

Schema Elettrico / Wiring Diagram

Progetto / Project:

85504230UL01-A

Modello macchina / Machine model:

NCS 0602US

Dati elettrici / Electrical data

Alimentazione elettrica / Power supply	460V/3F/60HZ
Tensione ausiliari / Auxiliary Voltage:	230VAC – 24VAC

Limiti operativi / Operating limits

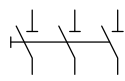
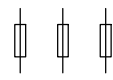
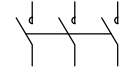
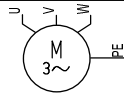
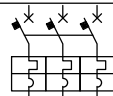

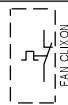



Range di tensione / Voltage range	+/- 10%
Squilibrio tensione / Voltage unbalance:	+/- 2%
Range di frequenza / Frequency range:	+/- 1%







MODELLO / MODEL	POTENZA MAX. MAX. POWER	CORRENTE MAX. MAX. CURRENT	MAX. LRA LRA MAX.
	KW	A	A
NCS 0602US	77,08	116	339,5

MODELLO / MODEL	COMPRESSORE / COMPRESSOR				POMPA / PUMP			VENTILATORE / FAN		
	POTENZA MAX. MAX. POWER	CORRENTE MAX. MAX. CURRENT	MAX. LRA LRA MAX.	MAGNETOTERMICO MAIN SWITCH	POTENZA MAX. MAX. POWER	CORRENTE MAX. MAX. CURRENT	MAGNETOTERMICO MAIN SWITCH	POTENZA MAX. MAX. POWER	CORRENTE MAX. MAX. CURRENT	MAGNETOTERMICO MAIN SWITCH
	N° X KW	N° X A	N° X A	N° X A	N° X KW	N° X A	N° X A	N° X KW	N° X A	N° X A
NCS 0602US	2 X 33.3	2 X 48.5	2 X 272	2 X 3X63A	1 X 4	1 X 7,6	3X10	4 X 1,62	4 X 2,85	3 X 16

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A	EMISSIONE	18/04/2018	UM	AC	AC
Rev.	Descrizione revisione / Revision description	Data / Date	Dis./Draft.	Verificato / Checked	Approvato / Approved

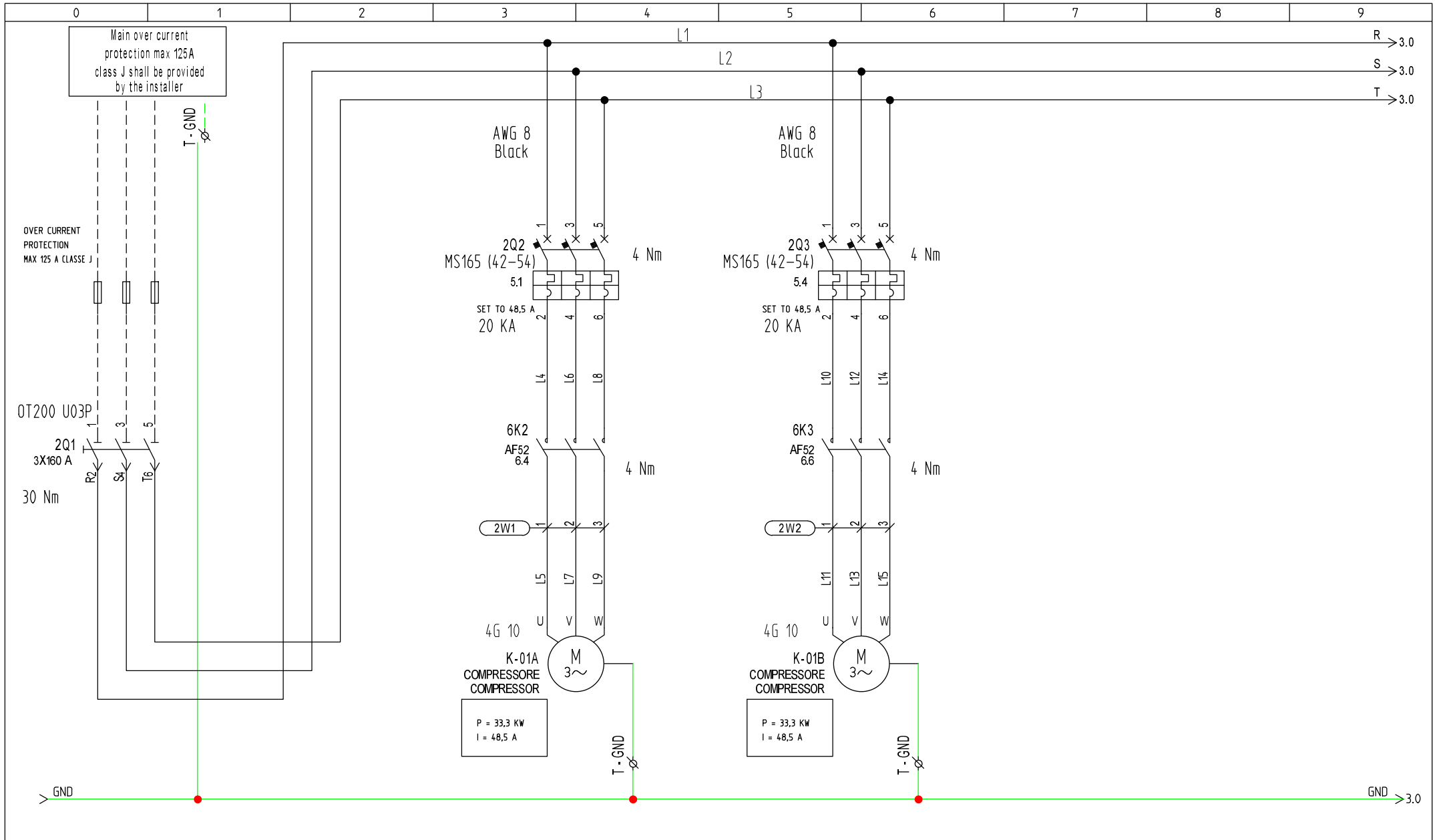
Symbol	Description
	MAIN SWITCH
	FUSES
	CONTACTOR
	3 PH MOTOR
	CIRCUIT BREAKER
	SEQUENCE PHASE RELAY
	KLIXON FAN MOTOR THERMAL SWITCH
	RESISTANCE
	CONTACTOR / AUX RLELAY
	SOLENOID VALVE

Symbol	Description
	PRESSURE SWITCH
	0-1 SELECTOR
	AUX. TRANSFORMER
	NTC PROBE
	DIFF. PRESSURE SWITCH
	CIRCUIT BREAKER AUX. CONTACT

