Gaggia Classic Wiring

100 - 120 VAC 60 Hz PCB v3
https://gaggiuino.github.io

Thick lines - High Voltage
Thin line - Low Voltage

Switch Housing
Part # DM1475
View: Back
Conn: QC 0.25

Internal
Brew Lamp
(unused)

Red Lamp

Internal
Power Lamp
(Used as
Boiler Status)

Red Lamp

Brew   Steam   On / Off

Nextion Display
Part #: NX3224F024
View: Back

SD Card
Slot

Gnd
RX
TX
5V
JST
2.54mm

Chassis Ground
Conn: QC 0.25

Cup Heater Ground
Conn: QC 0.25

Use k type
thermocouple
color code
lookup table to
find + and - wires

K Type Thermocouple
Ungrounded M4
View: Side

Thermal
Paste

Hand Tight

VDC Control

VAC Load

Solid State Relay
220vac to 3-32vdc 40A
Conn: Screw Terminal
View: Top

Use spade
connectors on all
4 SSR terminals

Pressure Transducer
0 - 1.2 Mpa, 5v, G1/4
View: Side

5v
Gnd
Gnd

Use ferrule ends

Thermocouple
Screw Terminal

IO
JST 2mm

PB15
Gnd

Data2
5V
Gnd
Clk
Data1

Serial / HW
JST 2mm

Boot
Reset
Gnd
TX
RX
3v3

Scales
JST 2mm

Pressure
Transducer
JST 2mm

5V
Gnd
IN

ToFnLED
JST 1mm

Clk
Data
3v3
Gnd

SSR
Center: Boiler
Bottom: Unused
JST 2mm

Gnd
R1
R2

Touch
Screen
JST 2mm

5V
RX
TX
Gnd

Switches
Center: Steam
Bottom: Brew
JST 2mm

Gnd
S
B

Thermal Fuse
184°C

Thermal Fuse 110C

White

Gnd

GND

Line   Neutral

Power Socket
IEC Socket C14 15A
Part #: 12000280
View: Ground facing up
Conn: QC 0.25

Power Cord
NEMA 5-15P to C13
Part #: By Country
View: Ground facing up

3
Solenoid (3 Way Valve)
QC 0.25

P
Pump
QC 0.25

L
AC Line
QC 0.25

N
AC Neutral
QC 0.25

STM32 Blackpill
CoffeeHat PCB v3
View: Top

Boiler 120 / 220 VAC
Part #: EF0030/A
View: Top

Connectors
Heating Elements: 2mm Dia Pin Rec
TE 160783-7
Ground: QC 0.25

Ulka Pump
EFP5/S 120V-60HZ
Part #: 12000142
View: Connector Side
Conn: QC 0.25

BRASS SOLENOID
(3-Way Valve)
120V 60HZ
Part #: DM1645/002
View: Connector Side
Conn: QC 0.25