Non è permesso consegnare a terzi o riprodurre questo documento nè, utilizzare il contenuto o renderlo comunque noto a terzi senza la nostra autorizzazione esplicita. Ogni infrazione comporta il risarcimento dei danni subiti. E' fatta riserva di tutti i diritti derivati da brevetti o modelli.

PROGETTO
BANCA DIS.
TIPICO

RIVACOLD

MASTERING COLD

| | | | |
|---|---|---|---|
| RY100 | | NORMA: / NORM: | CE CEI EN 60204-1 |
| CORRENTE MASSIMA: / MAXIMUM CURRENT: | 14,3A | TENSIONE ESERCIZIO: / POWER SUPPLY: | 230V / 1F~ / 50Hz / ±10% |
| CORRENTE ASSORBITA ALLE CONDIZIONI DI LAVORO: / CURRENT CONSUMPTION AT WORKING POINT: | 7,7A | TENSIONE CIRCUITI AUSILIARI: / AUXILIARY CIRCUITS VOLTAGE: | 230V |
| | | TENSIONE CONTROLLO ELETTRONICO: / ELECTRONIC CONTROL POWER SUPPLY: | 230V |
| POTENZA ASSORBITA ALLE CONDIZIONI DI LAVORO: / POWER CONSUMPTION AT WORKING POINT: | 4.8kW | | |
| Evap. −10°C_T.amb. +32°C | | CORRENTE CORTO CIRCUITO: / SHORT CIRCUIT CURRENT: Icc 10kA | CODICE MACCHINA: / MACHINE CODE: |
| − | | NORMA RIF: / NORM REF: CEI EN 60947-2 | CODICE QUADRO ELETTRICO: / ELECTRICAL BOARD CODE: 5602-0935 |

| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI |
|---|---|---|---|---|---|
| | | | | VISTO | |
| | | | | DISEGN. | UGOLINI |
| | | | | DATA | 14/09/2022 |

SOST. IL : | SOST. DA :

