

A

B

C

D

E

F

Hydraulic scheme 002

Hydraulic scheme configuration

- Buffertank
 Extrenal heating source
 Multibuffertank
 Solar thermal system
 Duobuffertank
 Fresh water station
 DHW Buffertank
 Fresh water station with circulation
 Chilled buffer tank
 Hot water outlet with circulation
 Two buffer tanks
 Mixed heating circuit
 Cascade
 Direct heating circuit

Integrated electric immersion heater (activated at the bivalence point)

External electric heater DHW DHW

Fixed setpoint temperature Heating

Weather-compensated temperature Heting an Cooling

Basic configuration

Parameter N02 = (Heating only)
Heat pump operating mode
(Heating/Heating & Cooling/Cooling)

Parameter N07 = (Enable)
Save configuration
(Enable/Disable)

Parameter N08 = (Enable)
Automatic restart after power failure
(Enable/Disable)

Parameter N11 = (Enable)
Domestic hot water
(Enable/Disable)

Parameter N22 = (Enable)
Solar thermal system
(Enable/Disable)

Parameter N26 = (0)
Selection of control zones
(0 = Singel Zone 2 = Dual Zone)

Parameter N32 = (Enable)
Smart Grid – utilize PV surplus
(Enable/Disable)

Parameter N36 = (Enable)
Flow temperature sensor (underfloor heating)
(Enable/Disable)

Parameter N41 = (Enable)
Temperature sensor (solar thermal system)
(Enable/Disable)

Parameter N49 = (Under floor haeting)
Heating system selection – Zone A
(Radiator/Under floor heating/Fan Coil)

Parameter M03 = (Enter the desired value)
DHW setpoint temperature

Parameter M11 = (Select the desired heating curve)
Selection of the weather-compensated
heating curve in Zone A

Parameter M39 = (Enable)
Auxiliary heating for peak load coverage
(Enable/Disable)


Parameter M40 = (Heating only)
Operating mode of the auxiliary heating for peak load coverage
(Heating/DHW/Heating & DHW)

1

2

3

4

Designation	Date	Name	Changes		Sheet count
			Date	Name	
WM-002_Cover page	11.05.2026	Küpper			7
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		MULTIBETON GmbH Heuserweg 23 53842 Troisdorf			Sheet no. 1

