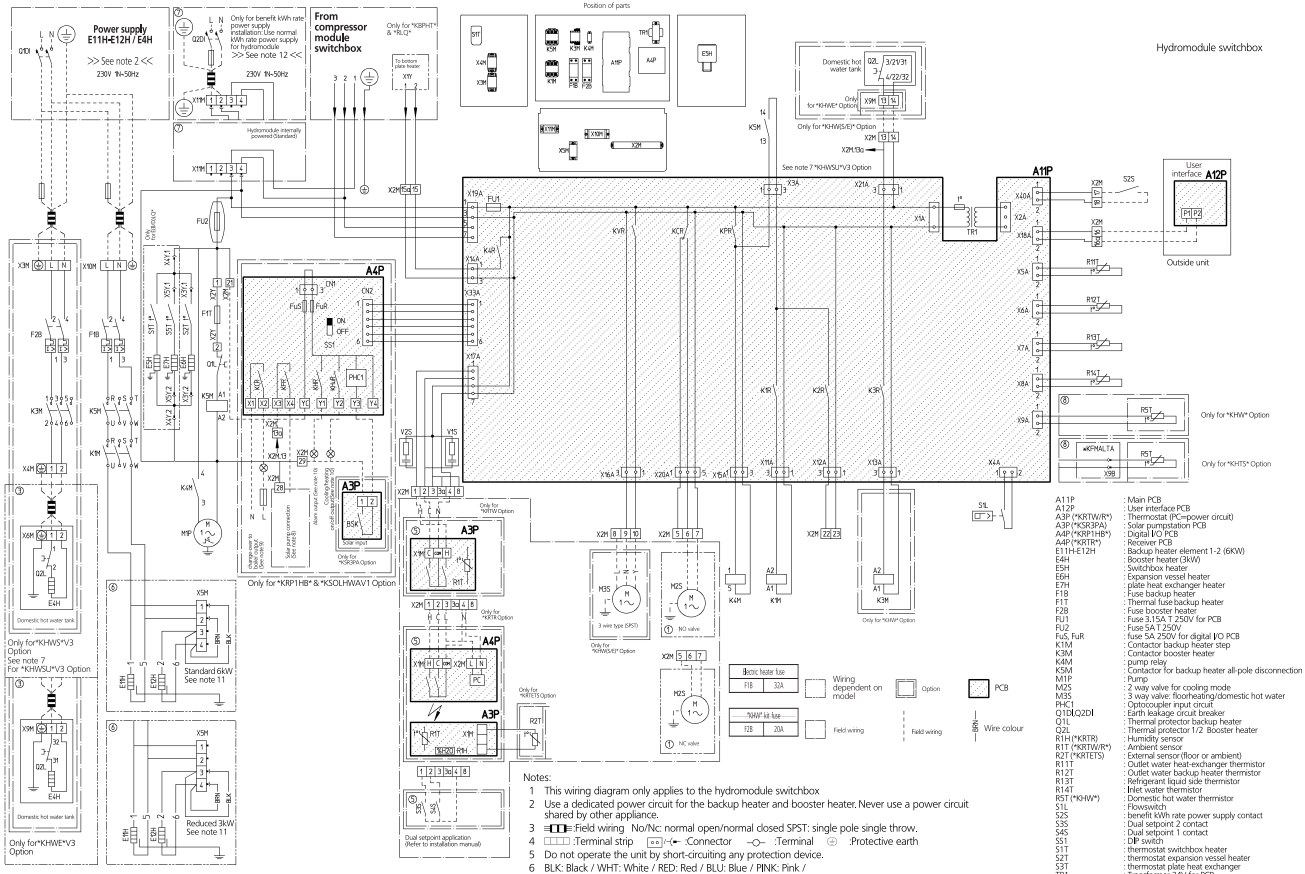
EBHQ011-016BB6V3



A11P	: Main PCB
A12P	: User interface PCB
A3P (*KRTW/R*)	: Thermostat (PC=power circuit)
A3P (*KSR3PA)	: Solar pumpstation PCB
A4P (*KRP1HB*)	: Digital I/O PCB
A4P (*KRTR*)	: Receiver PCB
E11H-E12H	: Backup heater element 1-2 (6KW)
E4H	: Booster heater (3kW)
E5H	: Switchbox heater
E6H	: Expansion vessel heater
E7H	: plate heat exchanger heater
F1B	: Fuse backup heater
F1T	: Thermal fuse backup heater
F2B	: Fuse booster heater
FU1	: Fuse 3.15A T 250V for PCB
FU2	: Fuse 5A T 250V
FuS, FuR	: fuse 5A 250V for digital I/O PCB
K1M	: Contactor backup heater step
K3M	: Contactor booster heater
K4M	: pump relay
K5M	: Contactor for backup heater all-pole disconnection
M1P	: Pump
M2S	: 2 way valve for cooling mode
M3S	: 3 way valve: floorheating/domestic hot water
PHC1	: Optocoupler input circuit
Q1DI,Q2DI	: Earth leakage circuit breaker
Q1L	: Thermal protector backup heater
Q2L	: Thermal protector 1/2 Booster heater
R1H (*KRTR)	: Humidity sensor
R1T (*KRTW/R*)	: Ambient sensor
R2T (*KRTETS)	: External sensor (floor or ambient)
R11T	: Outlet water heat-exchanger thermistor
R12T	: Outlet water backup heater thermistor
R13T	: Refrigerant liquid side thermistor
R14T	: Inlet water thermistor
R5T (*KHW*)	: Domestic hot water thermistor
S1L	: Flowswitch
S2S	: benefit kWh rate power supply contact
S3S	: Dual setpoint 2 contact
S4S	: Dual setpoint 1 contact
SS1	: DIP switch
S1T	: thermostat switchbox heater
S2T	: thermostat expansion vessel heater
S3T	: thermostat plate heat exchanger
TR1	: Transformer 24V for PCB
V1S, V2S	: Spark suppression 1, 2
X1M-X11M, X2-5Y, X9B	: Terminal strips, Connector

Notes:

1 This wiring diagram only applies to the hydromodule switchbox
2 Use a dedicated power circuit for the backup heater and booster heater. Never use a power circuit shared by other appliance.
3 ≡▯▯▯≡ :Field wiring No/Nc: normal open/normal closed SPST: single pole single throw.
4 ▯▯▯▯ :Terminal strip ▫▫ :Connector —○— :Terminal ⏚ :Protective earth
5 Do not operate the unit by short-circuiting any protection device.
6 BLK: Black / WHT: White / RED: Red / BLU: Blue / PINK: Pink / YLW: Yellow / BRN: Brown / GRY: Grey / GRN: Green / ORG: Orange / VIO: Violet
7 For *KHWSU*V3, refer to option manual
8 For *KSOLHWAV1, refer to option manual
9 Maximum load: 0.3A - 250VAC Minimum load: 20mA - 5VDC
10 230VAC Output Maximum load: 0.3A
11 Backupheater kW reduction, refer to installation manual
12 For benefit kWh rate power supply installation, refer to installation manual