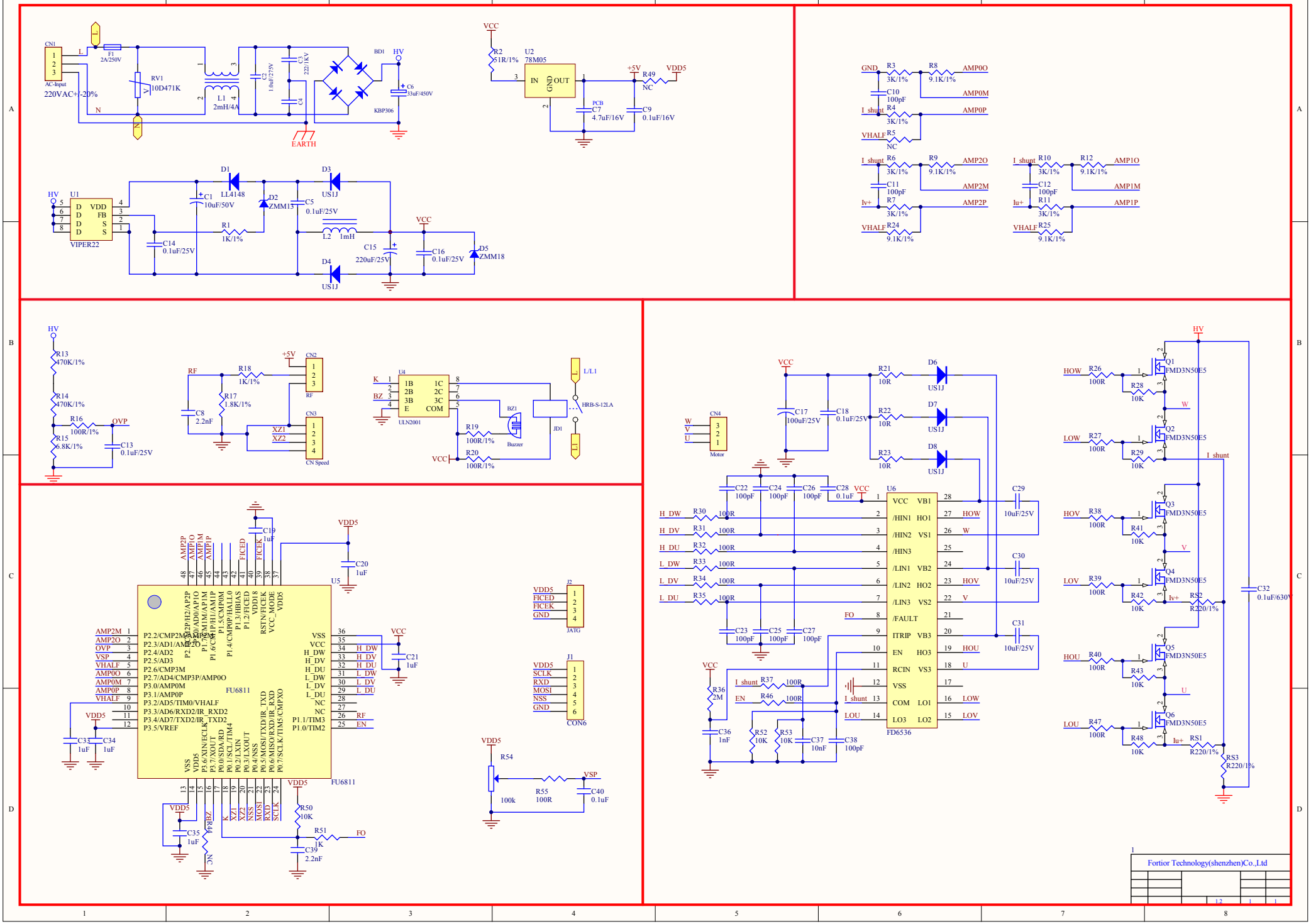

CN1
AC-Input
220VAC+/-20%
F1
2A/250V
RV1
10D471K
L1
2mH/4A
C2
1.0uF/275V
C3
222/1KV
C4
BD1
KBP306
HV
C6
33uF/450V
EARTH
VCC
R2
51R/1%
U2
78M05
IN
GND
OUT
+5V
R49
NC
VDD5
PCB
C7
4.7uF/16V
C9
0.1uF/16V
U1
VIPER22
D1
LL4148
D2
ZMM13
D3
US1J
D4
US1J
C1
10uF/50V
C5
0.1uF/25V
R1
1K/1%
L2
1mH
C14
0.1uF/25V
C15
220uF/25V
C16
0.1uF/25V
D5
ZMM18
GND
R3
3K/1%
R8
9.1K/1%
AMP0O
C10
100pF
AMP0M
I_shunt
R4
3K/1%
AMP0P
VHALF
R5
NC
R6
3K/1%
R9
9.1K/1%
AMP2O
C11
100pF
AMP2M
Iv+
R7
3K/1%
AMP2P
R24
9.1K/1%
R10
3K/1%
R12
9.1K/1%
AMP1O
C12
100pF
AMP1M
Iu+
R11
3K/1%
AMP1P
R25
9.1K/1%
R13
470K/1%
R14
470K/1%
R16
100R/1%
OVP
R15
6.8K/1%
C13
0.1uF/25V
RF
R18
1K/1%
R17
1.8K/1%
C8
2.2nF
CN2
CN3
XZ1
XZ2
CN Speed
U4
ULN2001
K
BZ
1B
2B
3B
E
1C
2C
3C
COM
BZ1
Buzzer
R19
100R/1%
R20
100R/1%
JD1
L/L1
HRB-S-12LA
CN4
Motor
W
V
U
C17
100uF/25V
C18
0.1uF/25V
R21
10R
R22
10R
R23
10R
D6
D7
D8
US1J
C22
100pF
C24
100pF
C26
100pF
C28
0.1uF
U6
FD6536
VCC
VB1
/HIN1
HO1
/HIN2
VS1
/HIN3
/LIN1
VB2
/LIN2
HO2
/LIN3
VS2
/FAULT
ITRIP
VB3
EN
HO3
RCIN
VS3
VSS
COM
LO1
LO3
LO2
C29
10uF/25V
