

Schema Elettrico / Wiring Diagram

Progetto / Project:

85504130UL-01

Modello macchina / Machine model:

NCS 0020 US

Dati elettrici / Electrical data

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

Limiti operativi / Operating limits

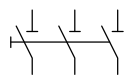
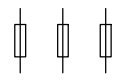
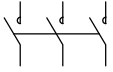
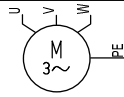
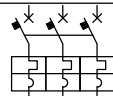

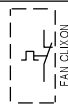



| | |
|------------------------------------------|---------|
| Range di tensione / Voltage range | +/- 10% |
| Squilibrio tensione / Voltage unbalance: | +/- 2% |
| Range di frequenza / Frequency range: | +/- 1% |







| MODELLO / MODEL | POTENZA MAX. MAX. POWER | CORRENTE MAX. MAX. CURRENT | MAX. LRA LRA MAX. |
|-----------------|----------------------------|-------------------------------|----------------------|
| | KW | A | A |
| NCS 0020 US | 6,6 | 11,2 | 49,3 |

| 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 0020 US | 1X5,2 | 1X7,9 | 1X46 | 3X10A | 1X0,6 | 1X2,1 | 3X2,5 | 1X0,74 | 1X1,17 | 3X1,6 |

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|------|----------------------------------------------|-------------|-------------|----------------------|
| | | | | |
| | | | | |
| | | 01/04/2019 | UM | 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 |

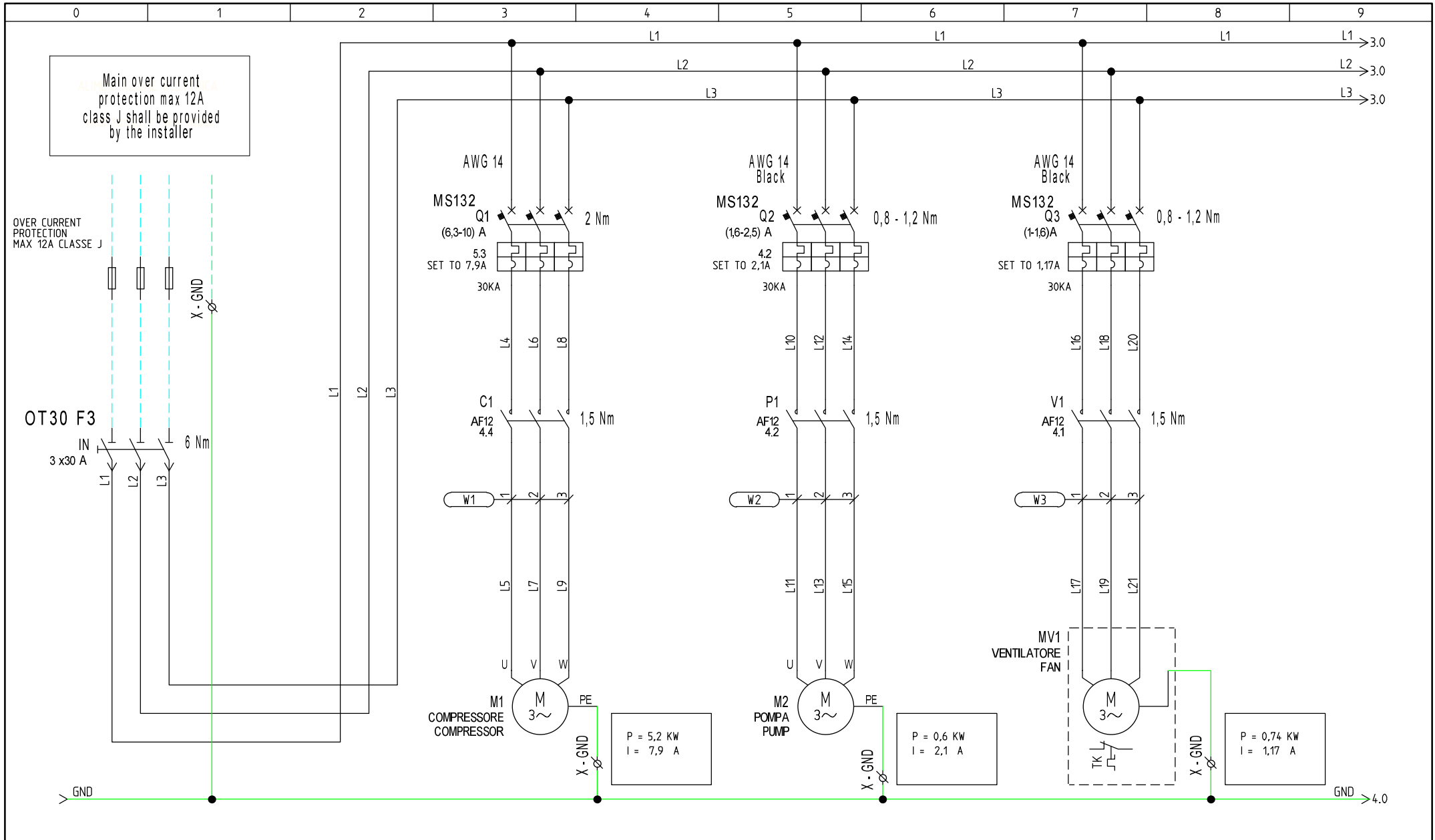
| Symbol | Description |
|-------------------------------------------------------------------------------------|------------------------------|
|  | PRESSURE SWITCH |
|  | 0-1 SELECTOR |
|  | AUX. TRANSFORMER |
|  | NTC PROBE |
|  | DIFF. PRESSURE SWITCH |
|  | CIRCUIT BREAKER AUX. CONTACT |
| | |
|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