A

B

C


D

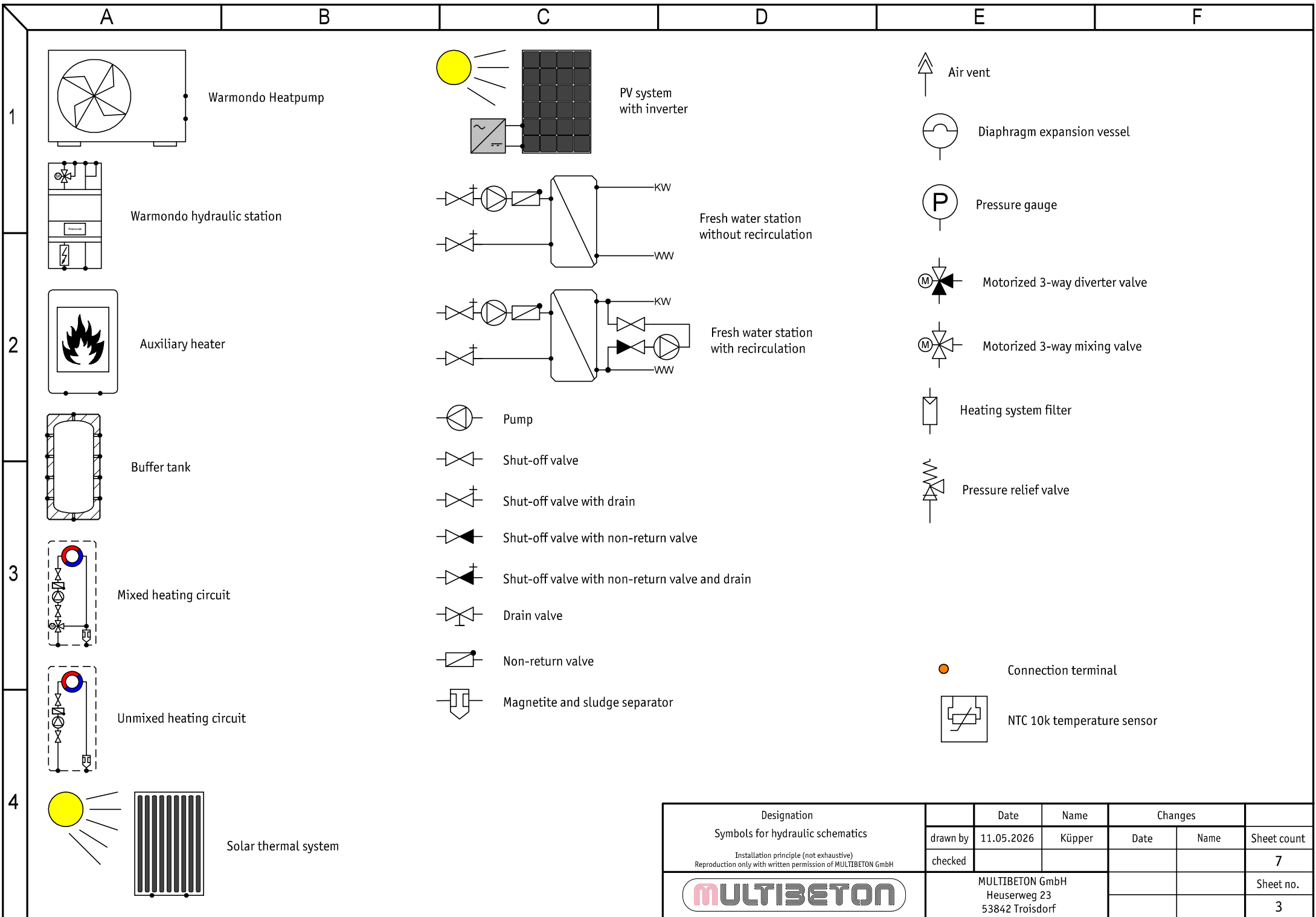
E

F

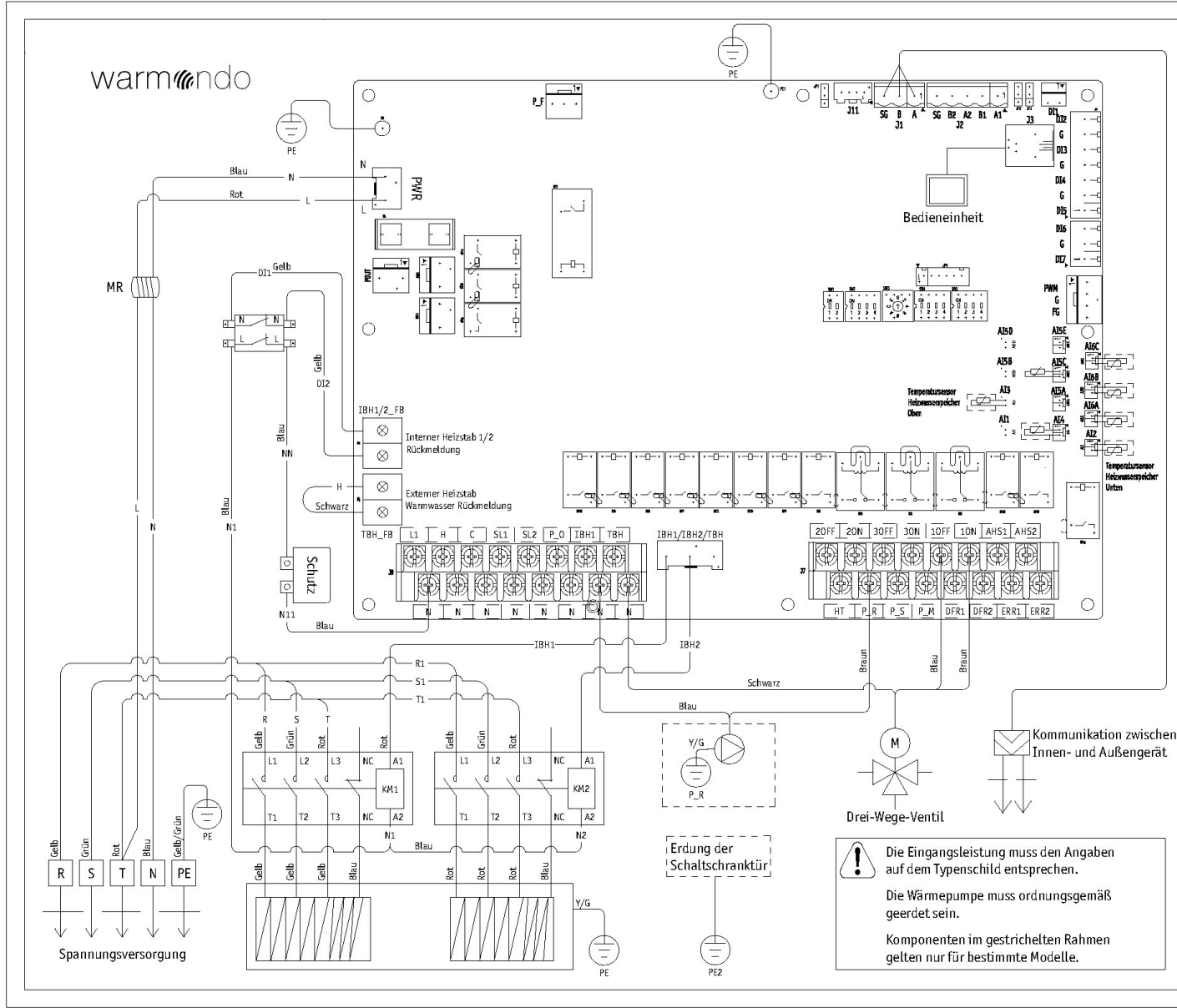
IMPORTANT:

