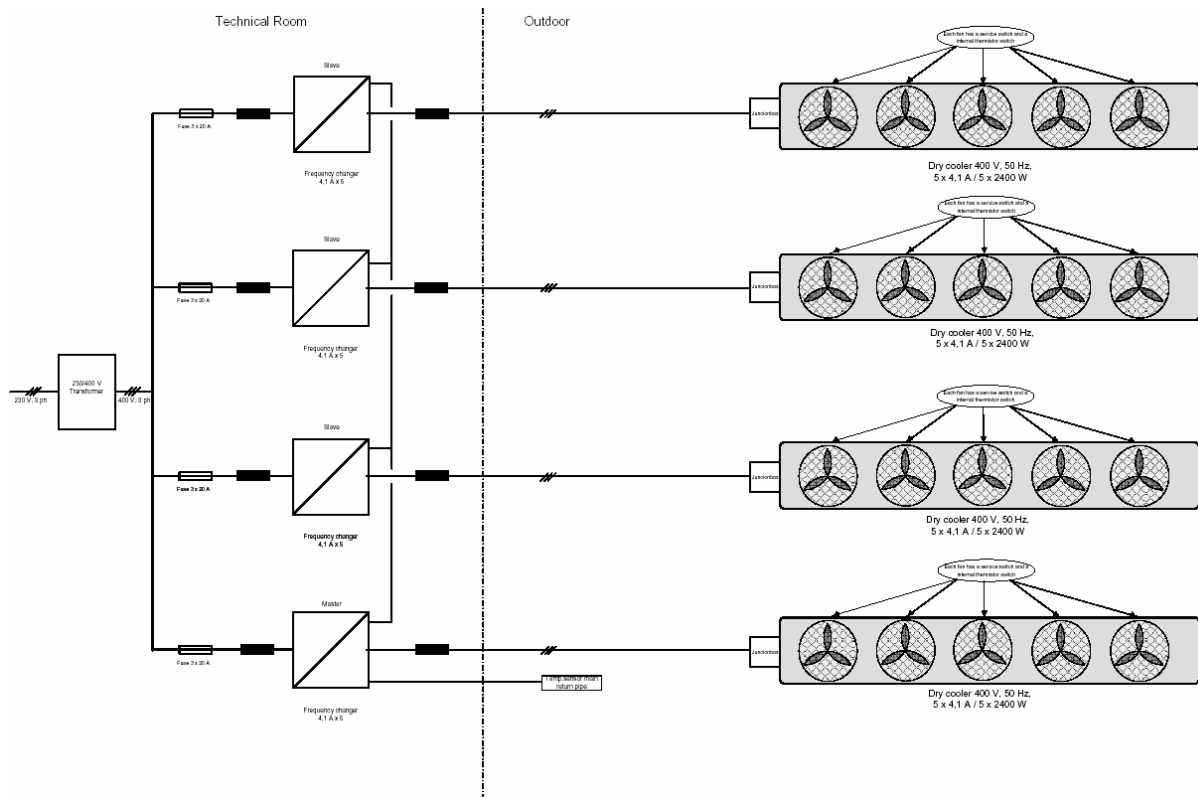


heat exchanger fan drive with TOSHIBA frequency inverter series VF-S11

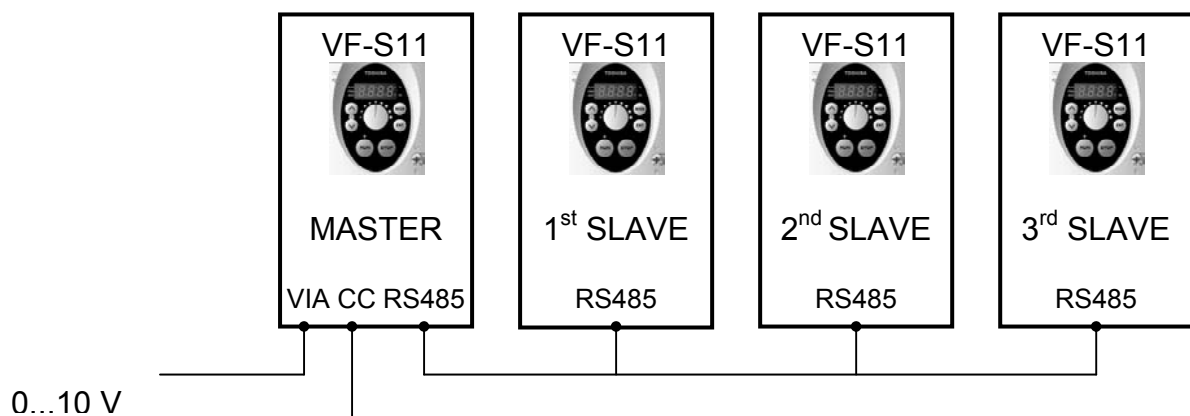
1.3



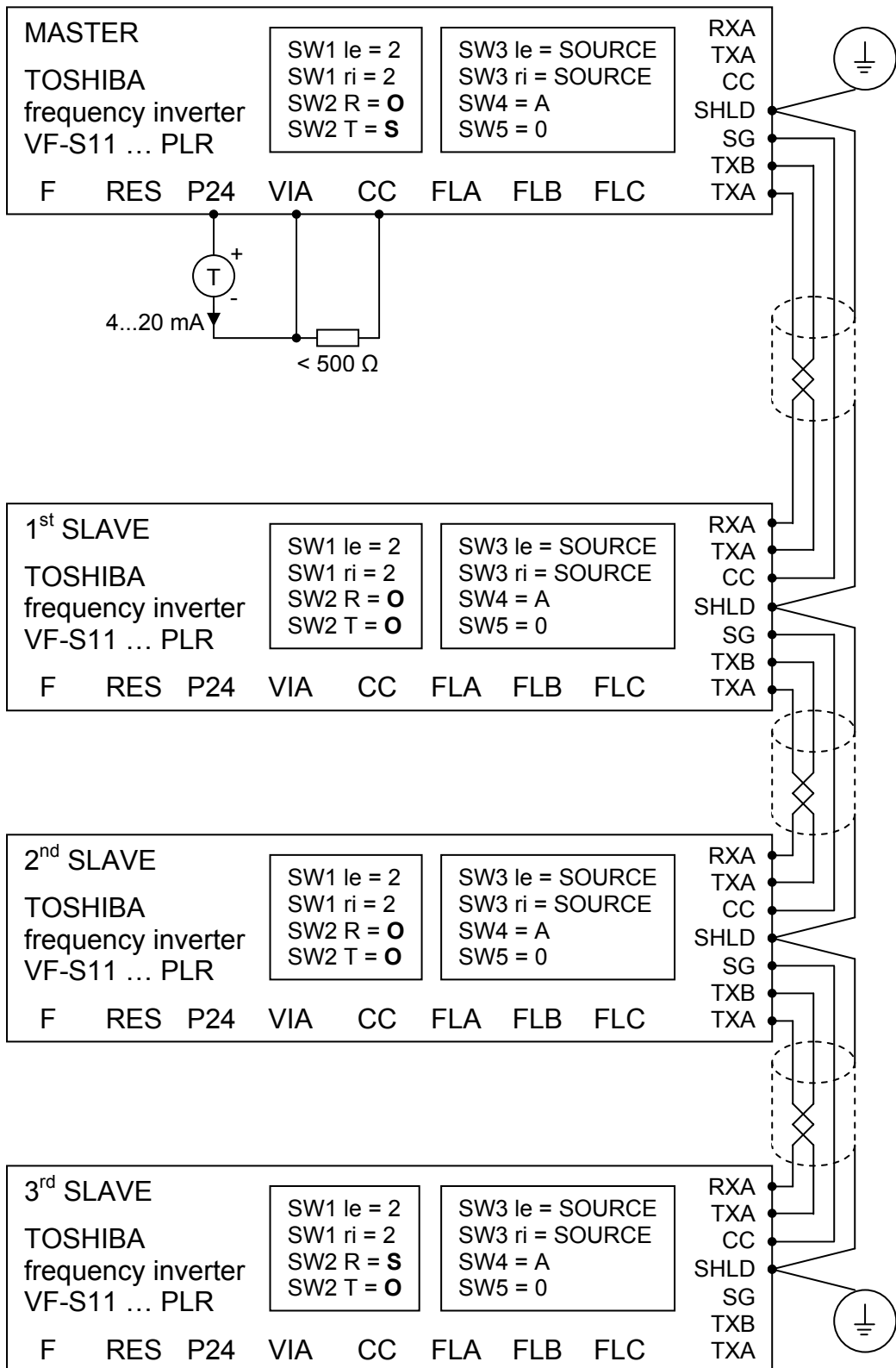
4 pcs.	VF-S11 4150 PLR-WP	TOSHIBA frequency inverter
4 pcs.	ULC 917/32/0,55	dv/dt output filter
4 pcs.	DWSM 00480	input reactor

- The temperature sensor output signal 4...20 mA is connected to the analog input VIA of the MASTER inverter.
- The speed reference signal is given with the integrated potentiometer of the MASTER inverter.

These two signals are processed in the integrated-PID controller of the MASTER. The calculated speed reference is given to all SLAVES via RS485 serial communication.



Wiring:



Configuration:

Slide the DIP-switches SW1...5 on the terminal boards to their positions as noted in the wiring diagram. Program the following parameters:

parameter	setting		Function
	MASTER	SLAVES	
CPOd	1		commands (start/stop) from operation panel
FPOd	0	4	frequency ref. from built in potentiometer / VIA
PE	0		v/f control
uL	50.0		rated motor frequency
uLv	400		output voltage factor = rated voltage
FH	50.0		maximum frequency
UL	50.0		upper frequency limit
LL	0.0		lower frequency limit
ACC	30.0		acceleration time
dEC	30.0		deceleration time
EHr	62		rated capacity motor/inverter
OLN	2		motor protection functions enabled
F110	1		ST function always active
F201	20		VIA % setpoint #1
F202	0.0		frequency at F201
F203	100		VIA % setpoint #2
F204	50		frequency at F203
F241	20.0		operation starting frequency
F242	2.5		hysteresis: \pm F241
F307	0		voltage compensation off
F360	1	0	PID control enabled
F362	0.30		P (use factory settings first)
F363	0.20		I (use factory settings first)
F366	0.00		D (use factory settings first)
F415	20.5		motor rated current
F417	716		motor rated speed
F800	3		communication speed
F806	4	0	MASTER / SLAVE setting
F829	0		TOSHIBA protocol

- Power-cycle all inverters.
- Start all inverters with the "RUN" button on the operation panel.