

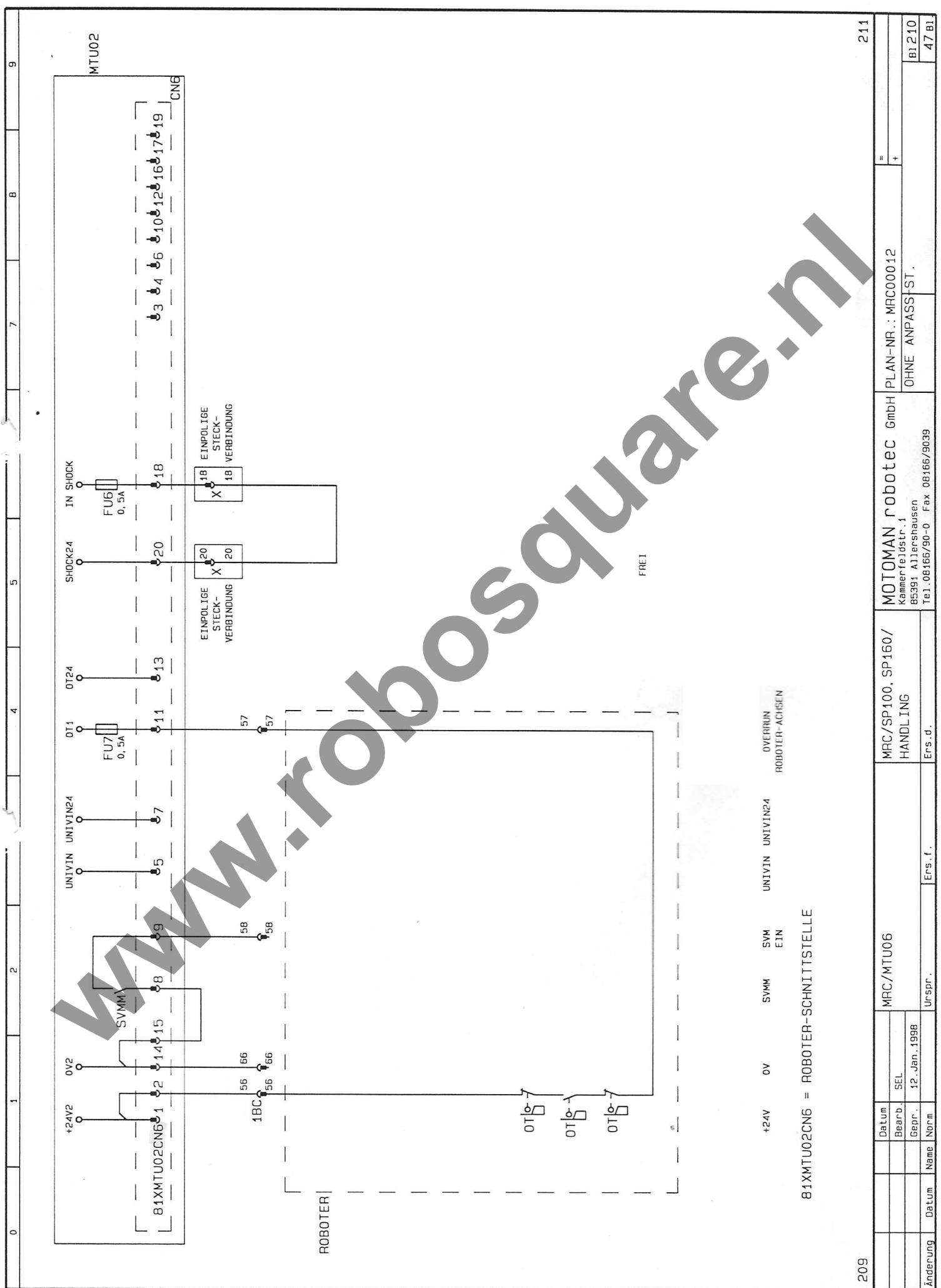


1GS
24VDC-STROMVERSORGUNG

Änderung	Datum	Name	Norm	MRC/MTU02 STROMVERSORGUNG	MRC/SP100, SP160/ HANDLING	MOTOMAN robotec GmbH
				Urspr. 12.Jan.1998	Ers. f. Ers. d.	PLAN-NR.: MRC00012 Kammerfeilstr. 1 8539 Altershausen Tel. 08166/90-0 Fax 08166/9039 OHNE ANPASSST. BI 209 47 Bl.

210

208

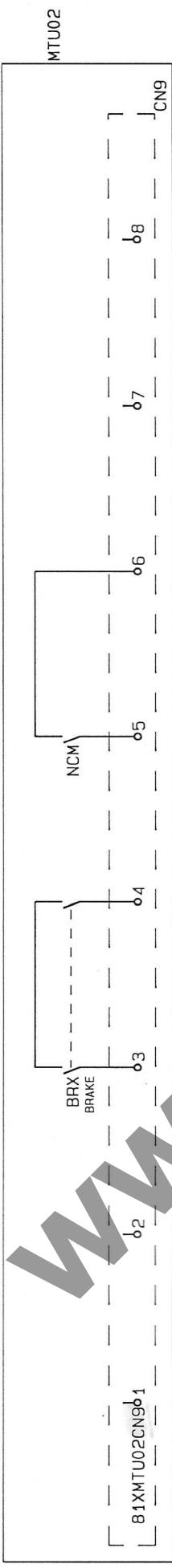


81XMTU02CN9 = ROBOTER-SCHNITTSTELLE

210

Änderung	Datum	Name	Norm	Datum	Bearb.	MRC / MTU06	MRC / SP100, SP160 / HANDLING	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012	=
				Urspr.	Ers. f.	Ers. d.	OHNE ANPASS-ST.	BI 211 47 BI		

0 1 2 3 4 5 6 7 8 9



FREI

FREI

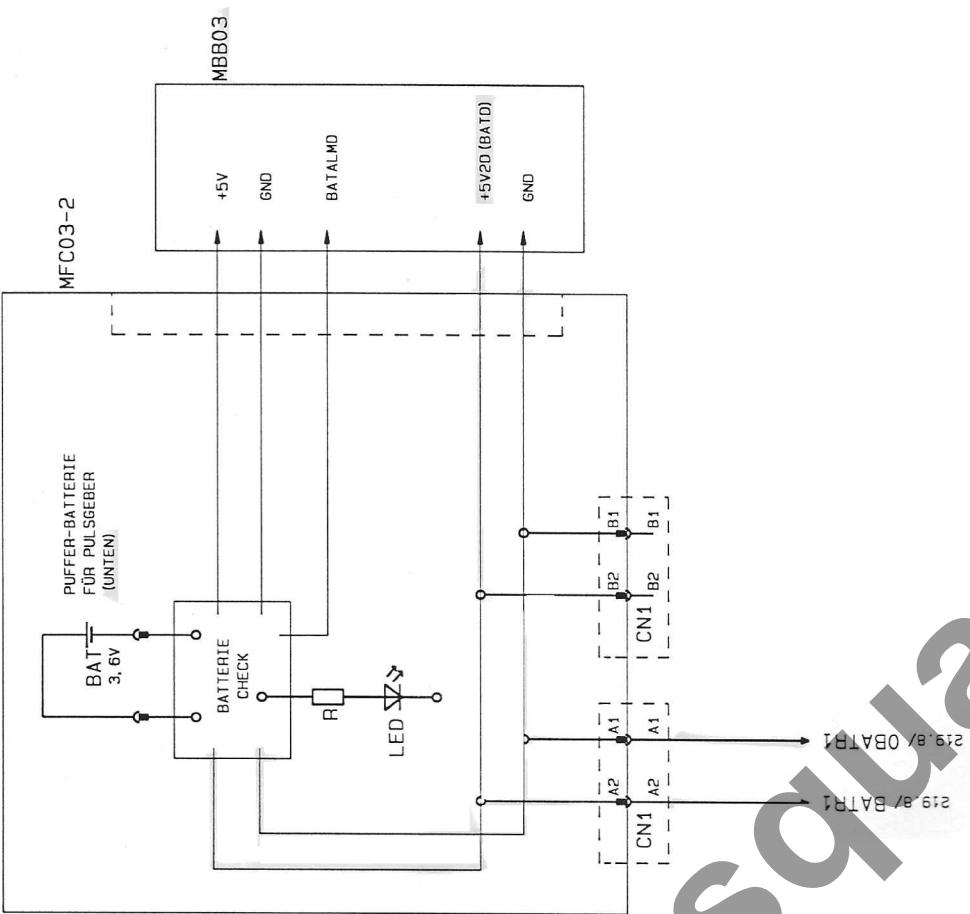
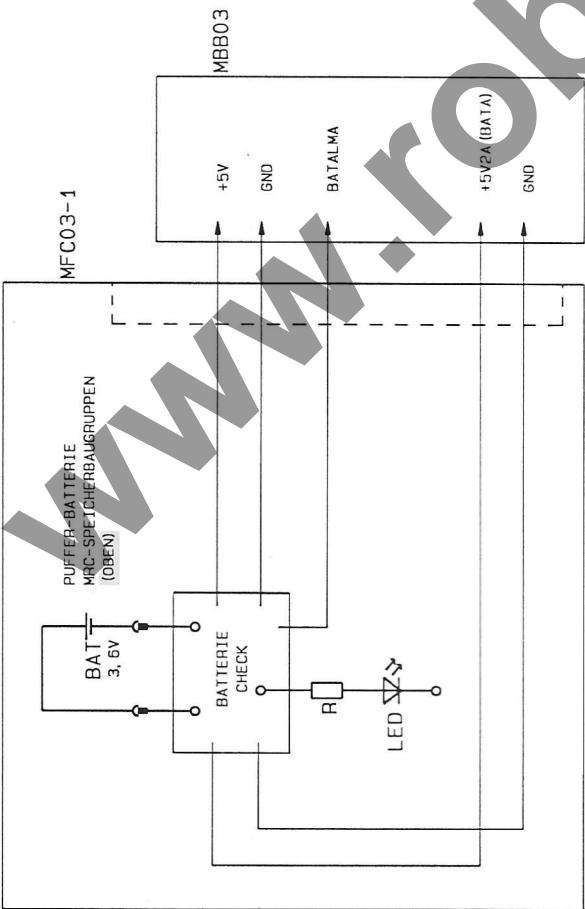
NCM

BRAKE

FREI

FREI

0 1 2 3 4 5 6 7 8 9



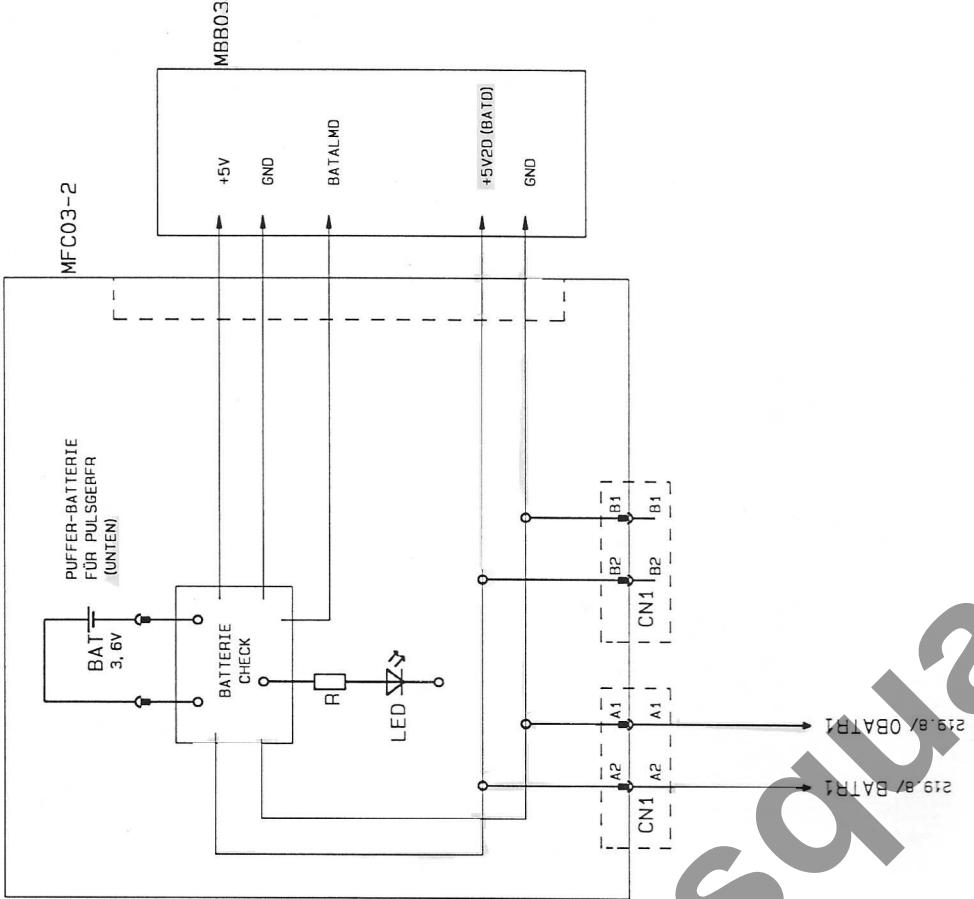
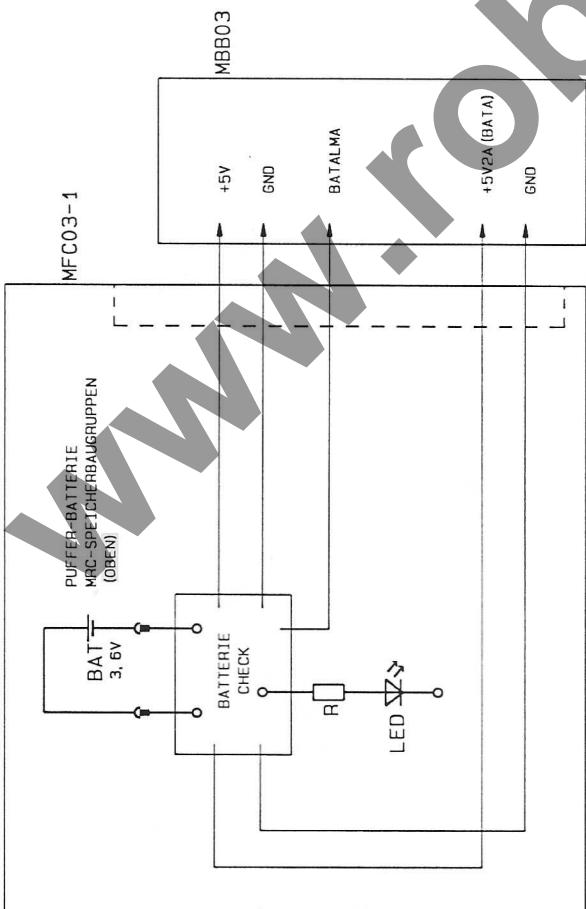
PULSGEBER
ROBOTER

