONE DI CONTROLLO 230VAC (UPS)



PAGE 22

Collegamento diretto al filtro

W3 (3G2.5) 230VAC

TE_x-y = TERMINALE I/O BECKHOFF
PW_x-y = TERMINALE PW BECKHOFF
x = numero terminale
y = numero pin
PAGE 21

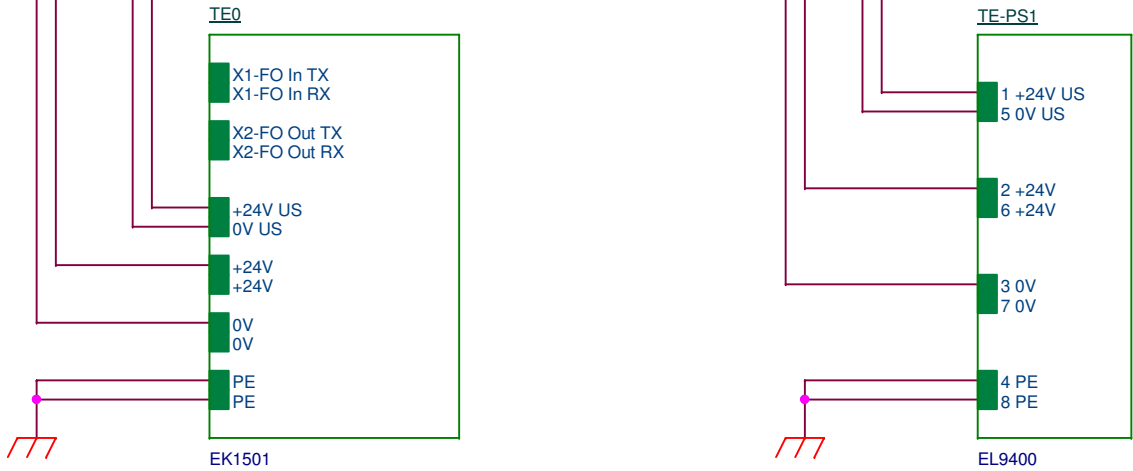
PAGE 10

Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 9 of 23

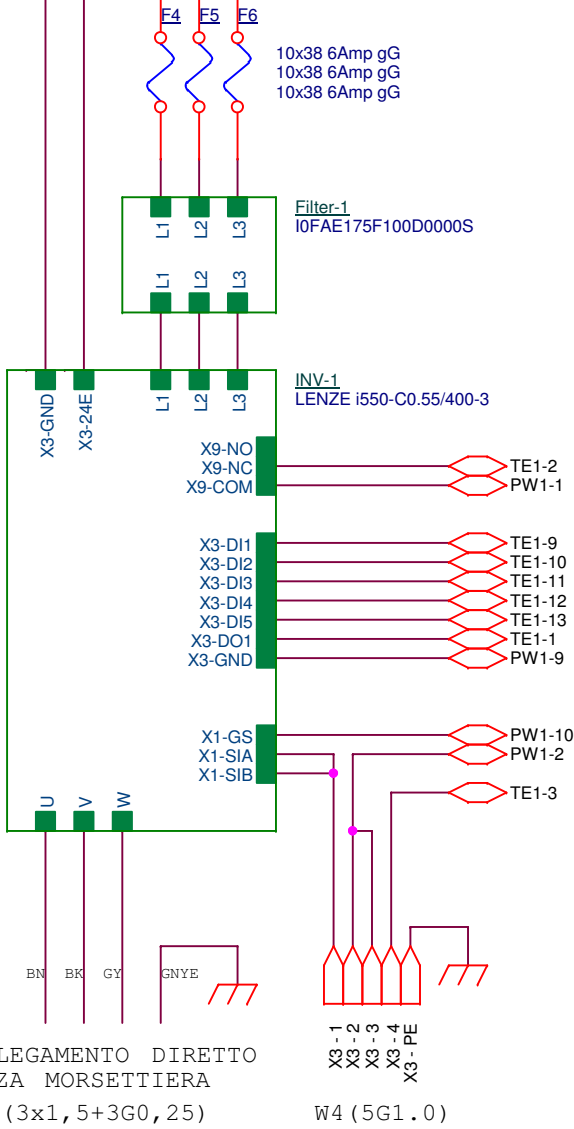
ALIMENTAZIONE 24 V DC

PAGE 9

PAGE 11

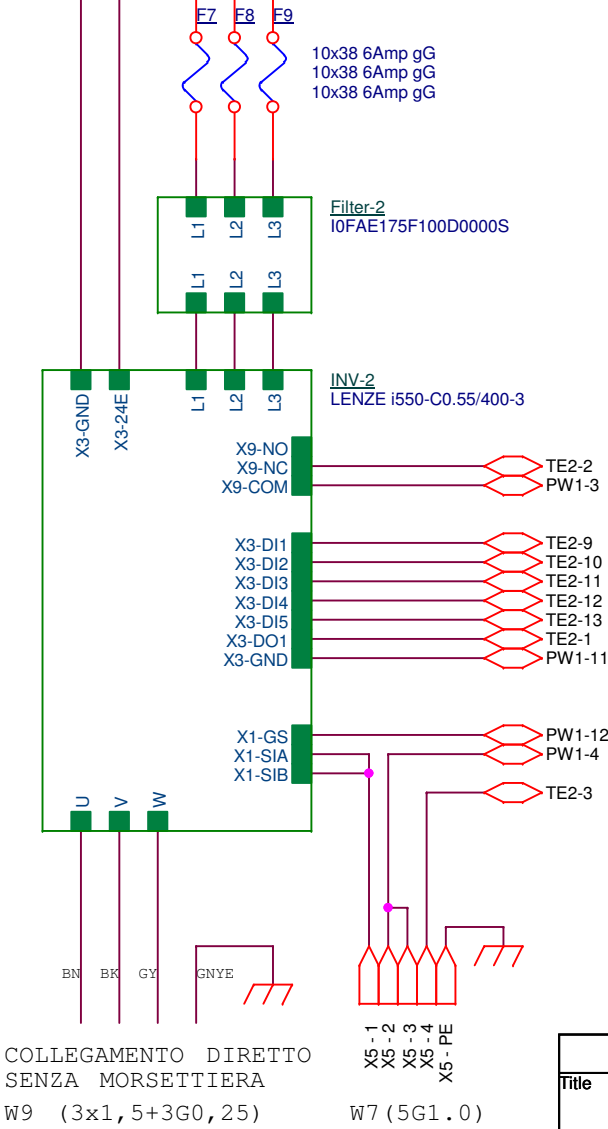


Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 10 of 23



COLLEGAMENTO DIRETTO
SENZA MORSETTIERA
W6 (3x1,5+3G0,25)

