

FWECSAP FWH/FWI

Manuale installazione accessorio FWECSAP
FWH/FWI

FWECSAP accessory installation manual
FWH/FWI

IT

EN



CE

1.1 LEGENDA

Effettuare i collegamenti elettrici in assenza di tensione, secondo le normative di sicurezza vigenti.

Verificare che la tensione di rete corrisponda a quella indicata sulla targhetta dell'apparecchio.

I collegamenti elettrici tratteggiati vanno eseguiti dall'installatore

Legenda per schemi elettrici

- IL: Interruttore di linea (non fornito)
- F: Fusibile di protezione 2A (non fornito)
- CN: Morsettiera a vite/faston
- MV: Motore ventilatore
- C1: Condensatore per motore ventilatore
- AT: Autotrasformatore per motore ventilatore
- MP: Pompa scarico condensa
- FLOAT SWITCH: Galleggiante
 - BN: Marrone = fase alimentazione pompa
 - BK: Nero = segnale allarme galleggiante
 - BU: Blu = neutro alimentazione pompa
 - GY: Grigio = comune allarme galleggiante
- VC ON/OFF: Valvola ON/OFF acqua fredda/calda (impianto 2 tubi) (accessorio), Valvola ON/OFF acqua fredda (impianto 4 tubi) (accessorio)
- VH ON/OFF: Valvola ON/OFF acqua calda (impianto 4 tubi) (accessorio)
 - BN: Marrone = fase alimentazione valvole
 - BU: Blu = neutro alimentazione valvole
- SAI: Sonda temperatura aria interna preinstallata
- SAE: Sonda temperatura aria remota (accessorio)
- SW: Sonda temperatura acqua (accessorio)
- SWH: Sonda temperatura acqua addizionale batteria calda per impianto 4 tubi. (accessorio - Da prevedere opzionalmente solo in presenza di SW)
- SUI: Sonda umidità relativa interna preinstallata
- SUE: Sonda umidità relativa remota (accessorio)
- T1: Trasformatore 230Vac/24Vac (non fornito)
- VC 0-10: Valvola modulante acqua fredda/calda per impianto 2 tubi (accessorio); Valvola modulante acqua fredda per impianto 4 tubi (accessorio)
- VH 0-10: Valvola modulante acqua calda per impianto 4 tubi (accessorio)
 - RD: Rosso = +24Vac alimentazione valvole
 - BK: Nero = 0V alimentazione valvole /GND segnale controllo
 - grey: Grigio = segnale controllo per modulazione 0-10 Vdc

1.2 ISTRUZIONI DI MONTAGGIO FWECSAP SU SCATOLA ELETTRICA FWI 02-08 SENZA COMANDO

1. Scollegare corda BK (proveniente da -FLOAT) da Morsetto "10" su Morsettiera -CN 10Poli
2. Scollegare corde BU e GY (provenienti da -FLOAT) unite con singolo terminale Faston Femmina da Morsetto "N" su Morsettiera -CN 10Poli
3. Scollegare corda BN (proveniente da -FLOAT) da Morsetto "U" su Morsettiera -CN 10Poli
4. Scollegare corda BN (proveniente da Morsetto "L/2" su -EMC FILTER) dal Morsetto "U" su Morsettiera -CN 10Poli
5. Scollegare corda BU (proveniente da Morsetto "N/4" su -EMC FILTER)

1.1 LEGEND

Make the electrical connections with the power supply disconnected, in accordance with current safety regulations.

Check that the mains electricity supply is compatible with the voltage shown on the unit rating plate.

The electrical connections indicated must be made by the installer

Electrical wiring diagram legend

- IL: Circuit breaker (not supplied)
- F: Safety 2A fuse (not supplied)
- CN: Fast on/screw terminal board
- MV: Fan motor
- C1: Condenser for fan motor
- AT: Autotransformer for fan motor
- MP: Condensate drainage pump
- FLOAT SWITCH: Float
 - BN: Brown = pump power supply phase
 - BK: Black = float switch alarm signal
 - BU: Blue = pump power supply neutral
 - GY: Grey = common float alarm
- VC ON/OFF: On/OFF cold/hot water valve (2 pipes system) (accessory); On/OFF cold water valve (4 pipes system) (accessory)
- VH ON/OFF: hot water valve (4 pipes system) (accessory)
 - BN: Brown = valves power supply phase
 - BU: Blue = neutral valve power supply
- SAI: Pre-installed internal air temperature probe
- SAE: Remote air temperature probe (accessory)
- SW: Air temperature probe (accessory)
- SWH: Hot water temperature probe additional coil for 4-pipe units. (accessory - available in option only with SW)
- SUI: Pre-installed internal air relative humidity probe
- SUE: Remote relative humidity probe (accessory)
- T1: Transformer 230Vac/24Vac (not supplied)
- VC 0-10: modulating cold/hot water 2 pipes system (accessory); modulating cold water valve 4 pipes system (accessory)
- VH 0-10: Hot water valve modulating 0/10V 4 pipes system (accessory)
 - RD: Red = + 24V valves power supply
 - BK: Black = 0V valve power supply / control signal GND
 - grey: Grey = 0-10 Vdc valve control signal for modulating

1.2 ASSEMBLY INSTRUCTIONS FWECSAP ON ELECTRICAL BOX FWI 02-08 WITHOUT CONTROL

1. Disconnect the cable BK (from FLOAT) from terminal "10" on terminal board -CN 10Poles
2. Disconnect the cables BU and GY (from FLOAT) joined by a single Faston Female terminal "N" on terminal board -CN 10Poles
3. Disconnect the cable BN (from FLOAT) from terminal "U" on terminal board -CN 10Poles
4. Disconnect the cable BN (from terminal "L/2" on EMC filter) from terminal "U" on terminal board -CN 10Poles
5. Disconnect the cable BU (from terminal "N/4" on EMC filter) from terminal "N" on terminal board -CN 10Poles
6. Disconnect the cable BK (from "U/1" on EMC FILTER) from terminal "GV" on terminal board -CN 10Poles
7. Disconnect the cable BU (from terminal "U/3" on EMC filter) from