RIVACOLD MASTERING COLD
FILE : SEPC5304.dwg

2223-0078
BLDC − HECU CO2 MT

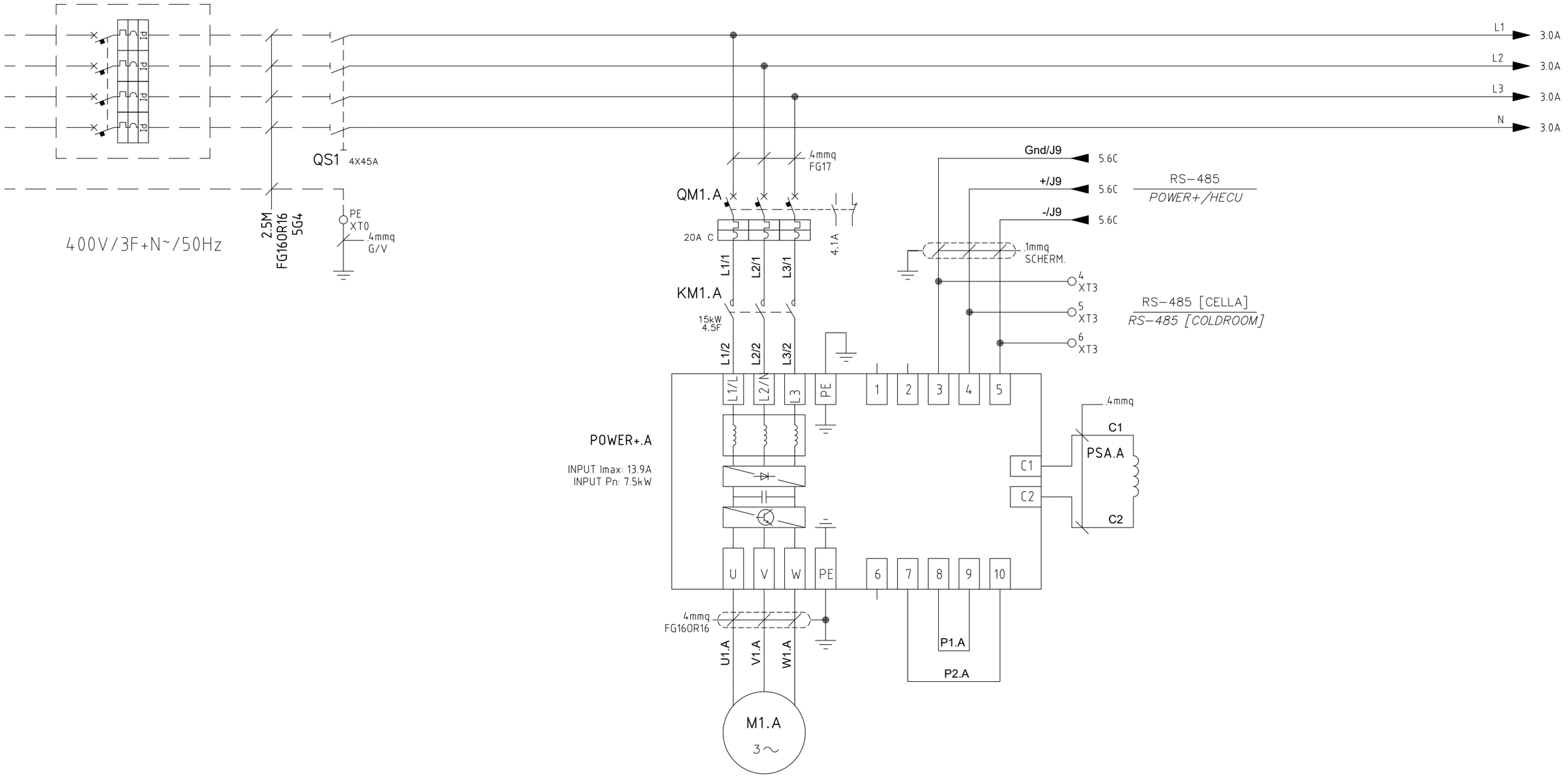
COPERTINA
COVER

SEPC5304

5602-0935

= / +

FG. 1 11
F.S. 2




N.B.: INSERIRE MAGNETOTERMICO DIFFERENZIALE PROTEZIONE CORTO CIRCUITO LINEA GENERALE
N.B.: MAGNETOTHERMISCHES DIFFERENTIAL ZUM SCHUTZ GEGEN KURZSCHLUB AUF DER HAUPTLEITUNG EINSCHAL TEN
N.B.: INSERER MAGNETOTHERMIQUE DIFFERENCIEL PROTECTION COURT-CIRCUIT PROTECTION
N.B.: INSERT MAGNETOTHERMIC DIFFERENTIAL MAIN LINE SHORT CIRCUIT PROTECTION
ATENCION: CONECTAR MAGNETOTERMICO DIFERENCIAL PROTECCION CORTO CIRCUITO LINEA GENERAL

| REV. | MODIFICA | DATA | FIRMA | | |
|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 |
| | | | | DISEGN. | UGOLINI |
| | | | | VISTO | |
| | | | | APPR. | COLOTTI |

SOST. IL :
SOST. DA :

RIVACOLD MASTERING COLD
FILE : SEPC5304.dwg

2223-0078
*BLDC – HECU CO2 MT*

CIRCUITO POTENZA COMPRESSORE
*COMPRESSOR POWER CIRCUIT*

SEPC5304

5602-0935

FG. 2 11
F.S. 3

L1 2.9A
L2 2.9A
L3 2.9A
N 2.9A

.1,5mmq

QM2
6A D

L/5

KM1.A
4.5F

L/8 L/7

5 XT1 6 XT1 7 XT1 8 XT1 1 XT1 2 XT1 3 XT1 4 XT1

OPTIONAL WINTER START

ATTENZIONE: IN PRESENZA DEL KIT OPTIONAL PARTENZA INVERNALE, NON SARA' PRESENTE LA VENTOLA "VEA"

WARNING: IN THE PRESENCE OF THE WINTER START OPTIONAL KIT, THE "VEA" FAN WILL NOT BE PRESENT

TR
Θ
-10°C

R1
250W

VEA
1 ~

TERMOSTATO RESISTENZA VANO
*COMPARTMENT HEATER THERMOSTAT*

RESISTENZA RISCALDAMENTO VANO
*COMPR. COMPARTMENT HEATER*

0,07A
10W

VENTOLA ESTRAZIONE ARIA
*EXTRACTION AIR FAN*

.1,5mmq

1 XT5 2 XT5

OPTIONAL KIT IOT

ALIMENTAZIONE GATEWAY RIVACOLD
*RIVACOLD GATEWAY POWER SUPPLY*

.1,5mmq

QM01
1A D 10kA

L/6

TC1
100VA
230/400V
230V

.6mmq G/V

0230V

.1,5mmq G/V

XB XT0

QM02
0.5A C

.1mmq ROSSO

230V 0V

4.0A 4.0F

ALIMENTAZIONE CIRCUITO COMANDO
*CONTROL CIRCUIT POWER SUPPLY*

| REV. | MODIFICA | DATA | FIRMA | | |
|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 |
| | | | | DISEGN. | UGOLINI |
| | | | | VISTO | |
| | | | | APPR. | COLOTTI |

SOST. IL : | SOST. DA :