X3-1
X3-2
X3-3
X3-4
X3-PE
W4 (5G1.0)



COLLEGAMENTO DIRETTO
SENZA MORSETTIERA
W9 (3x1,5+3G0,25)

X5-1
X5-2
X5-3
X5-4
X5-PE
W7 (5G1.0)

TE_x-y = TERMINALE I/O BECKHOFF
PW_x-y = TERMINALE PW BECKHOFF
x = numero terminale
y = numero pin
PAGE 21

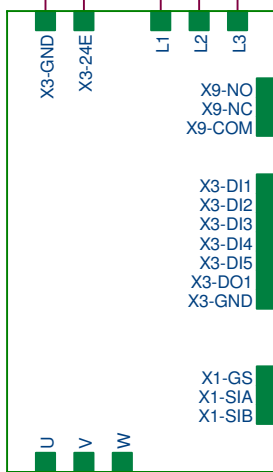
Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 11 of 23



10x38 6Amp gG
10x38 6Amp gG
10x38 6Amp gG



Filter-3
IOFAE175F100S0000S



INV-3
LENZE i550-C0.55/400-3

TE3-2
PW1-5

TE3-9
TE3-10
TE3-11
TE3-12
TE3-13
TE3-1
PW1-13

BN BK GY GNYE

COLLEGAMENTO DIRETTO
SENZA MORSETTIERA

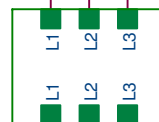
W12 (3x1,5+3G0,25)

X7-1
X7-2
X7-3
X7-4
X7-PE

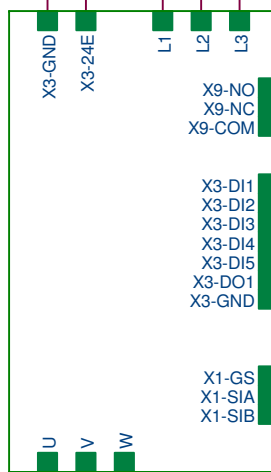
W10 (5G1.0)



10x38 6Amp gG
10x38 6Amp gG
10x38 6Amp gG



Filter-4
IOFAE175F100S0000S



INV-4
LENZE i550-C0.55/400-3

TE4-2
PW1-7

TE4-9
TE4-10
TE4-11
TE4-12
TE4-13
TE4-1
PW1-15

BN BK GY GNYE

COLLEGAMENTO DIRETTO
SENZA MORSETTIERA

W15 (3x1,5+3G0,25)

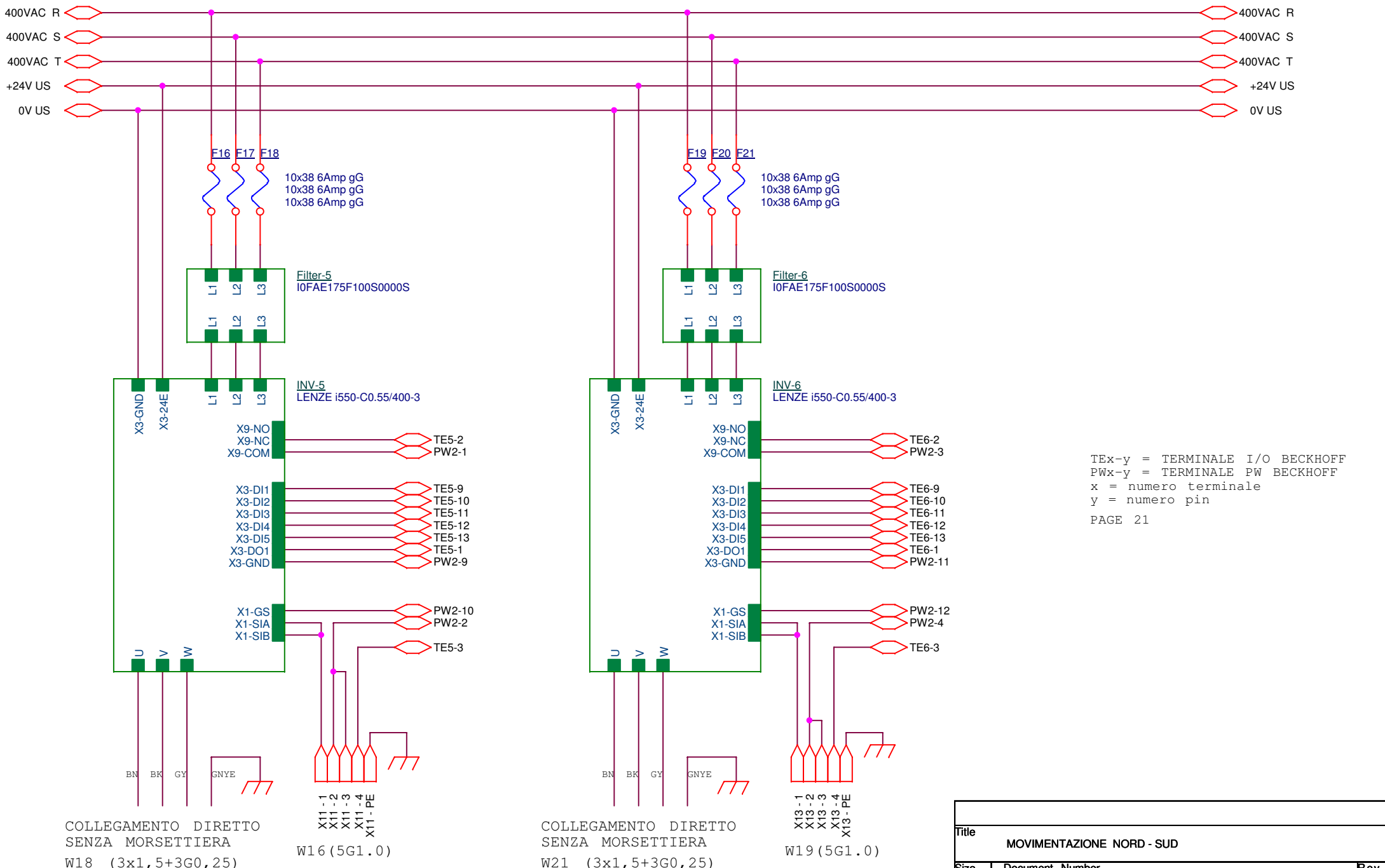
X8-1
X8-2
X8-3
X8-4
X8-PE

W13 (5G1.0)