- dal Morsetto "N" su Morsettiera -CN 10Poli
6. Scollegare corda BK (proveniente da Morsetto "U/1" su -EMC FILTER) dal Morsetto "GV" su Morsettiera -CN 10Poli
 7. Scollegare corda BU (proveniente da Morsetto "U/3" su -EMC FILTER) dal Morsetto "4" su Morsettiera -CN 10Poli
 8. Scollegare corda GNYE (proveniente da Morsetto "PE" su -EMC FILTER) dal Morsetto  su Morsettiera -CN 10Poli
 9. Rimuovere -EMC FILTER e corde associate
 10. Scollegare corda BN (proveniente da Morsetto "L" su -INV) dal Morsetto "GV" su Morsettiera -CN 10Poli
 11. Scollegare corda BU (proveniente da Morsetto "N" su -INV) dal Morsetto "4" su Morsettiera -CN 10Poli
 12. Scollegare corda RD (proveniente da Morsetto "A+" su -INV) dal Morsetto "PV" su Morsettiera -CN 10Poli
 13. Scollegare corda BK (proveniente da Morsetto "A-" su -INV) dal Morsetto "MV" su Morsettiera -CN 10Poli
 14. Scollegare corda GNYE (proveniente da Morsetto "PE" su -INV) dal Morsetto  su Morsettiera -CN 10Poli
 15. Scollegare corda GNYE (proveniente dal Lamellare di Terra) dal Morsetto  su Morsettiera -CN 10Poli
 16. Rimuovere Morsettiera -CN 10Poli e viti di fissaggio
 17. Montare Morsettiera -CN 3Poli con viti di fissaggio (vedere layout per corretto verso di montaggio)
 18. Montare Scheda -FWECSAP con viti di fissaggio (vedere layout per corretto verso di montaggio)
 19. Collegare corda GNYE, proveniente dal Lamellare di Terra, a Morsetto  su Morsettiera -CN 3Poli
 20. In caso di assenza Valvole o di presenza Valvole ON/OFF 230Vac (-Vc/-Vh), Collegare corde BU e GY (provenienti da -FLOAT) unite con singolo terminale Faston Femmina a Morsetto "N" su Morsettiera -CN 3Poli.
 21. In caso di presenza Valvole Modulanti 0-10Vdc (-Vc 0-10/-Vh 0-10), separare corde BU e GY (provenienti da -FLOAT) unite con singolo terminale Faston Femmina e collegare corda BU a Morsetto "N" su Morsettiera -CN 3Poli, poi unire corda GY a corda GY dell' Attuatore Valvola della Batteria Principale (Vc 0-10)
 22. In caso di assenza Valvole lasciare corda BK (proveniente da -FLOAT) scollegata
 23. In caso di presenza Valvole ON/OFF 230Vac, collegare corda BK (proveniente da -FLOAT) al Segnale Neutro (conduttore BU) di -Vc/-Vh
 24. In caso di presenza Valvole Modulanti 0-10Vdc, collegare corda BK (proveniente da -FLOAT) a -FWECSAP, Blocco Morsettiera CN4, Morsetto "A2"
 25. Collegare corda BN (proveniente da -FLOAT) a Morsetto "U" su Morsettiera -CN 3Poli
 26. Collegare corda GNYE (proveniente da Morsetto "PE" su -INV) al Lamellare di Terra (se necessario effettuare una prolunga)
 27. Collegare corda BU (proveniente da Morsetto "N" su -INV) al Morsetto "N" su Morsettiera -CN 3Poli (se necessario effettuare una prolunga)
 28. Collegare corda BN (proveniente da Morsetto "L" su -INV) a -FWECSAP, Blocco Morsettiera CN2, Morsetto "01" (se necessario realizzare una prolunga)
 29. Collegare corda RD (proveniente da Morsetto "A+" su -INV) a -FWECSAP, Blocco Morsettiera CN4, Morsetto "A1"
 30. Collegare corda BK (proveniente da Morsetto "A-" su -INV) a -FWECSAP, Blocco Morsettiera CN4, Morsetto "CA"
 31. Realizzare il Collegamento tra Morsettiera -CN 3Poli, Morsetto  -> a -FWECSAP Blocco Morsettiera CN1, Morsetto  con corda GNYE sezione 1,5mm²
 32. Realizzare il Collegamento tra Morsettiera -CN 3Poli, Morsetto "N" -> -FWECSAP, Blocco Morsettiera CN1, Morsetto "N" con corda BU terminal "4" on terminal board -CN 10Poles
 8. Disconnect the cable GNYE (from terminal "PE" on EMC-FILTER) from terminal  on terminal board CN 10Poles
 9. Remove EMC filter with associated cables
 10. Disconnect the cable BK (from terminal "L" on INV) from terminal "GV" on terminal board -CN 10Poles
 11. Disconnect the cable BU (from terminal "N" on INV) from terminal "4" on terminal board CN 10Poles
 12. Disconnect the cable RD (from terminal "A+" on INV) from terminal "PV" on terminal board CN 10Poles
 13. Disconnect the cable BK (from terminal "A-" on -INV) from terminal "MV" on terminal board -CN 10Poles
 14. Disconnect the cable GNYE (from terminal "PE" on INV) from terminal  on terminal board CN 10Poles
 15. Disconnect the cable GNYE (from grounding) from terminal  on terminal board CN 10Poles
 16. Remove Terminal board CN 10Poles and fixing screws
 17. Install Terminal board -CN 3Poles with fixing screws (see the layout for correct installation)
 18. Install Power-FWECSAP with fixing screws (see the layout for correct installation)
 19. Connect the cable GNYE from grounding to terminal  on terminal -CN 3Poles
 20. In case of absence of Valves or presence of Valves ON/OFF 230Vac (-Vc/-Vh), Connect the cables BU and GY (from FLOAT) joined by a single Faston Female terminal "N" on terminal board -CN 3Poles.
 21. In case of presence of Modulating Valves 0-10Vdc (-Vc0-10/-Vh 0-10), split the cables BU and GY (from FLOAT) joined by a single Faston Female terminal and connect the cable BU to terminal "N" on terminal board -CN 3Poles, then join the cable GY with cable GY of Primary coil actuator valve (Vc 0-10)
 22. In case of absence of Valves leave the cable BK (from FLOAT) disconnected
 23. In case of presence of Valves ON/OFF 230Vac, connect the cable BK (from FLOAT) to Neutral signal (conductor BU) of -Vc/-Vh,
 24. In case of presence of Modulating Valves 0-10Vdc, connect the cable BK (from FLOAT) to FWECSAP, Terminal board CN4, terminal "A2"
 25. Connect the cable BN (from FLOAT) to terminal "U" on terminal board -CN 3Poles
 26. Connect the cable GNYE (from terminal "PE" on INV) to grounding (if is necessary make an extension cable)
 27. Connect the cable BU (from terminal "N" on INV) on terminal "N" on terminal board -CN 3Poles (if is necessary make an extension cable)
 28. Connect the cable BK (from terminal "L" on INV) to FWECSAP, Terminal Board CN2, terminal "01" (if is necessary make an extension cable)
 29. Connect the cable RD (from terminal "A+" on INV) to FWECSAP, Terminal Board CN4, terminal "A1"
 30. Connect the cable BK (from terminal "A-" on INV) to FWECSAP, Terminal Board CN4, terminal "CA"
 31. Connect the wiring between Terminal board -CN 3Poles, terminal  -> FWECSAP Terminal Board CN1, terminal  with cable GNYE section 1,5mm²
 32. Connect the wiring between Terminal board -CN 3Poles, terminal "N"-> FWECSAP, Terminal Board CN1, terminal "N" with cable section 1mm²
 33. Connect the wiring between Terminal board -CN 3Poles, terminal "U"-> FWECSAP, Terminal Board CN1, terminal "L" -> FWECSAP,

sezione 1mm²

33. Realizzare il Collegamento in serie tra Morsettiera -CN 3Poli, Morsetto "U" -> -FWECSAP, Blocco Morsettiera CN1, Morsetto "L" -> -FWECSAP, Blocco Morsettiera CN2, Morsetto "C1" con corda BN sezione 1mm²
34. Ultimare i collegamenti riportati su schemi elettrici in base alla configurazione della macchina.

Vedi schemi elettrici: 1.11 p. 11, 1.12 p. 12, 1.13 p. 13.

1.3 ISTRUZIONI DI MONTAGGIO FWECSAP SU SCATOLA ELETTRICA FWH 02-08 SENZA COMANDO

1. Scollegare corda BK (proveniente da -FLOAT) da Morsetto "10" su Morsettiera -CN 10Poli
2. Scollegare corde BU e GY (provenienti da -FLOAT) unite con singolo terminale Faston Femmina da Morsetto "N" su Morsettiera -CN 10Poli
3. Scollegare corda BN (proveniente da -FLOAT) da Morsetto "U" su Morsettiera -CN 10Poli
4. Scollegare corda BK (proveniente da -AT) da Morsetto "GV" su Morsettiera -CN 10Poli
5. Scollegare corda BU (proveniente da -AT) da Morsetto "MV" su Morsettiera -CN 10Poli
6. Scollegare corda RD (proveniente da -AT) da Morsetto "PV" su Morsettiera -CN 10Poli
7. Scollegare corda BU (proveniente da -C) da Morsetto "4" su Morsettiera -CN 10Poli
8. Scollegare corda GNYE (proveniente da -MV) da Morsetto  su Morsettiera -CN 10Poli
9. Scollegare corda GNYE (proveniente da Lamellare di Terra) da Morsetto  su Morsettiera -CN 10Poli
10. Rimuovere Morsettiera -CN 10Poli e viti di fissaggio
11. Montare Morsettiera -CN 3Poli con viti di fissaggio (vedere layout per corretto verso di montaggio)
12. Montare Scheda -FWECSAP con viti di fissaggio (vedere layout per corretto verso di montaggio)
13. Collegare corda GNYE (proveniente dal Lamellare di Terra) a Morsetto  su Morsettiera -CN 3Poli
14. In caso di assenza Valvole o di presenza Valvole ON/OFF 230Vac (-Vc/-Vh), Collegare corde BU e GY (provenienti da -FLOAT) unite con singolo terminale Faston Femmina a Morsetto "N" su Morsettiera -CN 3Poli.
15. In caso di presenza Valvole Modulanti 0-10Vdc (-Vc 0-10/-Vh 0-10), separare corde BU e GY (provenienti da -FLOAT) unite con singolo terminale Faston Femmina e collegare corda BU a Morsetto "N" su Morsettiera -CN 3Poli, poi unire corda GY a corda GY dell' Attuatore Valvola della Batteria Principale (Vc 0-10)
16. In caso di assenza Valvole lasciare corda BK (proveniente da -FLOAT) scollegata
17. In caso di presenza Valvole ON/OFF 230Vac, collegare corda BK (proveniente da -FLOAT) al Segnale Neutro (conduttore BU) di -Vc/-Vh
18. In caso di presenza Valvole Modulanti 0-10Vdc, collegare corda BK (proveniente da -FLOAT) a -FWECSAP, Blocco Morsettiera CN4, Morsetto "A2"
19. Collegare corda BN (proveniente da -FLOAT) a Morsetto "U" su Morsettiera -CN 3Poli
20. Collegare corda GNYE (proveniente da -MV) al Lamellare di Terra (se necessario realizzare una prolunga)
21. Collegare corda BU (proveniente da -C) al Morsetto "N" su Morsettiera -CN 3Poli (se necessario realizzare una prolunga)
22. Collegare corda BK (proveniente da -AT) a -FWECSAP, Blocco Morsettiera CN2, Morsetto "04"
23. Collegare corda BU (proveniente da -AT) a -FWECSAP, Blocco

Terminal board CN2, terminal "C1" with cable BN section 1mm²

34. Connect the wirings in electrical diagrams in base of unit configuration.

See electrical wirings: 1.11 p. 11, 1.12 p. 12, 1.13 p. 13.