- 1
- Relevant technical rules and local regulations must be observed.
 - The heat pump system must be operated with properly treated water in accordance with recognised industry standards (e.g. VDI 2035).
 - No automatic air vents and/or safety valves are to be installed in the building (the safety valve is integrated in the outdoor unit).
 - The dew point must be taken into account during active cooling operation.
- 2
- The regulations and requirements of the local utility provider must be observed.
 - The heat pump system must be operated with a type B residual current device (RCD).
 - The heat pump system must be properly earthed in accordance with applicable regulations.
 - The electrical protection is shown schematically in this document using a single-pole circuit breaker. The WM-L and WM-XL units must be protected with a three-phase (3~) supply.
The relevant current consumption must be taken from the respective technical documentation.
The sizing and selection of protective devices must be carried out in accordance with currently applicable standards, regulations, and recognised engineering practices.
- 3
- The fresh water station is controlled by its integrated controller.
 - A minimum domestic hot water storage volume of 300 litres must be provided.
 - The tapping capacity of the fresh water station must be considered.
 - The domestic hot water temperatures of the fresh water station at low supply temperatures must be considered.
 - Operation of a fresh water station may require additional electrical connections.
- 4
- A buffer volume of at least 10 litres per kW of heat pump output must be provided, with a minimum total volume of 100 litres.
 - The temperature sensors for the heating buffer tank (AI2 and AI3) will be enabled by the manufacturer's service department via remote support. Please create a service ticket or contact them by phone for this purpose.
 - The Smart Grid function for utilising PV surplus is configured by the manufacturer's service department via remote access. Please open a service ticket or contact them by phone to arrange configuration.
 - The Smart Grid function for power limitation by the utility provider is configured by the manufacturer's service department via remote access. Please open a service ticket or contact them by phone to arrange configuration.

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WM-002_General information	11.05.2026	Küpper			7
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					2