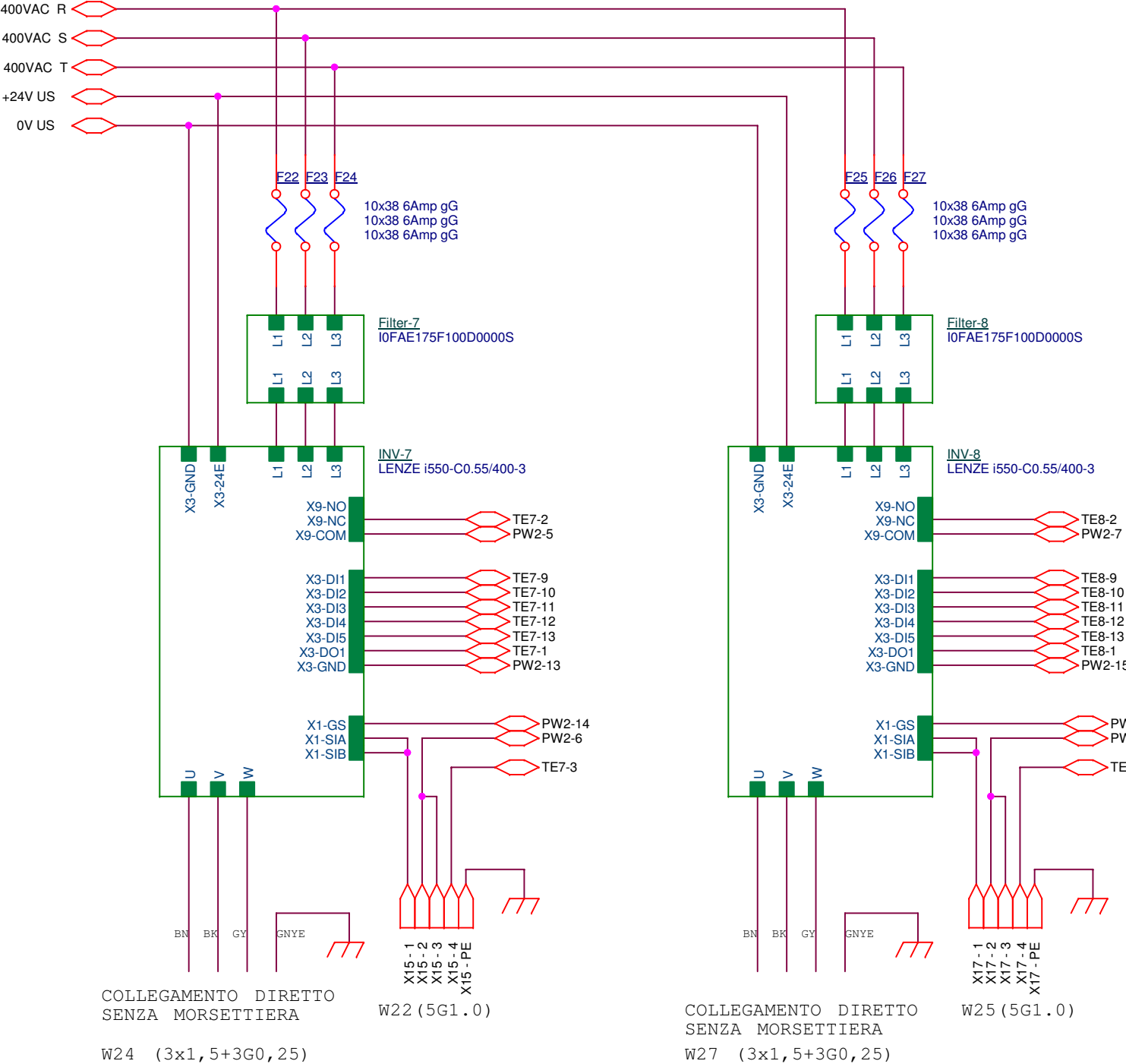
TE_{x-y} = TERMINALE I/O BECKHOFF
PW_{x-y} = TERMINALE PW BECKHOFF
x = numero terminale
y = numero pin