| | |
|------------|------------------------|
| REV | Modification |
| 01/04/2019 | Drafter MU Approved AC |

Model: **NCS 0020 US**
 Drawing no.: **85504130UL-01**

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| REV | Modification | |
| 01/04/2019 | Drafter MU | Approved AC |

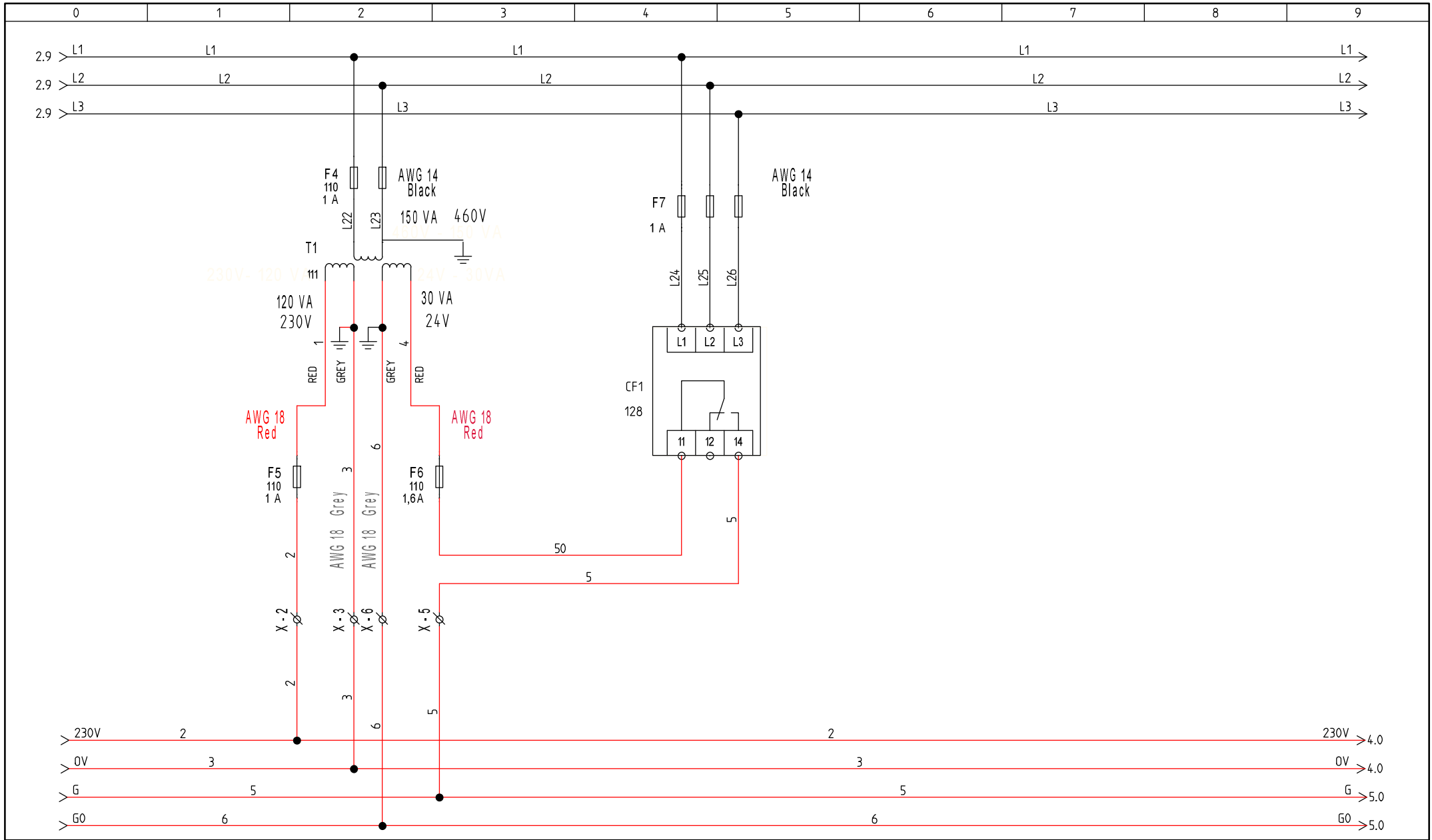
Model: **NCS 0020 US**

Drawing no.: **85504130UL-01**

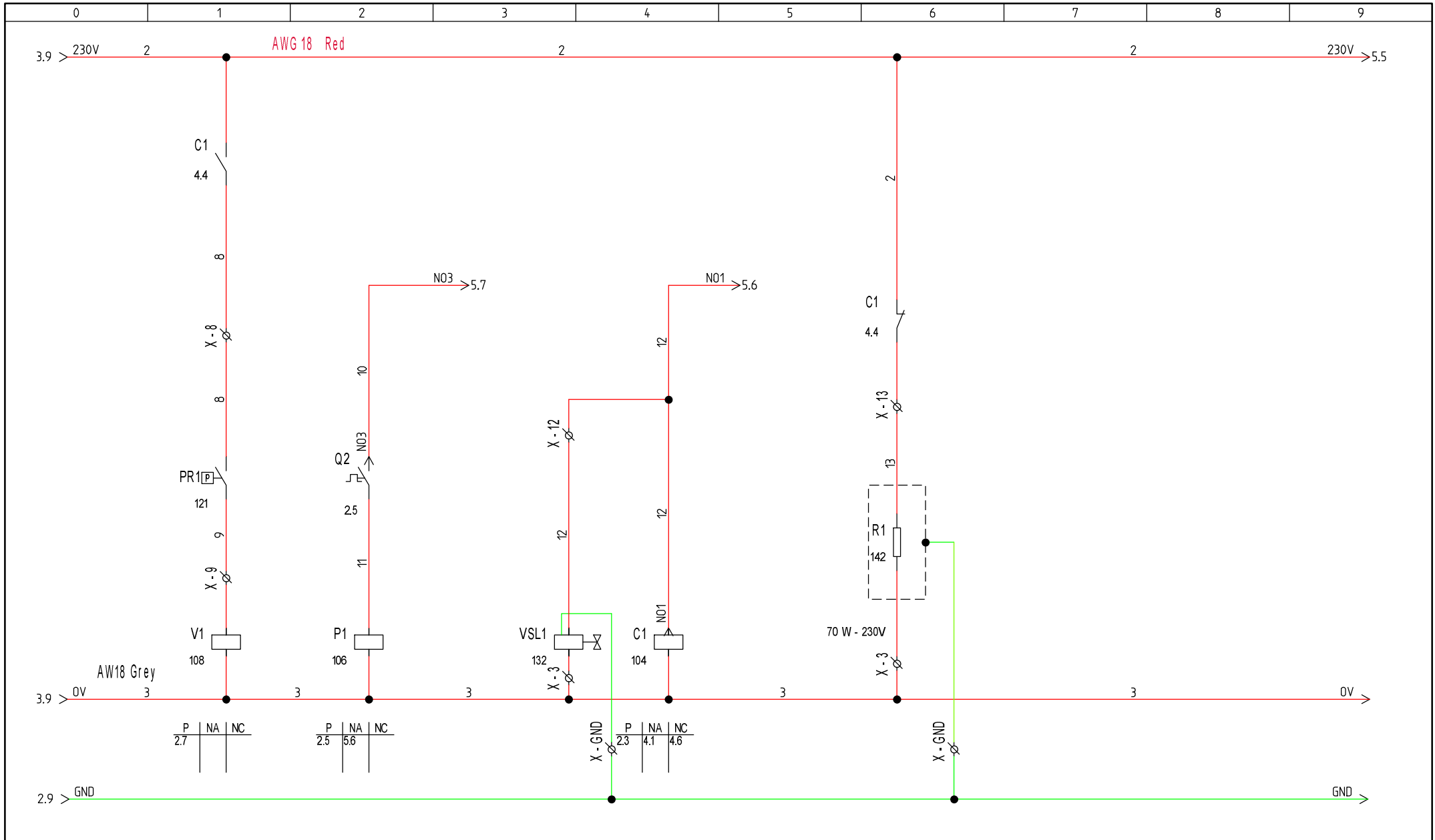
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File name: **85504130UL-01**