Änderung	Datum	Name	Norm	Datum	Bearb.	SEL	MRC / MFC03 (MBB03)	PLAN-NR.: MRC00012
				12. Jan. 1998	Gehr.		PUFFERBATTERIEN	=
							OHNE ANPASS-ST.	+ BI 212
								47 BI
							Te1.08166/9039	Fax 08166/9039

215

211

0 1 2 3 4 5 6 7 8 9



PULSGEDEER
ROBOTER

Aenderung	Datum	Datum	MRC/MFC03 (MBB03)	PLAN-NR.: MRC00012
		Bearb., SEL	PUFFERBATTERIEN	Kammerfeldstr. 1 85391 Altershausen
		Gepf.	Urspr.	+ OHNE ANPASS-ST.
		12.Jan.1998	Ers. f.	Te1.08166/9039 Fax 08166/9039
	Name	Norm		

211	MBB03	+5V	GND	BAT ALM D

212	MBB03	+5V	GND	BAT ALM A

4781	MBB03	+5V2x(BAT)	GND	CN1

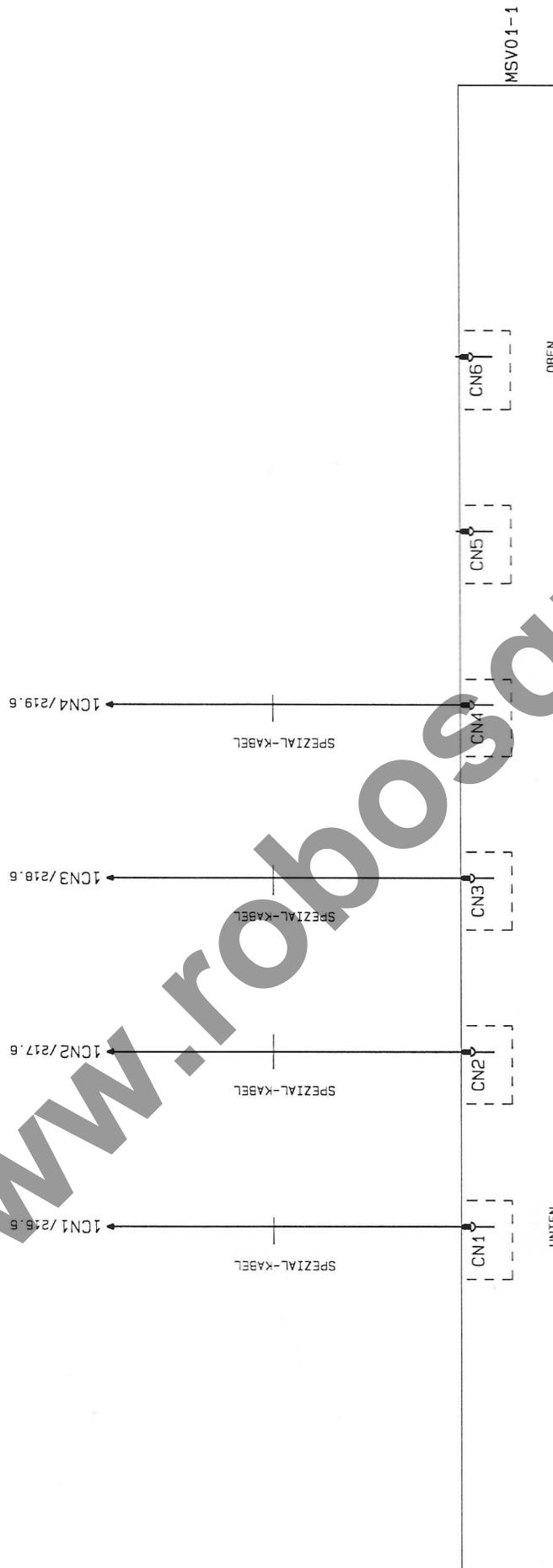
215	MBB03	+5V2D(BATO)	GND	CN1

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6

0 1 2 3 4 5 6

0 1 2 3 4 5 6



SERO-KONTROLLKABEL
ROBOTER ACHSE 1

NICHT BELEGT

SERO-KONTROLLKABEL
ROBOTER ACHSE 2

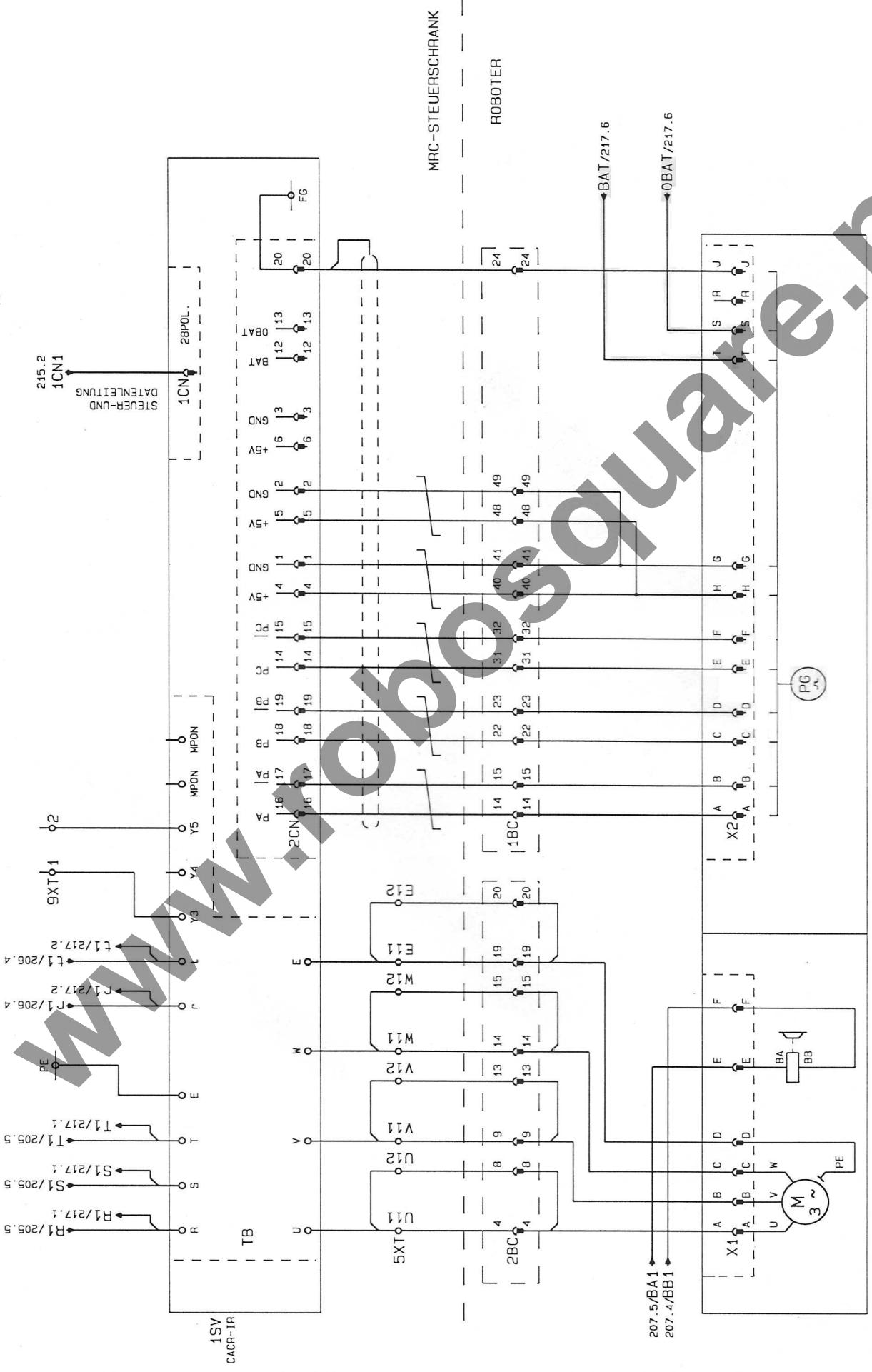
NICHT BELEGT

SERO-KONTROLLKABEL
ROBOTER ACHSE 3

NICHT BELEGT

SERO-KONTROLLKABEL
ROBOTER ACHSE 4

212		Datum	Bearb.	MRC/MSV01-1 (MBB03)	MRC/SP100, SP160 / HANDLING	MOTOMAN roboTec GmbH Kammerfeldstr. 1 85391 Aulnhausen Tel. 08166/90-0 Fax 08166/9039	PLAN-NR.: MRC00012 OHNE ANPASS ST.	=
			SEL	Gepr. : 12. Jan. 1998	Ers. d.			+
Änderung	Datum	Name	Norm	Urspr.				B1 215 47 B1