1.3 ASSEMBLY INSTRUCTIONS FWECSAP ON ELECTRICAL BOX FWH 02-08 WITHOUT CONTROL

1. Disconnect the cable BK (from FLOAT) from terminal "10" on terminal board -CN 10Poles
2. Disconnect the cables BU and GY (from FLOAT) joined by a single Faston Female terminal "N" on terminal board -CN 10Poles
3. Disconnect the cable BN (from FLOAT) from terminal "U" on terminal board -CN 10Poles
4. Disconnect the cable BK (from AT) from terminal "GV" on terminal -CN 10Poles
5. Disconnect the cable BU (from AT) from terminal "MV" on terminal CN 10Poles
6. Disconnect the cable RD (from AT) from terminal "PV" on terminal CN 10Poles
7. Disconnect the cable BU (from C) from terminal "4" on terminal CN 10Poles
8. Disconnect the cable GNYE (from MV) from terminal  on terminal CN 10Poles
9. Disconnect the cable GNYE (from grounding) from terminal  on terminal CN 10Poles
10. Remove Terminal board CN 10Poles and fixing screws
11. Install Terminal board -CN 3Poles with fixing screws (see the layout for correct installation)
12. Install Power-FWECSAP with fixing screws (see the layout for correct installation)
13. Connect the cable GNYE (from grounding) to terminal  on terminal board -CN 3Poles
14. In case of absence of Valves or presence of Valves ON/OFF 230Vac (-Vc/-Vh), Connect the cables BU and GY (from FLOAT) joined by a single Faston Female terminal "N" on terminal board -CN 3Poles.
15. In case of presence of Modulating Valves 0-10Vdc (-Vc0-10/-Vh 0-10), split the cables BU and GY (from FLOAT) joined by a single Faston Female terminal and connect the cable BU to terminal "N" on terminal board -CN 3Poles, then join the cable GY with cable GY of Primary coil actuator valve (Vc 0-10)
16. In case of absence of Valves leave the cable BK (from FLOAT) disconnected
17. In case of presence of Valves ON/OFF 230Vac, connect the cable BK (from FLOAT) to Neutral signal (conductor BU) of -Vc/-Vh,
18. In case of presence of Modulating Valves 0-10Vdc, connect the cable BK (from FLOAT) to FWECSAP, Terminal board CN4, terminal "A2"
19. Connect the cable BN (from FLOAT) to terminal "U" on terminal board -CN 3Poles
20. Connect the cable GNYE (from -MV) to grounding (if is necessary make an extension cable)
21. Connect the cable BU (from -C) to terminal "N" on terminal board -CN 3Poles (if is necessary make an extension cable)
22. Connect the cable BK (from AT) to FWECSAP, Terminal board CN2, terminal "04"
23. Connect the cable BU (from AT) to FWECSAP, Terminal board CN2, terminal "03"
24. Connect the cable BK (from AT) to FWECSAP, Terminal board CN2, terminal "02"

Morsettiera CN2, Morsetto "03"

24. Collegare corda RD (proveniente da -AT) a -FWECSAP, Blocco Morsettiera CN2, Morsetto "02"

25. Realizzare il Collegamento tra Morsettiera -CN 3Poli, Morsetto  -> a -FWECSAP Blocco Morsettiera CN1, Morsetto  con corda GNYE sezione 1,5mm²

26. Realizzare il Collegamento tra Morsettiera -CN 3Poli, Morsetto "N" -> -FWECSAP, Blocco Morsettiera CN1, Morsetto "N" con corda BU sezione 1mm²

27. Realizzare il Collegamento in serie tra Morsettiera -CN 3Poli, Morsetto "U" -> -FWECSAP, Blocco Morsettiera CN1, Morsetto "L" -> -FWECSAP, Blocco Morsettiera CN2, Morsetto "C1" con corda BN sezione 1mm²

28. Ultimare i collegamenti riportati su schemi elettrici in base alla configurazione della macchina.

Vedi schemi elettrici: da 1.14 p. 14, 1.15 p. 15 a 1.22 p. 22.

25. Connect the wiring between Terminal board -CN 3Poles, terminal  -> FWECSAP Terminal Board CN1, terminal  with cable GNYE section 1,5mm²

26. Connect the wiring between Terminal board -CN 3Poles, terminal "N"-> FWECSAP, Terminal Board CN1, terminal "N" with cable section 1mm²

27. Connect the wiring between Terminal board -CN 3Poles, terminal "U"-> FWECSAP, Terminal Board CN1, terminal "L" -> FWECSAP, Terminal board CN2, terminal "C1" with cable BN section 1mm²

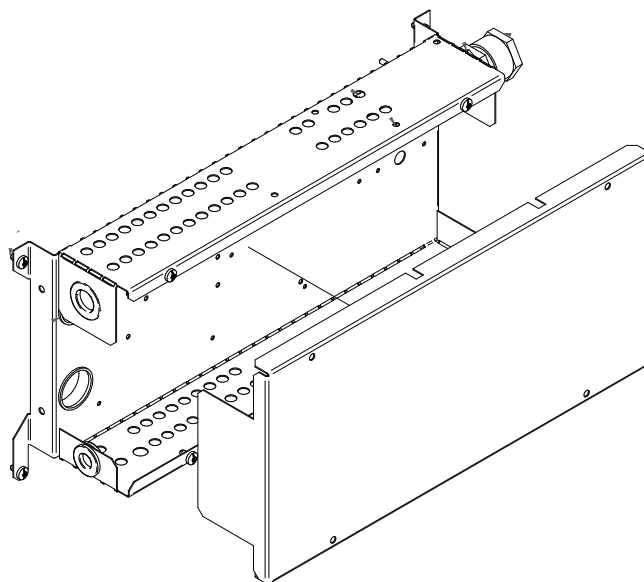
28. Connect the wirings in electrical diagrams in base of unit configuration.

See electrical wirings: 1.14 p. 14, 1.15 p. 15 to 1.22 p. 22.

1 FIGURES

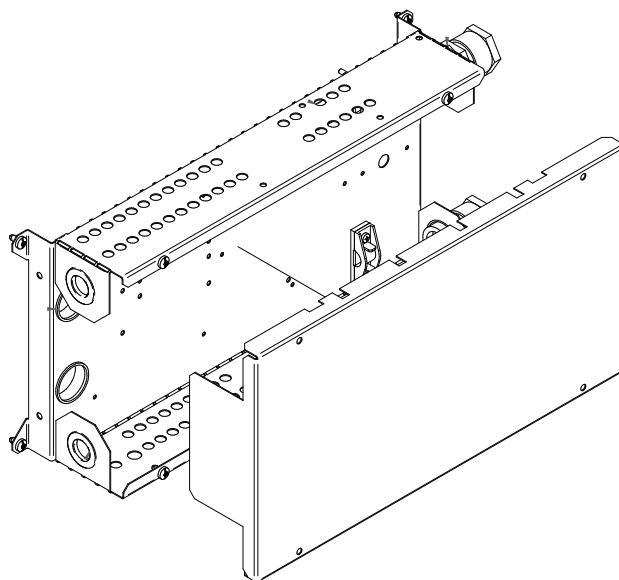
» Scatola elettrica FWH/FWI 02-04 / Electric box FWH/FWI 02-04