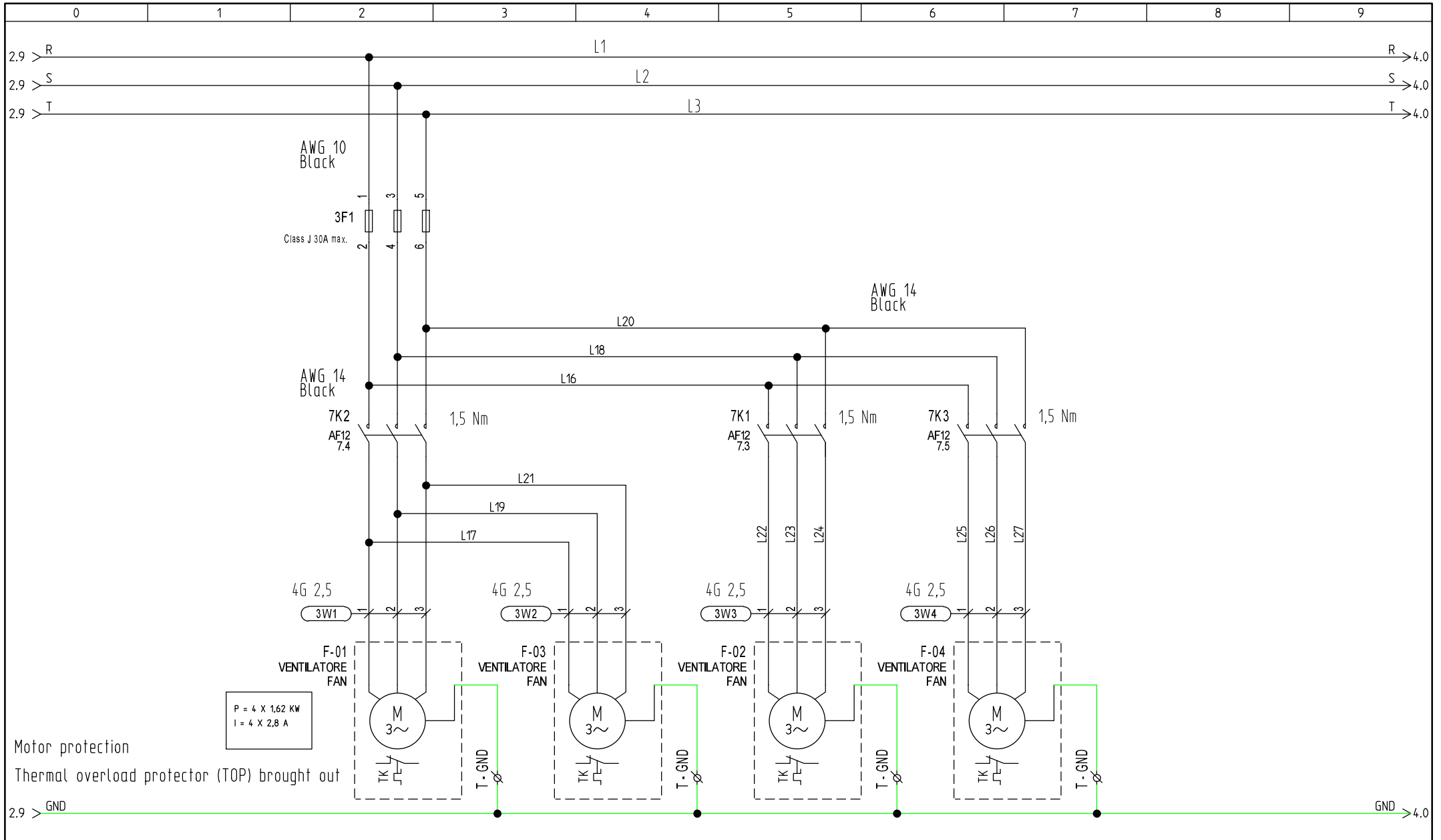
REV A	Modification EMISSIONE
17/04/2018	Drafter MU Approved AC

Model: NCS 0602US
Drawing no.: 85504230UL01/A

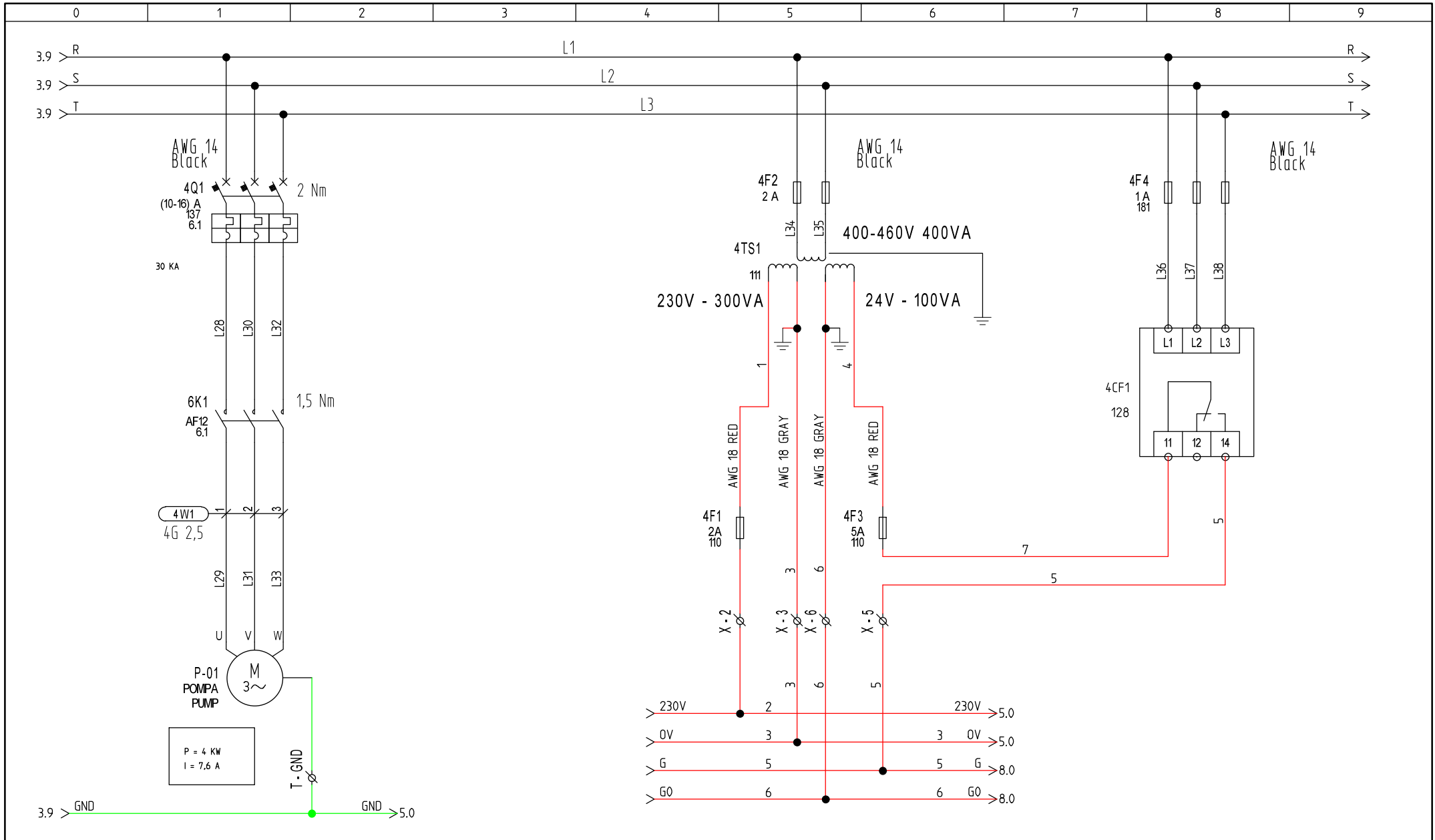
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File name: 85504230UL01-A	
DRAFT.:	DATE: 17/04/2018