RIVACOLD MASTERING COLD

FILE : SEPC5304.dwg

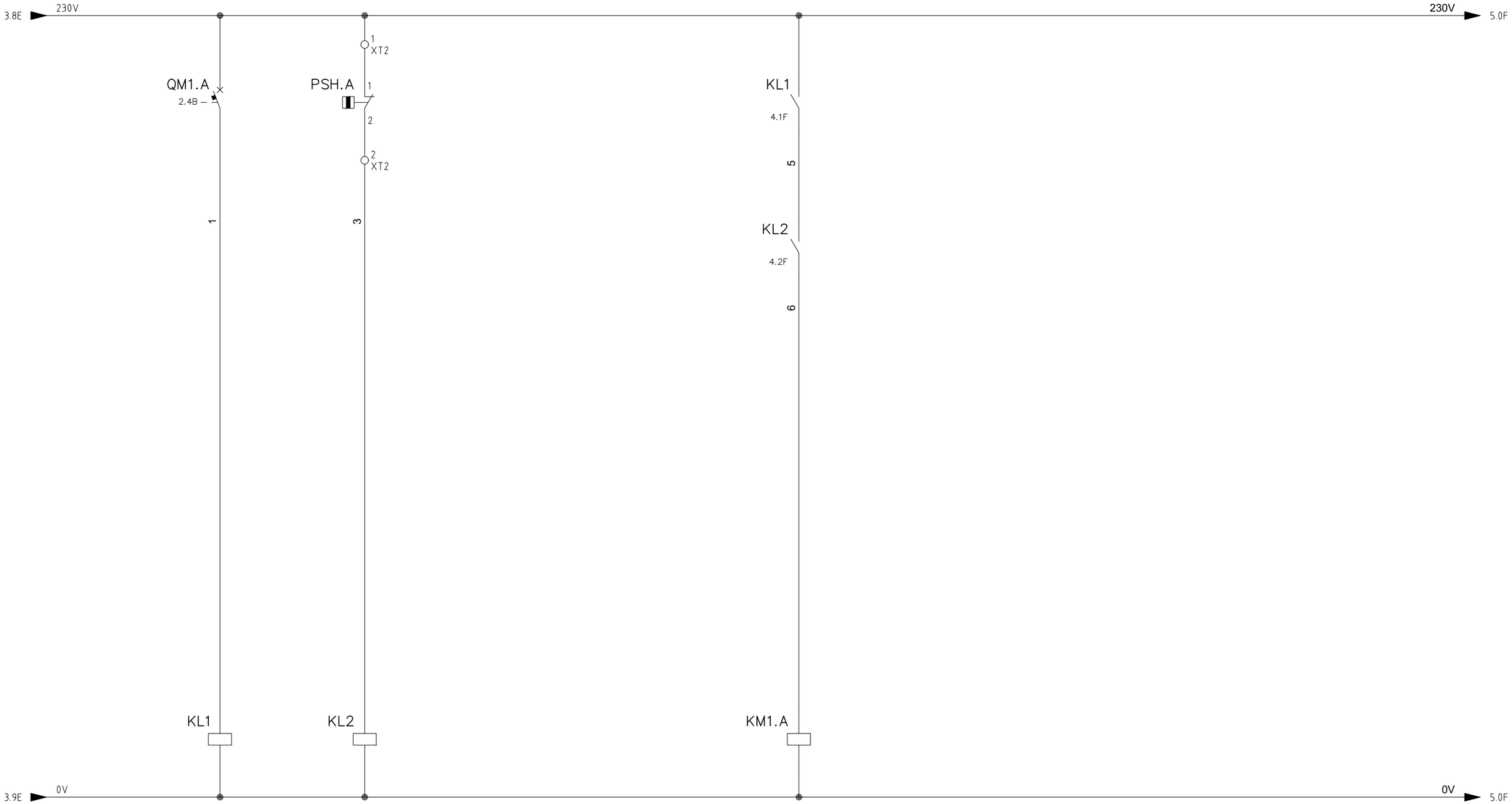
*2223-0078*
*BLDC – HECU CO2 MT*

CIRCUITO POTENZA VENT. COND.
*COND. FANS POWER CIRCUIT*

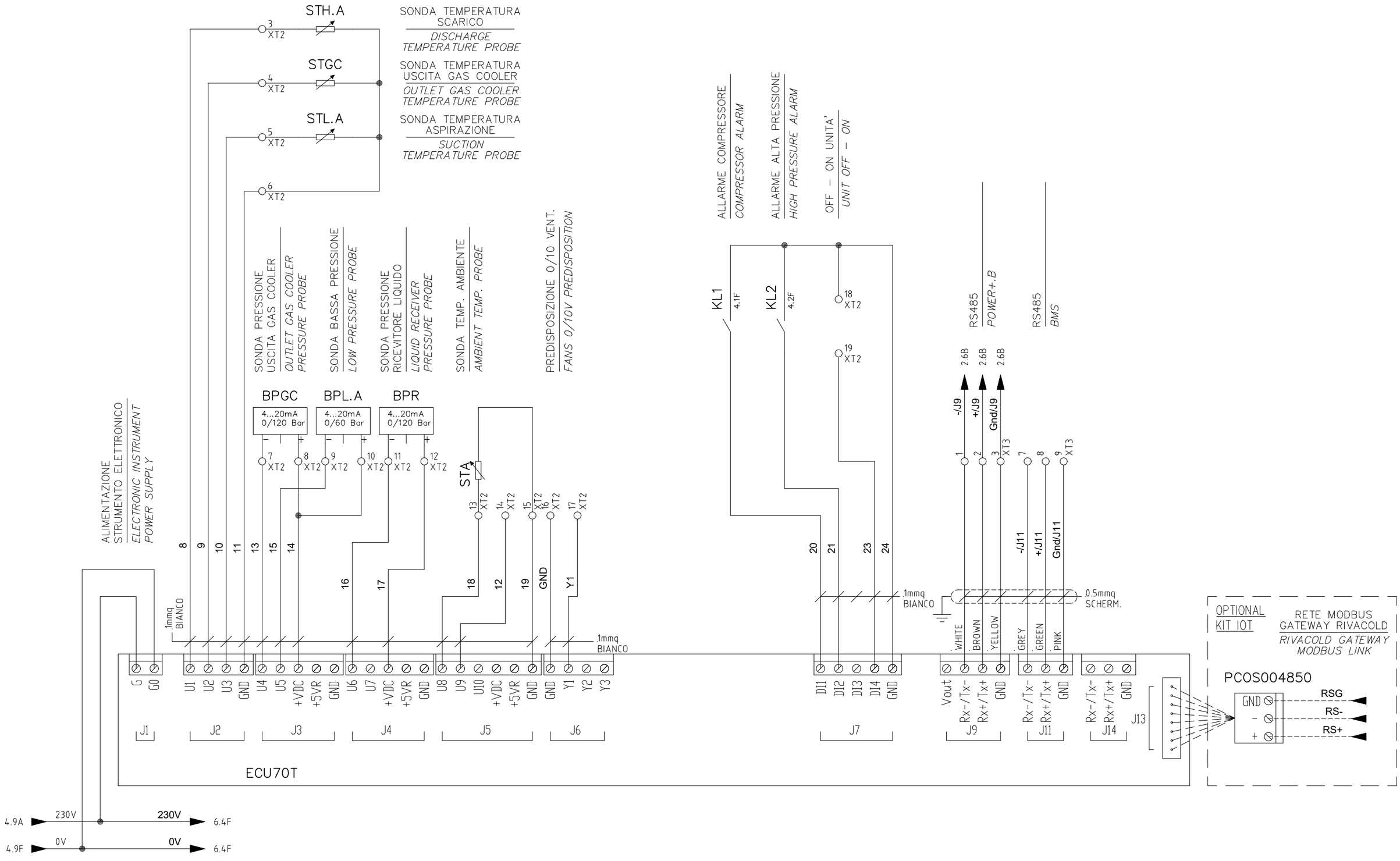
SEPC5304

5602-0935

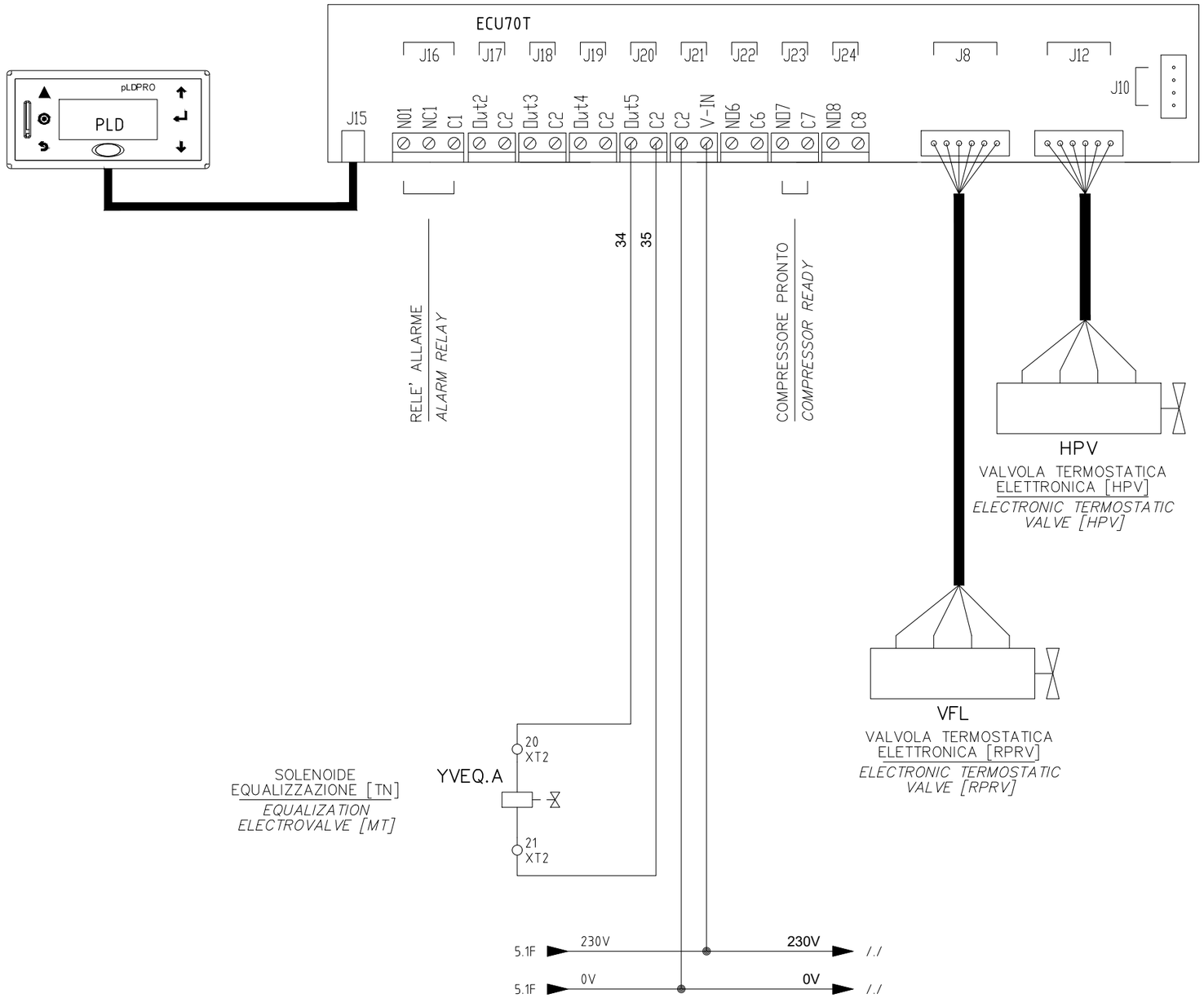
FG. 3 11
F.S. 4




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 | | RIVACOLD MASTERING COLD | 2223–0078 BLDC – HECU CO2 MT | SEPC5304 | = | |
| | | | | DISEGN. | UGOLINI | | | | | + | |
| | | | | VISTO | | | | CIRCUITO DI COMANDO SICUREZZE *SAFETY CONTROL CIRCUIT* | 5602–0935 | FG. 4 | 11 |
| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI | SOST. IL : | SOST. DA : | FILE : SEPC5304.dwg | | F.S. 5 | |

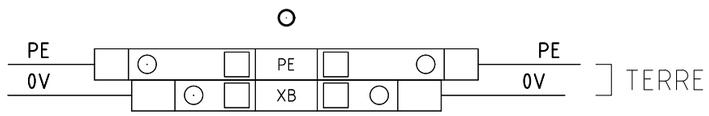



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 | | RIVACOLD MASTERING COLD | 2223–0078 BLDC – HECU CO2 MT | SEPC5304 | = | |
| | | | | DISEGN. | UGOLINI | | | | | + | |
| | | | | VISTO | | | | INGRESSI CONTROLLO ECU70T INPUTS ECU70T CONTROL | | FG. 5 11 | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI | SOST. IL : | SOST. DA : | FILE : SEPC5304.dwg | 5602–0935 | F.S. 6 | |