» 1.1



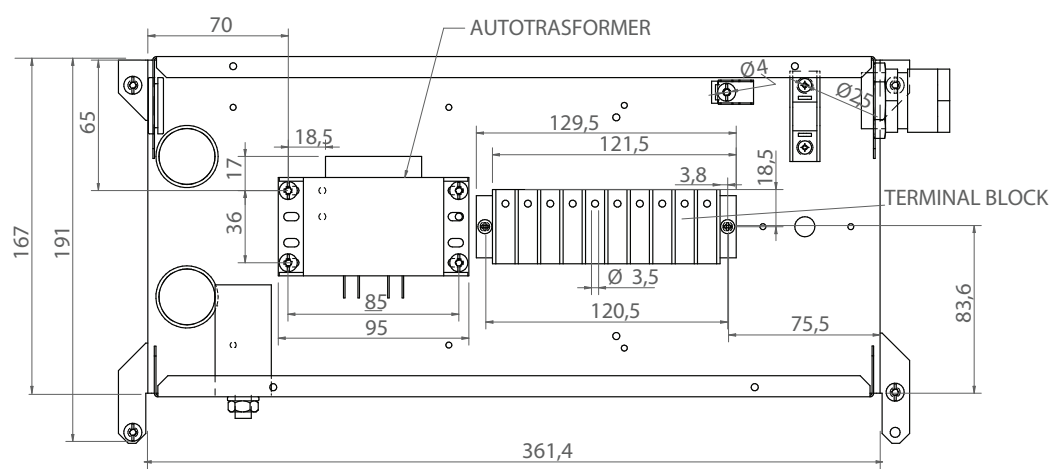
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» 1.2



» Scatola elettrica base FWH 02-04 / Base electric box FWH 02-04

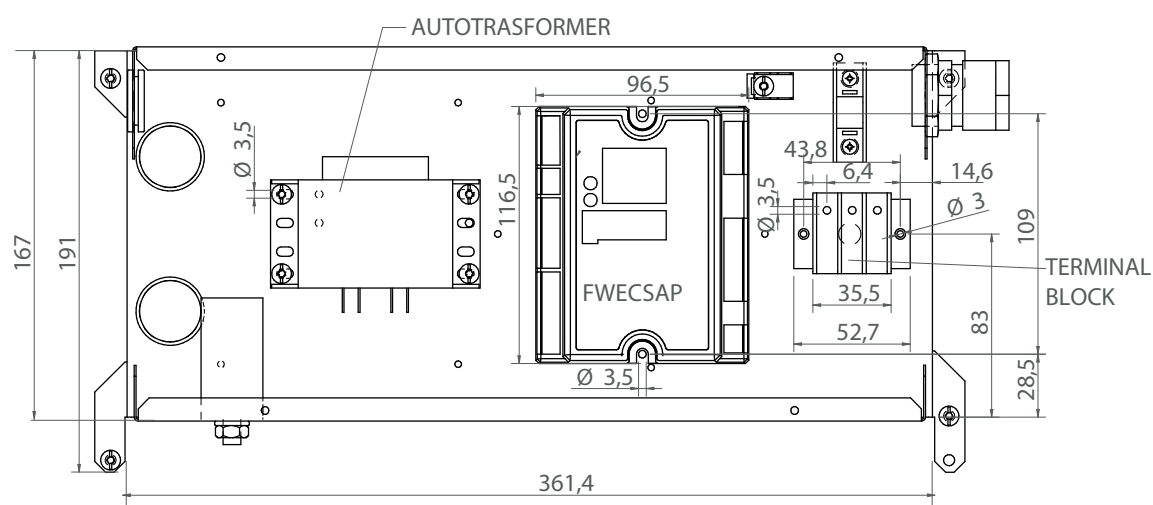
» 1.3



basic models electrical board

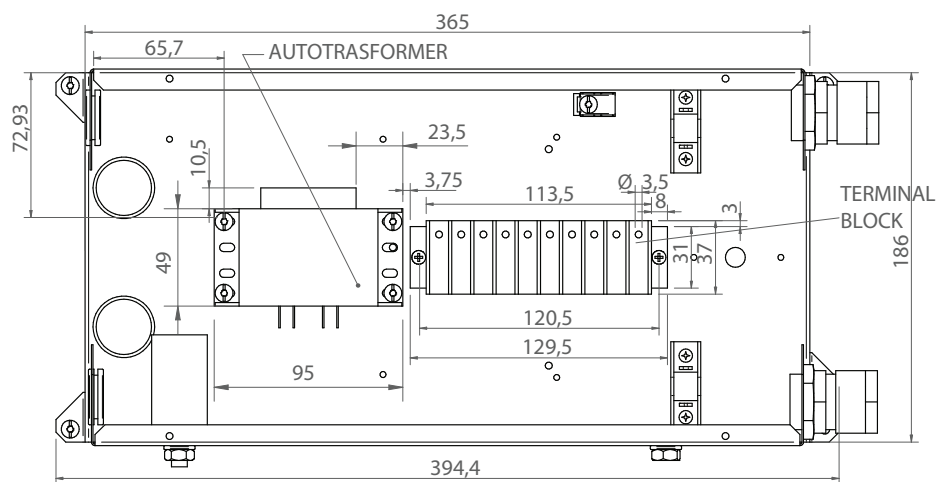
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» 1.4



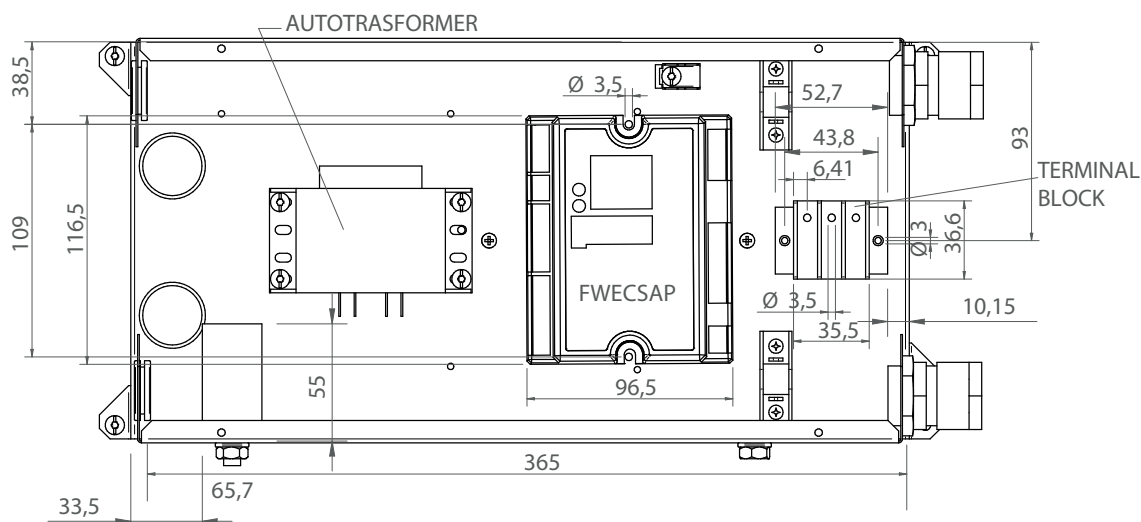
electrical board for on site power board installation

» 1.5



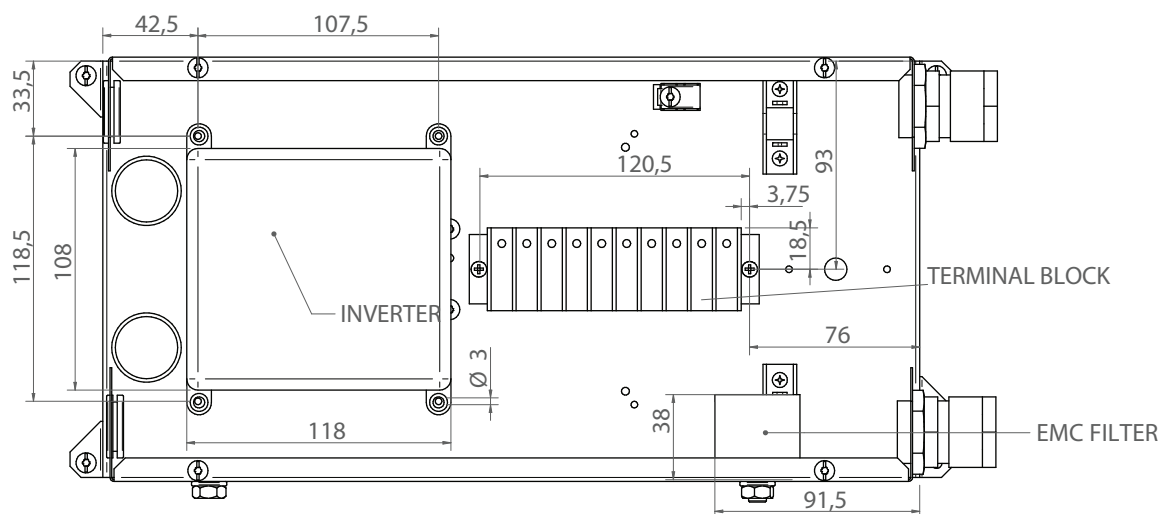
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» 1.6