REV A	Modification EMISSIONE	Model: NCS 0602US	This drawing is a property of nano-purification solutions and we reserve the copyright to all our designs which cannot be reproduced, transmitted, disclosed to third parties or utilized in any form without first obtaining our written consent. Contravention will be prosecuted. This drawing is subject to modification time to time to suit construction purpose.	SHEET 2
17/04/2018	Drafter MU	Drawing no.: 85504230UL01/A		OF 9
Approved AC		File name: 85504230UL01-A	DRAFT:.	1 <> 3
		DATE: 17/04/2018		



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17/04/2018	Drafter MU	Drawing no.: 85504230UL01/A		OF 9
Approved AC		File name: 85504230UL01-A	DRAFT.:	2 ◀ ▶ 4
		DATE: 17/04/2018		

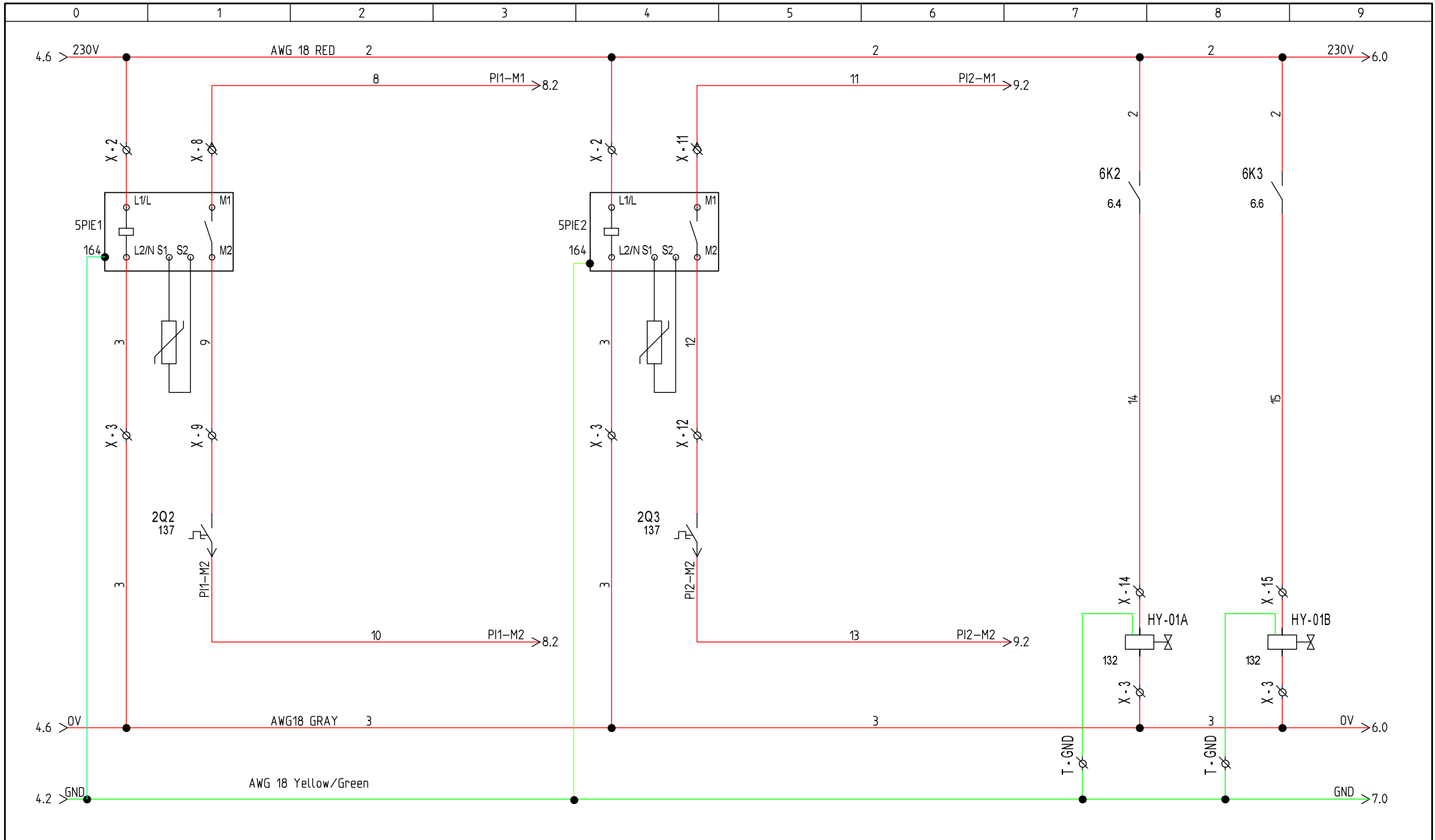


REV A	Modification EMISSIONE
17/04/2018	Drafter MU
	Approved AC

Model: NCS 0602US
Drawing no.: 85504230UL01/A

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File name:	85504230UL01-A
DRAFT.:	DATE: 17/04/2018

