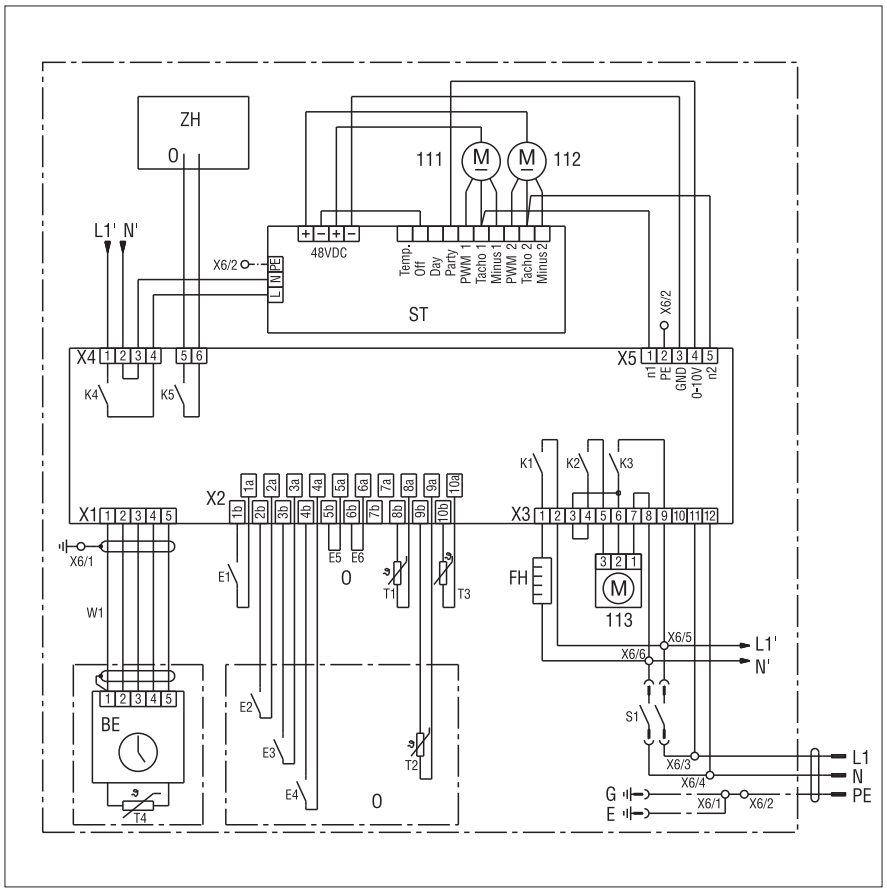
WIRING DIAGRAM

WS 250

WS 250

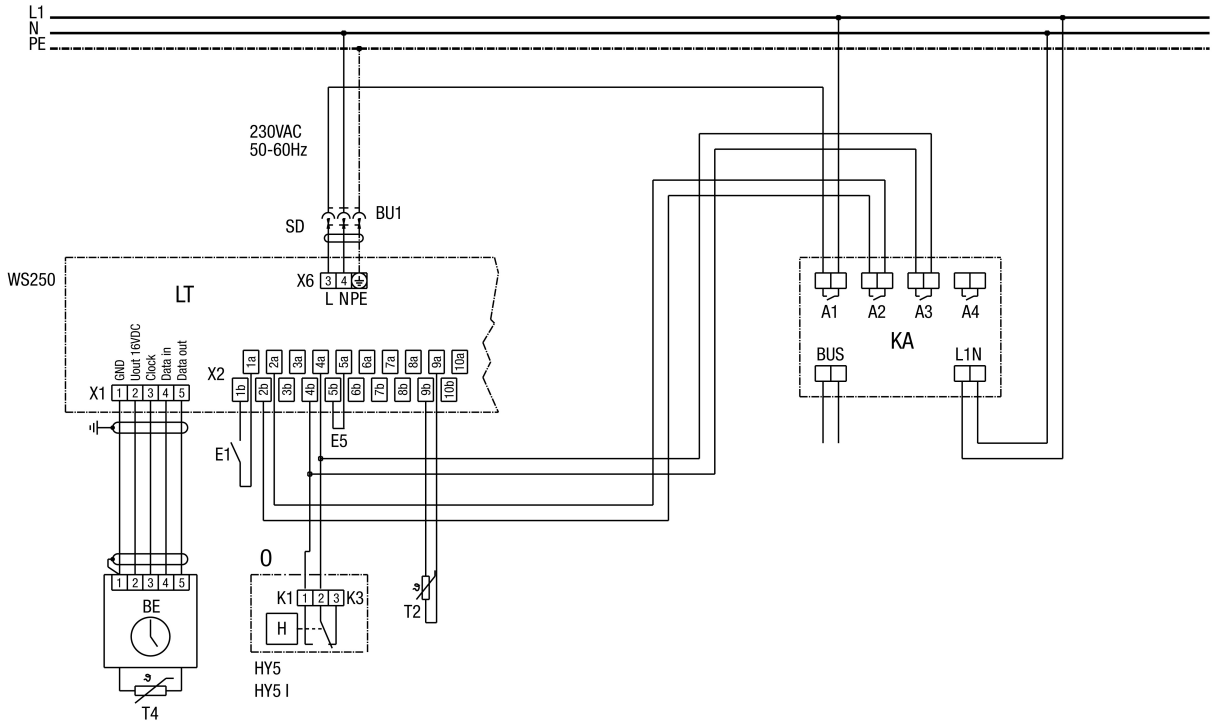


E1 - pressure sensor / filter
E2 CO2 sensor / relay to be supplied by the customer (potential-free contact)
E3 - air quality controller EAQ 10/1 (potential-free contact)
E4 - humidity sensor, hygrostat HY 5
E5 - auxiliary heater available, jumper (option) (for ext. auxiliary heating, bridge E5)
E6 - Select external temp. sensor T2, jumper (option) (for ext. T2 temp. sensor, bridge E6)
T1 - outside air temp. sensor
T2 - external temp. sensor (option)
T3 - outgoing air temp. sensor
T4 - room sensor for exhaust air
K5 - switching contact for ext. auxiliary heater
S1 - safety switch / activated via front plate
ZH - external auxiliary heater (option)
M1 - supply air fan
M2 - exhaust air fan
M3 - bypass lamella servomotor
ST - circuit mains unit
LT - power unit
FH - anti-frost protection heating
BE - operator unit
G - housing
E - feeder
O - option

WIRING DIAGRAM

WS 250

WS 250 with KNX BUS

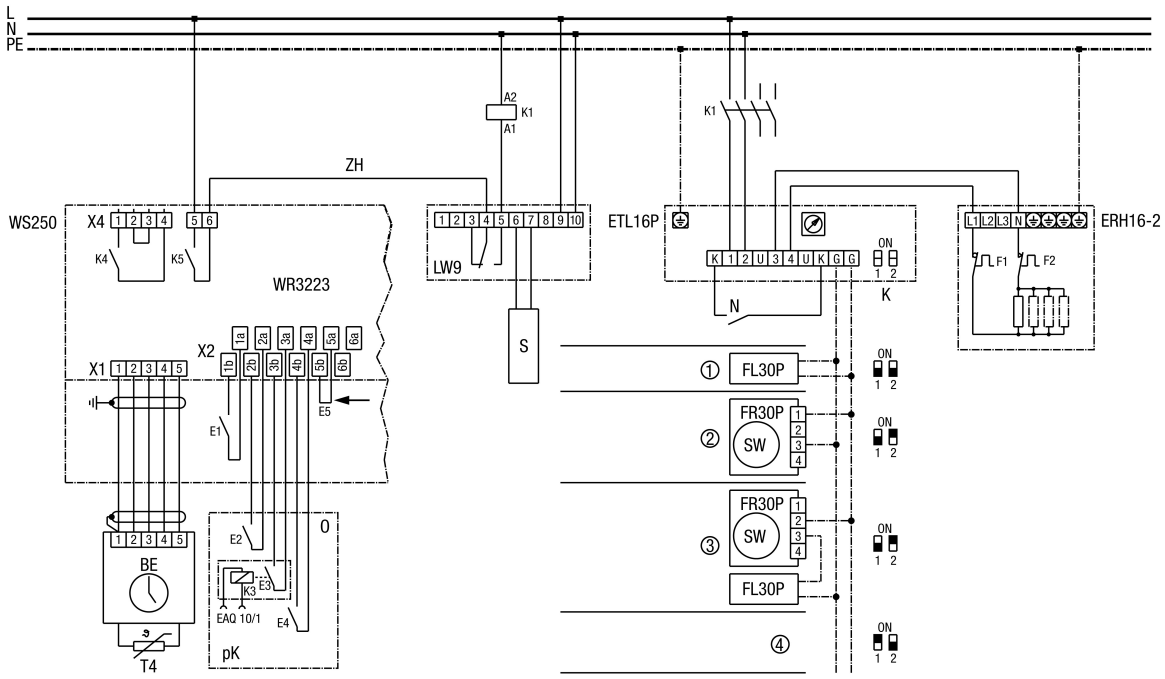


SD - socket
LT - power unit
E5 - wire E5 wire jumper
BE - operator unit
O - option
K1 - terminal 1 - dehumidify
K1 - terminal 3 - dehumidify
T4 - room sensor
T2 - alternative room sensor for operator unit. External temp. sensor “KTY81-110” / option