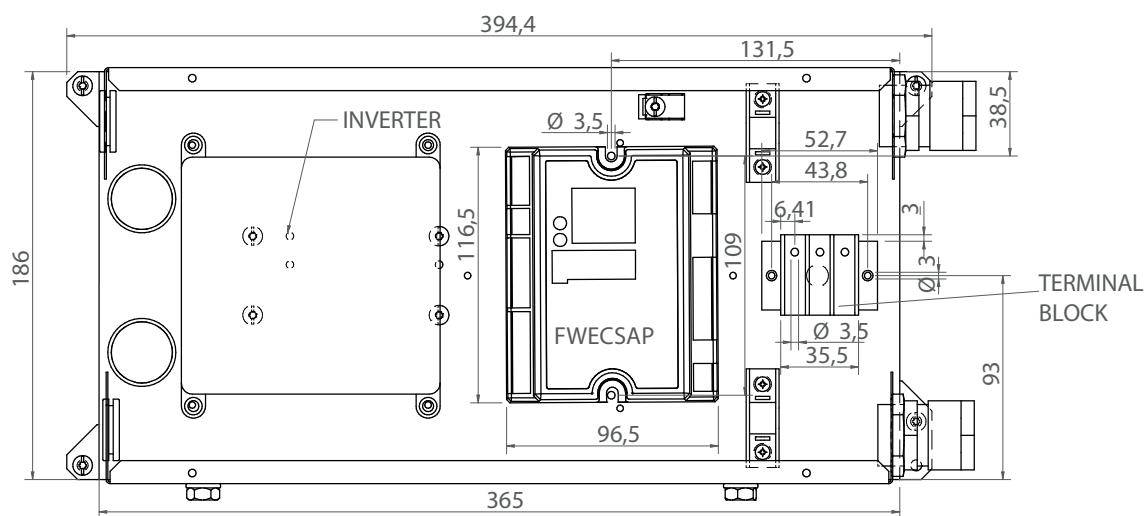
electrical board for on site power board installation