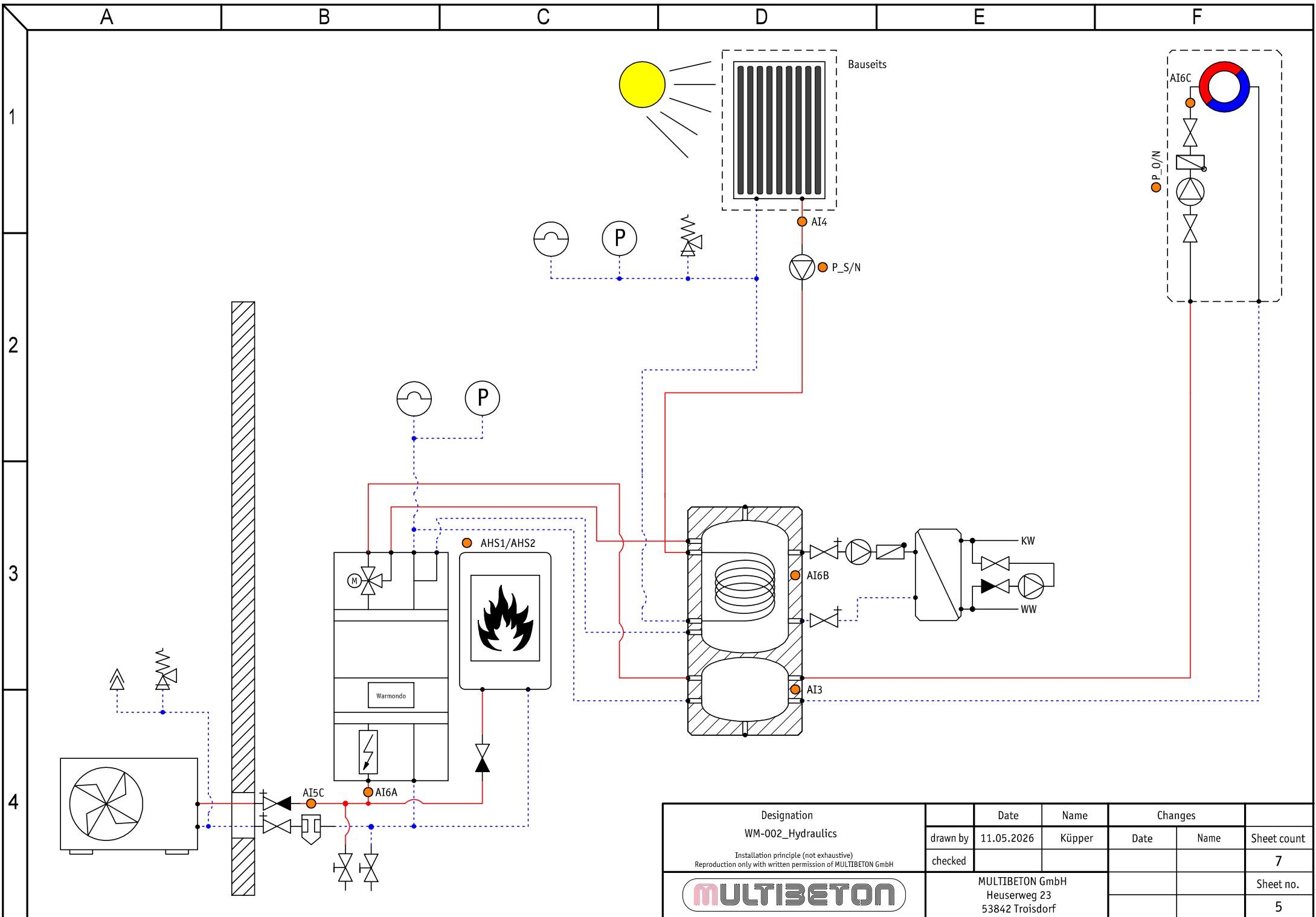
Designation Symbols for hydraulic schematics <small>Installation principle (not exhaustive) Reproduction only with written permission of MULTIBETON GmbH</small>		Date	Name	Changes		
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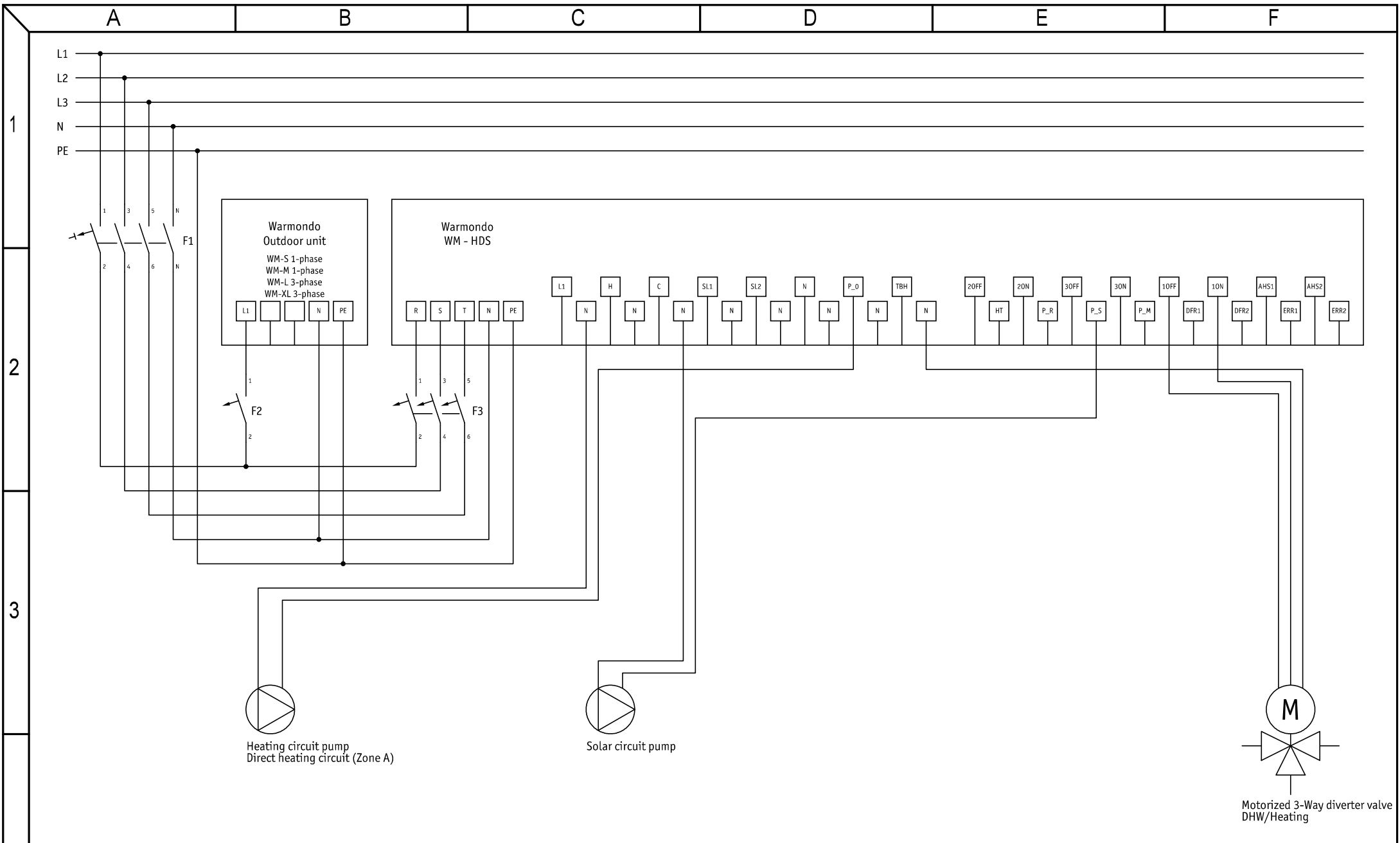
Legende	
AI6C	Temperatursensor gemischter Heizkreis Vorlauf
AI6B	Temperatursensor Pufferspeicher Trinkwasser
AI6A	Temperatursensor Gesamt Vorlauf Luft/Wasser Wärmepumpe und AH5
AI5C	Temperatursensor Vorlauf Luft/Wasser Wärmepumpe
AI4	Temperatursensor Solar Vorlauf
20FF	2# Dreiflueventil Heizen/Kuehlen (Heizen)
20N	2# Dreiflueventil Heizen/Kuehlen (Kuehlen)
30FF	3# Muecher geregelter Heizkreis
30N	3# Muecher geregelter Heizkreis
10FF	1# Dreiflueventil Heizen/Warmwasser (Warmwasser)
10N	1# Dreiflueventil Heizen/Warmwasser (Warmwasser)
