MosFet		
Standard	Vds 40 V	Rds 10 mOhm
	Id 12 A	
HV-Version	Vds 60 V	Rds 17 mOhm
	Id 8.8A	

C15 100n/50V — GND
C12 100n/50V
C11 100n/50V
IC2 FDMC8030 1-G1 4-S1 D1 8-G2 5-S2 D2
IC3 FDMC8030 1-G1 4-S1 D1 8-G2 5-S2 D2
HA2, BMA2, CA2, LA2, HA1, BMA1, CA1
+VM
R7 SA, R11 75mR, R8 47R, SRAH, SRAL — GND

C16 100n/50V — GND
C14 100n/50V
C13 100n/50V
IC4 FDMC8030 1-G1 4-S1 D1 8-G2 5-S2 D2
IC5 FDMC8030 1-G1 4-S1 D1 8-G2 5-S2 D2
HB2, BMB2, CB2, LB2, HB1, BMB1, CB1
+VM
R9 SB, R12 75mR, R10 47R, SRBH, SRBL — GND

IC1 TMC5160-WA
43 CB2, 44 HB2, 3 CB1, 2 HB1, 1 BMB1, 45 BMB2, 47 LB1, 46 LB2, 10 SRBH, 11 SRBL
35 CA2, 36 HA2, 42 CA1, 41 HA1, 40 BMA1, 37 BMA2, 39 LA1, 38 LA2, 9 SRAH, 8 SRAL
33 VS, 34 CPV, 32 CPI, 31 CPO
VSA, 12VOUT, 5VOUT, VCC
CSN_CFG3, SCK_CFG2, SDI_CFG1, SDO_CFG0
DIAG1_SWP, DIAG0_SWN
DRV_ENN, CLK
REFL_STEP, REFR_DIR
ENCA_DCIN_CFG5, ENCB_DCEN_CFG4, ENCN_DCO_CFG6
SD_MODE, SPI_MODE, VCC_IO
48 GNDP, 25 GNDD, 12 GND(TST_MODE), 7 GNDA — GND

C5 100n/50V, C6 22n/50V
+VM
C3 2u2/25V, C2 4u7/6,3V, R17 2R, C4 470n — GND
5V_OUT, VCC
14 CSN, 15 SCK, 16 SDI, 17 SDO
28 DIAG1, 27 DIAG0
29 EN
13 CLK — GND
18 STEP, 19 DIR
24 CFG5 X, 23 DCEN, 26 DCO
21 SD_MODE, 22 SPI_MODE, 20 VCC_IO
R1 22K, R2 22K — GND
C1 100nF — GND
VCC_IO

+VM
C7 100n/50V — GND
C9 10uF/35V — GND
C10 NC — GND

P1 MA08-1: 1 DIR, 2 STEP, 3 DCO, 4 SDO, 5 CSN, 6 SCK, 7 SDI, 8 EN
P3 MA02-1: 2 DIAG0, 1 DIAG1
P2 MA08-1: 1 VCC_IO, 2 BMB2, 3 BMB1, 4 BMA1, 5 BMA2, 6, 7, 8 +VM — GND

Jumper

DCIN
DCEN

SD_Mode
SPI_Mode

■ VCCIO

GND

Vio

BMB2

BMB1

BMA1

BMA2

GND

Vm

Dir

Step

DCO

SDO/CFG0

CSN/CFG3

SCK/CFG2

SDI/CFG1

EN

DIAG1

DIAG0

IC5

IC4

C13

SilentStepStick

TMC5160

R12

R9

C14

SDO/CFG0

C11

R7

C1

V1.5

R11

C15

C2

C3

R2

R1