PAGE 21

Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 12 of 23



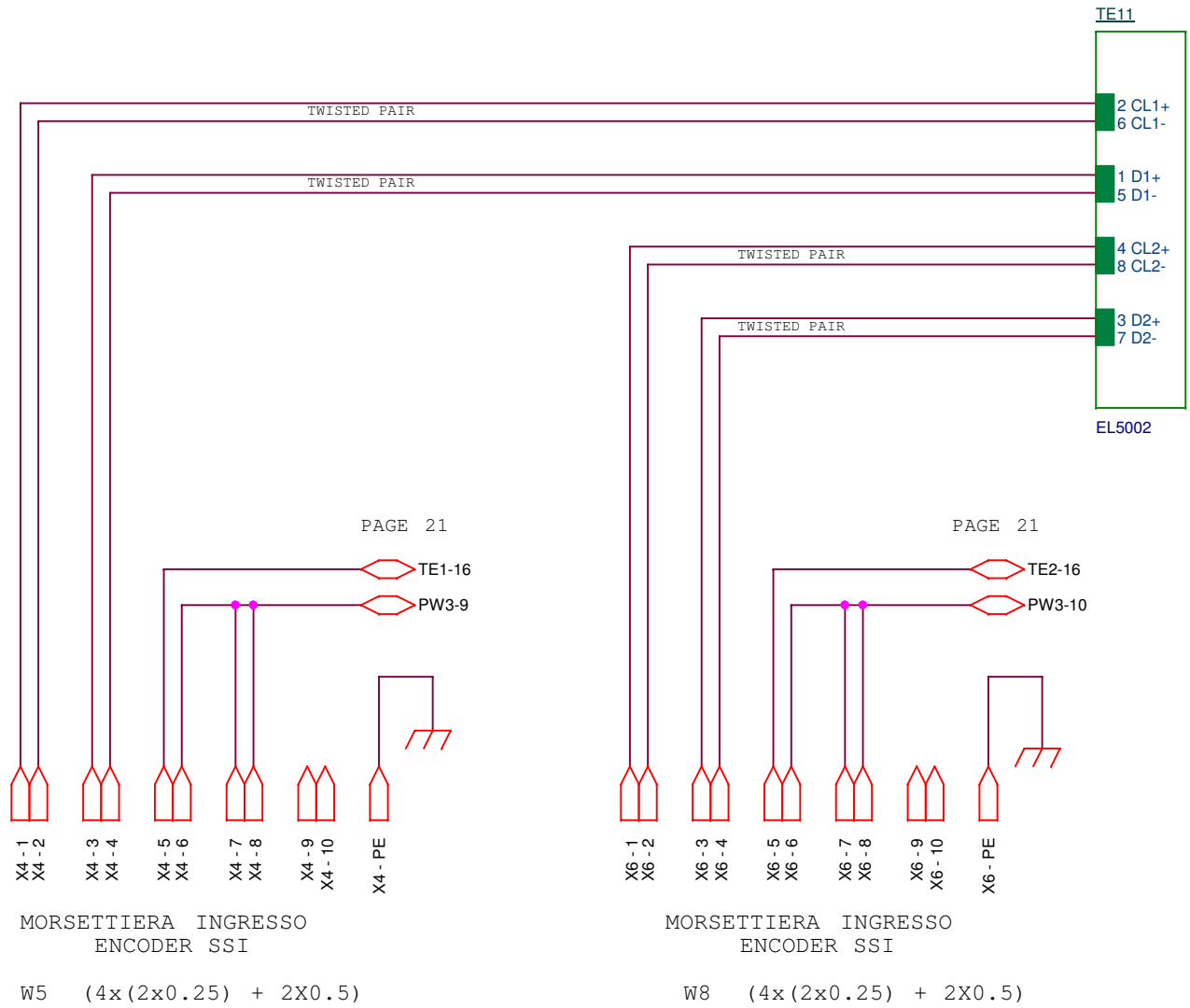
Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 13 of 23



TE_x-_y = TERMINALE I/O BECKHOFF
PW_x-_y = TERMINALE PW BECKHOFF
x = numero terminale
y = numero pin
PAGE 21

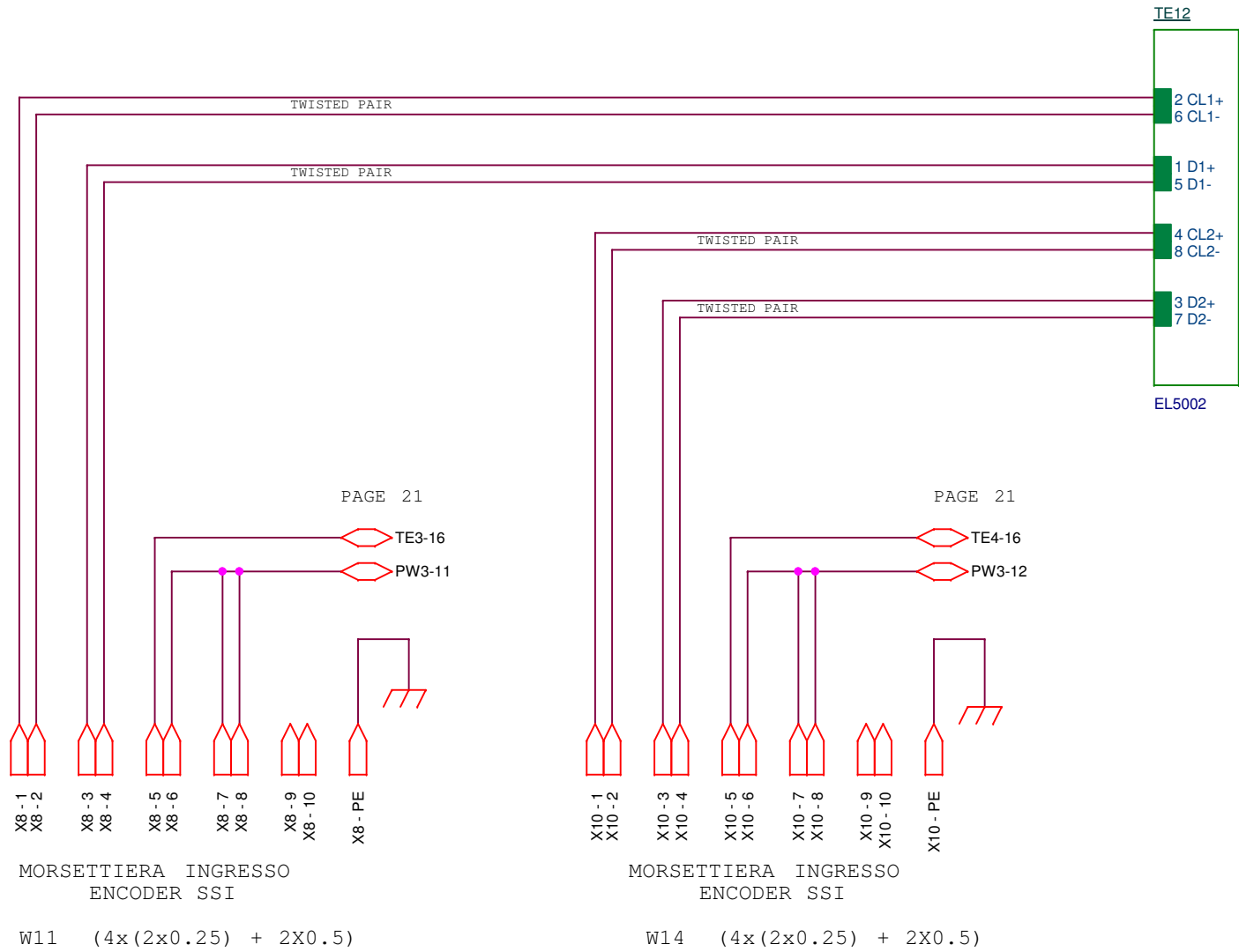
Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date: Monday, March 09, 2020		
Sheet 14 of 23		