SHEET	4
OF	9
	3 <> 5



REV A	Modification EMISSIONE
17/04/2018	Drafter MU Approved AC

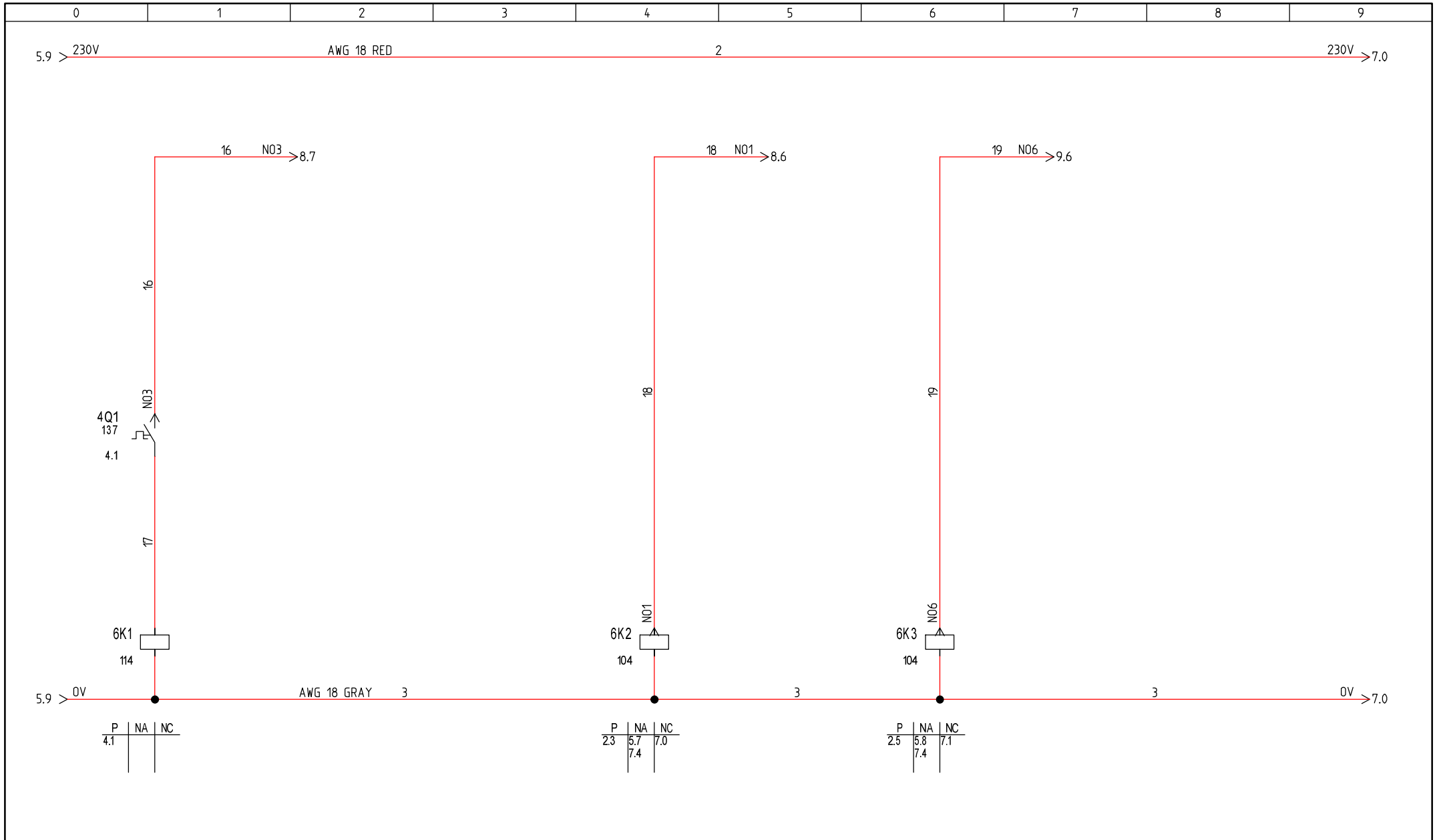
Model: NCS 0602US

Drawing no.: 85504230UL01/A

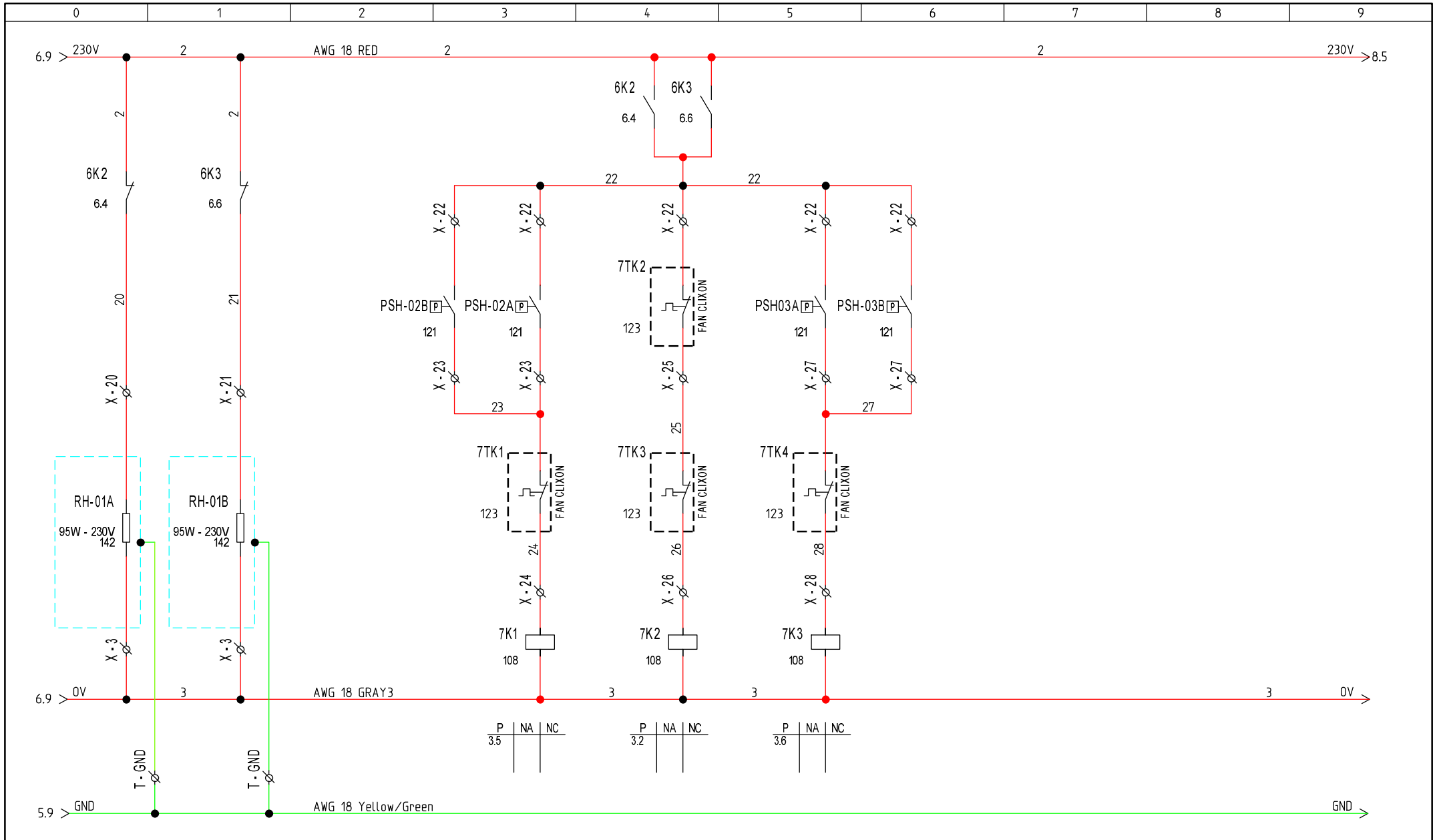
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17/04/2018	Drafter MU	Drawing no.: 85504230UL01/A		OF 9
			File name: 85504230UL01-A	5 ◀ ▶ 7
			DRAFT.: DATE: 17/04/2018	

