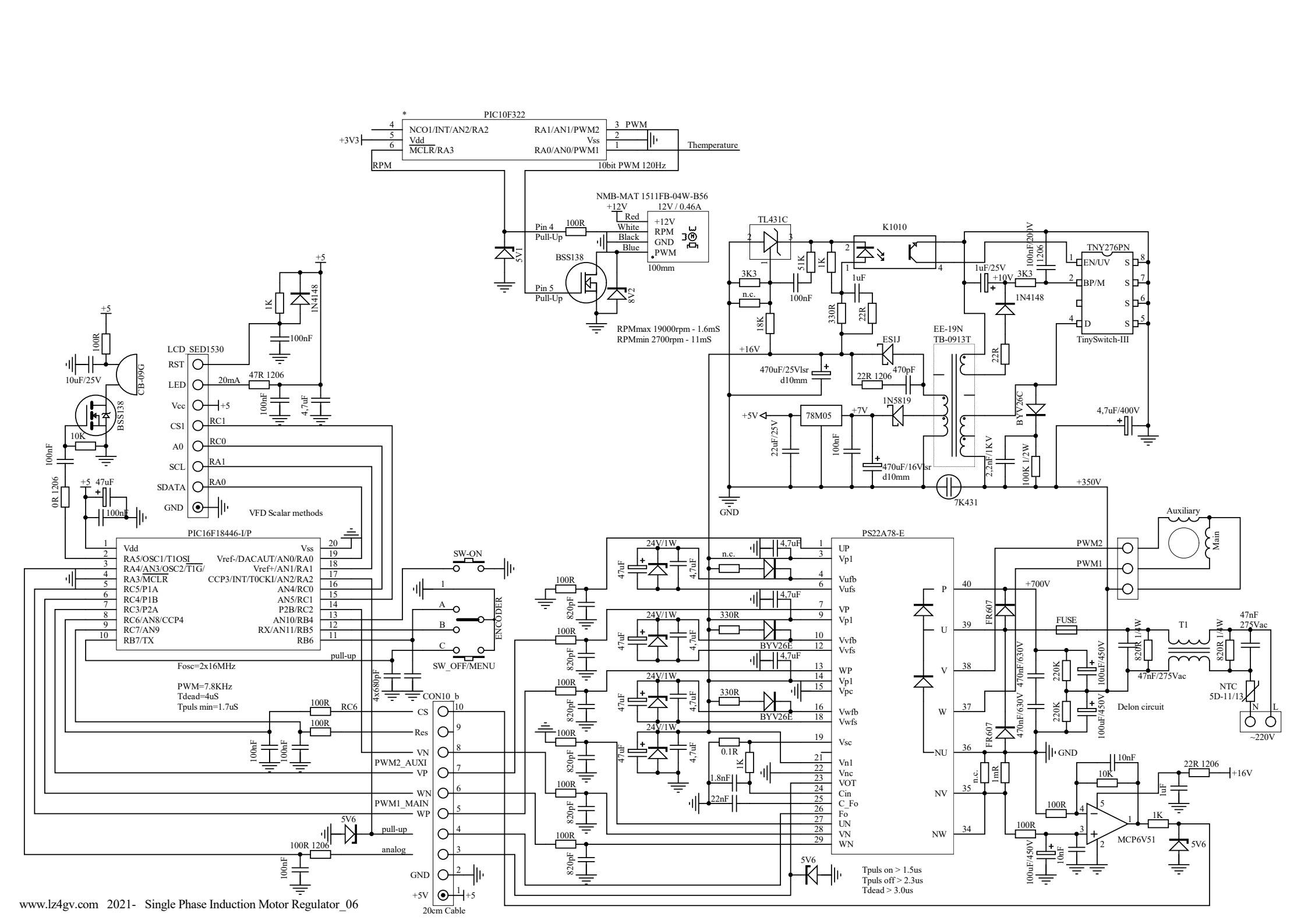
PIC10F322
NCO1/INT/AN2/RA2
Vdd
MCLR/RA3
RA1/AN1/PWM2
Vss
RA0/AN0/PWM1
3 PWM
Themperature
10bit PWM 120Hz
RPM
+3V3
NMB-MAT 1511FB-04W-B56
12V / 0.46A
+12V
Red
White
Black
Blue
RPM
GND
PWM
100mm
Pin 4
Pull-Up
Pin 5
Pull-Up
100R
BSS138
5V1
8V2
RPMmax 19000rpm - 1.6mS
RPMmin 2700rpm - 11mS
TL431C
K1010
TNY276PN
EN/UV
BP/M
D
S
TinySwitch-III
EE-19N
TB-0913T
ES1J
1N5819
78M05
BYV26C
1N4148
7K431
+16V
+7V
+5V
+350V
4,7uF/400V
470uF/25Vlsr
d10mm
470uF/16Vlsr
d10mm
22uF/25V
100nF
22R 1206
470pF
2,2nF/1KV
100K 1/2W
LCD_SED1530
RST
LED
Vcc
CS1
A0
SCL
SDATA
GND
20mA
47R 1206
VFD Scalar methods
PIC16F18446-I/P
Vdd
RA5/OSC1/T1OSI
RA4/AN3/OSC2/T1G/
RA3/MCLR
RC5/P1A
RC4/P1B
RC3/P2A
RC6/AN8/CCP4
RC7/AN9
RB7/TX
Vss
Vref-/DACAUT/AN0/RA0
Vref+/AN1/RA1
CCP3/INT/T0CKI/AN2/RA2
AN4/RC0
AN5/RC1
P2B/RC2
AN10/RB4
RX/AN11/RB5
RB6
Fosc=2x16MHz
PWM=7.8KHz
Tdead=4uS
Tpuls min=1.7uS
SW-ON
SW_OFF/MENU
ENCODER
pull-up
4x680pF
CON10_b
CS
Res
VN
VP
WN
WP
GND
+5V
PWM2_AUXI
PWM1_MAIN
20cm Cable
RC6
5V6
analog
PS22A78-E
UP
Vp1
Vufb
Vufs
VP
Vp1
Vvfb
Vvfs
WP
Vp1
Vpc
Vwfb
Vwfs
Vsc
Vn1
Vnc
VOT
Cin
C_Fo
Fo
UN
VN
WN
P
U
V
W
NU
NV
NW
24V/1W
47uF
BYV26E
330R
0.1R
1.8nF
22nF
Tpuls on > 1.5us
Tpuls off > 2.3us
Tdead > 3.0us
PWM2
PWM1
Auxiliary
Main
+700V
FR607
FUSE
T1
47nF
275Vac
820R 1/4W
47nF/275Vac
NTC
5D-11/13
~220V
Delon circuit
220K
100uF/450V
470nF/630V
MCP6V51
10nF
10K
1uF
1K
1mR
100uF/450V
www.lz4gv.com 2021- Single Phase Induction Motor Regulator_06