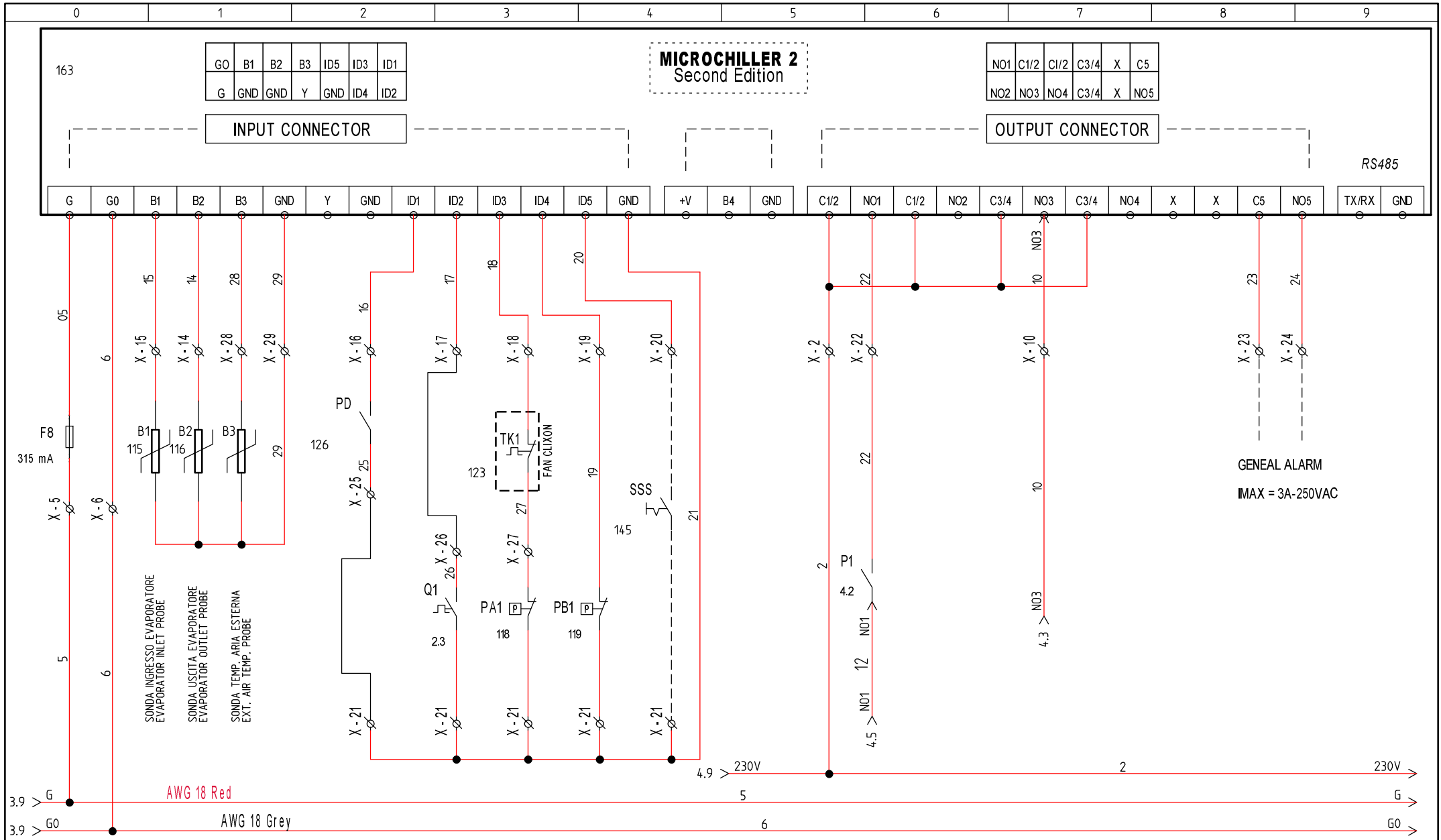
DRAFT.: DATE: **01/04/2019**



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| 01/04/2019 | Drafter MU Approved AC | Drawing no.: 85504130UL-01 | | OF 5 |
| | | | File name: 85504130UL-01 | 2 <> 4 |
| | | | DRAFT.: DATE: 01/04/2019 | |

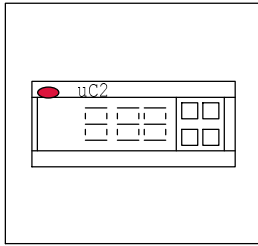


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|------------|---------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
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| 01/04/2019 | Drafter MU Approved AC | Drawing no.: 85504130UL-01 | | OF 5 |