COLLEGAMENTI ENCODER SSI - ASSI 1 - 2



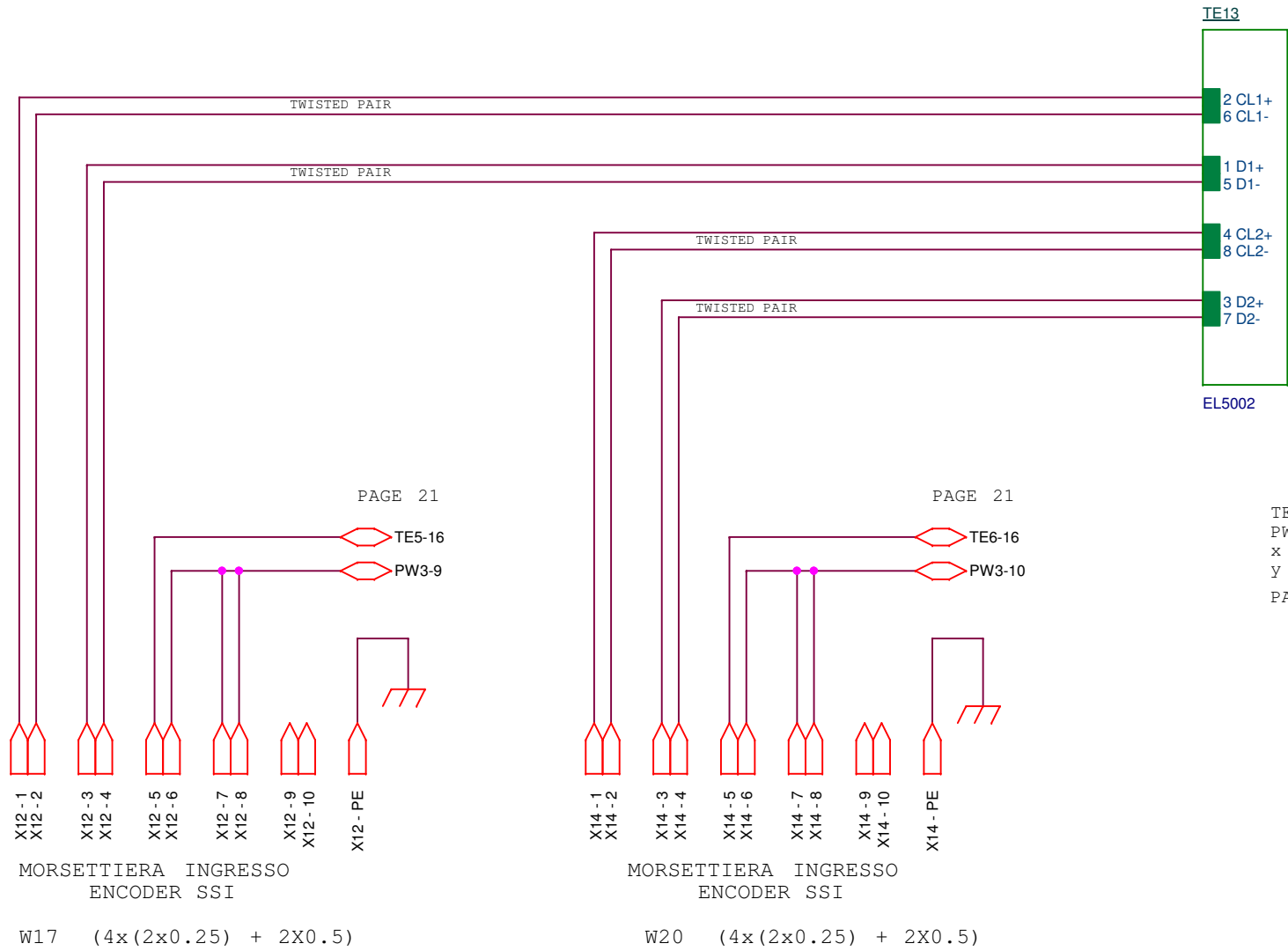
Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 15 of 23