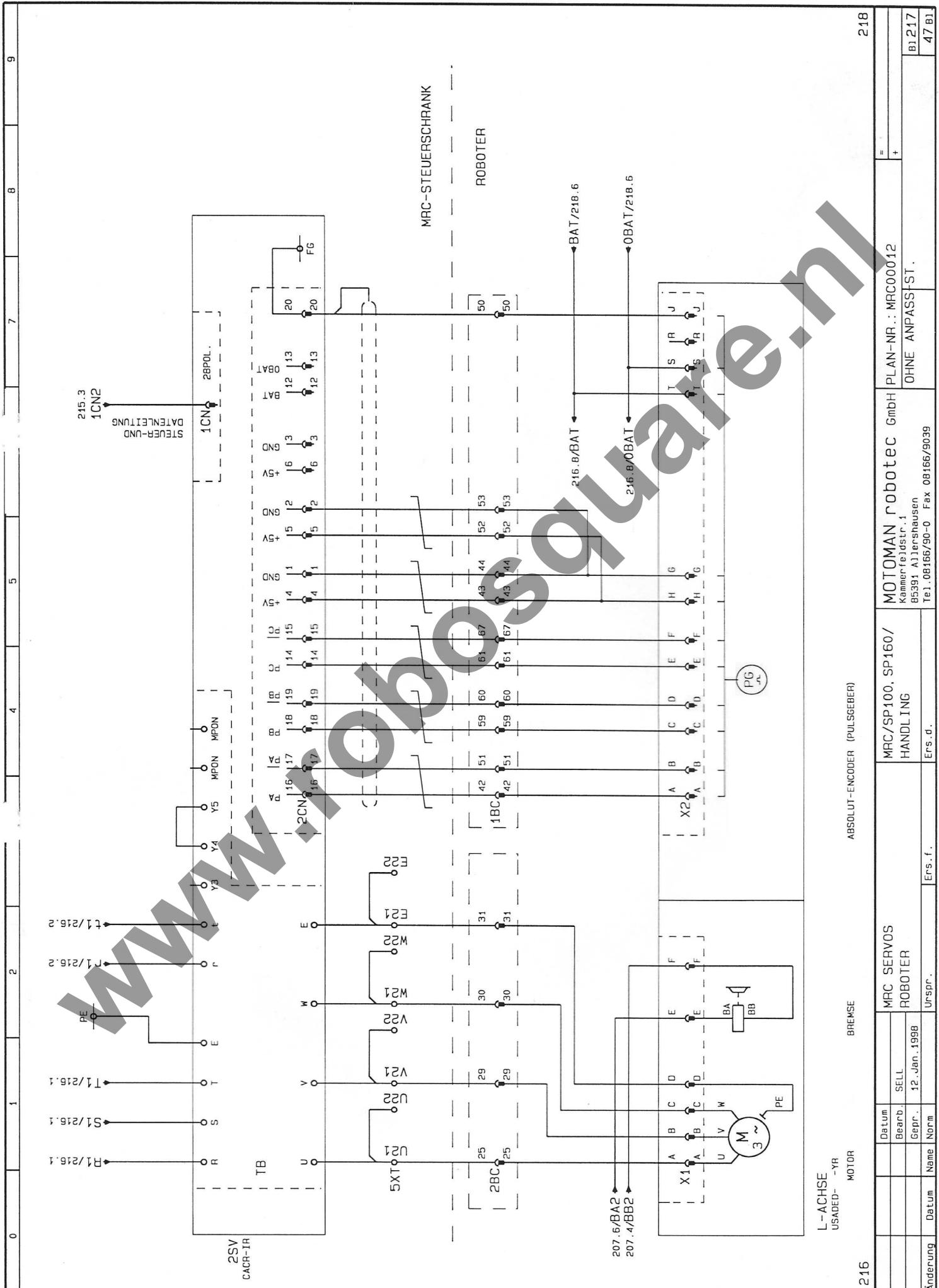
S-ACHSE
USADED - -YR
MOTOR

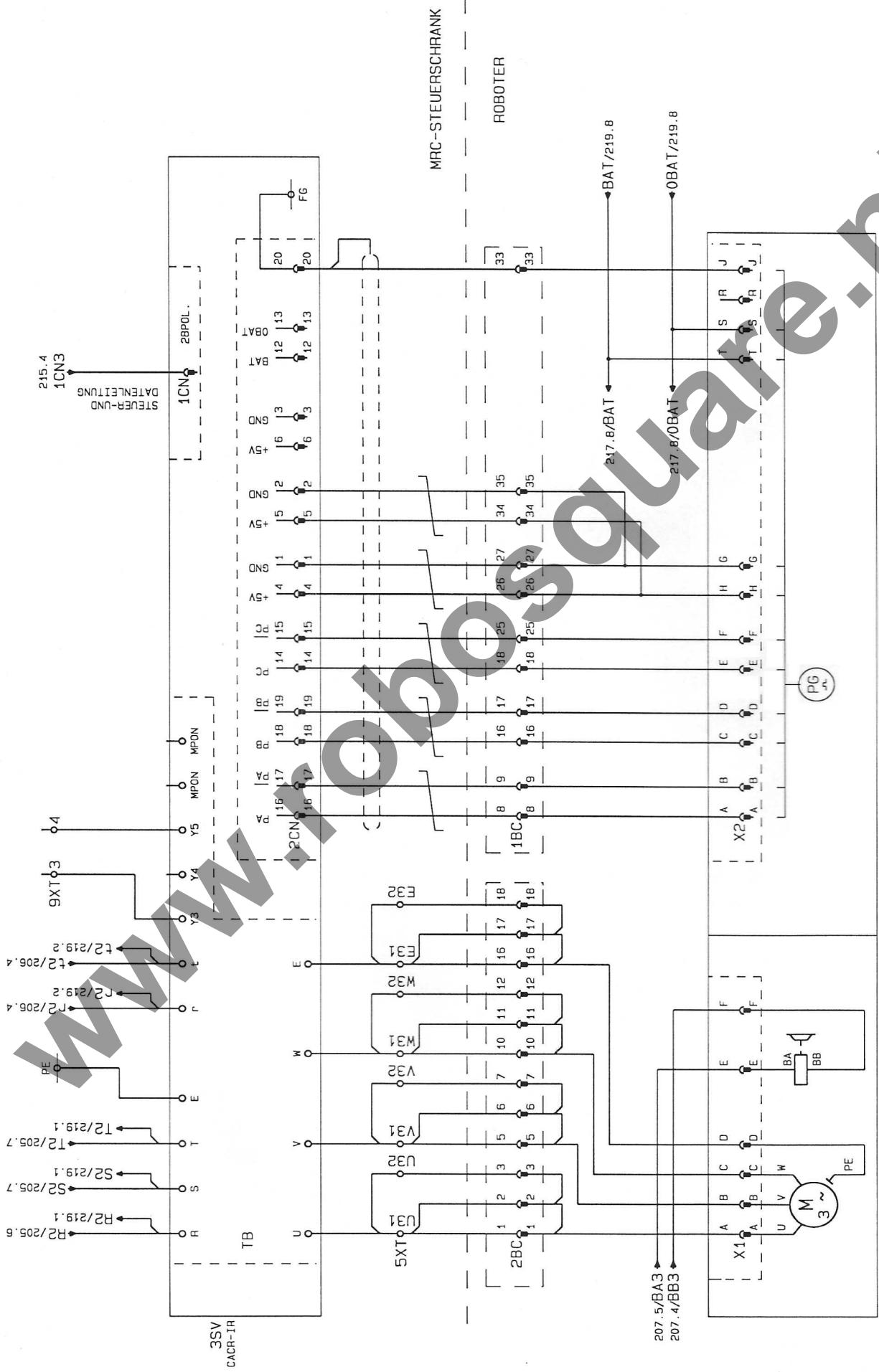
BREMSE

ABSOLUT-ENCODER (PULSGEBER)

10

215		Datum	MÄC SERVOS	MÄC/SP100, SP160 /	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
		Bearb.	SELL	HANDLING	Kammer (Feldjäger, 1	=
		Gepr.	12.Jan.1998		85391 A) Jershausen	+
			URSPR.		Tel. 08166/90-0 Fax 08166/9039	
			Ers. f.	Ers. d.	OHNE ANPASSST.	
						Bl. 216
						47 Bl.





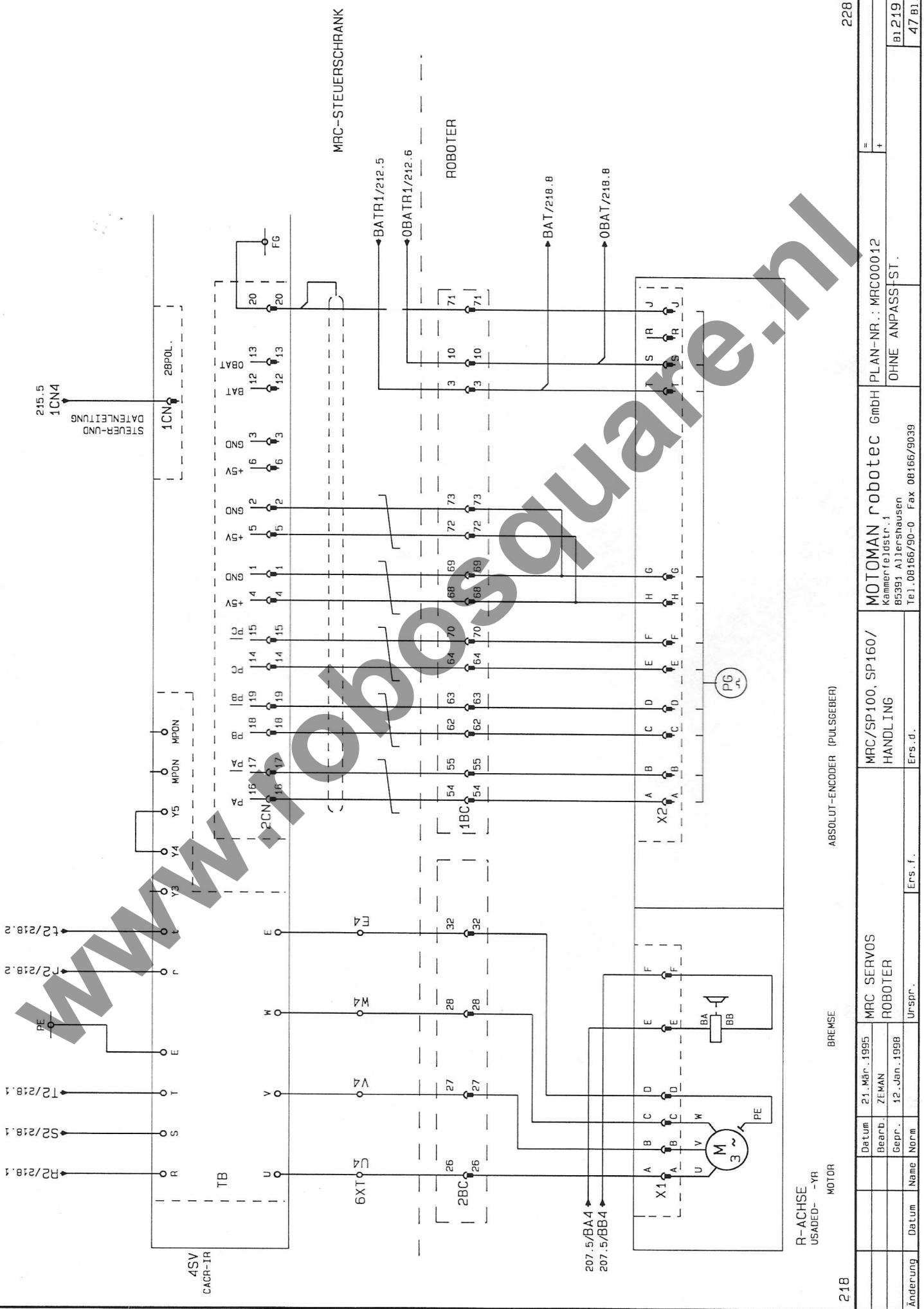
U-ACHSE
USADED- -YR
MOTOR

BREKSE

ABSOLUT-ENCODER (PULSgeber)

217

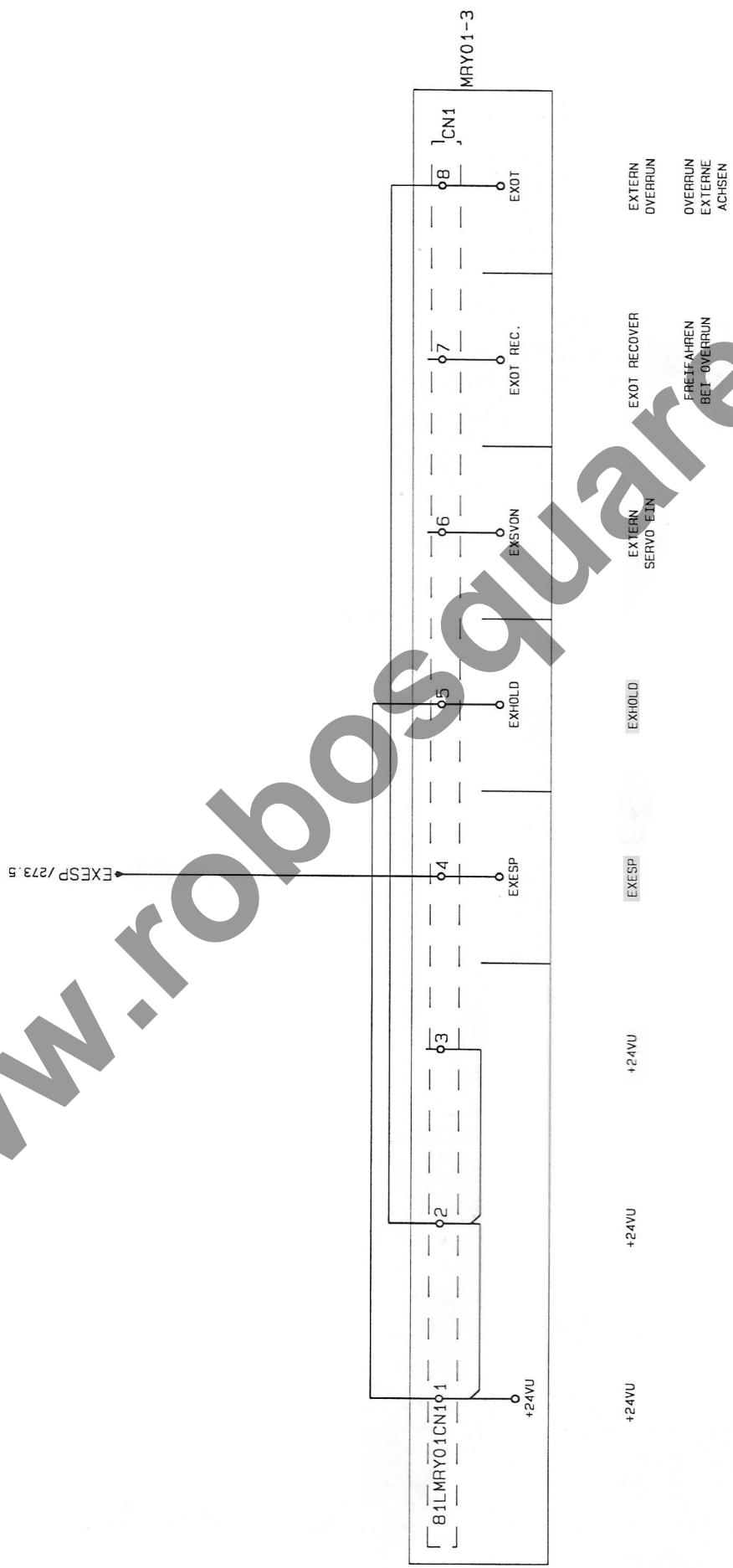
		Datum	21. Mär. 1995	MRC SERVOS	MRC/SP100, SP160/	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
		Beard	ZEMAN	ROBOTER	HANDLING	Kammerf.1 85391 Altershausen	= + OHNE ANPASS ST.
		Gepr.	12. Jan. 1998	Urspr.	Ers. f.	Tel. 08166/90-0	BJ 218 47 BJ
Änderung	Datum	Name	Norm		Ers. d.	Fax 08166/9039	