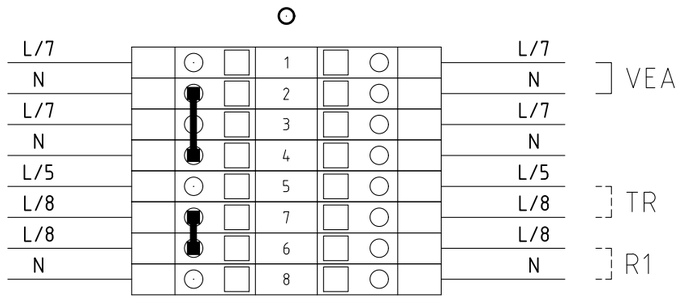



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 | | RIVACOLD MASTERING COLD | 2223–0078 BLDC – HECU CO2 MT | SEPC5304 | = | |
| | | | | DISEGN. | UGOLINI | | | | | + | |
| | | | | VISTO | | | | USCITE CONTROLLO ECU70T OUTPUTS ECU70T CONTROL | | 5602–0935 | FG. 6 11 |
| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI | SOST. IL : | SOST. DA : | FILE : SEPC5304.dwg | | | F.S. 7 |

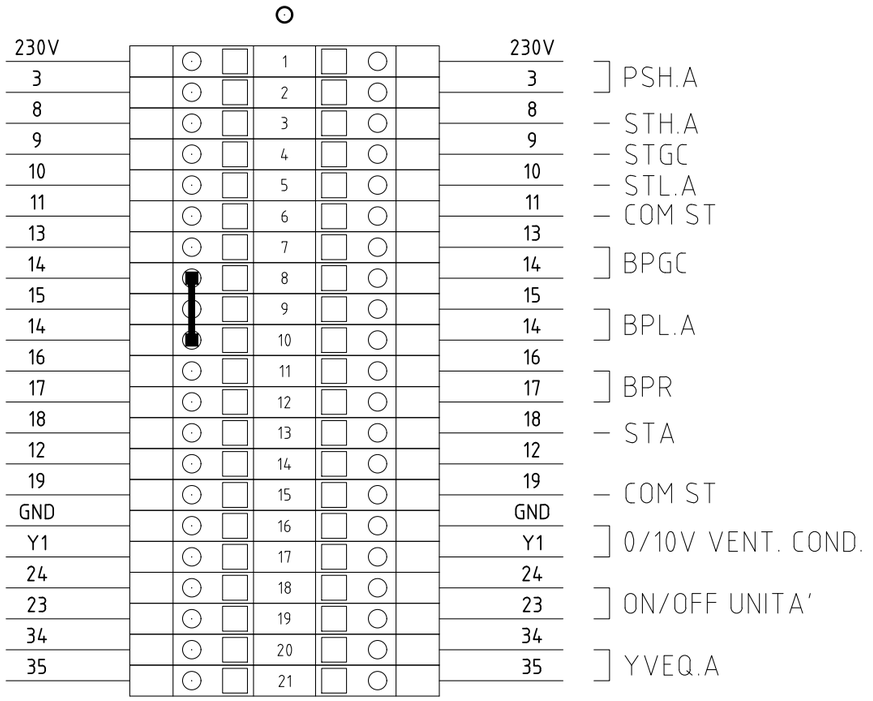
## =QG - XT0
MORSETTIERA TERRA



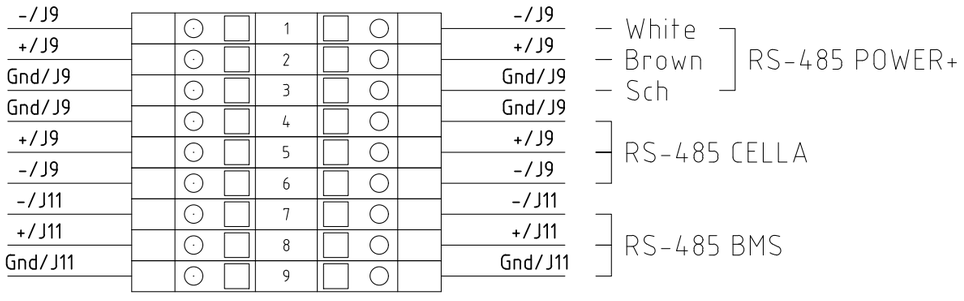

## =QG - XT1
MORSETTIERA POTENZA



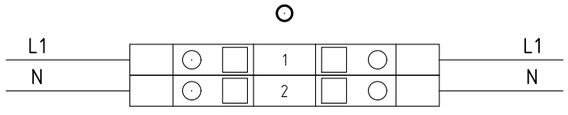

## =QG - XT2
MORSETTIERA COMANDO




## =QG - XT3
MORSETTIERA RS485




## =QG - XT5
MORSETTIERA AUSILIARI




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 | | RIVACOLD MASTERING COLD | 2223-0078 BLDC – HECU CO2 MT | SEPC5304 = |
| | | | | DISEGN. | UGOLINI | | | | + |
| | | | | VISTO | | | | Morsettiere e Connettori | 5602-0935 FG. 7 11 |
| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI | SOST. IL : | SOST. DA : | FILE : SEPC5304.dwg | F.S. 8 |