| | | | File name: 85504130UL-01 | 3 <> 5 |
| | | | DRAFT.: | DATE: 01/04/2019 |

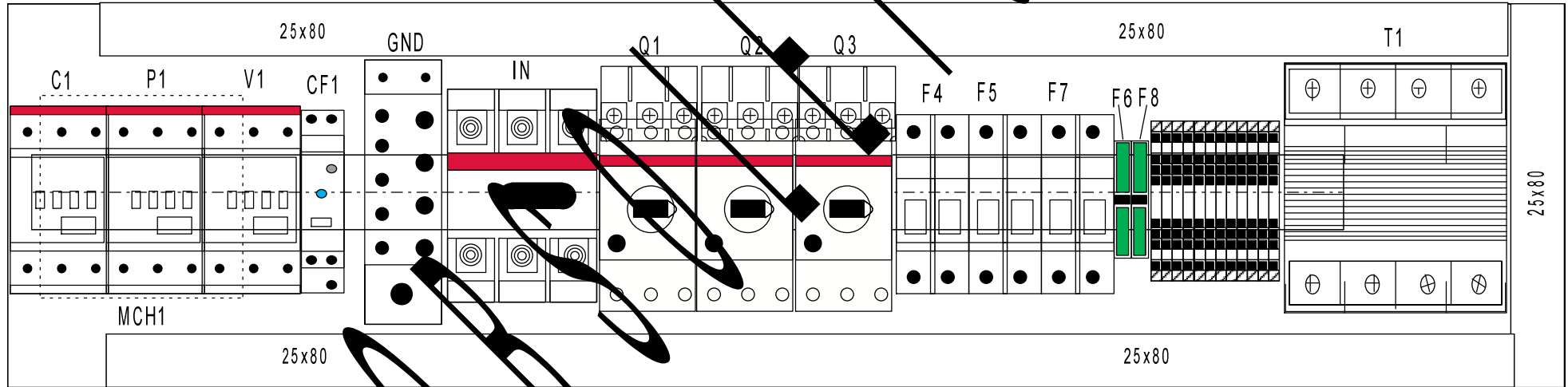
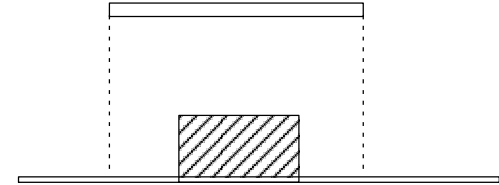


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|------------|---------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
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| 01/04/2019 | Drafter MU Approved AC | Drawing no.: 85504130UL-01 | | File name: 85504130UL-01 DRAFT.: DATE: 01/04/2019 |