COLLEGAMENTI ENCODER SSI - ASSI 3 - 4



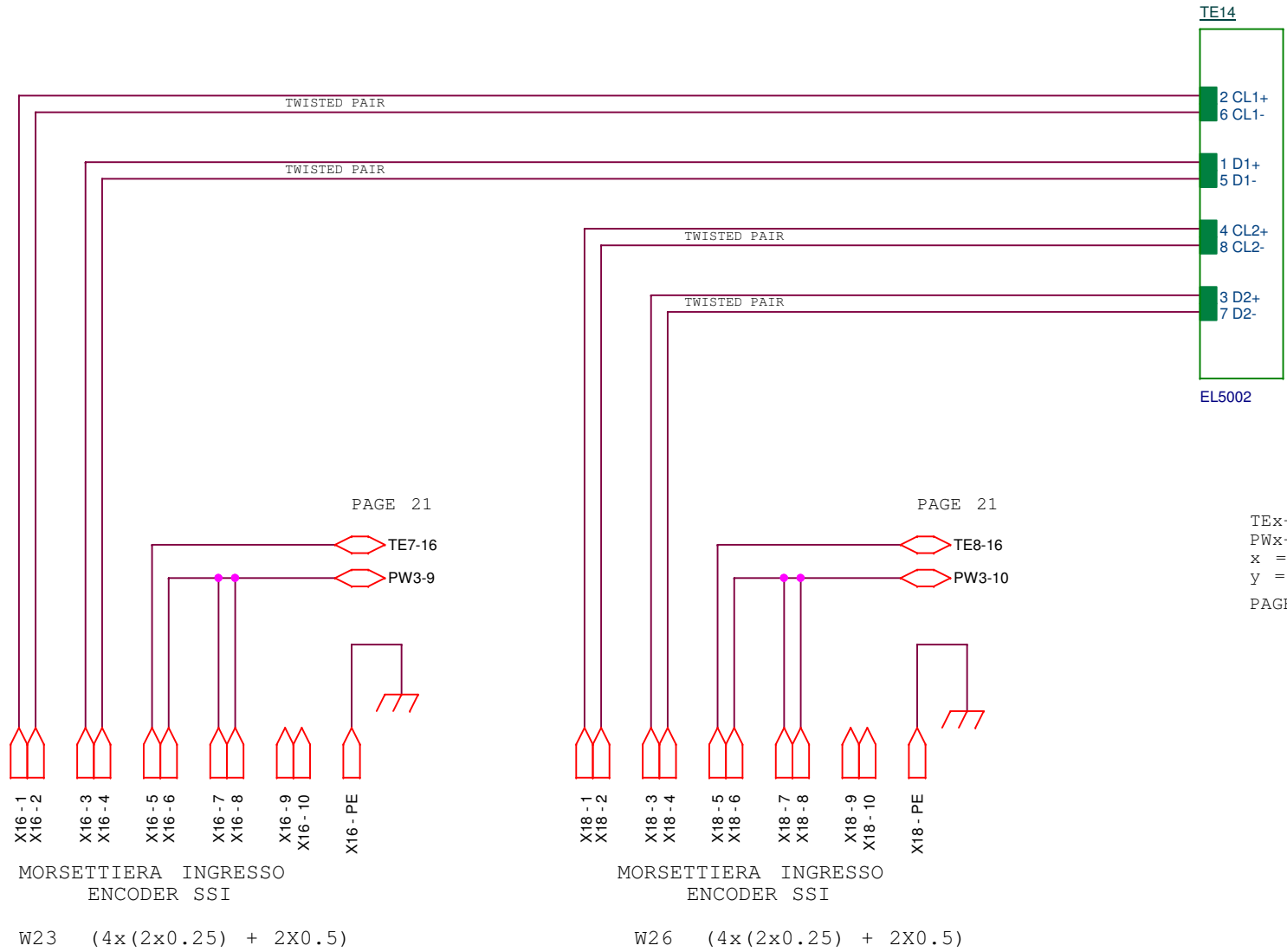
Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 16 of 23

COLLEGAMENTI ENCODER SSI - ASSI 5 - 6



Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 17 of 23

COLLEGAMENTI ENCODER SSI - ASSI 7 - 8

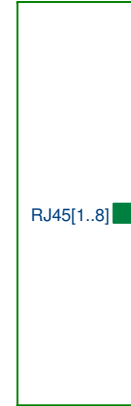


TE_x-_y = TERMINALE I/O BECKHOFF
PW_x-_y = TERMINALE PW BECKHOFF
x = numero terminale
y = numero pin
PAGE 21

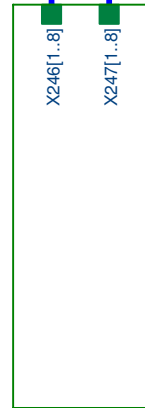
Title		
MOVIMENTAZIONE NORD - SUD		
Size A4	Document Number MOV-NS-2020-2	Rev A
Date: Monday, March 09, 2020	Sheet 18	of 23

COLLEGAMENTI ETHERCAT

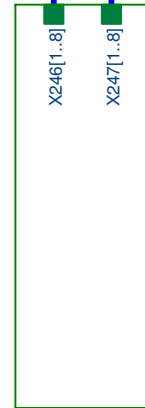
TE18



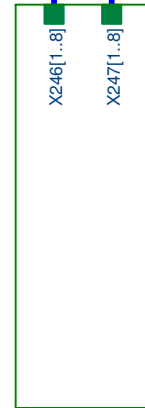
EK1110



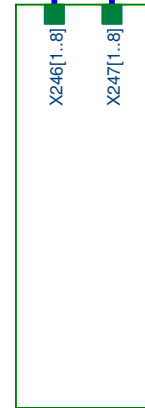
INV-1
LENZE- Ethercat



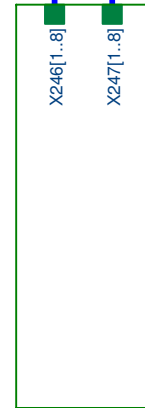
INV-2
LENZE- Ethercat



INV-3
LENZE- Ethercat



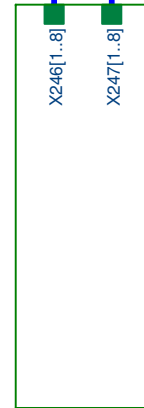
INV-4
LENZE- Ethercat



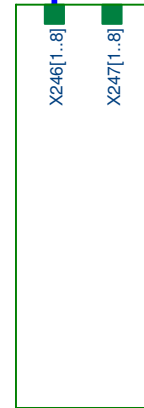
INV-5
LENZE- Ethercat



INV-6
LENZE- Ethercat



INV-7
LENZE- Ethercat

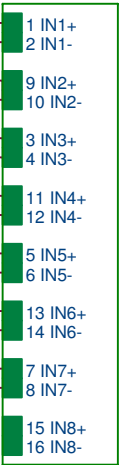


INV-8
LENZE- Ethercat

Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 19 of 23

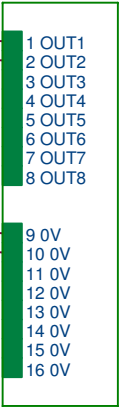
SICUREZZE - EMERGENCY STOP - ALLARME ACUSTICO VISIVO

TE16



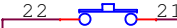
EL1918

TE10



EL2808

SW2
Schneider XB6AS9349B
montato a pannello



SW1
ABB 2CCA703151R0001



K1-22
K1-21



PAGE 21

PAGE 21

X19 - 1
X19 - 2
X19 - 3
X19 - 4
X19 - PE

W4 (5G1.0)