C30
10uF/25V
C31
10uF/25V
H_DW
H_DV
H_DU
L_DW
L_DV
L_DU
R30
R31
R32
R33
R34
R35
100R
C23
100pF
C25
100pF
C27
100pF
FO
R36
2M
C36
1nF
I_shunt
R37
100R
EN
R46
100R
R52
10K
R53
10K
C37
10nF
C38
100pF
HOW
LOW
HOV
LOV
HOU
LOU
R26
R27
R38
R39
R40
R47
100R
R28
R29
R41
R42
R43
R48
10K
Q1
Q2
Q3
Q4
Q5
Q6
FMD3N50E5
RS2
R220/1%
RS1
R220/1%
RS3
R220/1%
C32
0.1uF/630V
U5
FU6811
P2.2/CMP2M/AMP2M
P2.3/AD1/AMP2O
P2.4/AD2
P2.5/AD3
P2.6/CMP3M
P2.7/AD4/CMP3P/AMP0O
P3.0/AMP0M
P3.1/AMP0P
P3.2/AD5/TIM0/VHALF
P3.3/AD6/RXD2/IR_RXD2
P3.4/AD7/TXD2/IR_TXD2
P3.5/VREF
P1.1/TIM3
P1.0/TIM2
P2.2/CMP2P/H2/AP2P
P2.3/AD0/AP1O
P1.7/CMP1M/AP1M
P1.6/CMP1P/H1/AMP1P
P1.5/CMP0M
P1.4/CMP0P/HALL0
P1.3/HBIAS
P1.2/FICED
VDD18
RSTN/FICEK
VCC_MODE
VDD5
VSS
VCC
H_DW
H_DV
H_DU
L_DW
L_DV
L_DU
NC
P1.1/TIM3
P1.0/TIM2
P3.6/XIN/ECLK
P3.7/XOUT
P0.0/SDA/RD
P0.1/SCL/TIM4
P0.2/LXIN
P0.3/LXOUT
P0.4/NSS
P0.5/MOSI/TXD/IR_TXD
P0.6/MISO/RXD/IR_RXD
P0.7/SCLK/TIM5/CMPXO
C19
1uF
C20
1uF
C21
1uF
C33
1uF
C34
1uF
C35
1uF
ZBR44
NC
R50
10K
R51
1K
C39
2.2nF
J2
JATG
J1
CON6
R54
100k
R55
100R
C40
0.1uF
VSP
Fortior Technology(shenzhen)Co.,Ltd