0	1	2	3	4	5	6	7	8	9
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0	1	2	3	4	5	6	7	8	9
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0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

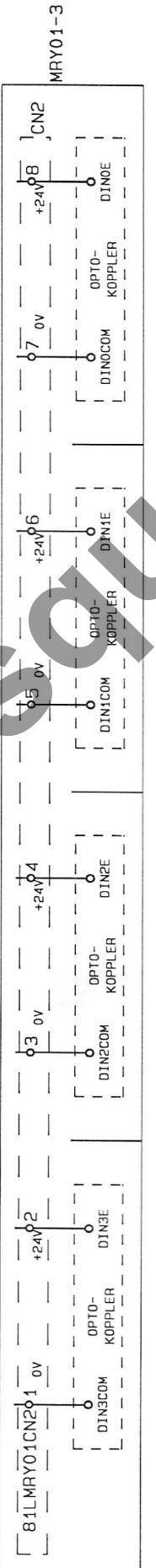


81LMRY01CN1 = ROBOTER-SCHNITTSTELLE

219

Änderung	Datum	Name	Norm	Datum	Bearb.	MRC/MRY01-3	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012	=
				Gepr.		SYST. EINGÄNGE	Kammerfeldstr. 1 85391 Allershausen Tel. 08166/90-0 Fax 08166/9039	OHNE ANPASSST.	+ B1 2228 47 B1

229

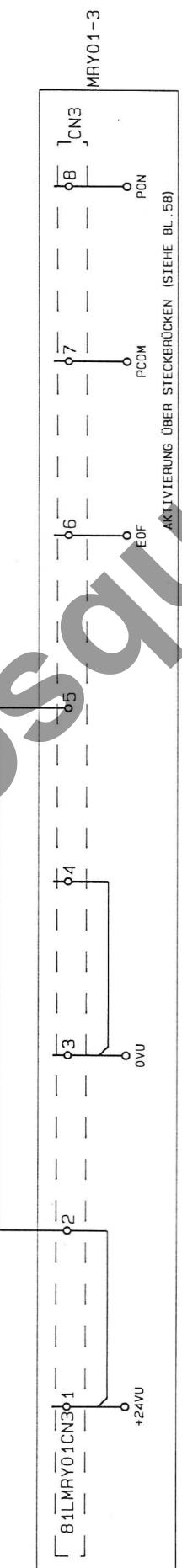


81LMRY01CN2 = ROBOTER-SCHNITTSTELLE

228

				MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
				Kammerfeldstr. 1 85391 Allershausen	OHNE ANPASSST.
				Tel. 08166/90-0 Fax 08166/9039	B1 229
				Ers. d.	47 B1
Änderung	Datum	Name	Urspr.	MRC/SP100, SP160 / HANDLING	=
	Datum	Bearb.	SEL	MRC/SP100, SP160 / HANDLING	+

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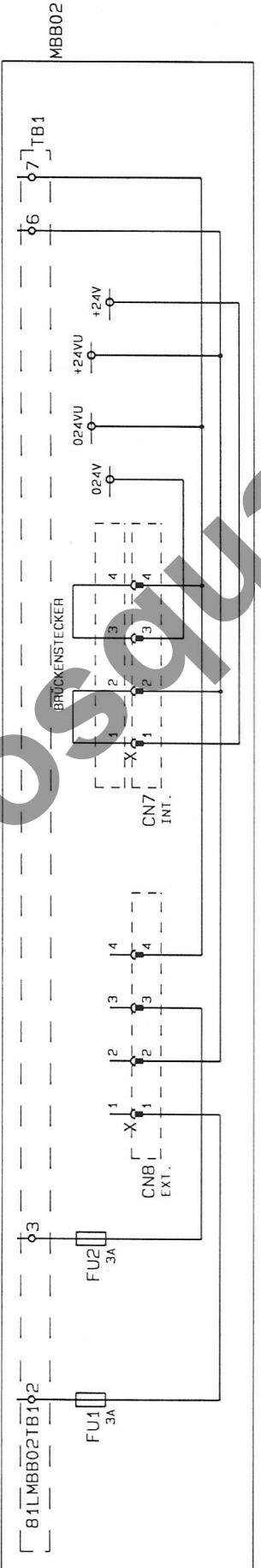


81LMRY01CN3 = ROBOTER-SCHNITTSTELLE

229

Änderung	Datum	Name	Norm	Datum	Bearb.	MRC/MRY01-3	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
						SYSTEM EINGÄNGE	Kammerfeldstr. 1 85391 Allershausen	+
						Ers. f.	Ers. d.	OHNE ANPASSST.
								Tel. 08166/90-0 Fax 08166/9039
								BI 230
								47 BI

231



BRÜCKENSTECKER FÜR EXTERNE
STROMVERSORGUNG 24VDC

BRÜCKENSTECKER FÜR INTERNE
STROMVERSORGUNG 24VDC

STROMVERSORGUNG
DER EIN-/AUSGÄNGE

+24VU 024VU

0V
EXTERN

B1LMBB02TB1 = ROBOTER-SCHNITTSTELLE

230

Änderung		Datum	Name	Norm	Datum	Datum	Bearb.	SEL.	MRC/MBB02	MRC/SP100, SP160/ HANDLING	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
									VERSORGUNG 24VDC EXTERN	Ers. d.	OHNE ANPASSST.	=
									12.Jan.1998		08166/9039	B1 231
									Urspr.			47 Bl.

232

81XMBB02CN5 = ROBOTER-SCHNITTSTELLE

231

0	1	2	3	4	5	6	7	8	9
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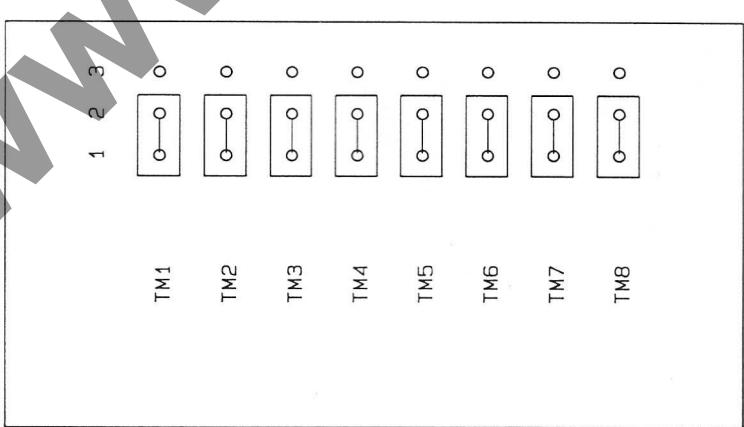
81XMBB02CN5	10	11	12	13	14	15	16	17	18	19	20	CN5
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MBB02

Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.	Tei.08166/90-0	Fax 08166/9039	OHNE ANPASSST.	B1 232	47.B1
							MRC/SP100, SP160 / HANDLING	MOTOMAN robo tec GmbH Kammerfeldstr. 1 85391 Allershausen	PLAN-NR : MRC00012 +		

233

0	1	2	3
4	5	6	7
8	9		



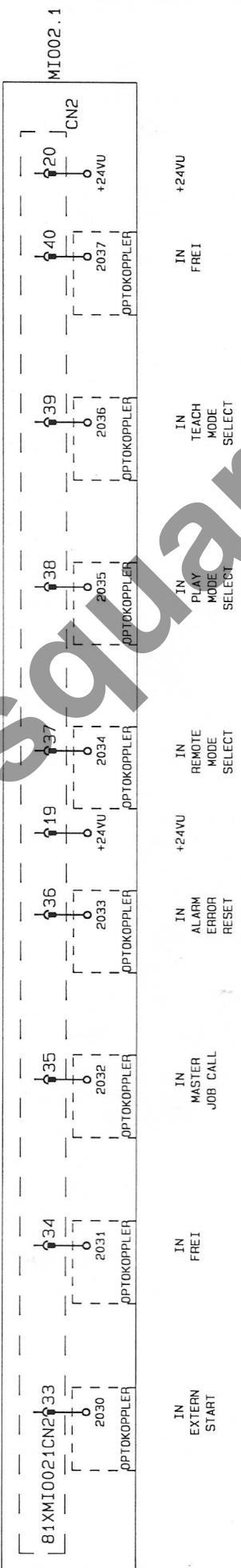
	1	2	3	BRÜCKE 1-2	BRÜCKE 2-3
TM1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	EXT. POWER OFF INAKTIV	X
TM2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	POWER OFF INAKTIV	X
TM3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	EXT. POWER ON INAKTIV	X
TM4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	SHOCK SENSOR INAKTIV	X
TM5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	UNIV_IN	X
TM6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	SHOCK2	X
TM7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	OT	X
TM8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	UNIVIN_2	X

STANDARD-EINSTELLUNG
YASAKAWA

RANGIERBRÜCKEN AUF BAUGRUPPE MBB02

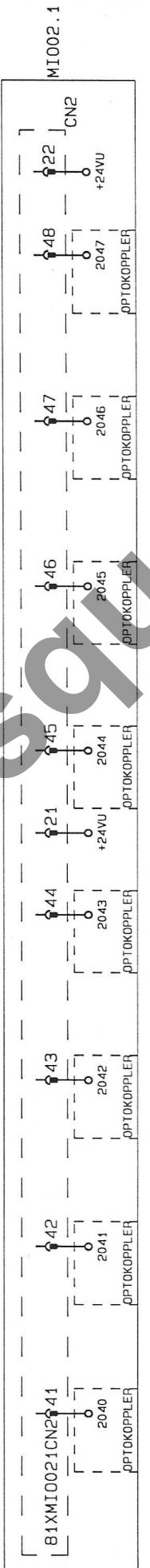
Änderung	Datum	Name	Norm	Datum	Bearb.	SEL	MRC/SP100, SP160/ HANDLING	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012 OHNE ANPASSST.
				12. Jan. 1998	Urspr.	Ers. f.		Te 1.08166/90-0 Fax 08166/9039	B1.233 47.B1

81XMI0021CN2 = ROBOTER-SCHNITTSTELLE



		Datum	MRC/MI002.1	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
		Beard.	SELL	Kammerfeldstr. ¹	=
		Gepr.	12.Jan.1998	85591 Altershausen	+
Änderung	Datum	Name	Urspr.	MRC/SP100, SP160 /	OHNE ANPASS-ST.
		Norm	Ers. f.	HANDLING	
				Ers. d.	
				Tel. 08166/90-0 Fax 08166/9039	
					BI 235
					47 BI