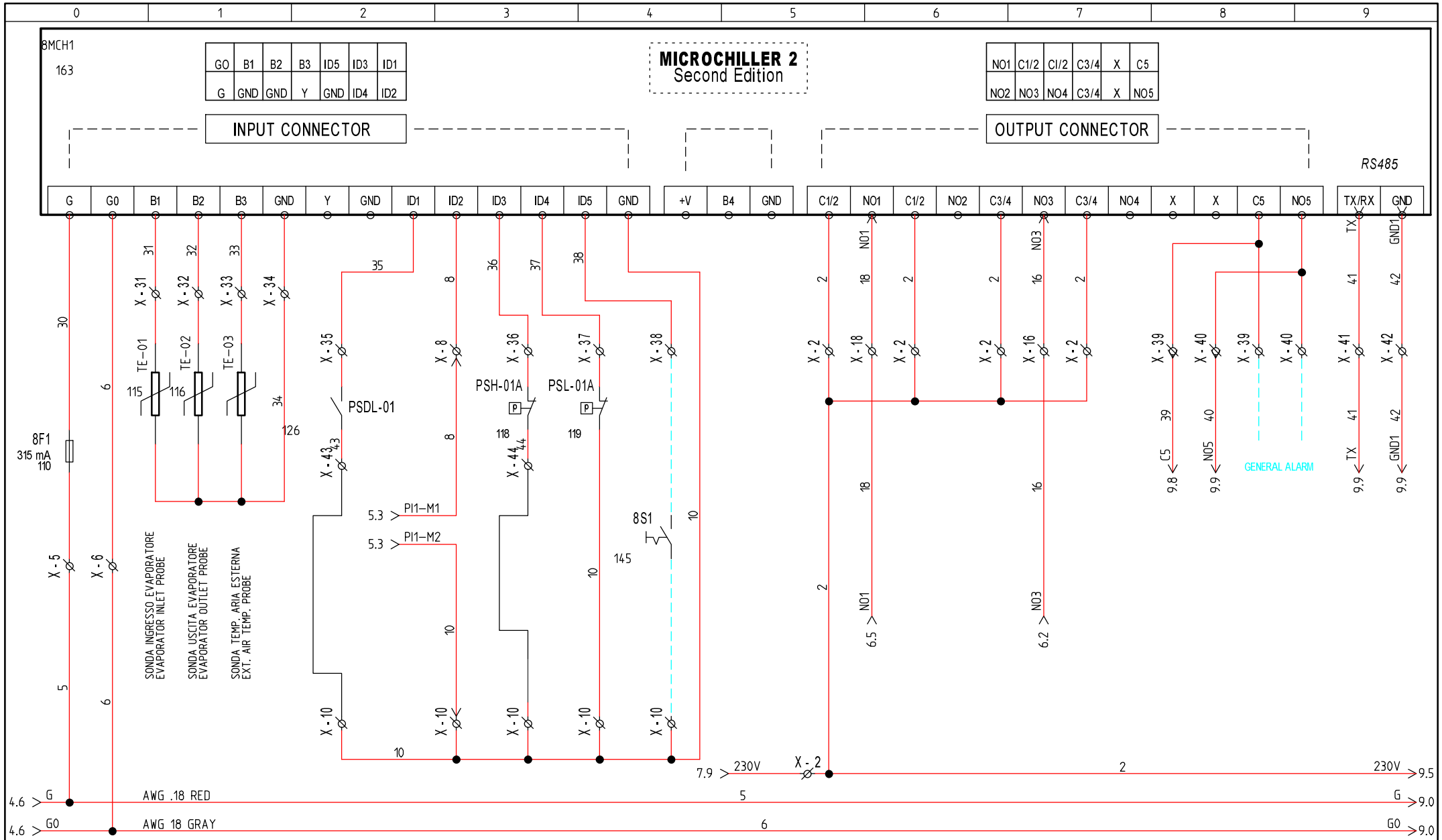


REV A	Modification EMISSIONE
17/04/2018	Drafter MU Approved AC

Model: NCS 0602US
Drawing no.: 85504230UL01/A

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File name:	85504230UL01-A
DRAFT.:	DATE: 17/04/2018

SHEET	7
OF	9
	6 < > 8



REV A	Modification EMISSIONE
17/04/2018	Drafter MU Approved AC

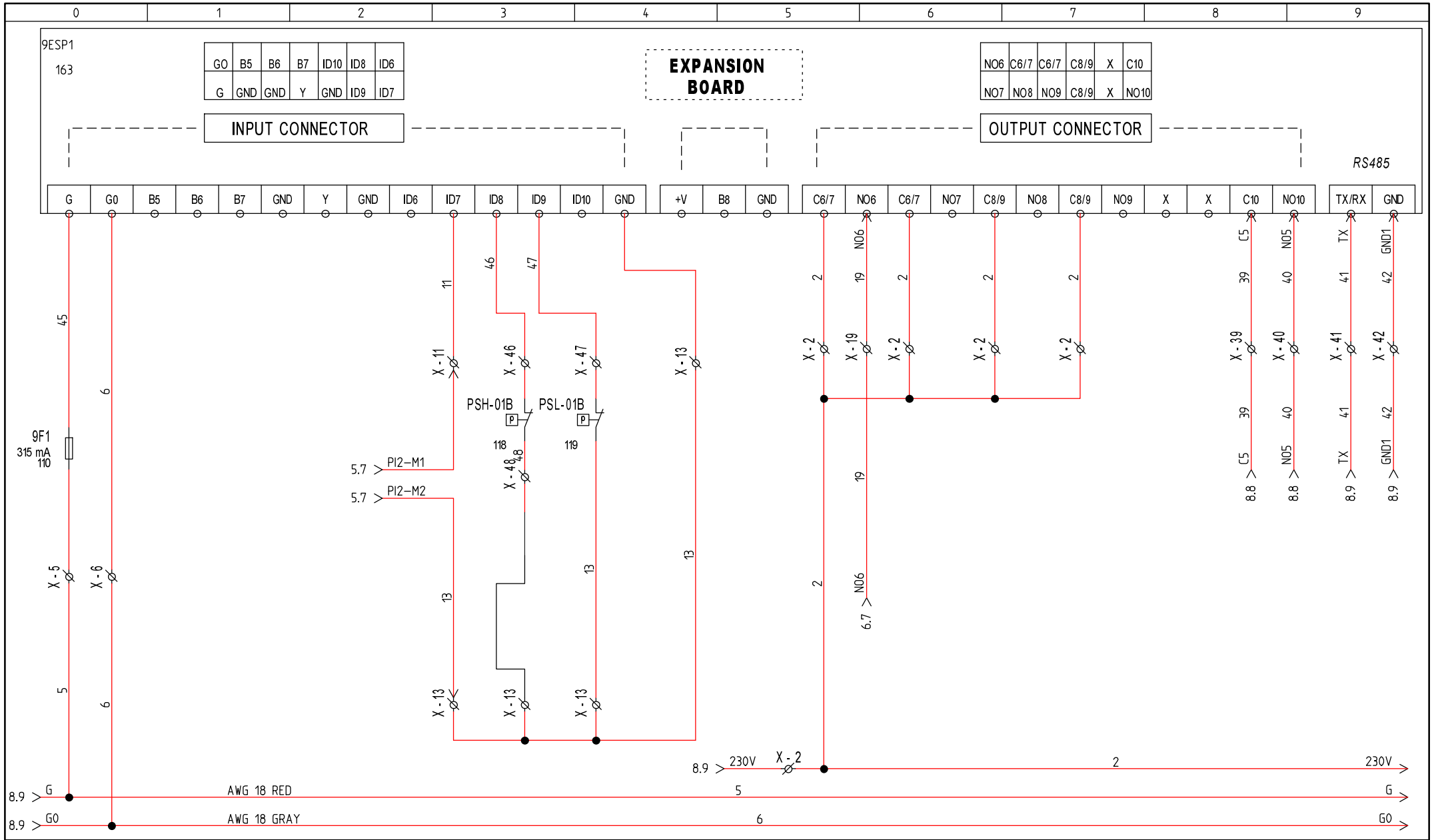
Model: **NCS 0602US**

Drawing no.: **85504230UL01/AB**

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File name: **85504230UL01-A**