MORSETTIERA INGRESSO
EMERGENCY STOP

X20 - 1
X20 - 2
X20 - 3
X20 - 4
X20 - PE

X21 - 1
X21 - 2
X21 - 3
X21 - 4
X21 - PE

MORSETTIERA INGRESSO
ALLARME ACUSTICO VISIVO

Title		
MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 20 of 23

BECKHOFF I/O

TE0	TE1	TE2	TE3	TE4	PW1	TE5	TE6	TE7	TE8	PW2	TE9	TE10	TE-PS1	TE11	TE12	TE13	TE14	PW3	TE15	TE16	TE17	TE18	
X1-FO In TX X1-FO In RX	1 IN1 2 IN2 3 IN3	1 IN1 2 IN2 3 IN3	1 IN1 2 IN2 3 IN3	1 IN1 2 IN2 3 IN3	1 + 24V 2 + 24V 3 + 24V	1 IN1 2 IN2 3 IN3	1 IN1 2 IN2 3 IN3	1 IN1 2 IN2 3 IN3	1 IN1 2 IN2 3 IN3	1 + 24V 2 + 24V 3 + 24V	1 IN1 2 IN2 3 IN3	1 OUT1 2 OUT2 3 OUT3	1 +24V US 5 0V US					1 + 24V 2 + 24V 3 + 24V		1 IN1+ 2 IN1- 3 IN3+ 4 IN3- 5 IN5+ 6 IN5- 7 IN7+ 8 IN7-	1 IN1+ 2 IN1- 3 IN3+ 4 IN3- 5 IN5+ 6 IN5- 7 IN7+ 8 IN7-	1' OUT1 2' OUT1 1 0V 2 0V 5' OUT2 6' OUT2 5 0V 6 0V	RJ45[1..8]
X2-FO Out TX X2-FO Out RX	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 + 24V 5 + 24V 6 + 24V 7 + 24V 8 + 24V	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 + 24V 5 + 24V 6 + 24V 7 + 24V 8 + 24V	4 IN4 5 IN5 6 IN6 7 IN7 8 IN8	4 OUT4 5 OUT5 6 OUT6 7 OUT7 8 OUT8		2 CL1+ 6 CL1-	2 CL1+ 6 CL1-	2 CL1+ 6 CL1-	2 CL1+ 6 CL1-	4 + 24V 5 + 24V 6 + 24V 7 + 24V 8 + 24V	1 + R1 2 -R1 3 IN3+ 4 IN3- 5 IN5+ 6 IN5- 7 IN7+ 8 IN7-	1 IN1+ 2 IN1- 3 IN3+ 4 IN3- 5 IN5+ 6 IN5- 7 IN7+ 8 IN7-	1' OUT1 2' OUT1 1 0V 2 0V 5' OUT2 6' OUT2 5 0V 6 0V		
+24V US 0V US													2 +24V 6 +24V	1 D1+ 5 D1-	1 D1+ 5 D1-	1 D1+ 5 D1-	1 D1+ 5 D1-		5 -R2				
+24V +24V	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 0V 10 0V 11 0V 12 0V	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 OUT1 10 OUT2 11 OUT3 12 OUT4	9 0V 10 + 24V 11 + 24V 12 + 24V	9 + 24V 10 + 24V 11 + 24V 12 + 24V	9 0V 10 0V 11 0V 12 0V		4 CL2+ 8 CL2-	4 CL2+ 8 CL2-	4 CL2- 8 CL2-	4 CL2+ 8 CL2-	9 0V 10 0V 11 24V 12 0V	3 +R3 4 -R3	9 IN2+ 10 IN2- 11 IN4+ 12 IN4- 13 IN6+ 14 IN6- 15 IN8+ 16 IN8-	3' OUT3 4' OUT3 3 0V 4 0V 7' OUT4 8' OUT4 7 0V 8 0V		
0V	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 0V 14 0V 15 0V 16 0V	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 OUT5 14 OUT6 15 OUT7 16 OUT8	13 0V 14 + 24V 15 + 24V 16 + 24V	13 0V 14 + 24V 15 + 24V 16 + 24V	13 0V 14 0V 15 0V 16 0V		3 D2+ 7 D2-	3 D2+ 7 D2-	3 D2+ 7 D2-	3 D2+ 7 D2-	13 0V 14 0V 15 0V 16 0V	7 +R4 8 -R4				
PE													4 PE										
EK1501	EL1859	EL1859	EL1859	EL1859	EL9184	EL1859	EL1859	EL1859	EL1859	EL19184	EL1808	EL2808	EL9400	EL5002	EL5002	EL5002	EL5002	EL9184	EL3204	EL1918	EL2904	EK1110	

```
TE1 - I/O DRIVER 1
TE2 - I/O DRIVER 2
TE3 - I/O DRIVER 3
TE4 - I/O DRIVER 4
TE5 - I/O DRIVER 5
TE6 - I/O DRIVER 6
TE7 - I/O DRIVER 7
TE8 - I/O DRIVER 8
```

```
TE9 - IN generici
IN1 - MAIN POWER OK
IN2 - MAIN SWITCH OK
IN3 - OK PS-1
IN4 - OK PS-2
IN5 -
IN6 -
IN7 -
IN8 -
```

TE10 - OUT generici

```

OUT1 - ALARM LAMP
OUT2 - ALARM SOUND
OUT3 - FAN 1
OUT4 - FAN 2
OUT5 -
OUT6 -
OUT7 -
OUT8 -

```

TE11	-	ENCODER	Asse	1	e	2
TE12	-	ENCODER	Asse	3	e	4
TE13	-	ENCODER	Asse	5	e	6
TE14	-	ENCODER	Asse	7	e	8

```
TE15 - Temperature

R1 - Temp. Esterna 1
R2 - Temp. Esterna 2
R3 - Temp. Interna
R4 -
```

TE16 - IN - Emergency Stop , Reset Fail Safe
TE17 - OUT Fail Safe

TE18 - Ethercat

```
IN1 - READY
IN2 - FAIL
IN3 - FINAL   LIMIT
IN4 -
IN5 -
IN6 -
IN7 -
IN8 -
```

```
OUT1 - START
OUT2 - RESET FAULT
OUT3 - DIRECTION
OUT4 - LOW SPEED
OUT5 - HIGH SPEED
OUT6 -
OUT7 -
OUT8 - ON/OFF ENCODER
```