| Nome/Item | Quadro/Board | Tipo/Type | Descrizione IT (Db) | Descrizione EN (Db) | Costruttore/Marke | Fg/Sh | Q.ta/Q.ty | Codice Interno (Db) |
|---|---|---|---|---|---|---|---|---|
| 25 x 100 | =QG | 25 x 100 | | | Generic | 10 | 0.31 | |
| BPGC | =QG | SPKT00H8C0 | | | Carel | 5 | 1 | SPKT00H8C0 |
| | | SPKC005310 | | | Carel | | 1 | SPKC005310 |
| BPL.A | =QG | SPKT00G1C0 | | | Carel | 5 | 1 | SPKT00G1C0 |
| | | SPKC005310 | | | Carel | | 1 | SPKC005310 |
| BPR | =QG | SPKT00H8C0 | | | Carel | 5 | 1 | SPKT00H8C0 |
| | | SPKC005310 | | | Carel | | 1 | SPKC005310 |
| ECU70T | =QG | ECU70TS0D0 | CONTROLLO ELETTRONICO HECU CO2 230V | ELECTRONIC CONTROL HEOS 230V | Carel | 5 | 1 | ECU70TS0D0 |
| HPV | =QG | T.E. | VALVOLA ELETTRONICA DI ESPANSIONE MOTORIZZATA | STEPPER ELECTRONIC EXPANSION VALVES | Rivacold | 6 | 1 | |
| KL1 | =QG | FIN465282300040 | RELE' 2/S 250V-8A 230V/1/50-60Hz | RELAY 2/S 250V-8A 230V/1/50-60Hz | Finder | 4 | 1 | 99103310 |
| | | FIN9702SPA | ZOCCOLO 2/SC MINI (S.4652) | RELAY SUPPORT 2/SC MINI (S.4652) | Finder | | 1 | 99103311 |
| KL2 | =QG | FIN465282300040 | RELE' 2/S 250V-8A 230V/1/50-60Hz | RELAY 2/S 250V-8A 230V/1/50-60Hz | Finder | 4 | 1 | 99103310 |
| | | FIN9702SPA | ZOCCOLO 2/SC MINI (S.4652) | RELAY SUPPORT 2/SC MINI (S.4652) | Finder | | 1 | 99103311 |
| KM1.A | =QG | 3RT2926-1BD00 | FILTRO VARISTORE 230V PER S0,S2,S3 | 230V VARISTOR FILTER FOR S0,S2,S3 | Siemens | 4 | 1 | 99105823 |
| | | 3RT2027-1AL20 | TELERUTTORE 230V 15kW S0 | REMOTE CONTROL SWITCH 230V 15kW S0 | Siemens | | 1 | 99105919 |
| M1.A | =QG | COMPRESSORE | COMPRESSORE | COMPRESSOR | Rivacold | 2 | 1 | |
| PCOS004850 | =QG | PCOS004850 | SCHEDA SERIALE RS485 PICO | SERIAL CARD RS485 PICO | Carel | 5 | 1 | PCOS004850 |
| PLD | =QG | PLD01GFP00 | TERMINALE GRAFICO DA INCASSO 71x29 | DISPLAY TERMINAL 71x29 | Carel | 6 | 1 | PLD01GFP00 |
| POWER+.A | =QG | PSD1018400 | INVERTER POWER+ 18A 380-480V 3PH 23A IN | INVERTER POWER+ 18A 380-480V 3PH 23A IN | Carel | 2 | 1 | PSD1018400 |
| PSA.A | =QG | PSACH10100 | | | Carel | 2 | 1 | PSACH10100 |
| PSH.A | =QG | PSH | PRESSOSTATO ALTA GENERALE | MAIN HIGH PRESSURE SWITCH | Rivacold | 4 | 1 | |
| QM01 | =QG | S599313 | MAGNETOTERMICO 1P 1A D 15kA | MAGNETOTHERMAL 1P 1A D 15kA | Abb | 3 | 1 | 99104886 |
| QM02 | =QG | S523295 | MAGNETOTERMICO 1P 0.5A C 10kA | MAGNETOTHERMAL 1P 0.5A C 10kA | Abb | 3 | 1 | 99104800 |
| QM1.A | =QG | S468107 | MAGNETOTERMICO 3P 20A C 10KA | MAGNETOTHERMAL 3P 20A C 10KA | Abb | 2 | 1 | 99104845 |
| | | A648820 | CONT. AUX LAT. SX 1NO+1NC S2C-H11L | 1NO+1NC LAT. SX AUX CONT. S2C-H11L | Abb | | 1 | 99104958 |
| QM2 | =QG | S599399 | MAGNETOTERMICO 1P 6A D 15kA | MAGNETOTHERMAL 1P 6A D 15kA | Abb | 3 | 1 | 99104889 |
| QS1 | =QG | OT63F4N2 | SEZIONATORE 63A | MAIN SWITCH 63A | Abb | 2 | 1 | 99103203 |
| | | OXS6X250 | ASTA L=250mm 16-90A | MAIN SWITCH ROD L=250mm 16-90A | Abb | | 1 | 99103209 |
| | | OHYS2AJ | MANIGLIA G/R 16-90A | LOCKING DOOR HANDLE 16-90A | Abb | | 1 | 99103211 |
| R1 | =QG | RV | RESISTENZA VANO | ROOM HEATER | Rivacold | 3 | 1 | |
| STA | =QG | NTC015HP00 | | | Carel | 5 | 1 | NTC015HP00 |
| STGC | =QG | NTC015WH01 | SONDA ACCIAIO TEMPERATURA | IRON TEMPERATURE PROBE NTC | Carel | 5 | 1 | NTC015WH01 |
| STH.A | =QG | NTC015HT41 | | | Carel | 5 | 1 | NTC015HT41 |
| STL.A | =QG | NTC030WF00 | | | Carel | 5 | 1 | NTC030WF00 |
| TC1 | =QG | 438RIC0094 | TRASFORMATORE 100VA 230-400V/230V S/FUS | TRANSFORMER 100VA 230-400/230V S/FUS | Taddei | 3 | 1 | 99105786 |
| TR | =QG | TRV | TERMOSTATO RESISTENZA VANO | ROOM HEATER THERMOSTAT | Rivacold | 3 | 1 | |
| VEA | =QG | VENTOLA ESTRA. | VENTOLA ESTRAZIONE ARIA | AIR EXTRACTION FAN | Rivacold | 3 | 1 | |
| VFL | =QG | T.E. | VALVOLA ELETTRONICA DI ESPANSIONE MOTORIZZATA | STEPPER ELECTRONIC EXPANSION VALVES | Rivacold | 6 | 1 | |
| XT0 | =QG | 284-607 | MORSETTO DI TERRA 2 CONDUTTORI CAGE-CLAMP 10mmq | GROUND TERMINAL 2 WIRES CAGE-CLAMP 10mmq Y/G | Wago | | 1 | 99102048 |
| | | 284-316 | FINALE PER MORSETTO 2 CONDUTTORI CAGE-CLAMP 10mmq | TERMINAL ENDING 2 WIRES CAGE-CLAMP 10mmq | Wago | | 1 | 99102049 |
| | | 280-601 | MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 1 | 99102001 |
| | | 280-330 | FINALE PER MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL ENDING 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 1 | 99102006 |
| XT1 | =QG | 280-601 | MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 8 | 99102001 |
| | | 280-330 | FINALE PER MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL ENDING 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 1 | 99102006 |
| XT2 | =QG | 280-601 | MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 21 | 99102001 |
| | | 280-330 | FINALE PER MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL ENDING 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 1 | 99102006 |