DRAFT.: _____ DATE: **17/04/2018**



REV A	Modification EMISSIONE
17/04/2018	Drafter MU
	Approved AC

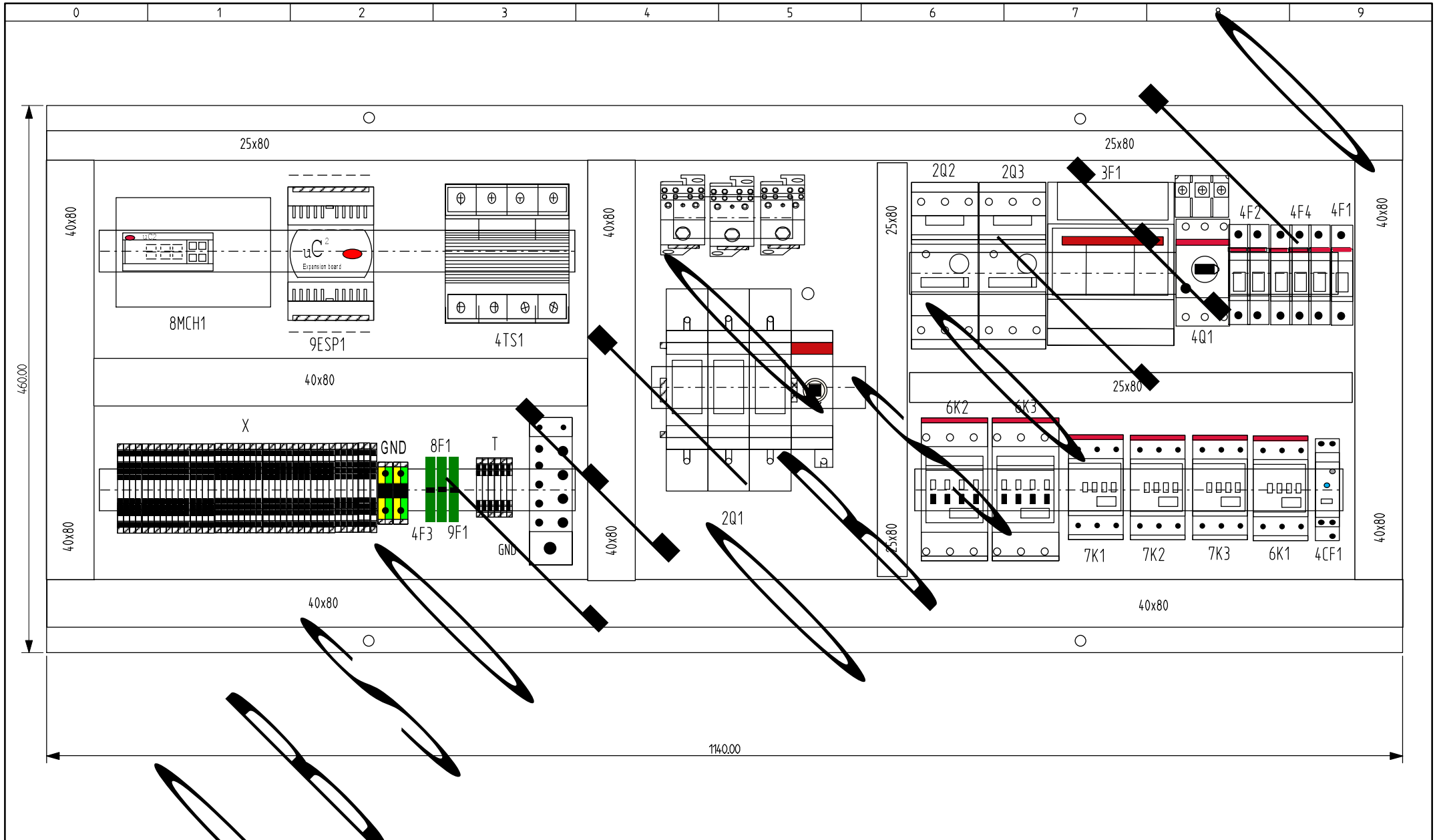
Model: **NCS 0602US**

Drawing no.: **85504230UL01/A**

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File name: **85504230UL01-A**