AHS1	Potentialfreier Schaltkontakt externe Waermequelle
AHS2	Potentialfreier Schaltkontakt externe Waermequelle
HT	Heizband Abtropfwanne
P_R	Pumpe Zirkulation
P_S	Pumpe Solar
P_M	Pumpe gemischter Heizkreis
DFR1	Potentialfreier Schaltkontakt Abtauen Aktiv
DFR2	Potentialfreier Schaltkontakt Abtauen Aktiv
ERR1	Potentialfreier Schaltkontakt Fehlermeldung Luft/Wasser Wärmepumpe
ERR2	Potentialfreier Schaltkontakt Fehlermeldung Luft/Wasser Wärmepumpe
L1	Relais Umschaltung Heizen/Kuehlen
H	Relais Umschaltung Heizen/Kuehlen
C	Relais Umschaltung Heizen/Kuehlen
SL1	Externer Eingang Solaranlage
SL2	Externer Eingang Solaranlage
P_O	Pumpe ungemischter Heizkreis
TBH1	Interner Heizstab Stufe 1
TBH2	Interner Heizstab Stufe 2
TBH	Externer Heizstab Warmwasser
DI2	Externer Eingang
G	Externer Eingang
DI6	Smart Grid (SG)
DI7	ERU Kontakt
G	Externer Eingang
MR	Entstaerfilter
Y/G	Erdung