» 1.9



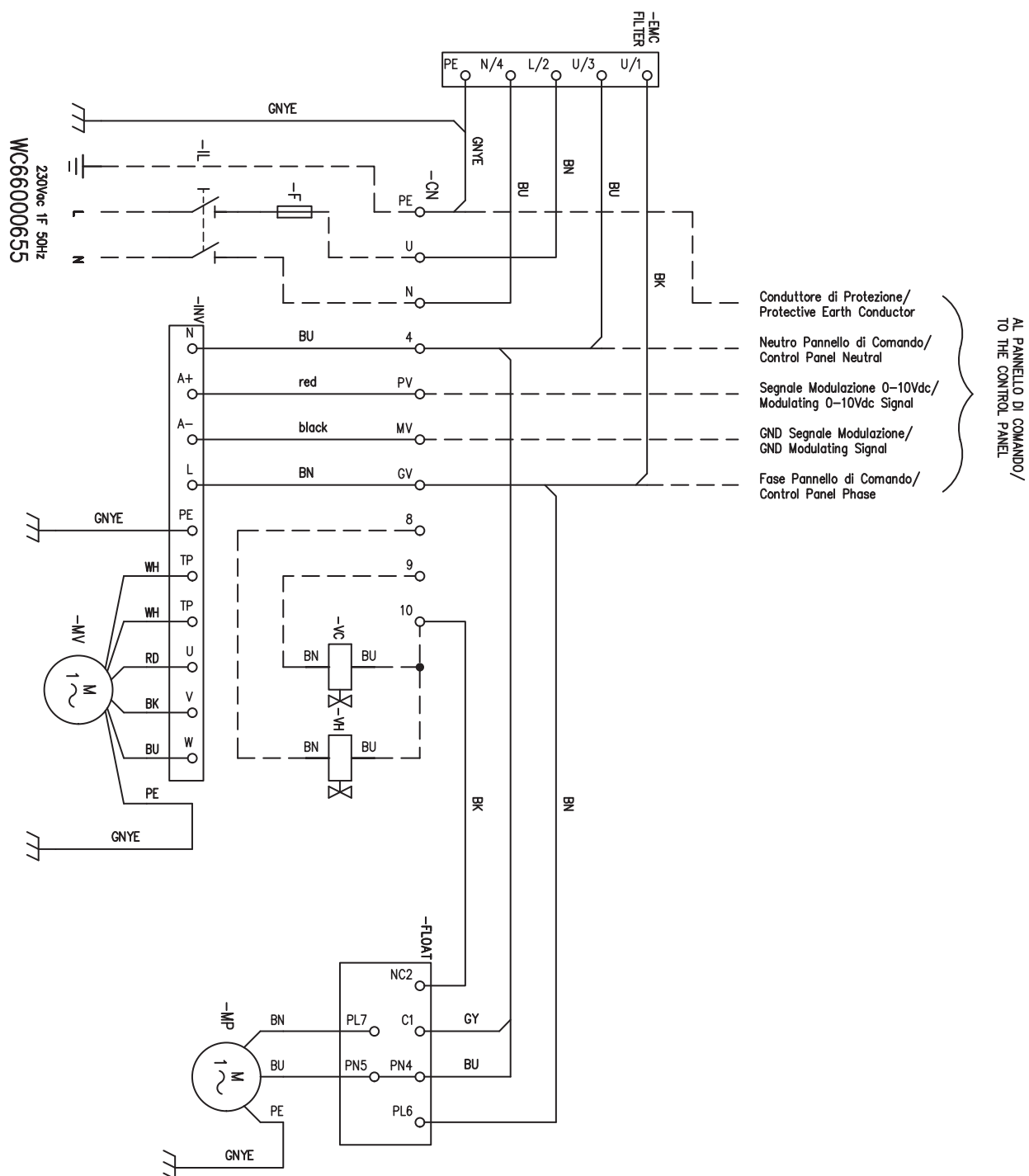
basic models electrical board

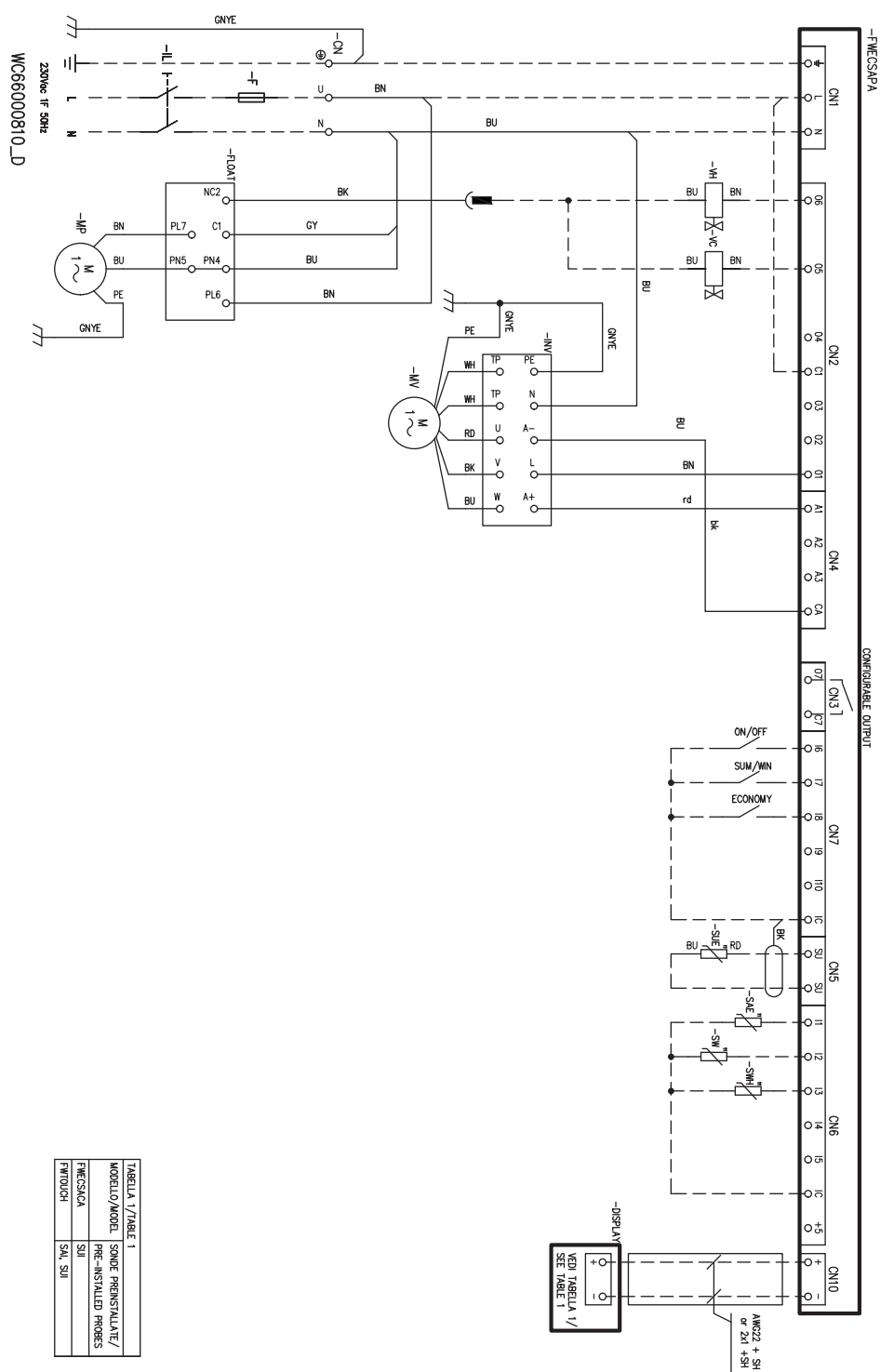
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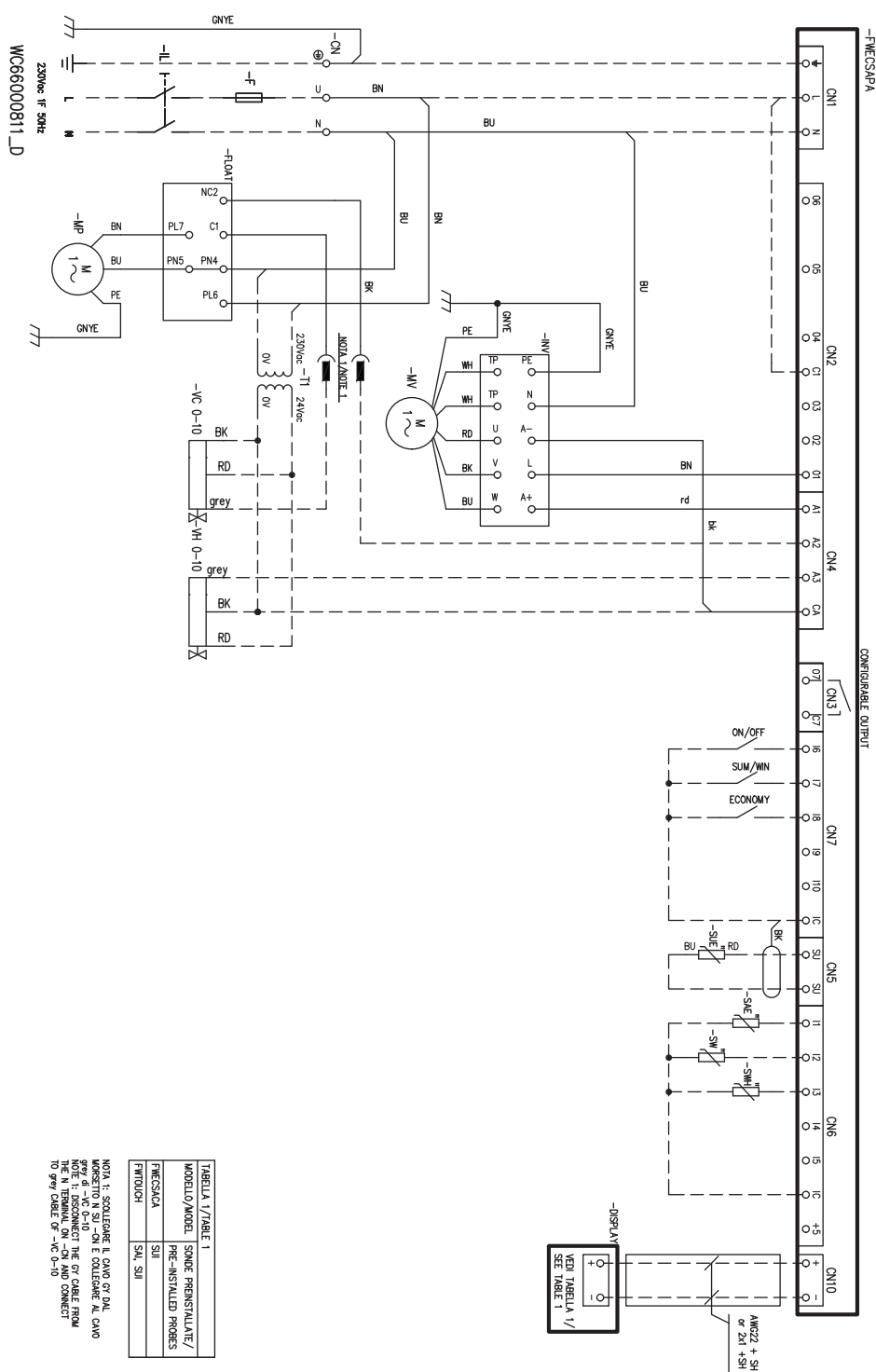
electrical board for on site power board installation

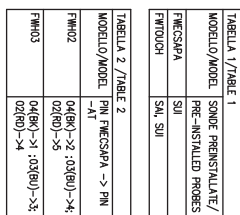
Standard electrical wires		Electrical wires + FWECSA	
WC66000655	FWI 02-08	WC66000810	FWI 02-08 + FWECSA + on/off valve 230V
WC66000655	FWI 02-08	WC66000811	FWI 02-08 + FWECSA + modulating valve
WC66000658	FWH 02-03	WC66000812	FWI 02-03 + FWECSA + on/off valve 230V
WC66000659	FWH 04	WC66000813	FWH 04 + FWECSA + on/off valve 230V
WC66000660	FWH 06-08	WC66000814	FWH 06-08 + FWECSA + on/off valve 230V
WC66000658	FWH 02-03	WC66000815	FWH 02-03 + FWECSA + modulating valve
WC66000659	FWH 04	WC66000816	FWH 04 + FWECSA + modulating valve
WC66000660	FWH 06-08	WC66000817	FWH 06-08 + FWECSA + modulating valve