DRAFT.: _____ DATE: **17/04/2018**



REV A	Modification Emissione
Drafter MU	Approved MG

Model: **NCS 0602US**

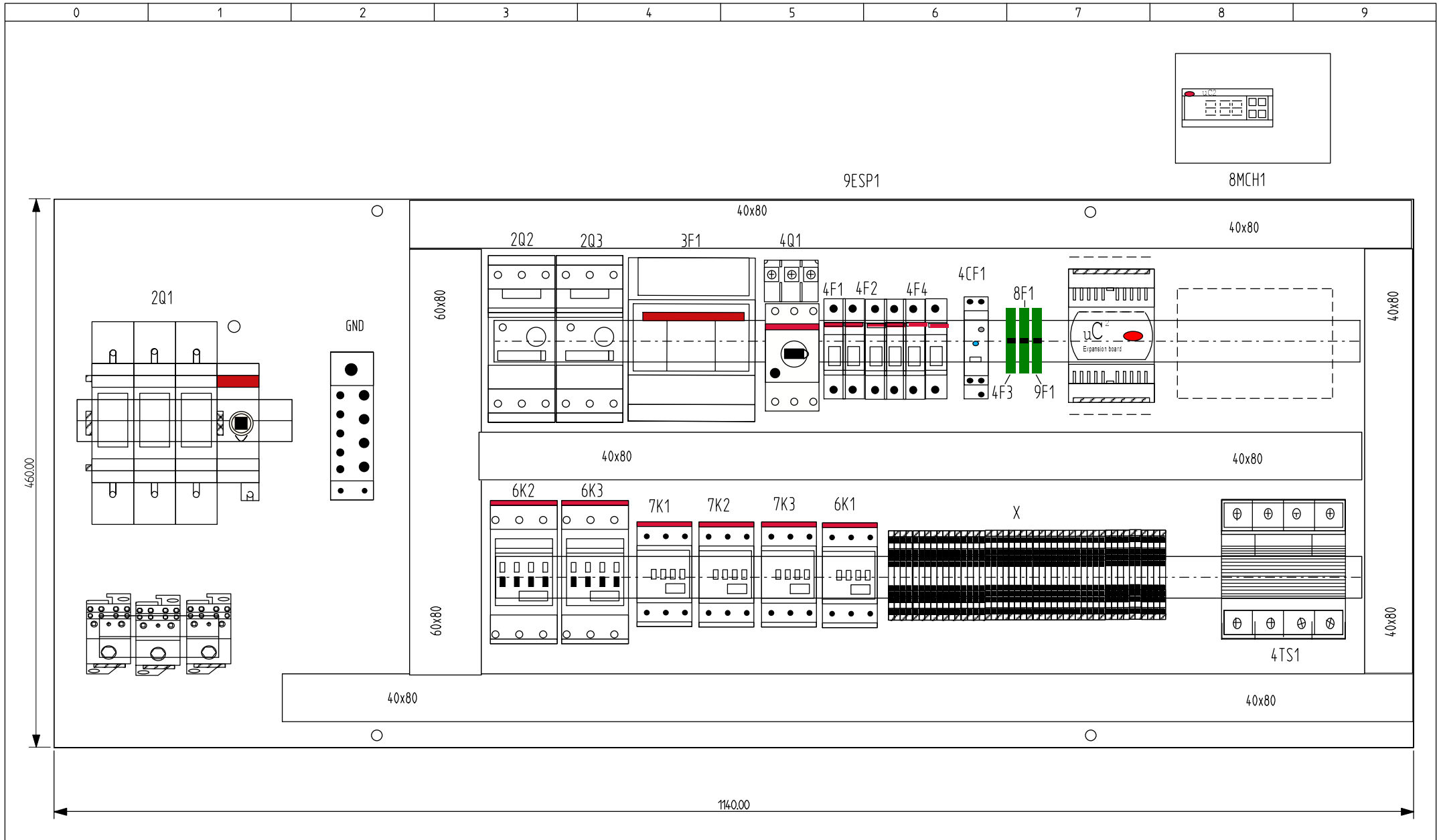
Drawing no.: 85504230UL01-A

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File name: 85504230UL01-A

DRAFT.: DATE: 17/04/2018

SHEET 1
OF 2
◀▶ 2



REV A	Modification
30/05/2019	Drafter MU
	Approved MG

Model: **NCS 0602US**

Drawing no.: 85504230UL01-A

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File name: 85504230UL01-A

DRAFT.: DATE: 17/04/2018

SHEET	2
OF	2
1	◀▶

Components list

Item (-)	Description	Type	Sheet	Column
2Q1	SEZIONATORE GENERALE / GENERAL MAIN SWITCH	OT200 U03P - ABB	2	0
2Q2	MAGNETOTERMICO COMPRESS. / COMPRESSOR MAIN SWITCH	M165 - 54 - ABB	2	3
K-01A	MOTORE COMPRESSORE / COMPRESSOR MOTOR	-----	2	3
K-01B	MOTORE COMPRESSORE / COMPRESSOR MOTOR	-----	2	5
2Q3	MAGNETOTERMICO COMPRESS. / COMPRESSOR MAIN SWITCH	M165 - 54 - ABB	2	5
F-01	MOTORE VENTILATORE / FAN MOTOR	-----	3	2
3F1	FUSIBILE VENTILATORE / FUN FUSES	E93 / 30J - ABB + J30A BUSMAN		
F-03	MOTORE VENTILATORE / FAN MOTOR	-----	3	3
F-02	MOTORE VENTILATORE / FAN MOTOR	-----	3	5
F-04	MOTORE VENTILATORE / FAN MOTOR	-----	3	6
4Q1	MAGNETOTERMICO POMPA / PUMP MAIN SWITCH	M132 - 16 - ABB	4	1
P-01	MOTORE POMPA / PUMP MOTOR	-----	4	1
4TS1	TRASFORMATORE SERVIZI AUSILIARI / AUX. TRANSFORMER	400 VA cod.OCM040070S309 - ITALWEBER	4	5
4F2	FUSIBILI TRASFORMATORE / TRANSFORMER FUSES	PMX - CC + CCMR 2A WIMEX	4	5
4F1	FUSIBILI TRASFORMATORE / TRANSFORMER FUSES	PMX - CC + CCMR 2A WIMEX	4	5
4F3	FUSIBILI TRASFORMATORE / TRANSFORMER FUSES	SFR.4.G12 + S506 - 5A CABUR + BUSMAN	4	6
4CF1	RELE' SEQUENZA FASI / PHASE SEQUENCE RELAY	70.618.400.0000 FINDER	4	8
4F4	FUSIBILI RELE SEQ. FASE / SEQ. PHASE REALAY	PMX - CC + CCMR 1A WIMEX	4	8
SPIE1	PROTEZIONE COMPRESSORE / COMP. MOTOR PROTECTION	-----	5	0
2Q2	C. A. MAGNETOTERMICO COMPRESS. /A. C. COMPRESSOR MAIN SWITCH	HKF1 - 11	5	1
2Q3	C. A. MAGNETOTERMICO COMPRESS. /A. C. COMPRESSOR MAIN SWITCH	HKF1 - 11	5	4
SPIE2	PROTEZIONE COMPRESSORE / COMP. MOTOR PROTECTION	-----	5	4
HY-01A	VALVOLA SOLENOIDE / SOLENOID VALVE	-----	5	7
HY-01B	VALVOLA SOLENOIDE / SOLENOID VALVE	-----	5	8
4Q1	C. A. MAGNETOTERMICO COMPRESS. /A. C. COMPRESSOR MAIN SWITCH	HKF1 - 11	6	1
6K1	CONTATTORE POMPA / PUMP CONTACTOR	AF 12 - 30 - 10 - 13 ABB	6	1
6K2	CONTATTORE COMPRESSORE / COMPRESSOR CONTACTOR	AF 52 - 30 - 00 - 13 ABB	6	4
6K3	CONTATTORE COMPRESSORE / COMPRESSOR CONTACTOR	AF 52 - 30 - 00 - 13 ABB	6	6
RH-01A	RESISTENZA CARTER / CRANKASE OIL HEATHER	-----	7	0
RH-01B	RESISTENZA CARTER / CRANKASE OIL HEATHER	-----	7	1
REVISIONE	MODIFICA	PROGETTO: 85504230UL01-A		FOGLIO 1
		COMMESSA: NCS 0602 US		
		CLIENTE:		DI 2
DATA	FIRMA	TITOLO:		◀▶ 2
		DIS.:	DATA: 17/04/2018	

Components list

Item (-)	Description	Type	Sheet	Column
PSH-02B	PRESSOSTATO ON-OFF COND. / ON-OFF PRESSURE SWITCH	-----	7	3
7K1	CONTATTORE VENTILATORE / FAN CONTACTOR	AF 12 - 30 - 10 - 13 ABB	7	3
7TK1	TERMICO VENTILATORE / FAN TERMAL SWITCH	-----	7	3
PSH-02A	PRESSOSTATO ON-OFF COND. / ON-OFF PRESSURE SWITCH	-----	7	3
7K2	CONTATTORE VENTILATORE / FAN CONTACTOR	AF 12 - 30 - 10 - 13 ABB	7	4
7TK3	TERMICO VENTILATORE / FAN TERMAL SWITCH	-----	7	4
7TK2	TERMICO VENTILATORE / FAN TERMAL SWITCH	-----	7	4
PSH03A	PRESSOSTATO ON-OFF COND. / ON-OFF PRESSURE SWITCH	-----	7	5
7K3	CONTATTORE VENTILATORE / FAN CONTACTOR	AF 12 - 30 - 10 - 13 ABB	7	5
7TK4	TERMICO VENTILATORE / FAN TERMAL SWITCH	-----	7	5
PSH-03B	PRESSOSTATO ON-OFF COND. / ON-OFF PRESSURE SWITCH	-----	7	6
3Q1	C. A. MAGNETOTERMICO VENTILATORE / A. C. FAN MAIN SWITCH	HKF1 - 11	7	8
8F1	FUSIBILI MICROCHILLER 2 / MICROCHILLER 2 FUSES	SFR.4.GR + S 506 - 315mA CABUR+BUSMAN	8	0
8MCH1	REGOLATORE ELETTRONICO / ELECTRONIC CONTOLLER	MCH2 000 31 CAREL	8	0
TE-02	SONDA ANTIGELO / ANTI FREEZE PROBE	-----	8	1
TE-03	SONDA TEMP. ARIA ESTERNA / EXT. AIR TEMP. PROBE	-----	8	1
TE-01	SONDA DI REGOLAZIONE / REGULATING PROBE	-----	8	1
PSDL-01	PRESSOSTATO DIFFERENZIALE / DIFF. PRESSURE SWITCH	-----	8	2
PSH-01A	PRESSOSTATO DI ALTA / HIGH PRESSURE SWITCH	-----	8	3
8S1	SELETTORE ON-OFF REMOTO / REMOTE ON-OFF SELECTOR	-----	8	4
PSL-01A	PRESSOSTATO DI BASSA / LOW PRESSURE SWITCH	-----	8	4
9ESP1	REGOLATORE ELETTRONICO / ELECTRONIC CONTOLLER	MCH2 000021 CAREL	9	0
9F1	FUSIBILI SCHEDA ESPANSIONE / EXPANSION BOARD FUSES	SFR.4.GR + S 506 - 315mA CABUR+BUSMAN	9	0
PSH-01B	PRESSOSTATO DI ALTA / HIGH PRESSURE SWITCH	-----	9	3
PSL-01B	PRESSOSTATO DI BASSA / LOW PRESSURE SWITCH	-----	9	4
REVISIONE	MODIFICA		PROGETTO: 85504230UL01-A	FOGLIO 2
			COMMESSA: NCS 0602US	DI 2
			CLIENTE:	
DATA	FIRMA		TITOLO:	1 <D>
			DIS.:	DATA: 17/04/2018