MCH1



MCH1

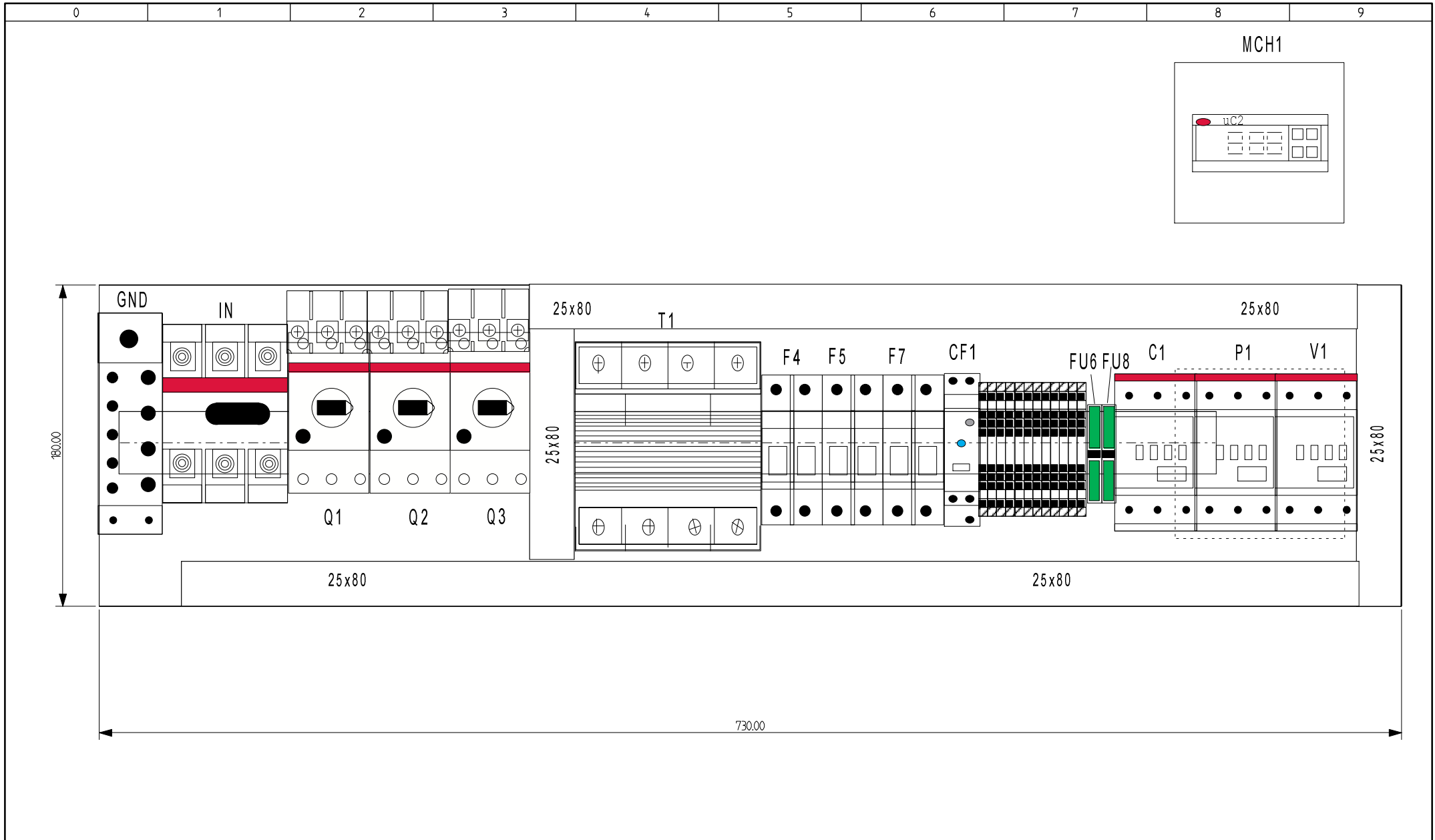


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| REV | Modification |
| 01/04/2019 | Drafter MU Approved MG |

Model: **NCS 0020 US**
 Drawing no.: 85504130UL01

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| | | | | |
|------------|----------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| REV A | Modification | Model: NCS 0020 US | 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 |
| 29/05/2019 | Drafter MU | Drawing no.: 85504130UL-01 | | OF 2 |
| | Approved MG | | File name: 85504130UL-01 | 1 ◀▶ |
| | | | DRAFT.: DATE: 01/04/2019 | |