| REV. | MODIFICA | DATA | FIRMA |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

| | |
|---|---|
| DATA | 14/09/2022 |
| DISEGN. | UGOLINI |
| VISTO | |
| APPR. | COLOTTI |

SOST. IL :

SOST. DA :

RIVACOLD MASTERING COLD

FILE : SEPC5304.dwg

2223-0078
BLDC - HECU CO2 MT

LISTA COMPONENTI
*COMPONENTS LIST*

SEPC5304

5602-0935

=
+

FG. 8 11
F.S. 9

| Nome/Item | Quadro/Board | Tipo/Type | Descrizione IT (Db) | Descrizione EN (Db) | Costruttore/Marke | Fg/Sh | Q.ta/Q.ty | Codice Interno (Db) |
|---|---|---|---|---|---|---|---|---|
| XT3 | =QG | 280-601 | MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 9 | 99102001 |
| | | 280-330 | FINALE PER MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL ENDING 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 1 | 99102006 |
| XT5 | =QG | 280-601 | MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 2 | 99102001 |
| | | 280-330 | FINALE PER MORSETTO 2 CONDUTTORI CAGE-CLAMP 2.5mmq | TERMINAL ENDING 2 WIRES CAGE-CLAMP 2.5mmq | Wago | | 1 | 99102006 |
| YVEQ.A | =QG | YVEq | SOLENOIDE EQUALIZZAZIONE | EQUALIZATION ELECTROVALVE | Rivacold | 6 | 1 | |

| REV. | MODIFICA | DATA | FIRMA | | |
|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 |
| | | | | DISEGN. | UGOLINI |
| | | | | VISTO | |
| | | | | APPR. | COLOTTI |

SOST. IL :

SOST. DA :