Morsetteria grafica

Morsetteria:
X

Descrizione		Tipo cavo		Nome cavo		----- Cavo -----		Colonna	Foglio
REVISIONE		MODIFICA				PROGETTO: 85504230UL01-A			
DATA		FIRMA				COMMESSA: NCS 0602 US			
						CLIENTE:			
						TITOLO: X			
						DIS.:			
						FOGLIO		2	
						DI		3	
						1 <>		3	
						DATA: 17/04/2018			

Destinazione	Mors.	N°	N° Filo	Origine
F-01:U	⊗	L17	L17	7K2:2
F-03:U	⊗	L17		
F-01:V	⊗	L19	L19	7K2:4
F-03:V	⊗	L19		
F-01:W	⊗	L21	L21	7K2:6
F-03:W	⊗	L21		
		2	2	4F1:2
		2		
SPIE1:L1/L	⊗	2		
SPIE2:L1/L	⊗	2	2	6K2:1
		2	2	301:1
		2	2	8MCH1:C1/2
		2	2	8MCH1:C1/2
		2	2	8MCH1:C3/4
		2	2	8MCH1:C3/4
		2		
		2	2	9ESP1:C6/7
		2	2	9ESP1:C6/7
		2	2	9ESP1:C8/9
		2	2	9ESP1:C8/9
		3	3	4TS1:4
		3	3	SPIE1:L2/N
		3	3	SPIE2:L2/N
		3	3	HY-01A:A2
6K1:A2	⊗	3	3	HY-01B:A2
6K3:A2	⊗	3	3	RH-01A:2
7K1:A2	⊗	3	3	RH-01B:2
		5	5	4CF1:14
		5	5	8F1:2
		5	5	9F1:2
		6	6	4TS1:5
		6	6	8MCH1:G0
		6	6	9ESP1:G0
		8		
SPIE1:M1	⊗	8		
		8	8	8MCH1:ID2
		9	9	SPIE1:M2
2Q2:1	○	9		
		10		
		10	10	2Q2:2
		10	10	7K4:2
		10	10	PSL-01A:NC
		10		
8MCH1:GND	⊗	10		
SPIE2:M1	⊗	11		
		11		
		11	11	9ESP1:ID7
2Q3:1	○	12	12	SPIE2:M2
		13	13	2Q3:2
		13		
		13	13	PSL-01B:NC
		13	13	9ESP1:GND
		14	14	6K2:2
HY-01A:A1	○	15	15	6K3:2
HY-01B:A1	○	16	16	8MCH1:ND3
4Q1:1	○	16	16	
6K2:A1	○	18	18	8MCH1:ND1
6K3:A1	○	19	19	9ESP1:ND6
RH-01A:1	○	20	20	6K2:2
RH-01B:1	○	21	21	6K3:2
PSH-02B:NA	⊗	22		

Morsettiera grafica

Morsettiera: X

Descrizione		Tipo cavo	Nome cavo	Colonna
<div style="text-align: center; font-size: 2em; font-weight: bold;">Morsettiera grafica</div>			----- Cavo -----	7 3
			----- Cavo -----	7 4
			----- Cavo -----	7 5
			----- Cavo -----	7 6
			----- Cavo -----	7 3
			----- Cavo -----	7 3
			----- Cavo -----	7 3
			----- Cavo -----	7 4
			----- Cavo -----	7 4
			----- Cavo -----	7 5
----- Cavo -----	7 6			
----- Cavo -----	7 5			
----- Cavo -----	8 1			
----- Cavo -----	8 1			
----- Cavo -----	8 1			
----- Cavo -----	8 1			
----- Cavo -----	8 2			
----- Cavo -----	8 3			
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----- Cavo -----	9 8			
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----- Cavo -----	9 9			
----- Cavo -----	8 9			
----- Cavo -----	9 9			
----- Cavo -----	8 2			
----- Cavo -----	8 3			
----- Cavo -----	9 3			
----- Cavo -----	9 4			
----- Cavo -----	9 3			

Descrizione	Tipo cavo	Nome cavo	Destinazione	Mors.	N°	N° Filo	Origine
PSH-02A:NA				⊕	22		
7TK2:1				⊕	22	22	6K2:2
				○	22	22	6K3:2
PSH03A:NA				⊕	22	22	6K2:2
				○	22	22	6K3:2
PSH-03B:NA				⊕	22		
7TK1:1				○	23	23	PSH-02B:COM
7TK1:1				○	23	23	PSH-02A:COM
7K1:A1				○	24	24	7TK1:2
7TK3:1				○	25	25	7TK2:2
7K2:A1				○	26	26	7TK3:2
7TK4:1				○	27	27	PSH03A:COM
7TK4:1				○	27	27	PSH-03B:COM
7K3:A1				○	28	28	7TK4:2
TE-01:1				○	31	31	8MCH1:B1
TE-02:1				○	32	32	8MCH1:B2
TE-03:1				○	33	33	8MCH1:B3
TE-03:2				○	34	34	8MCH1:GND
PSDL-01:1				○	35	35	8MCH1:ID1
PSH-01A:COM				○	36	36	8MCH1:ID3
PSL-01A:COM				○	37	37	8MCH1:ID4
				○	38	38	8MCH1:ID5
				⊕	39		
				⊕	39	39	8MCH1:C5
				⊕	39	39	9ESP1:C10
				⊕	40		
				⊕	40	40	8MCH1:ND5
				⊕	40	40	9ESP1:ND10
				⊕	41	41	8MCH1:TX/RX
				⊕	41	41	9ESP1:TX/RX
				⊕	42	42	8MCH1:GND
				⊕	42	42	9ESP1:GND
				○	43	43	PSDL-01:2
				○	44	44	PSH-01A:NC
PSH-01B:COM				○	46	46	9ESP1:ID8
PSL-01B:COM				○	47	47	9ESP1:ID9
7K4:1				○	48	48	PSH-01B:NC
				○			
				○			
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Descrizione	Tipo cavo	Nome cavo	Destinazione	Mors.	N°	N° Filo	Origine
REVISIONE	MODIFICA						
DATA	FIRMA						

PROGETTO: 85504230UL01-A COMMESSA: NCS 0602 US CLIENTE: TITOLO: X DIS:	FOGLIO 3 DI 3 2 ◀▶ DATA: 17/04/2018
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