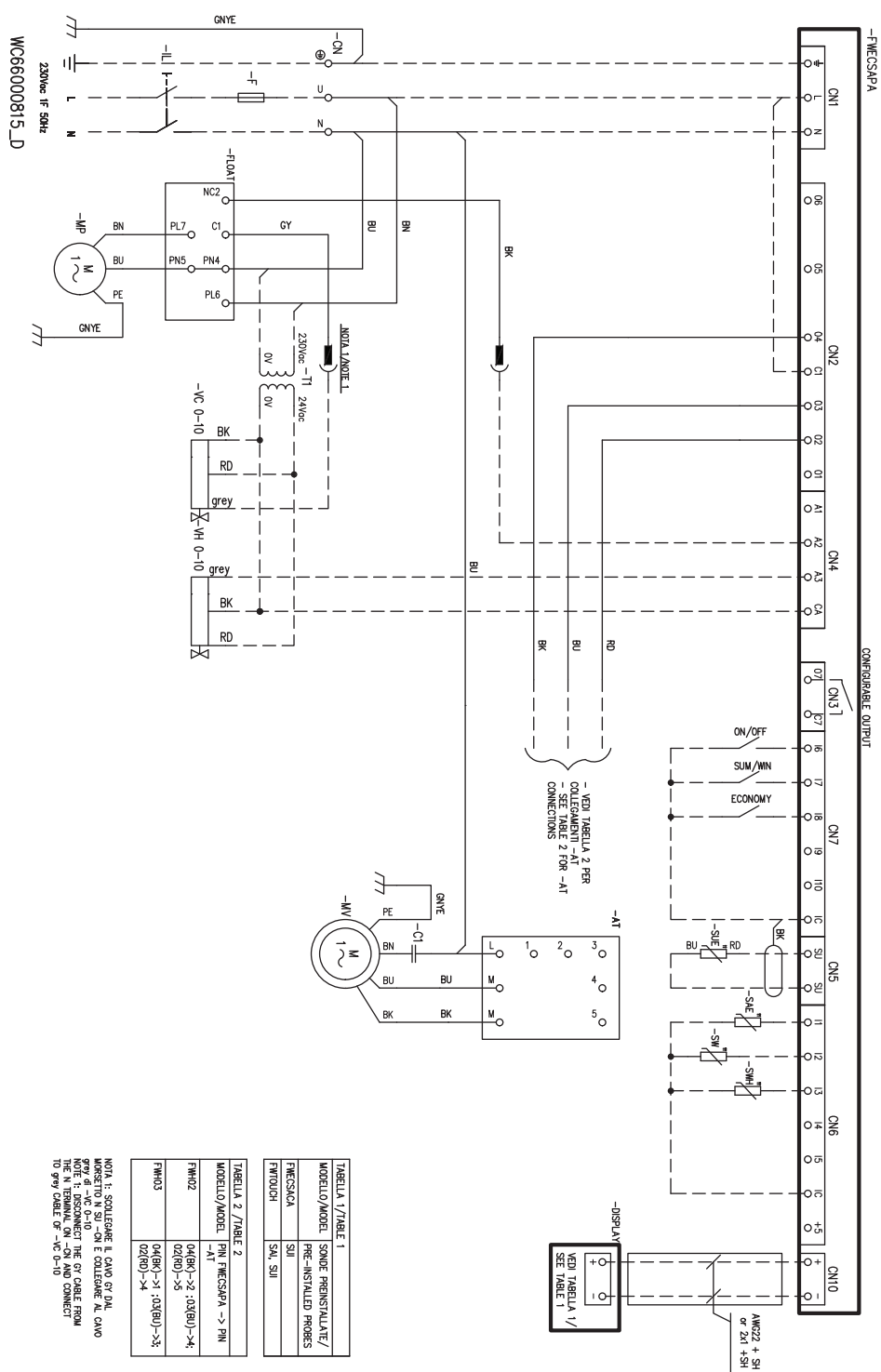


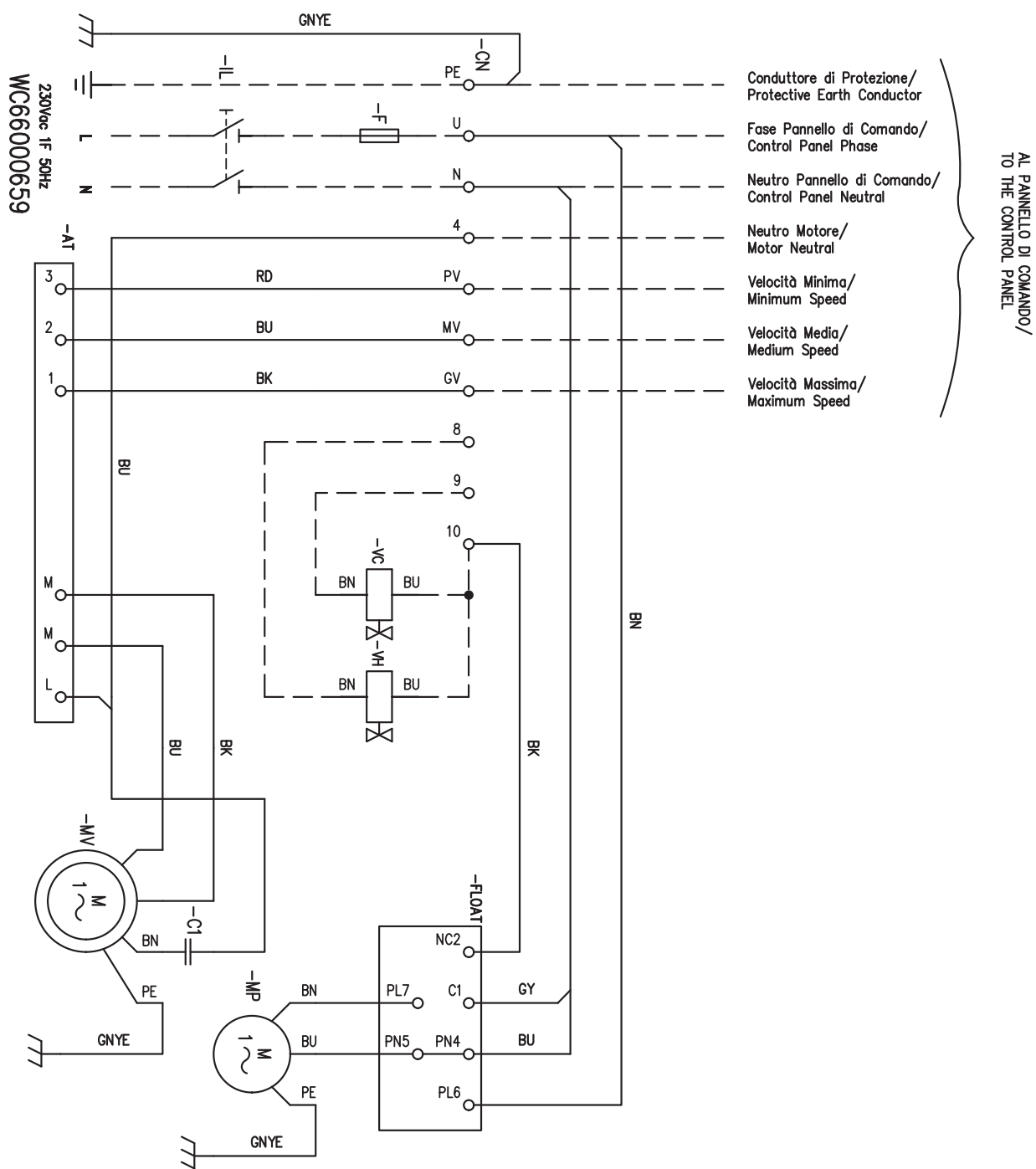


» FWI 02-08 + FWECSA + valvola modulante / FWI 02-08 + FWECSA + modulating valve









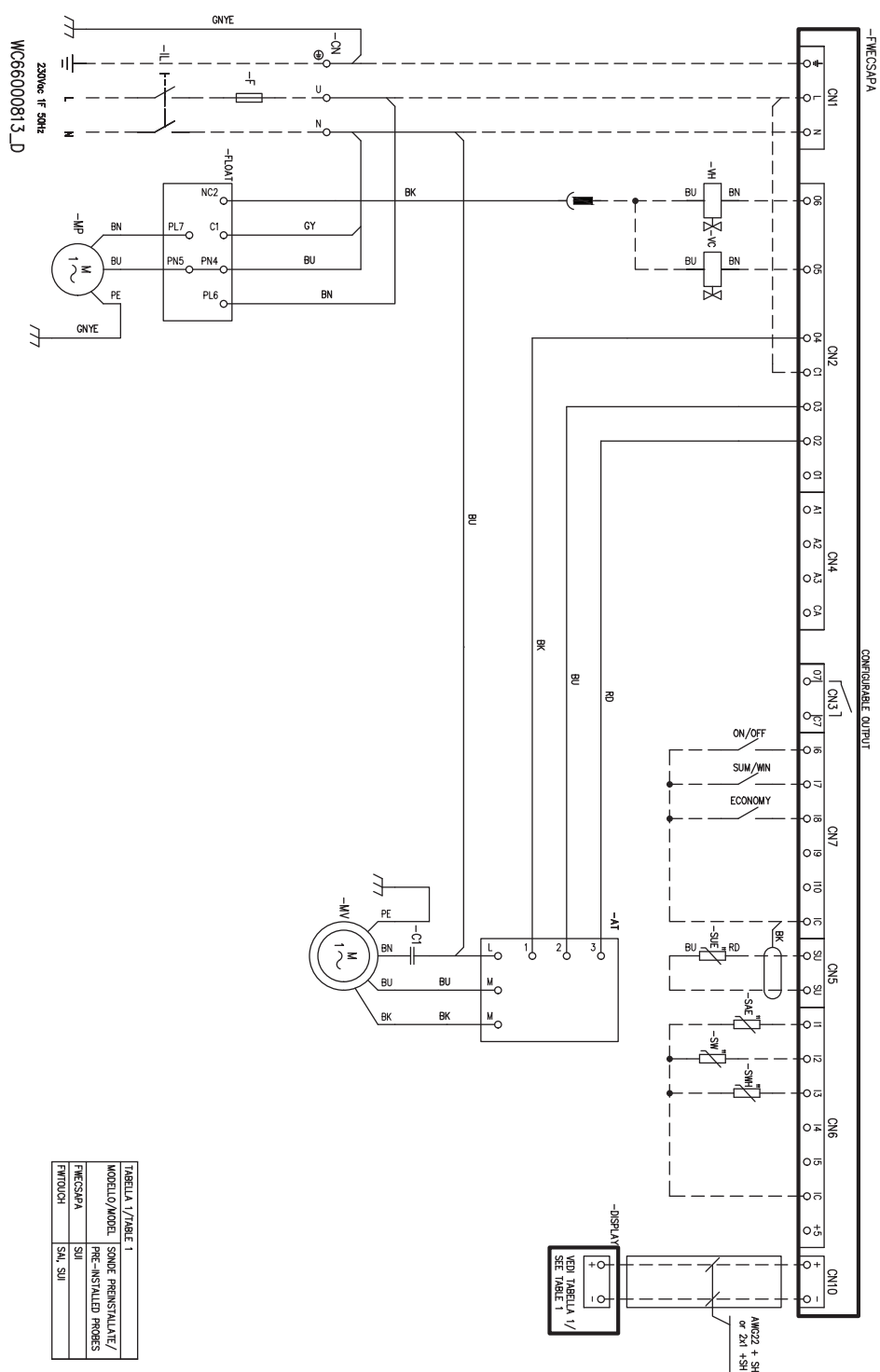
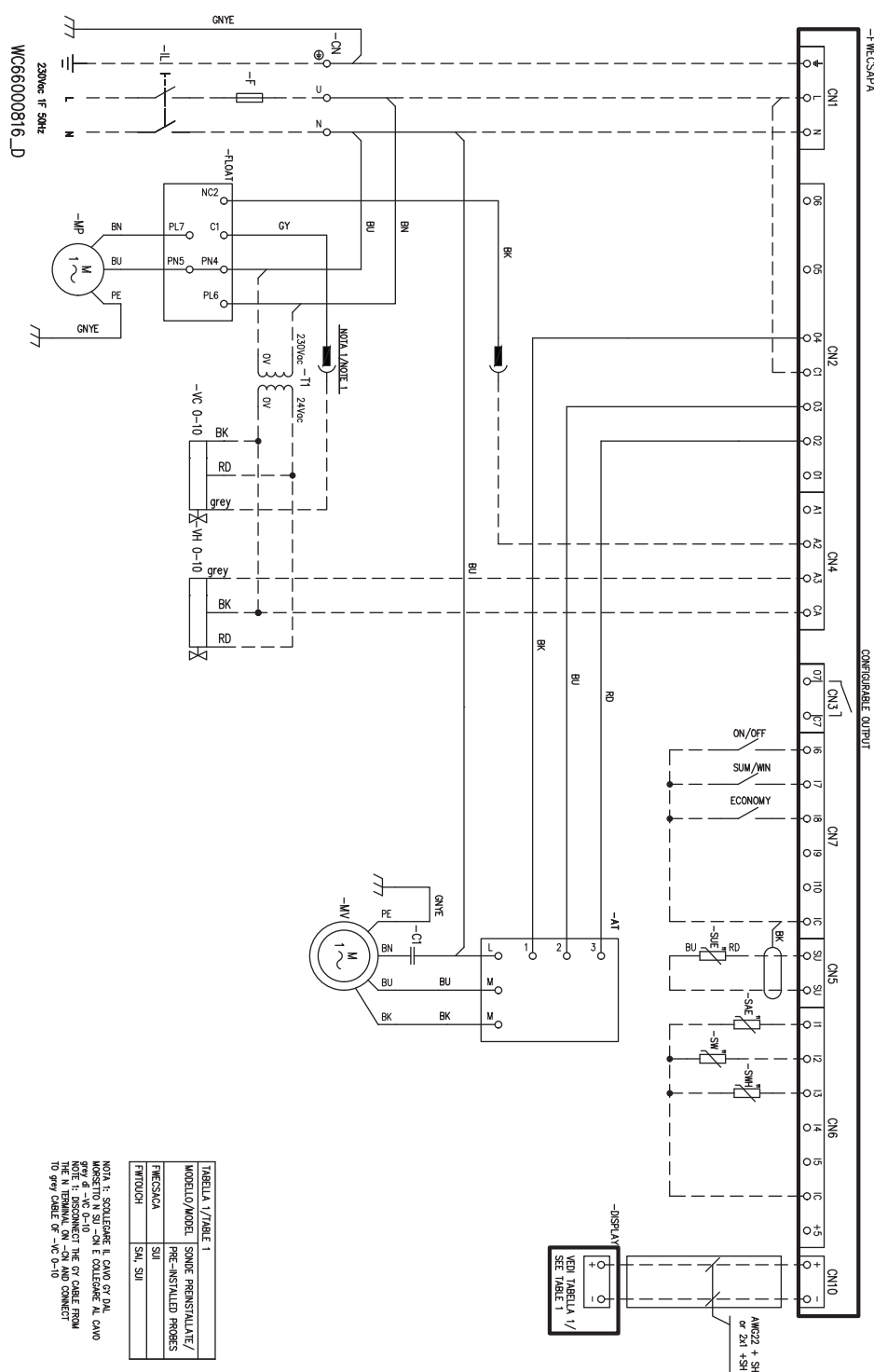
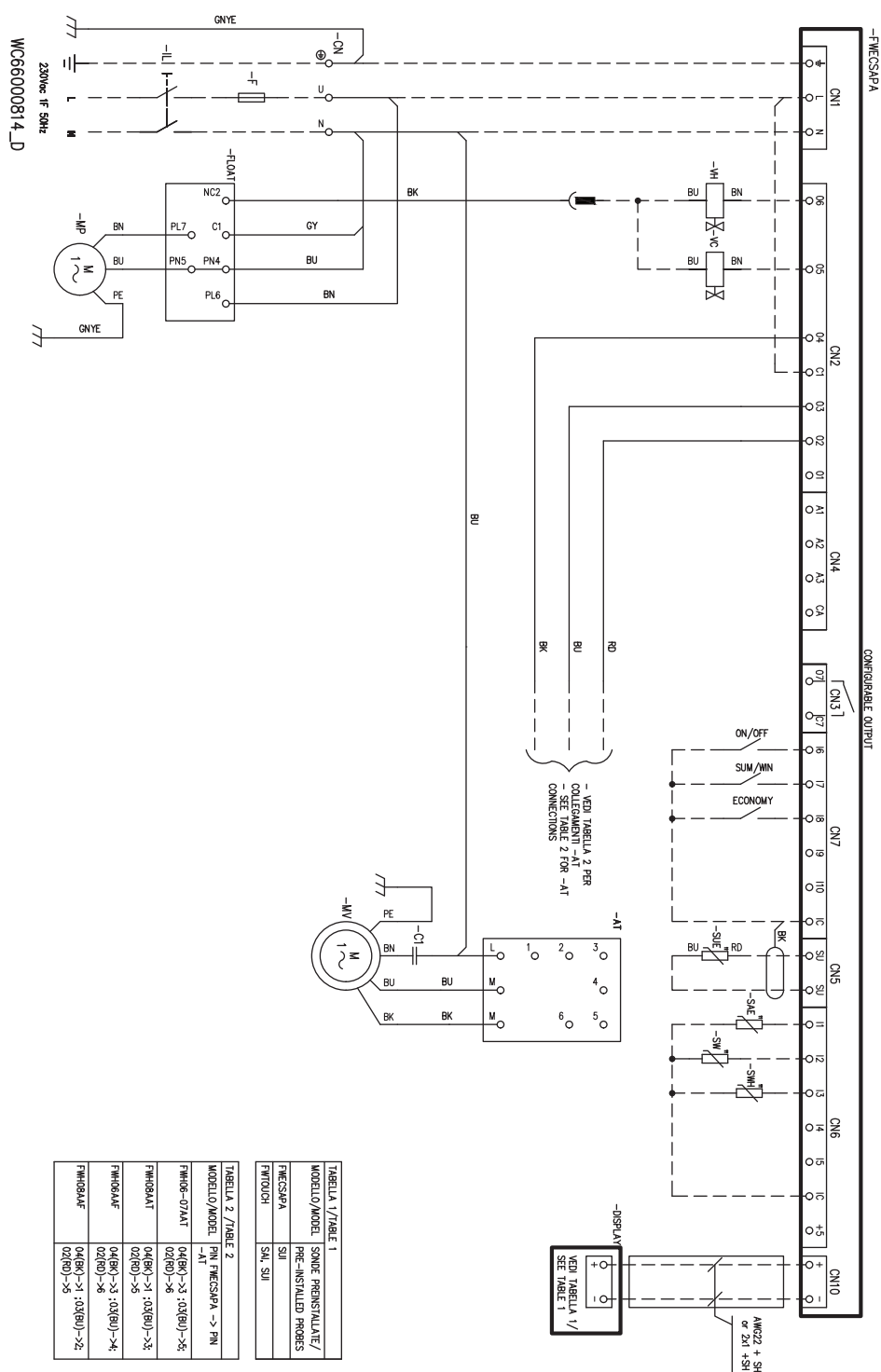


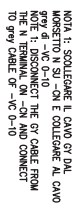
TABELLA 1 / TABLE 1	SONDE PREINSTALLATE /
MODELLO/MODEL	PRE-INSTALLED PROBES
FWECSA	SUI
FWT04	SUI, SUI

» FWH 04 + FWECSA + valvola modulante / FWH 04 + FWECSA + modulating valve



» FWH 06-08 + FWECSAP + valvola on/off 230V / FWH 06-08 + FWECSAP + on/off valve 230V







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