B1XMI0021CN2 = ROBOTER-SCHNITTSTELLE



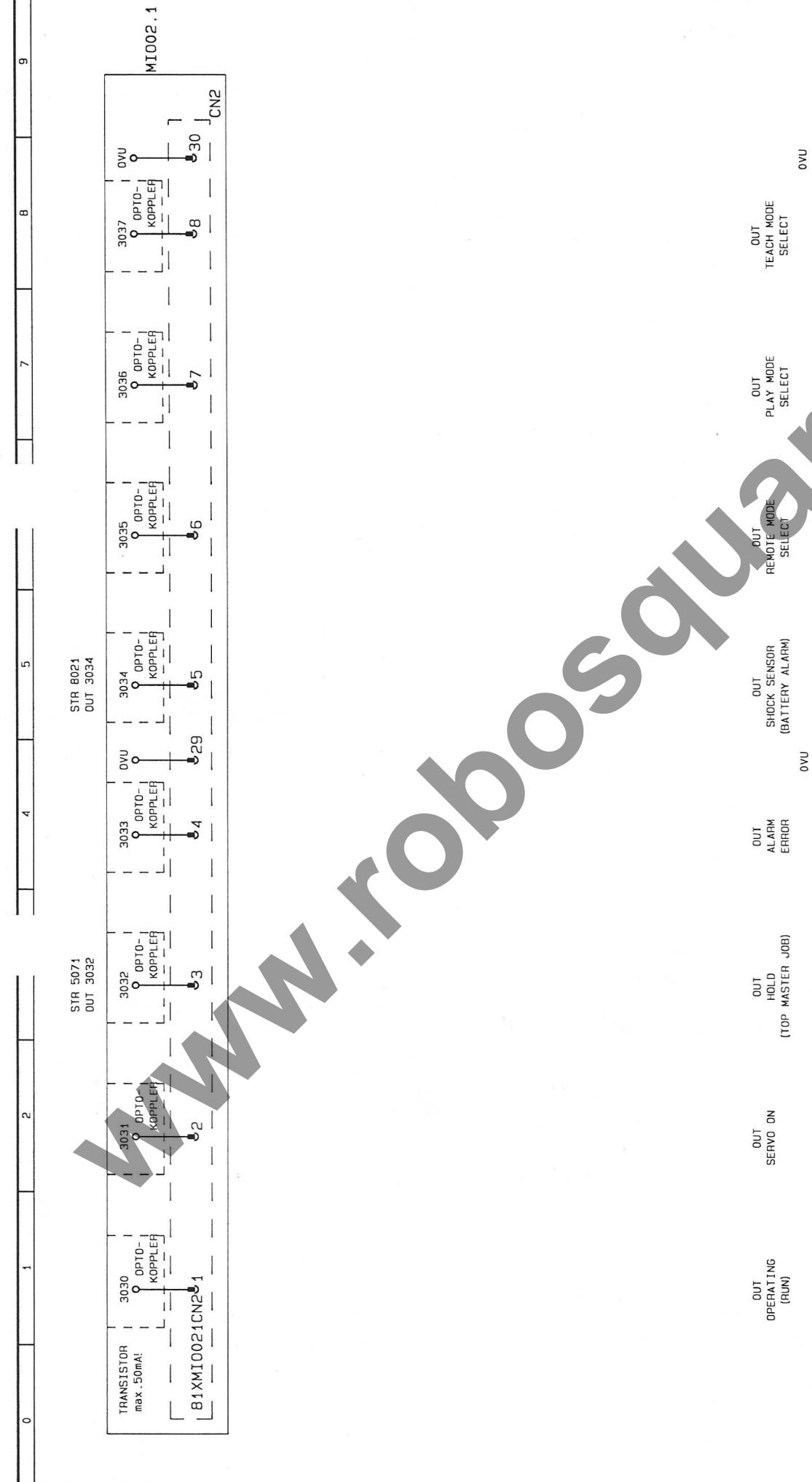
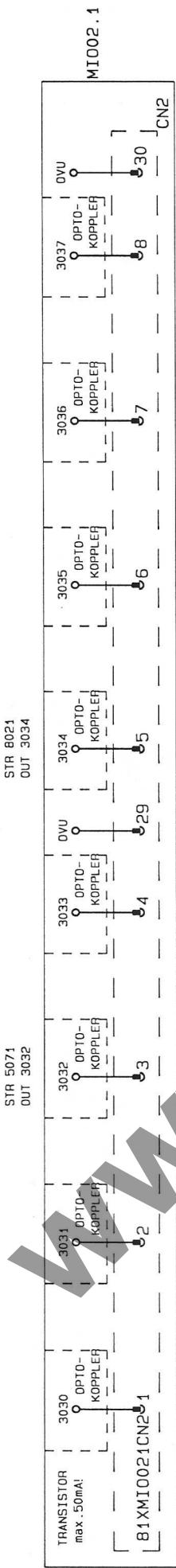
+24VU

IN
FREI

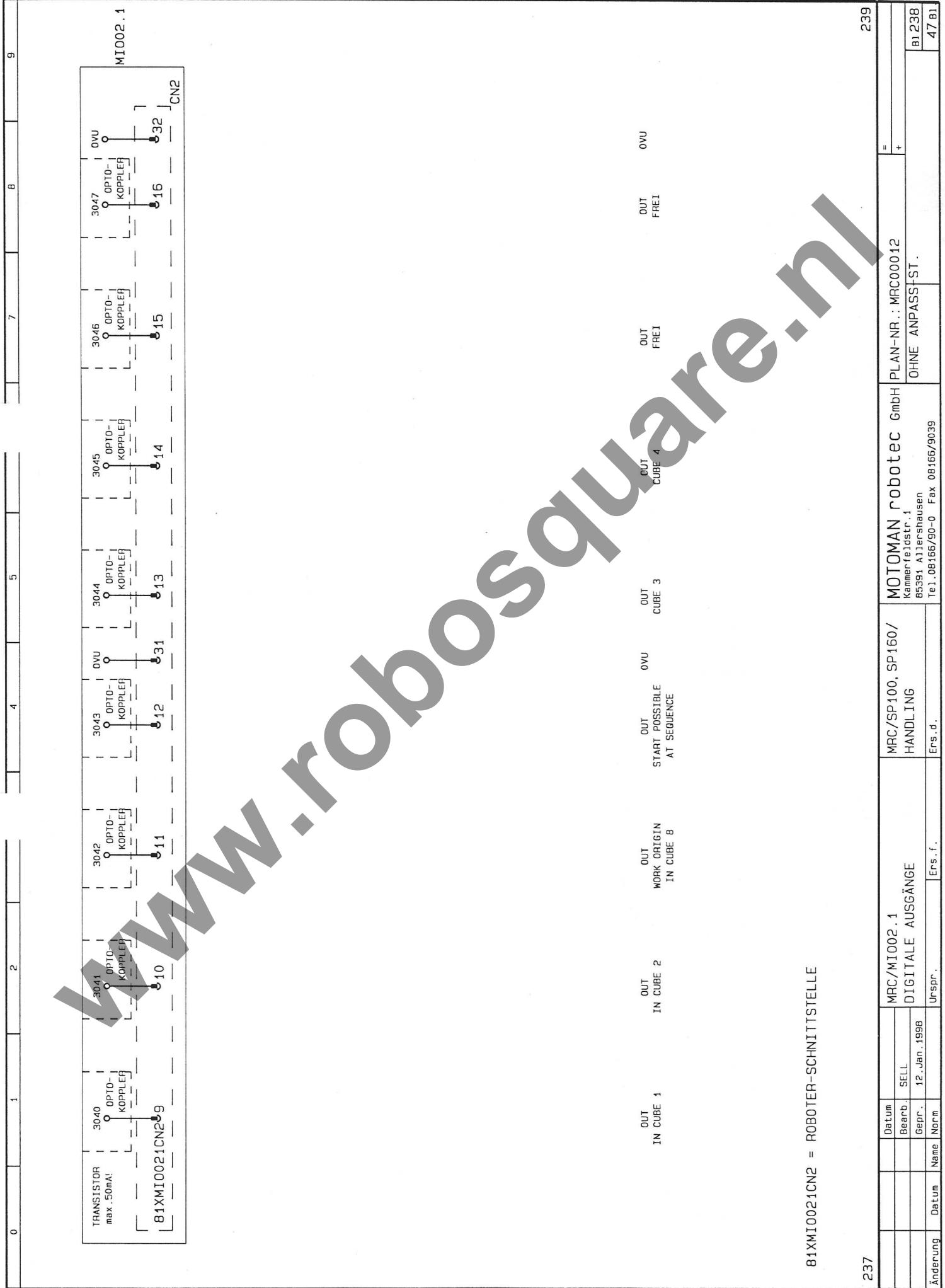
IN
FREI
INTERFERENCE 4
IN
INTERFERENCE 3
IN
INTERFERENCE 2
IN
FREI

INTERFERENCE 3

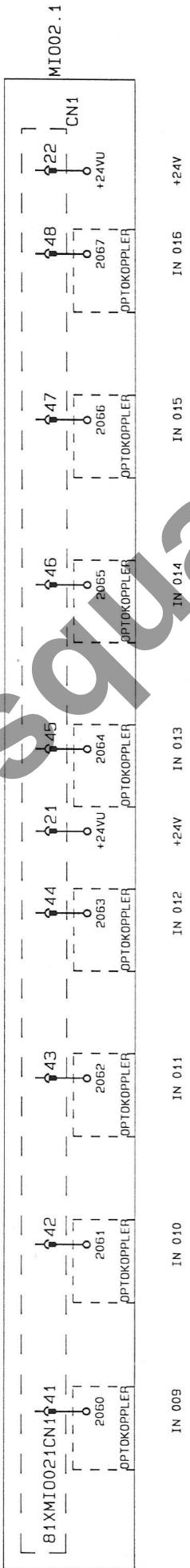
IN INTERFERENCE 1 IN INTERFERENCE 2 IN FREE

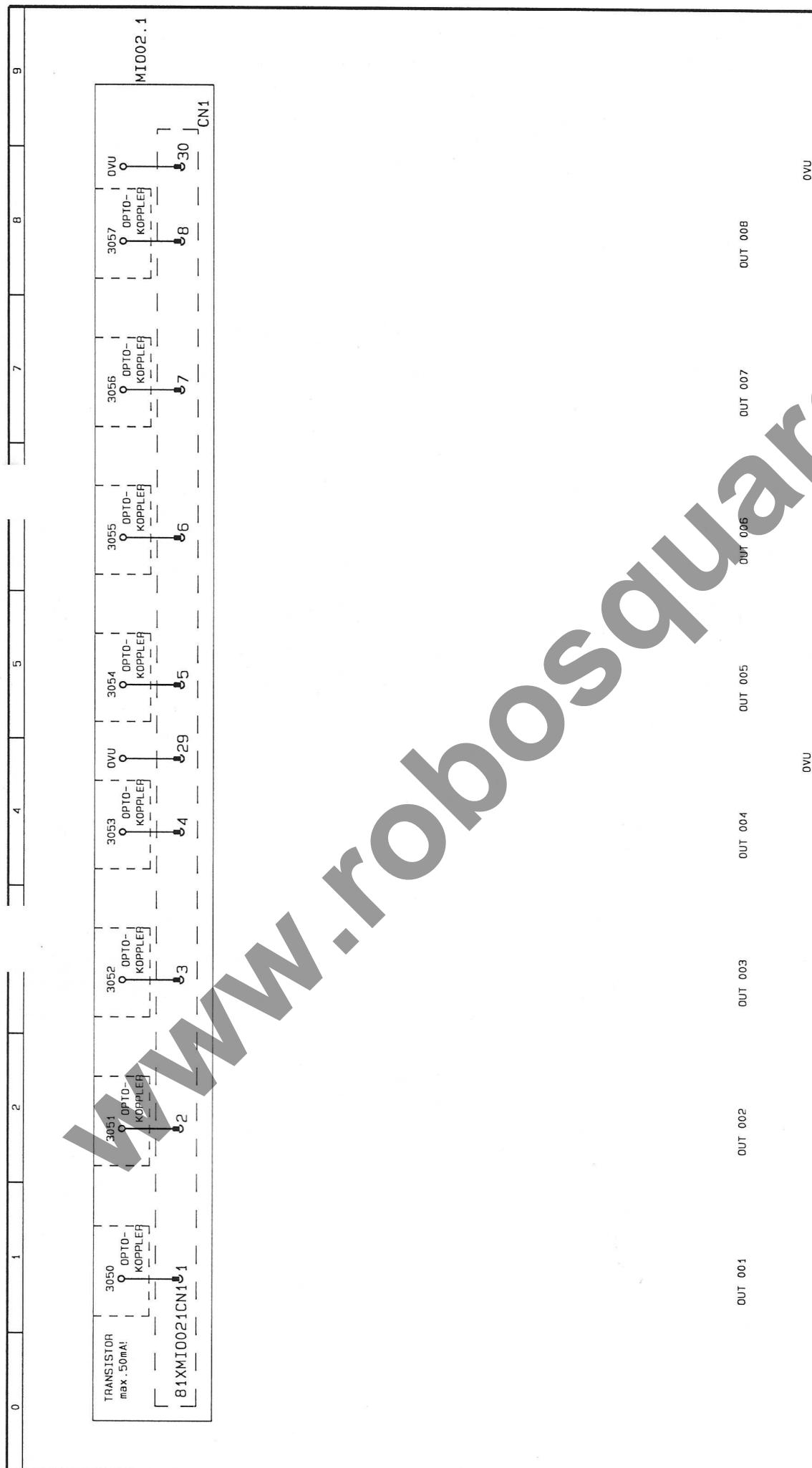


B1XMI0021CN2 = ROBOTER-SCHNITTSTELLE



81XMI0021CN1 = ROBOTER-SCHNITTSTELLE



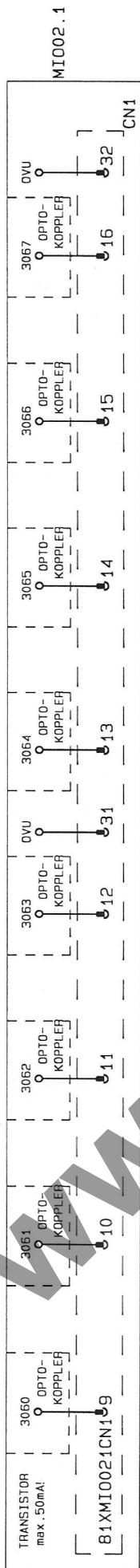


81XMI0021CN1 = ROBOTER-SCHNITTSTELLE

240

240	Anforderung	Datum	Name	Norm	Datum	Bearb.	MRC/M1002 .1	MRC/SP100, SP160/	MOTOMAN robotec	gmbH	PLAN-NR.: MRC00012
						SELL	DIGITALE AUSGÄNGE	HANDLING	Kammertreidstr. 1 85391 Altershausen	OHNE ANPASS ST.	= +
241	Anforderung	Datum	Name	Norm	Gepr.	12.Jan.1998	Urspr.	Ers. f.	Ers. d.	Tei. 08166/90-0 Fax 08166/9039	81.241 47 B1

