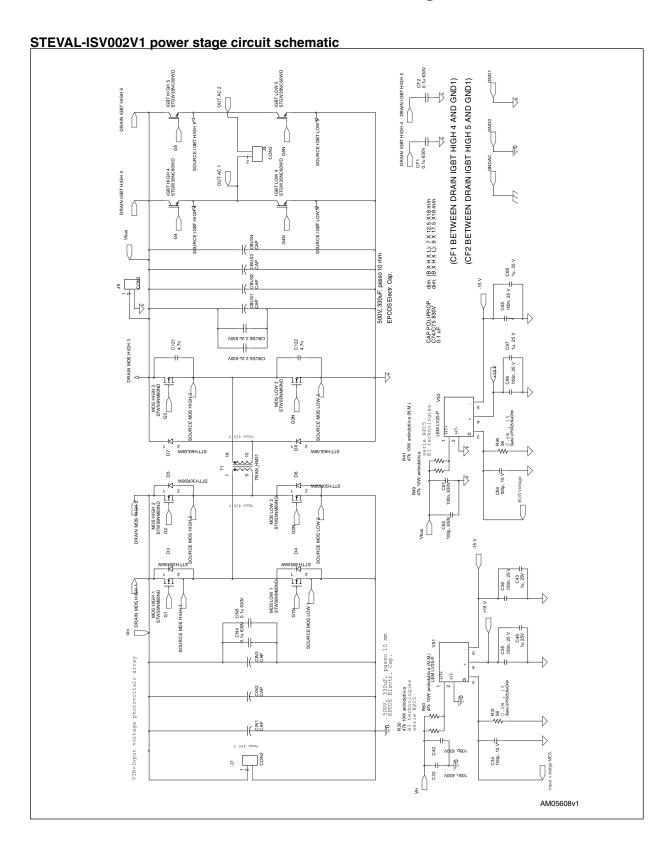
## STEVAL-ISV002V1 Schematic diagrams

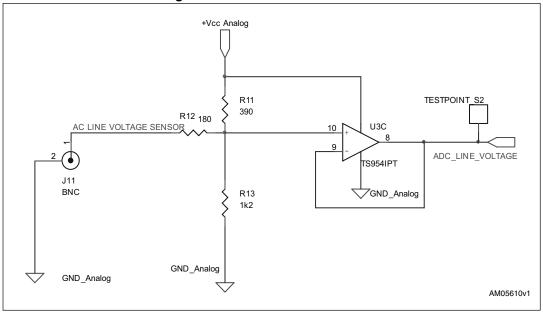


STEVAL-ISV002V1 output sensing and relay board schematic C36 100n, 25 V C43 C35 100h, 25 V C49 TO GRID NEUTRAL TO GRID PHASE TO CONTROL BOARD COUPLING INDUCTOR CONNECTOR FROM POWER SUPPLY BOARD D20 1N4148 Q1 BC547B C38 27 ₹ ₹ C1 2.2uF, 630V C51 47nF 2€ FROM POWER SUPPLY BOARD TO CONTROL BOARD V 8S ,q001

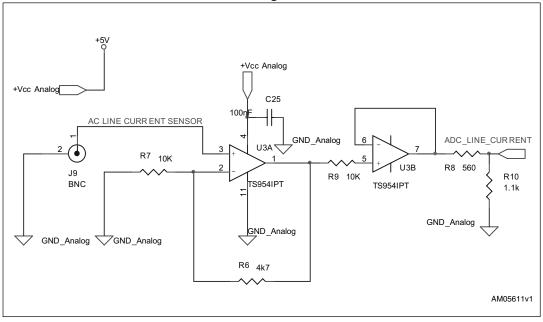
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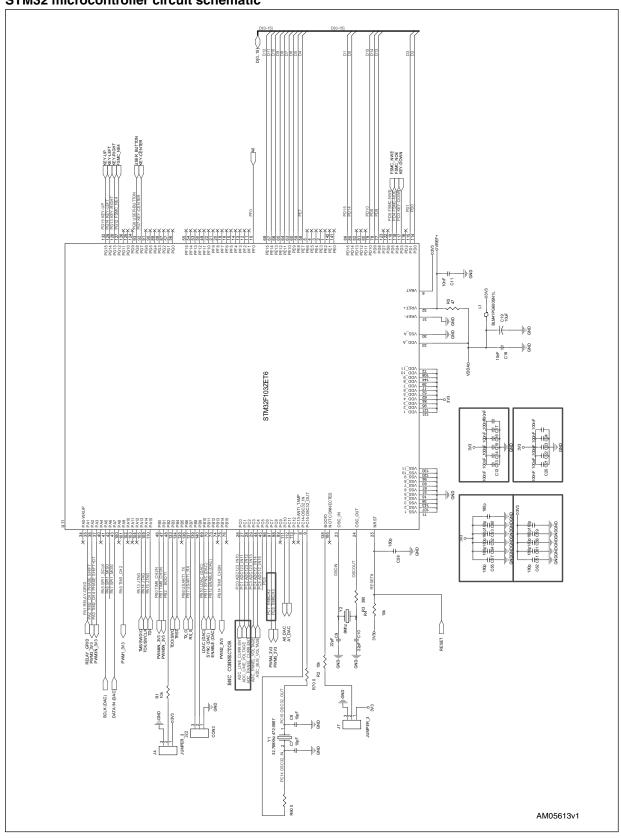
### STEVAL-ISV002V1 AC voltage measurement circuit schematic