KA - KNX actuator to be supplied by the customer
BUS - KNX BUS
Set WS 250 to "man. Set fan level 1" on control unit.
KNX actuator programming:
Stage 0 = Switch off supply voltage (Stage 0 = A1)
Stage 1 = A1 ON, A2 OFF, A3 OFF
Stage 2 = A1 ON, A2 ON, A3 OFF (level 2 = A2)
Stage 3 = A1 ON, A2 OFF, A3 ON (60 min. overrun) (level 3 = A3)

WIRING DIAGRAM

WS 250

WS 250 with ERH 16-2 electrical air heater



E5 - wire jumper E5; available for external auxiliary heater
T4 - room sensor in the control unit of the WS 250. The heating requirement is determined by comparing the actual room temperature (T4) and the setpoint room temperature
LW 9 - air flow monitor in supply air channel
K1 - power contactor US 16
ETL 16 P - electronic temperature controller
FL 30 P - channel sensor in supply air channel
FR 30 P - room sensor with setpoint generator
ERH 16-2 - electrical air heaters
BE - operator unit
WR 3223 - power module
ZH - external auxiliary heater on/off
O - option
SW- setpoint
K - coding
N - night reduction
S - sensor
pK - E2-E4 potential-free contacts!
① Ext. channel sensor and internal setpoint generator in ETL16P
② Ext. room sensor and external setpoint generator
③ Ext. channel sensor and external setpoint generator
④ Internal room sensor and internal setpoint generator in ETL16P