9
8
7
6
5
4
3
2
1
0



OUT 009 OUT 010 OUT 011 OUT 012 OUT 013 OUT 014 OUT 015 OUT 016

0VU 0VU 0VU 0VU 0VU 0VU 0VU

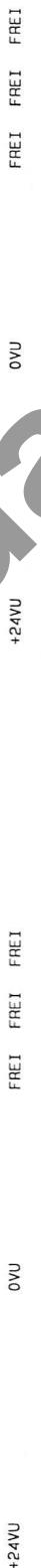
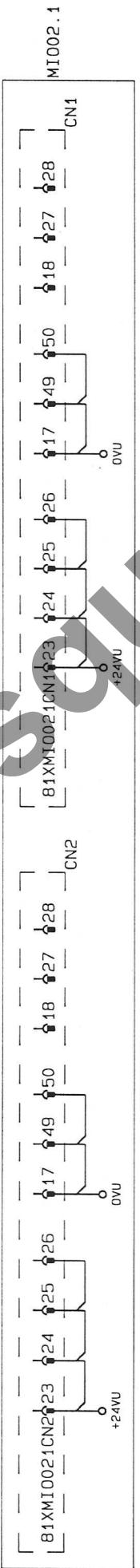
81XMI0021CN1 = ROBOTER-SCHNITTSTELLE

241

Änderung	Datum	Name	Norm	MRC/MI002.1		MRC/SP100, SP160 / HANDLING	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012	= +
				SELL	Gepr.				
	12.Jan.1998	Urspr.	Ers.f.	12.Jan.1998	Urspr.	Teil 08166/90-0	Fax 08166/9039	OHNE ANPASS ST.	B1 242
									47 B1

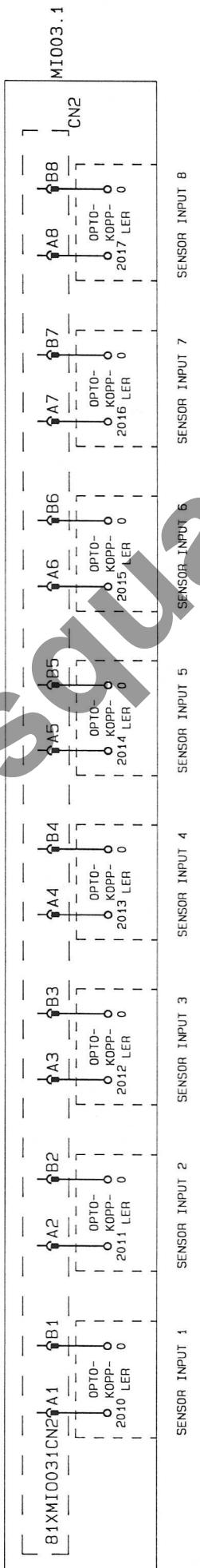
243

81XMX10021CN2 = ROBOTER-SCHNITTSTELLE
81XMX10021CN1 = ROBOTER-SCHNITTSTELLE



		Datum	MRC/MI002.1	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
	Board.	SELL		Kammerfeldstr. 1 85391 Aistershausen	=
	Gepr.	12.Jan.1998		TeL.08166/90-0 Fax 08166/9039	+
Änderung	Datum	Name	Ers. d.	OHNE ANPASSST.	BI 243
		Norm			47 B1
		Urspr.			

0	1	2	3	4	5	6	7	8	9
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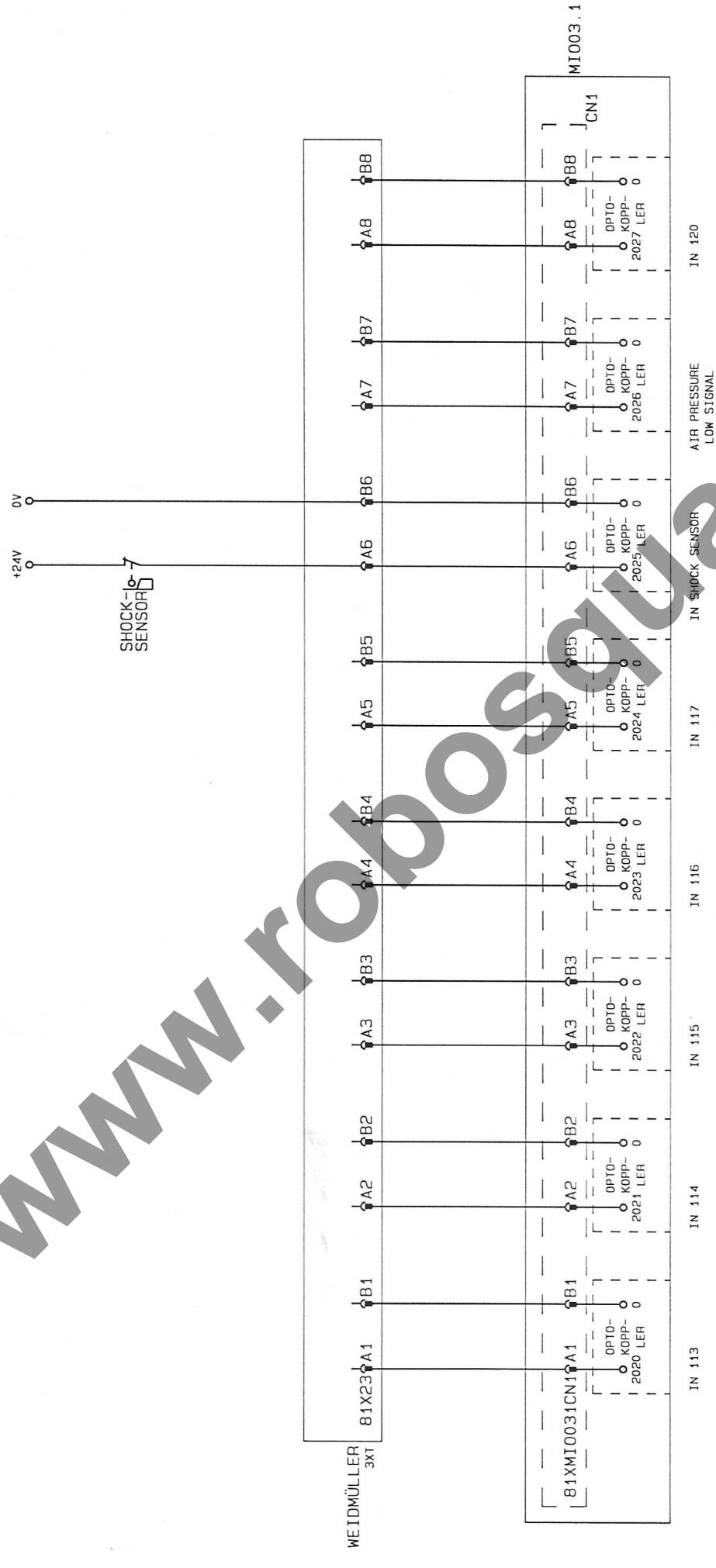
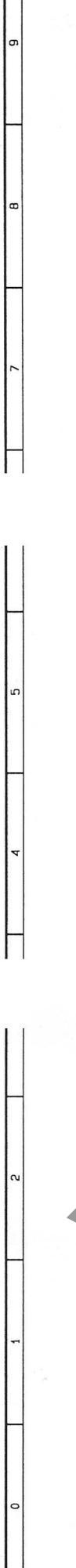
81XMI0031CN2 = ROBOTER-SCHNITTSTELLE

81X24 = ROBOTER_SCHNITTSTELLE MRC

243

Änderung	Datum	Name	Norm	Datum	Bearb.	SELL	MRC/M1003	MAC/SP100, SP160 / HANDLING	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012 Kammer für Justr. 1 85391 Altershausen Tel. 08166/90-0 Fax 08166/9039	= + OHNE ANPASS-ST. B1 244 47 B1
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245

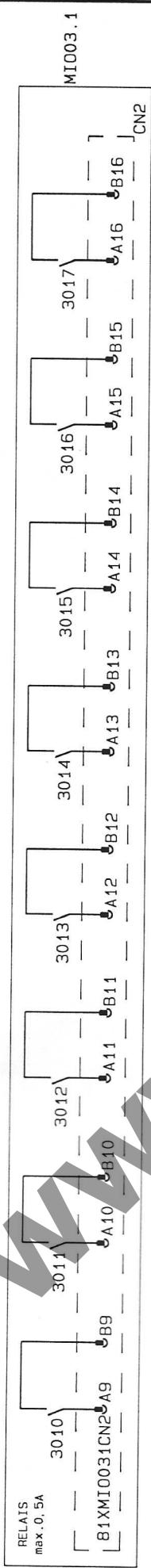


81XMI0031CN1 = ROBOTER-SCHNITTSTELLE
81X23 = ROBOTER-SCHNITTSTELLE MRC

244

Änderung	Datum	Name	Norm	MRC / MI003	MRC / SP100, SP160 /	PLAN-NR.: MRC00012	=
				DATEN EINGÄNGE	HANDLING	Kammerfeldstr. 1	
		Gepr.	12. Jan. 1998	URSPR.	Ers. f.	85391 Almershausen	OHNE ANPASSST.
						TEL. 08166/90-0	Fax 08166/9039
							BI 245
							47 BI

246



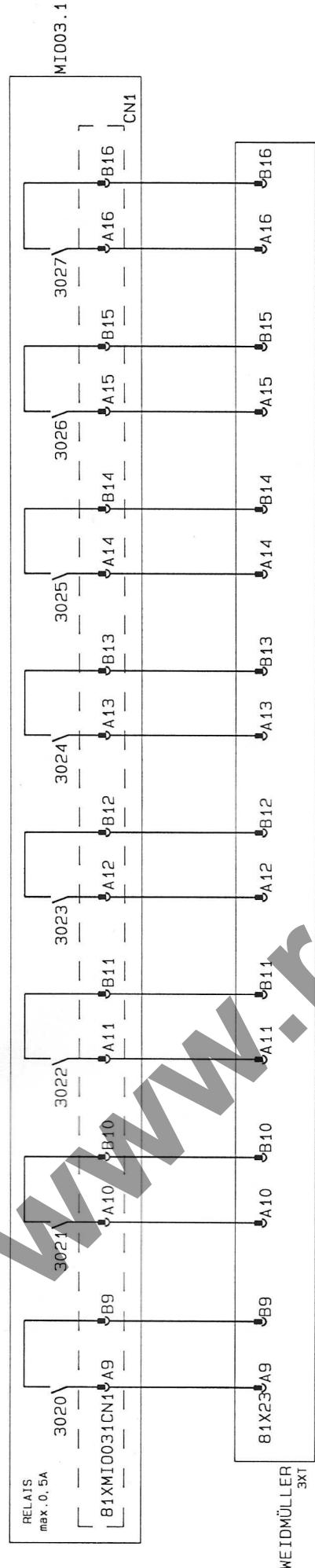
B1XMI0031CN2 = ROBOTER-SCHNITTSTELLE
B1X24 = ROBOTER-SCHNITTSTELLE MRC

B31X24 = ROBOTER-SCHNITTSTELLE MRC

RELAY 1-1 OUT
RELAY 1-2 OUT
RELAY 2-1 OUT
RELAY 2-2 OUT
RELAY 3-1 OUT
RELAY 3-2 OUT
RELAY 4-1 OUT
RELAY 4-2 OUT

245			Datum Bearb.	MRC / MI003 SELL	MRC / SP100, SP160 / HANDLING	MOTOMAN robotec GmbH Kammer Idstr. 1 85391 Altershausen	PLAN-NR.: MRC00012 OHNE ANPASSST.	= +
	Änderung	Datum	Name Norm	Urspr.	Ers. f.	Ers. d.	Tel. 08166/90-0 Fax 08166/9039	B1 246 47 B1

