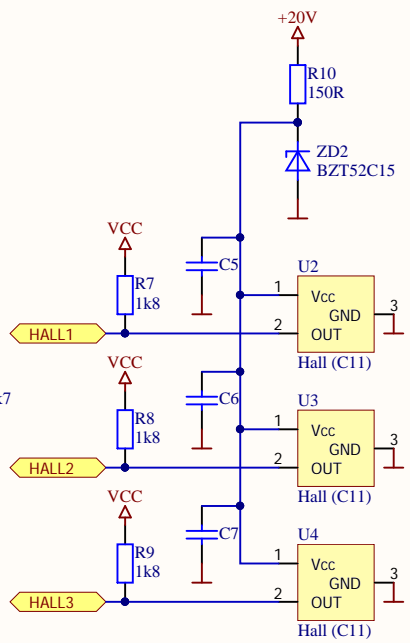
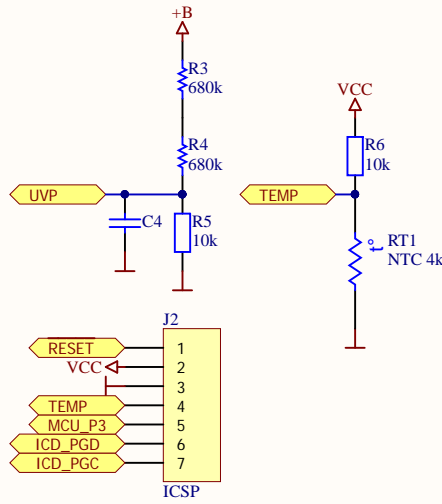
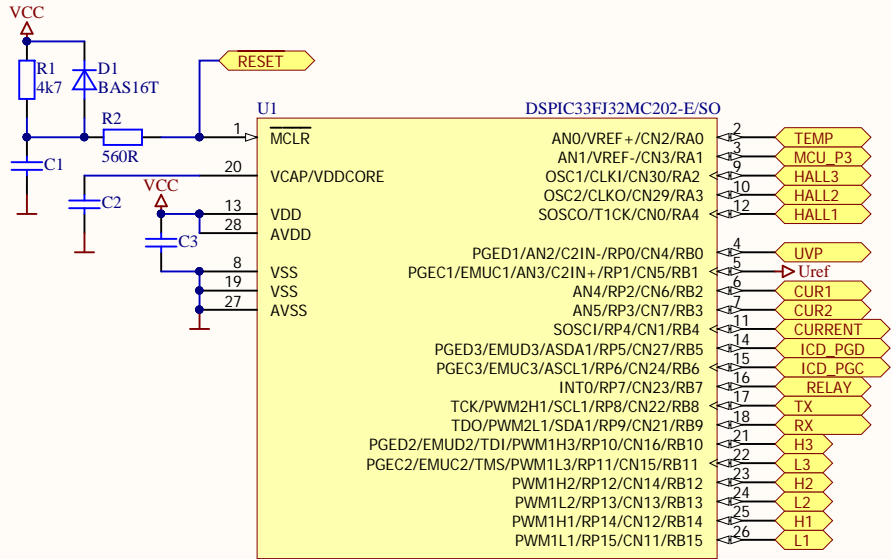


<b>Motor M500 Askoll</b>		<b>TOMECO</b>
Size: A4	Var.: [No Variations]	
Date: 2.12.2018	Time: 16:55:36	
File: Motor M500 Schematic.SchDoc		



This motor has been integrated in the washing machine Blomberg WNF 8447 AE40

This schematics was taken from the PCB (Backward Engineering). Designators (like R1, Q3...) do not match reality. The reality is unknown :-)  
 In this schematics are not included unfitted parts and zero resistors!  
 Ceramic capacitors and some other components are not described.

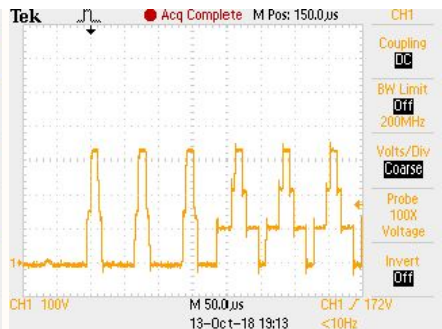
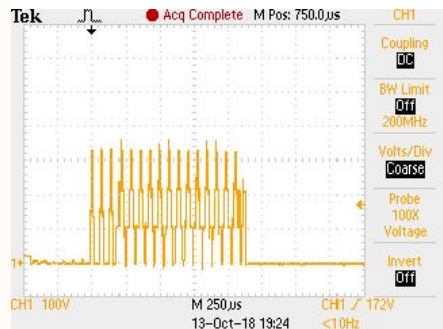
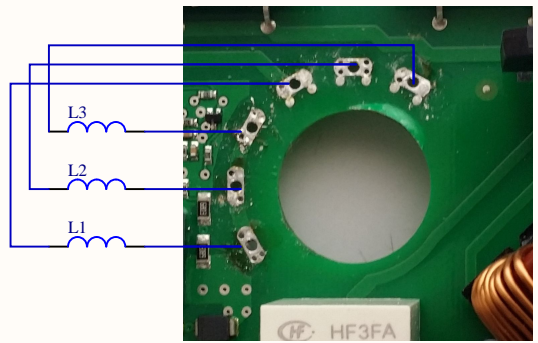
For example I didn't find the hall sensor description but I test it with a piece of magnet. It's marked "C11" in SOT23 case. It reacts with hysteresis on the change of the magnetic field.  
 I tried to read out the Firmware from the MCU but it's locked (of course :-).  
 All parameters are from working motor! Cracks in the ferrite are not a fault condition! It's normal. OK maybe not normal but it should work.

The behavior of good motor without communication.

If you connect just the 230V AC to the connectors pins 4, 5 and turn it on, than should happen:

- 1) The relay turns on. The motor should move briefly. If you measure with oscilloscope in the middle of the coils (to GND) you should see something like on the pictures. It looks like some kind of test.
- 2) After about 10 to 15 seconds the relay turns off and on again (in about half second). This is repeated infinitely. This looks like some kind of watchdog. If the motor does not establish a communication within some period it makes a reset. If the communication works the relay clicking won't happen anymore.

Coil	Resistance	Inductivity
1	600R	7,35mH
2	590R	7,33mH
3	598R	7,4mH



**Motor M500 Askoll**

Size: A4	Var.: [No Variations]	PCB: M500 Askoll	<b>TOMECO</b>
Date: 2.12.2018	Time: 16:55:36	Sheet 1 of 1	
File: Motor M500 MCU.SchDoc			