CONTROLLO TEMPERATURA - VENTILAZIONE

230 VAC L
230 VAC N

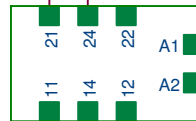
PAGE 9

MT5
1+N 6Amp C

TE_x-y = TERMINALE I/O BECKHOFF
x = numero terminale
y = numero pin

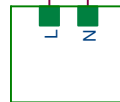
PAGE 21

K2
FINDER 48.62.7.024.0050

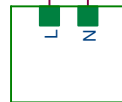


TE10-3
TE10-11

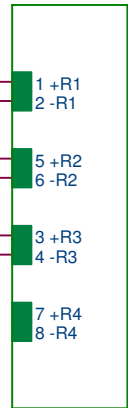
FAN1
SK 3237.600



FAN2
SK 3237.600



TE15



EL3204

R2
PT1000

X22 - 1
X22 - 2
X22 - 3
X22 - 4
X22 - PE

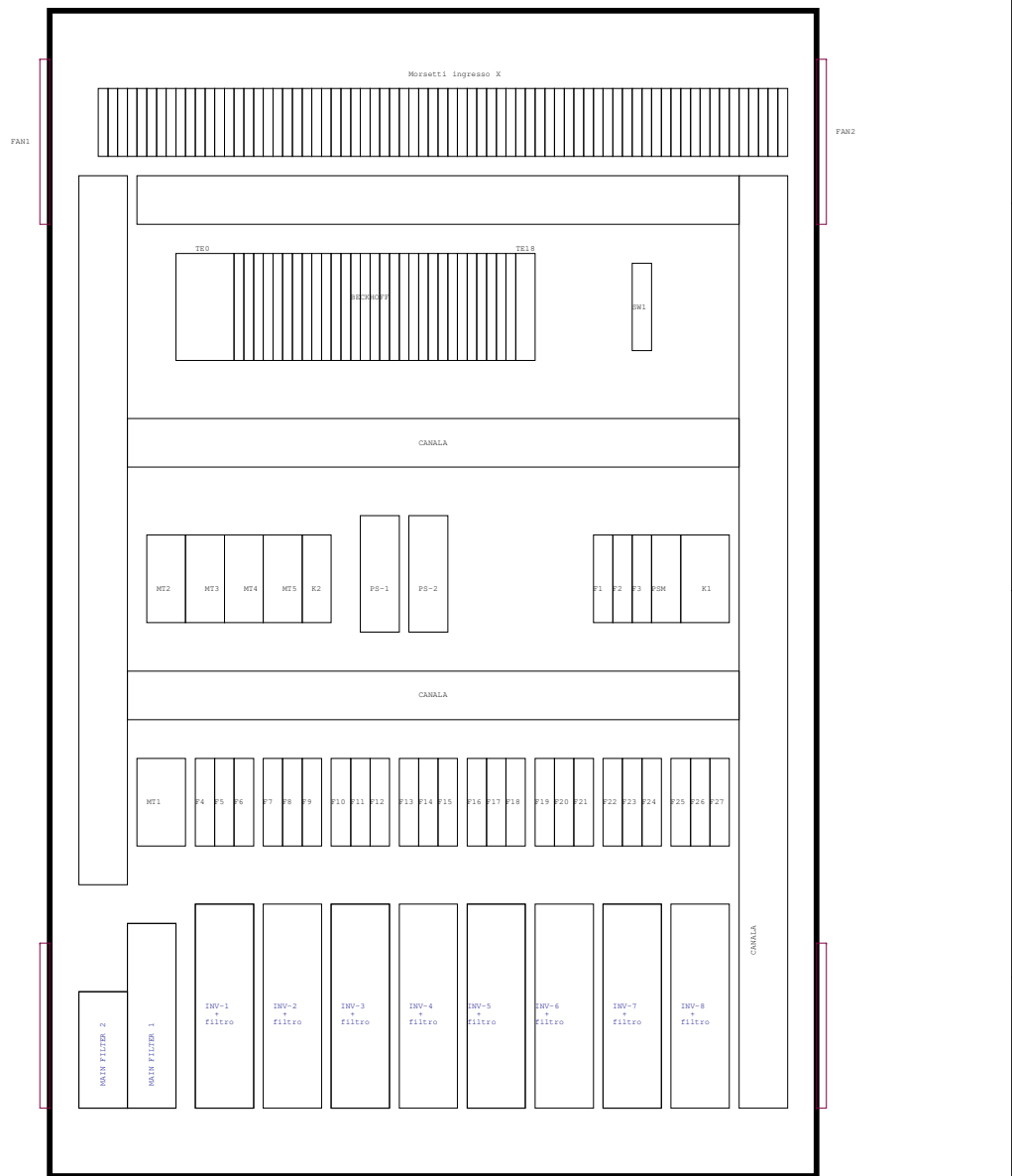
MORSETTIERA INGRESSO
SENSORI TEMPERATURA

W31 (5G1.0)

Title		
TEST - MOVIMENTAZIONE NORD - SUD		
Size	Document Number	Rev
A4	MOV-NS-2020-2	A
Date:	Monday, March 09, 2020	Sheet 22 of 23

DRIVER BOX Disposizione componenti
RITTAL SERIE AE 800 x 1200 x 300 EMC DOPPIA ANTA

Pressacavi LAPP EMC M20 per cavi encoder, fine corsa e segnali
W1-W4-W5-W7-W8-W10-W11-W13-W14-W16-W17-W19-W20-W22-W23-W25-W26-W28-W29-W30-W31



Pressacavi LAPP EMC M25 per alimentazione cavi W2, W3
Pressacavi LAPP EMC M20 per motori cavi W6,W9,W12,W15,W18,W21,W24,W27

File			
MOVIMENTAZIONE NORD-SUD			
Size	Document	Number	Rev
	MOV-NS	2020-2	a
Date:	Monday, March 09, 2020	Sheet	23 of 23