9
8
7
6
5
4
3
2
1
0

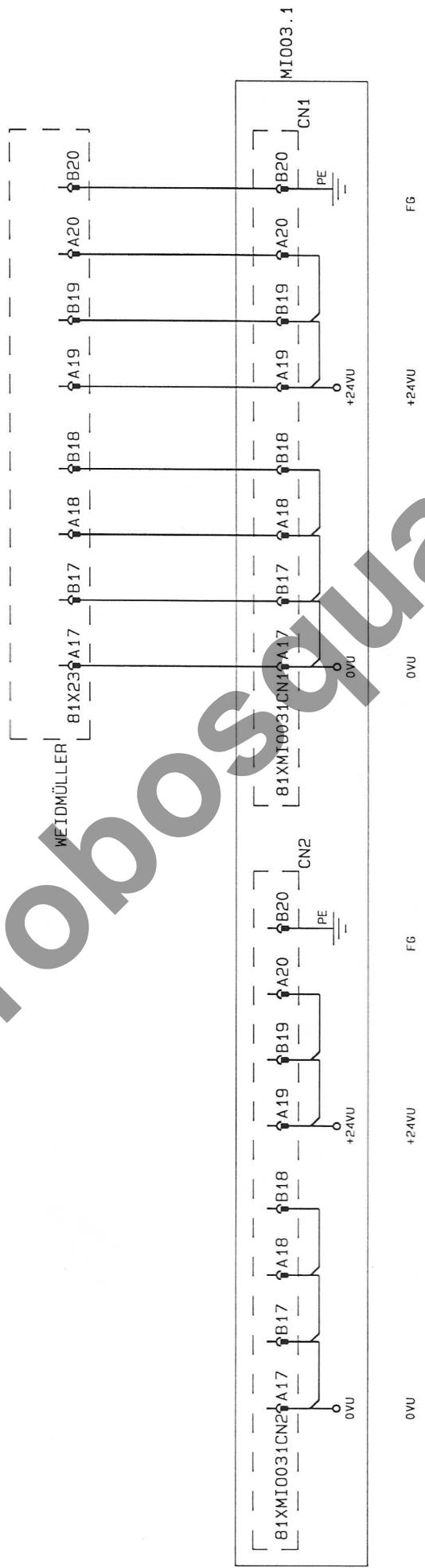


81XMI0031CN1 = ROBOTER-SCHNITTSTELLE
81X23 = ROBOTER-SCHNITTSTELLE MRC

246

248

Änderung		Datum	Datum	MRC/MI003 DIGITALE AUSGÄNGE	MRC/SP100, SP160/ HANDLING	MOTOMAN robotec GmbH Kammer für Indstr. 1 85351 Allershausen Tel.: 08166/90-0 Fax 08166/9039	PLAN-NR.: MRC00012 + OHNE ANPASS-ST.	Bl. 247 47 Bl.
				Urspr. Name Norm	Ers. f.			



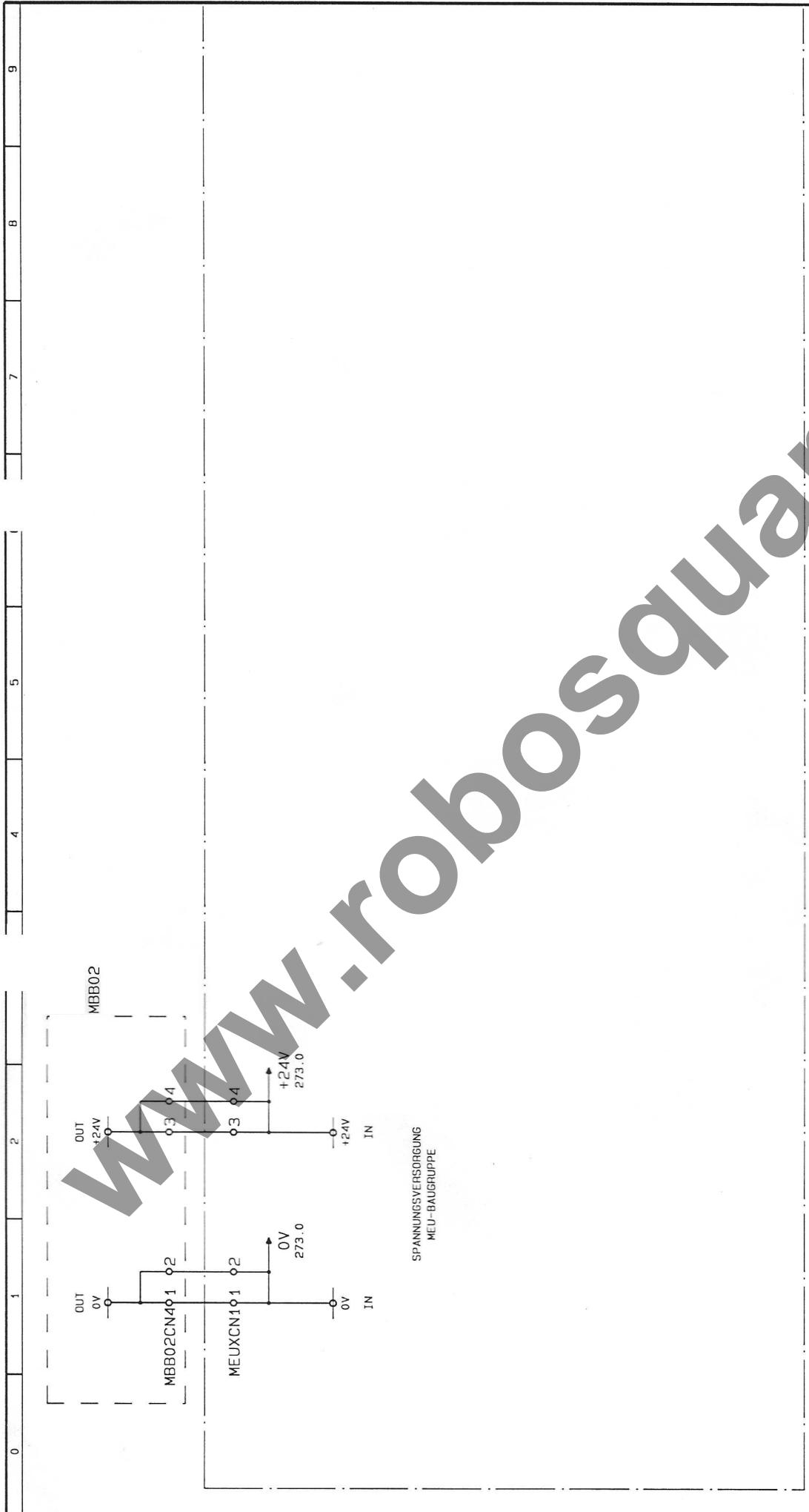
B1XMI0031CN1 = ROBOTER-SCHNITTSTELLE

B81XYM10031CN2 = BOBOTE-B-SCHNITTSTELLE

81X23 = ROBOTER-SCHNITTSTELLE MRC

247

MOTOMAN robotec GmbH
Kammerfeldstr. 1
85391 Allershausen
Tel. 08166/90-0 Fax 08166/9039
OHNE ANPASS-ST.
Ers.-d.



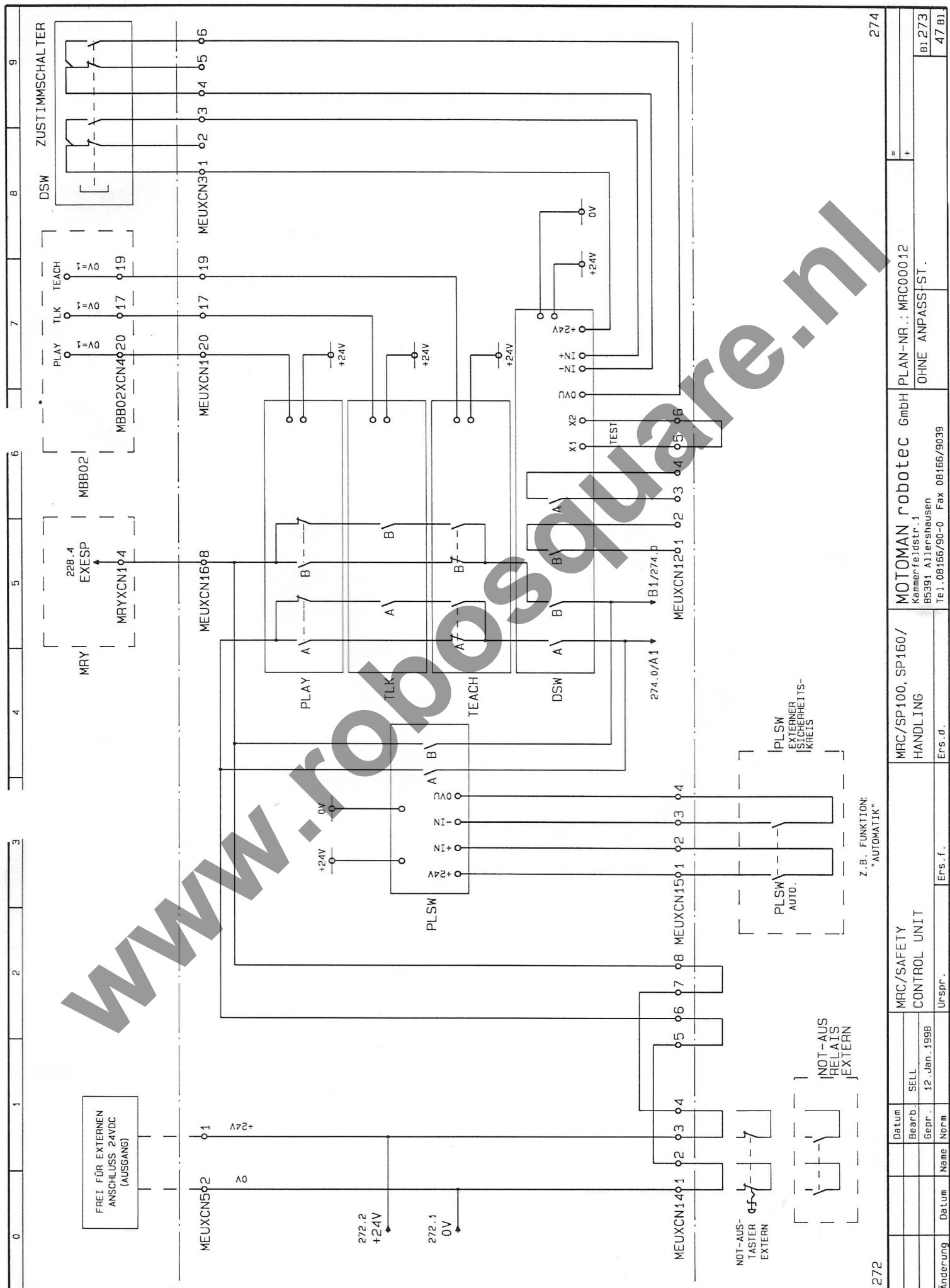
248

MRC/SP100, SP160 /	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
HANDLING	Kammerfeldstr. 1	=
	85391 Altershausen	+
	Tel.: 08166/90-0	OHNE ANPASS-ST.
	Fax 08166/9039	

Änderung	Datum	Name	Norm	Ers.f.	Ers.d.