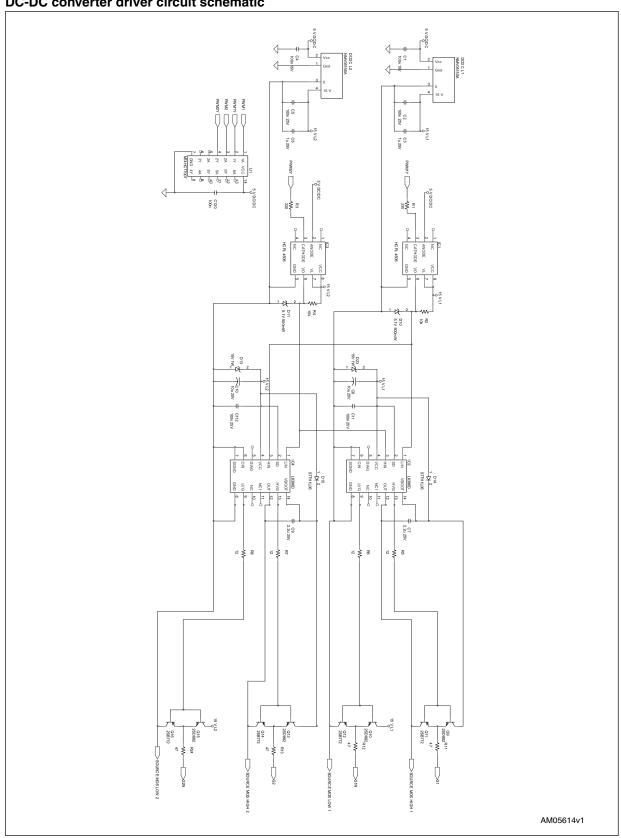
#### STEVAL-ISV002V1 line current conditioning circuit schematic



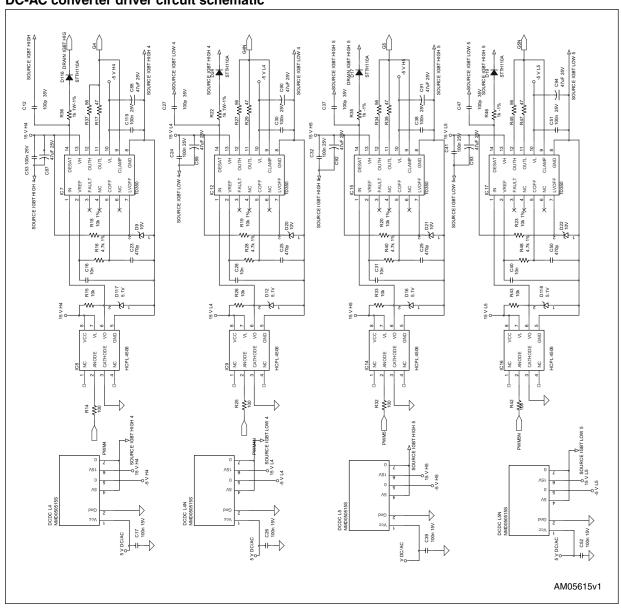
#### STM32 microcontroller circuit schematic



#### DC-DC converter driver circuit schematic



#### DC-AC converter driver circuit schematic



5 V, 1 A flyback converter with VIPER17HN schematic GND 12V C37 10uF C32 T00uF 35V YXF C31 470uF 2 R11 24k 1% R18 3.9k 1% C26 10nF VR2 OPTO2 PC817 D P6KE220 C23 22nF 22nF 33k R20 200k AM05616v1

### Multi-output flyback converter with VIPER27HN schematic C17 100u,16V el. L4940D2T5-TR D2PAK C19 100u,16V el. L4940D2T\$-TR D2PAK C18 100u,16 L4940D2T5-TR D2PAK VOUT 2 C16 10u,15V,el十 10u, 15V, el. 7V 1A C10 \_\_\_\_\_ 10nF L1 4.7uH TS3431BIZT R10 4 R15 15k R13 YR1 D4 STPS5L40 OPTO1 TRANSFORMER STTH1L06 DRAIN VIPER17HN C7 22nF R12 P6KE220 VDD D5 10 R16 C6 1.8nF BAT46 CONT BR D2 1N4148 C41 470nF 4.7uF 400V R14 180k ខ BU9 -103R25BL COIL-CRAFT/ 22uF 25V 04 C2 C2 C1 100nF X2 NTC1 10 Ohm NTC F1 1A FUSE

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