FILE : SEPC5304.dwg

RIVACOLD MASTERING COLD

*2223-0078*
*BLDC – HECU CO2 MT*

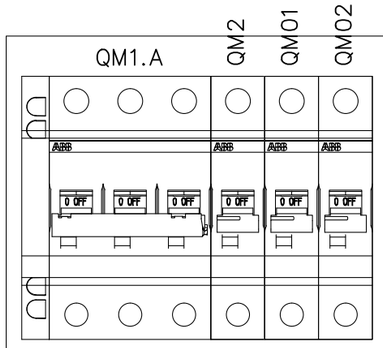
LISTA COMPONENTI
*COMPONENTS LIST*

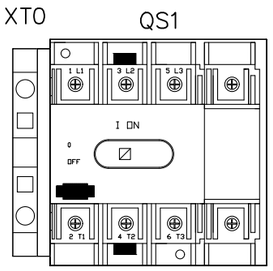
SEPC5304

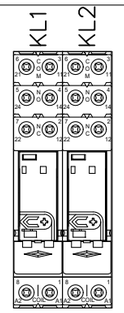
5602-0935

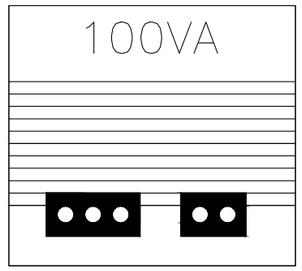
=
+

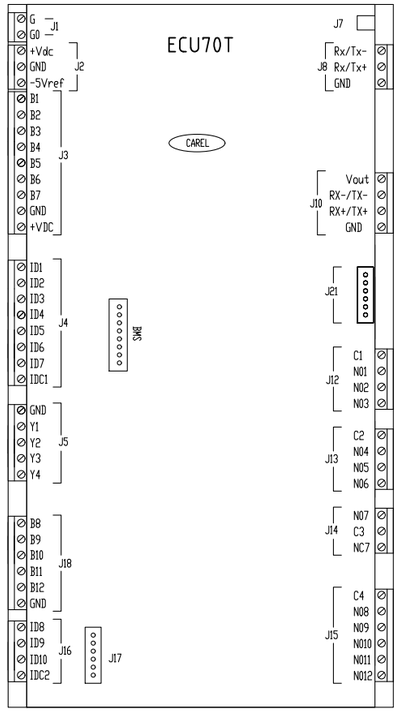
FG. 9 11
F.S. 10

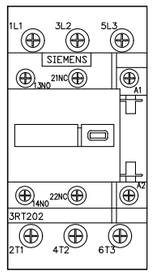


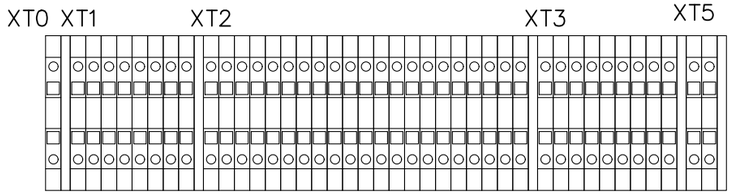



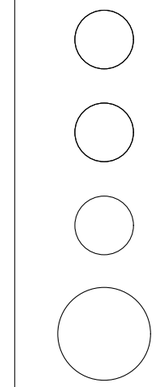




KM1.A

25 x 100



LAYOUT PIASTRA 548x240
SCALA 1:2

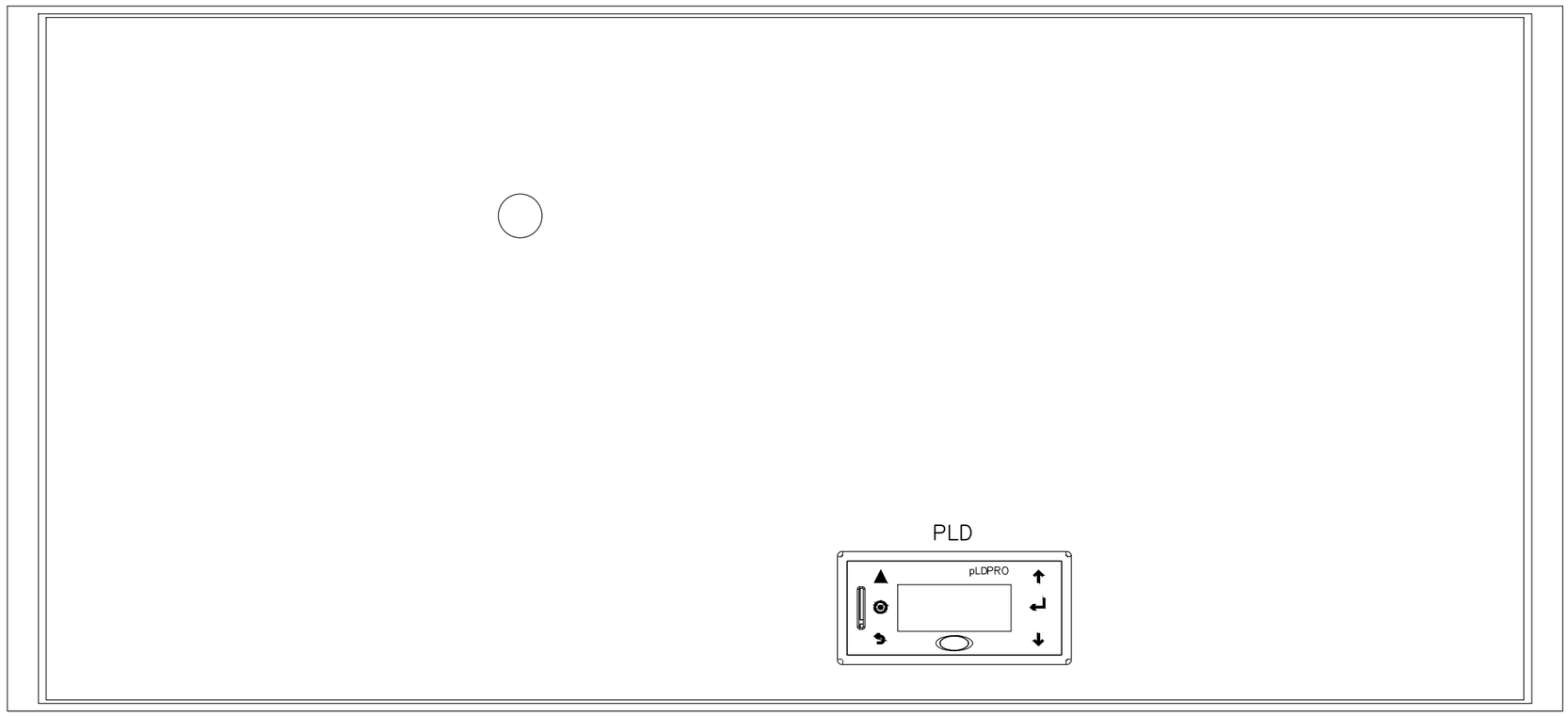
LAYOUT FIANCO 149x240
SCALA 1:2

HPV
FLG
BPGC
BPR
BPL.A
STH.A
STGC
STL.A
STA

M1.A
TERRA
RS-485
VEA
PSH.A
A2-A3
YVEQ.A

LAYOUT BASE 548x148.5
VISTA DALL' ALTO
SCALA 1:2

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 | | RIVACOLD MASTERING COLD | 2223-0078 BLDC – HECU CO2 MT | SEPC5304 = + |
| | | | | DISEGN. | UGOLINI | | | | |
| | | | | VISTO | | | | LAYOUT INTERNO *INTERNAL LAYOUT* | 5602-0935 FG.10 11 F.S.11 |
| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI | SOST. IL : | SOST. DA : | FILE : SEPC5304.dwg | |




LAYOUT COPERCHIO 534x242
SCALA 1:2

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DATA | 14/09/2022 | | RIVACOLD MASTERING COLD | 2223-0078 BLDC - HECU CO2 MT | SEPC5304 | = | |
| | | | | DISEGN. | UGOLINI | | | | | + | |
| | | | | VISTO | | | | LAYOUT ESTERNO *EXTERNAL LAYOUT* | 5602-0935 | FG. 11 11 | |
| REV. | MODIFICA | DATA | FIRMA | APPR. | COLOTTI | SOST. IL : | SOST. DA : | FILE : SEPC5304.dwg | | F.S. / | |