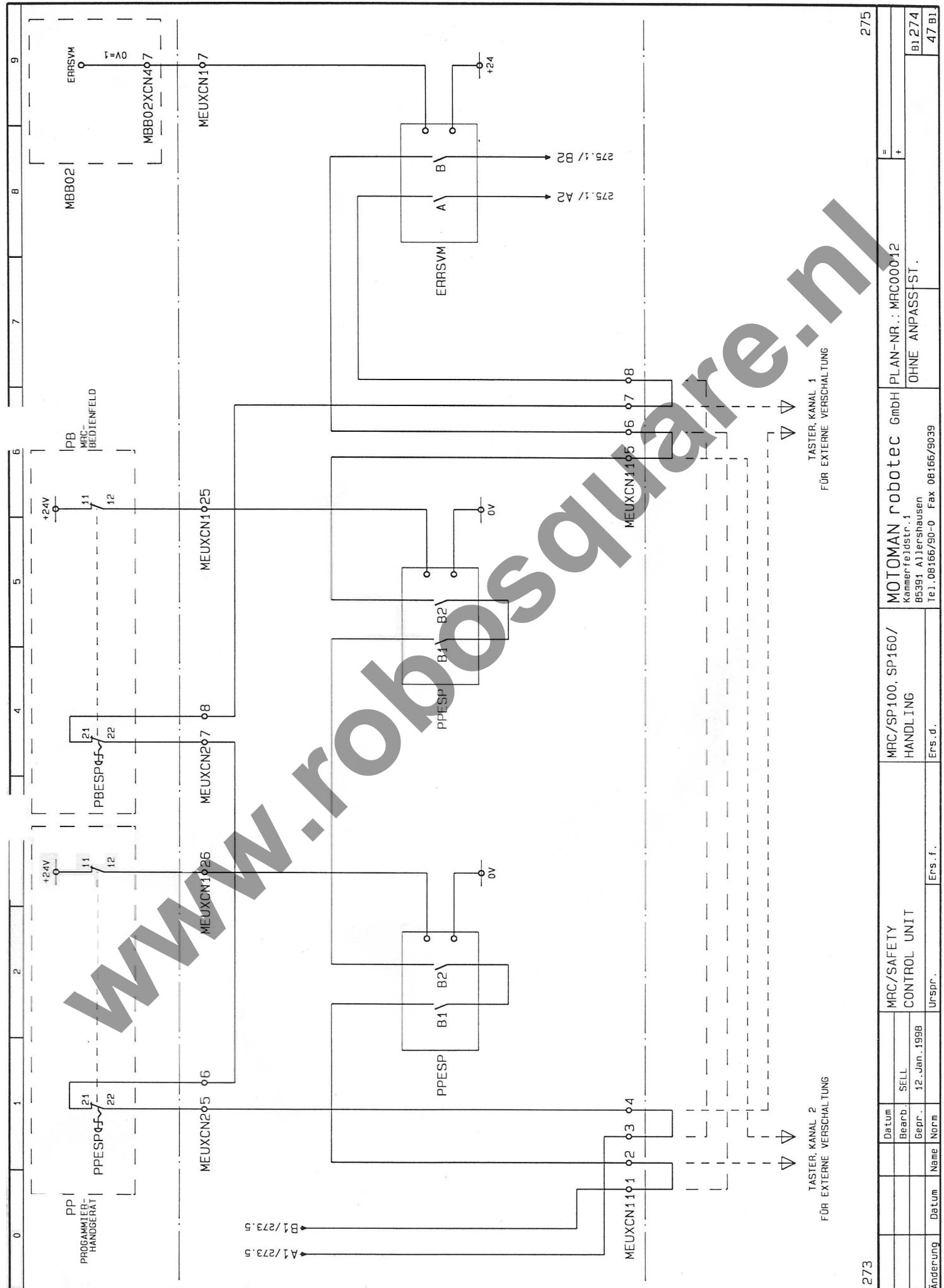
B1 272	
	47 B1

273

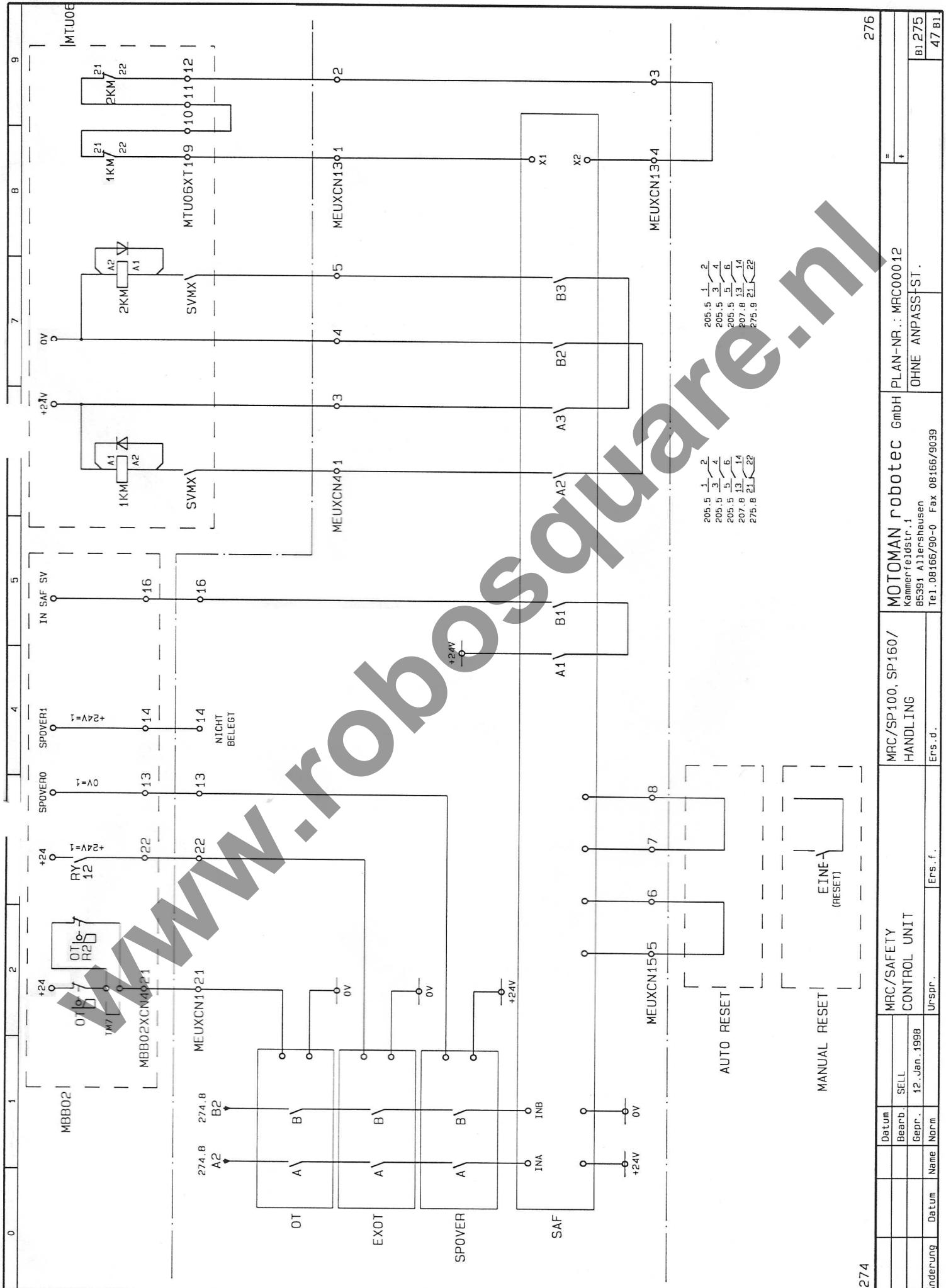


Änderung	Datum	Name	Norm	Datum	Bearb.	MRC/SAFETY	PLAN-NR.: MRC00012
				12.Jan.1998	Gepr.	CONTROL UNIT	OHNE ANPASS.FST.

MR	228.4	EXESP	MBB02	TEACH	0V=1	ZUSTIMMSCHALTER	274
MR	Y				0V=1		
MR	XCN1.04				0V=1		
MEUXCN4.020					0V=1		
MEUXCN4.017					0V=1		
MEUXCN3.01					0V=1		
MEUXCN3.02					0V=1		
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Änderung	Datum	Name	Norm	Ers. f.	URSPR.	MRC/SAFETY CONTROL UNIT	HANDLING	PLAN-NR.: MRC00012 OHNE ANPASSST.	MOTOMAN robotec GmbH	Kammereiflstr. 1 85391 Allershausen	+	275
						Bearb. Gepr.	12.Jan.1998			B1 274		47.B1

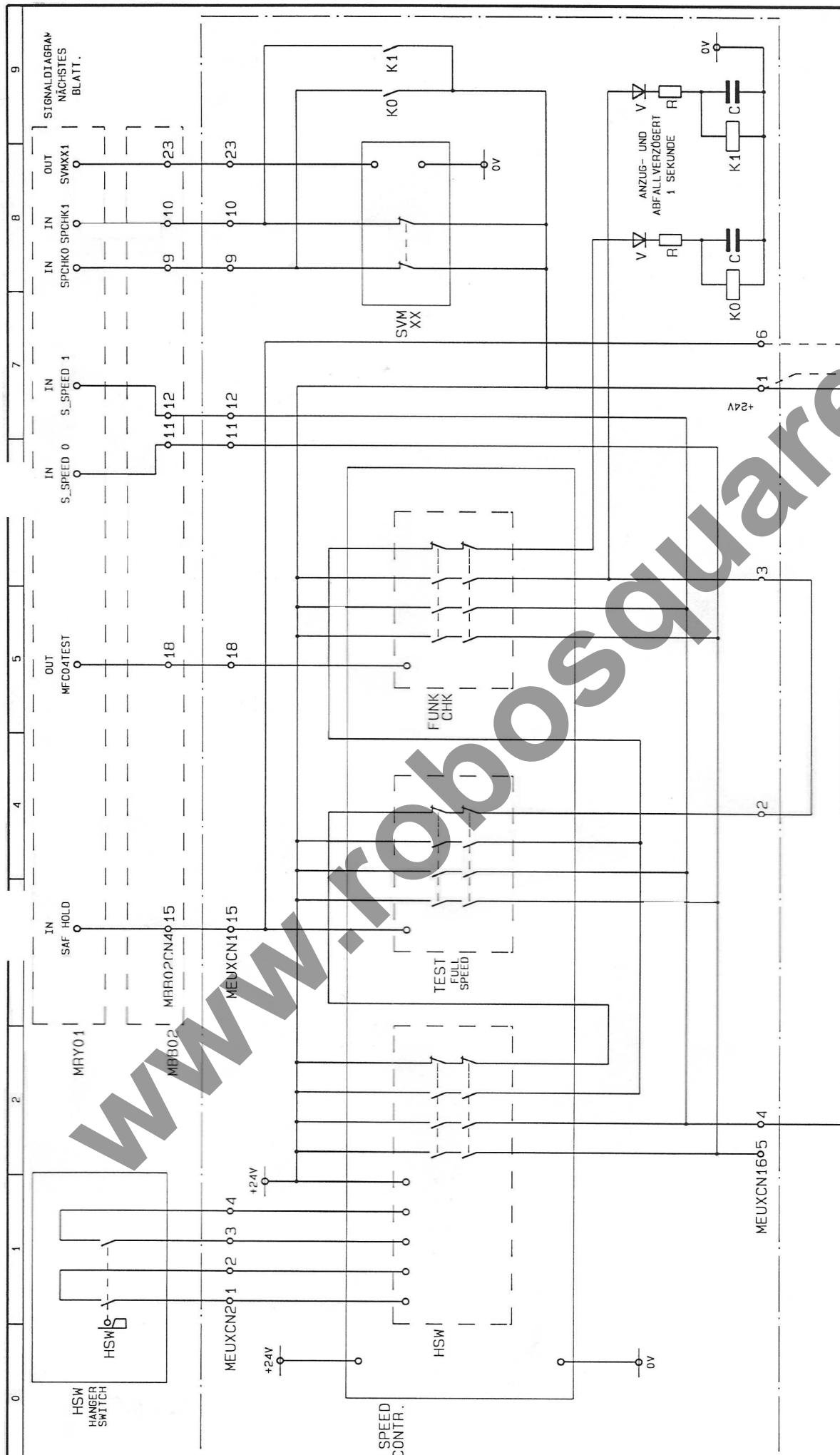


276

274

Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.	MOTOMAN robotec GmbH	PLAN-NR.: MRC00012
				B1 275			Kammerfeinstr., 1 85391 Altershausen	= OHNE ANPASS-ST.

47 B1.



SCHLÜSSEL-SCHALTER
FÜR FUNKTION
TEST MIT VOLLER GESCHWINDIGKEIT

TEST ↔
FULL
BRÜCKE BEI 33mm/s

BRÜCKE BEI 250mm/s

Änderung Datum Name Norm Ers. f. Änderung Datum Name Norm Ers. f.

MRC/SP100, SP160 / MOTOMAN robo tec GmbH PLAN-NR. : MRC0012
Kammerfeldstr. 1 +
85391 Altershausen
Tel. 08166/90-0 Fax 08166/9039

OHNE ANPASSST. B1 276
47 B1

SIGNALDIAGRAMM
GESCHWINDIGKEITS-ÜBERWACHUNG

S-SPEED0	
0	1
0	0 % 250mm/ sec
1	100% 250mm/ sec

S-SPEED1	
0	1
0	2% 33mm/ sec
1	100% 250mm/ sec

SPCHK0	
0	1
0	2% 33mm/ sec
1	100% 250mm/ sec

SPCHK1	
0	1
0	NO CHK
1	OFF

S-SPEED0	
0	1
0	0 % 33mm/ sec
1	100% 250mm/ sec

S-SPEED1	
0	1
0	2% 33mm/ sec
1	100% 250mm/ sec

SPCHK0	
0	1
0	2% 33mm/ sec
1	100% 250mm/ sec

SPCHK1	
0	1
0	NO CHK
1	OFF

Änderung	Datum	Name	Norm.	MRC/SAFETY CONTROL UNIT	MRC/SP100, SP160/ HANDLING	MOTOMAN robotech GmbH Kammerfeldstr. 1 85391 Allershausen Tel. 08166/90-0 Fax 08166/9039	PLAN-NR.: MRC00012 + OHNE ANPASSST. Ers. d.	B1 277 47 B1
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