! Die Eingangsleistung muss den Angaben auf dem Typenschild entsprechen.
 Die Wärmepumpe muss ordnungsgemäß geerdet sein.
 Komponenten im gestrichelten Rahmen gelten nur für bestimmte Modelle.

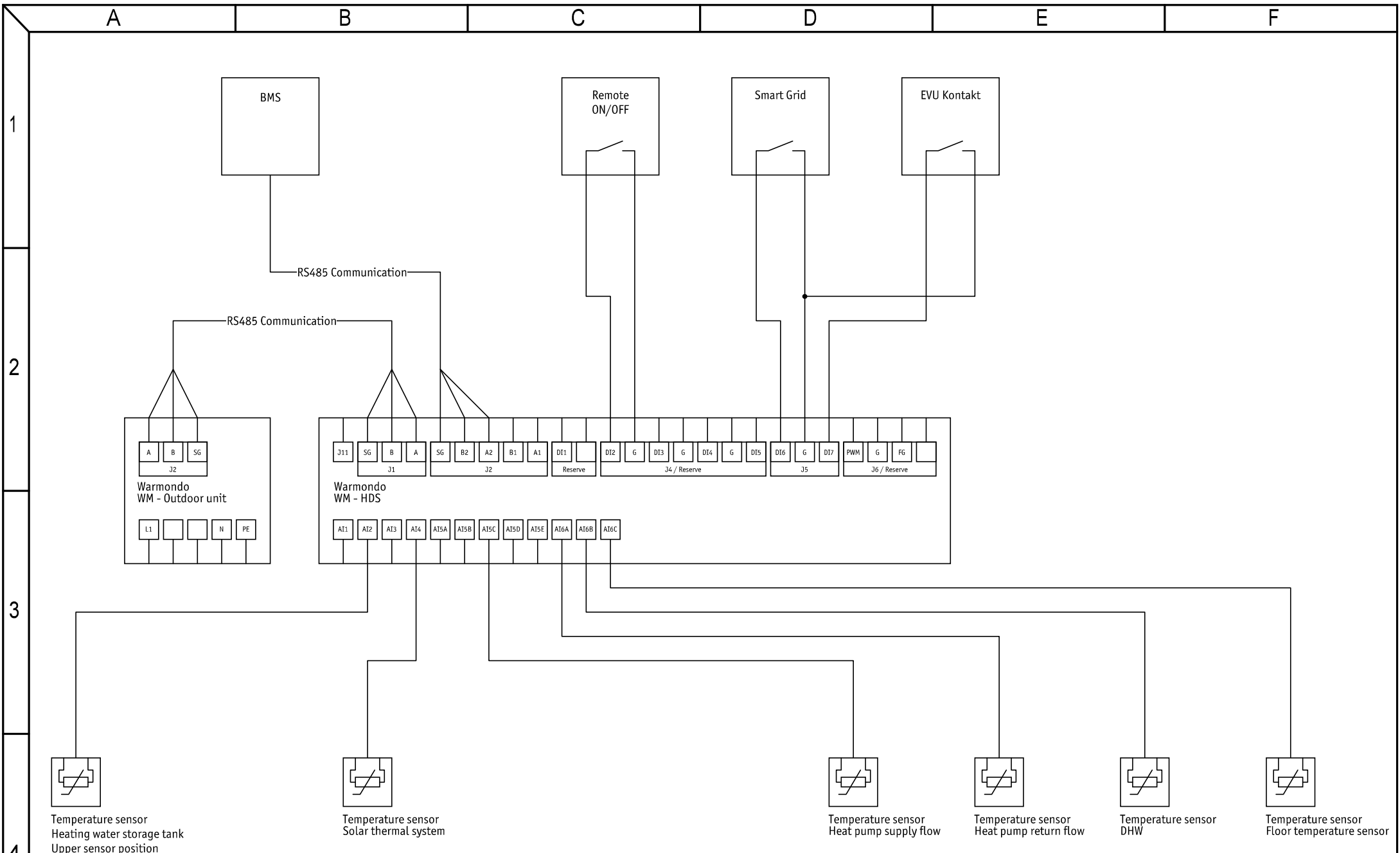
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Hydraulic station schematic diagram	11.05.2026	Küpper			7
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