Components list

| Item (-) | Description | Type | Sheet | Column |
|----------|-------------------------------------------------------------|-----------------------------------------|-------|--------|
| IN | SEZIONATORE GENERALE / GENERAL MAIN SWITCH | OT30F3 ABB | 2 | 0 |
| M1 | MOTORE COMPRESSORE / COMPRESSOR MOTOR | ----- | 2 | 3 |
| Q1 | MAGNETOTERMICO COMPRESS. / COMPRESSOR MAIN SWITCH | MS132-10 ABB | 2 | 3 |
| M2 | MOTORE POMPA / PUMP MOTOR | ----- | 2 | 5 |
| Q2 | MAGNETOTERMICO POMPA / PUMP MAIN SWITCH | MS132-2,5 ABB | 2 | 5 |
| Q3 | MAGNETOTERMICO VENTILATORE / FAN MAIN SWITCH | MS132-1,6 ABB | 2 | 7 |
| MV1 | MOTORE VENTILATORE / FAN MOTOR | ----- | 2 | 7 |
| F5 | FUSIBILI TRASFORMATORE / TRANSFORMER FUSES | E91 - 30 + LPCC 1A / ABB+ OMEGA | 3 | 2 |
| F4 | FUSIBILI TRASFORMATORE / TRANSFORMER FUSES | E92 - 30 + LPCC 1A / ABB + OMEGA | 3 | 2 |
| T1 | TRASFORMATORE SERVIZI AUSILIARI / AUX. TRANSFORMER | 150VA COD. OMX03204001972 ITALWEBER | 3 | 2 |
| F6 | FUSIBILI TRASFORMATORE / TRANSFORMER FUSES | SFR.4.GR + S506-1,6A / CABUR +BUSSMANN | 3 | 3 |
| CF1 | RELE' SEQUENZA FASI / PHASE SEQUENCE RELAY | 70.61.8.400.0000 FINDER | 3 | 4 |
| F7 | FUSIBILI. SEQ. FASI / SEQUENCE PHASE FUSES | E93 - 30 + CCMR1 1A ABB | 3 | 4 |
| V1 | CONTATTORE VENTILATORE / FAN CONTACTOR | AF1230-10-13-ABB | 4 | 2 |
| PR1 | PRESSOSTATO ON-OFF COND. / ON-OFF PRESSURE SWITCH | ----- | 4 | 1 |
| P1 | CONTATTORE POMPA / PUMP CONTACTOR | AF1230-10-13-ABB | 4 | 2 |
| VSL1 | VALVOLA SOLENOIDE / SOLENOID VALVE | ----- | 4 | 3 |
| C1 | CONTATTORE COMPRESSORE / COMPRESSOR CONTACTOR | AF1230-10-13-ABB | 4 | 4 |
| R1 | RESISTENZA CARTER / CRANKASE OIL HEATHER | ----- | 4 | 6 |
| F8 | FUSIBILE REGOLATORE ELETTRONICO / ELECTRONIC CONTOLLER FUSE | SFR.4.GR + S506-315mA / CABUR +BUSSMANN | 5 | 0 |
| MCH1 | REGOLATORE ELETTRONICO / ELECTRONIC CONTOLLER | MICROCHILLER DUE MCH200031 CAREL | 5 | 0 |
| B2 | SONDA ANTIGELO / ANTI FREEZE PROBE | ----- | 5 | 1 |
| B3 | SONDA TEMP. ARIA ESTERNA / EXT. AIR TEMP. PROBE | ----- | 5 | 1 |
| B1 | SONDA DI REGOLAZIONE / REGULATING PROBE | ----- | 5 | 1 |
| PD | PRESSOSTATO DIFFERENZIALE / DIFF. PRESSURE SWITCH | ----- | 5 | 2 |
| TK1 | TERMICO VENTILATORE / FAN TERMAL SWITCH | ----- | 5 | 3 |
| PA1 | PRESSOSTATO DI ALTA / HIGH PRESSURE SWITCH | ----- | 5 | 3 |
| SSS | SELETTORE ON-OFF REMOTO / REMOTE ON-OFF SELECTOR | ----- | 5 | 4 |
| PB1 | PRESSOSTATO DI BASSA / LOW PRESSURE SWITCH | ----- | 5 | 4 |
| GND | OMEGA DI MESSA A TERRA | ----- | | |

| | | | | |
|------------|----------|------------------------|-------------------------|----------|
| REVISIONE | MODIFICA | <h2>85504130UL-01</h2> | PROGETTO: 85504130UL-01 | FOGLIO 1 |
| | | | COMMESSA: NCS 0020 US | DI 1 |
| | | | CLIENTE: | |
| DATA | FIRMA | | TITOLO: 85504130UL-01 | ◀ ▶ |
| 01/04/2019 | UM/AC | | DIS.: DATA: 01/04/2019 | |

