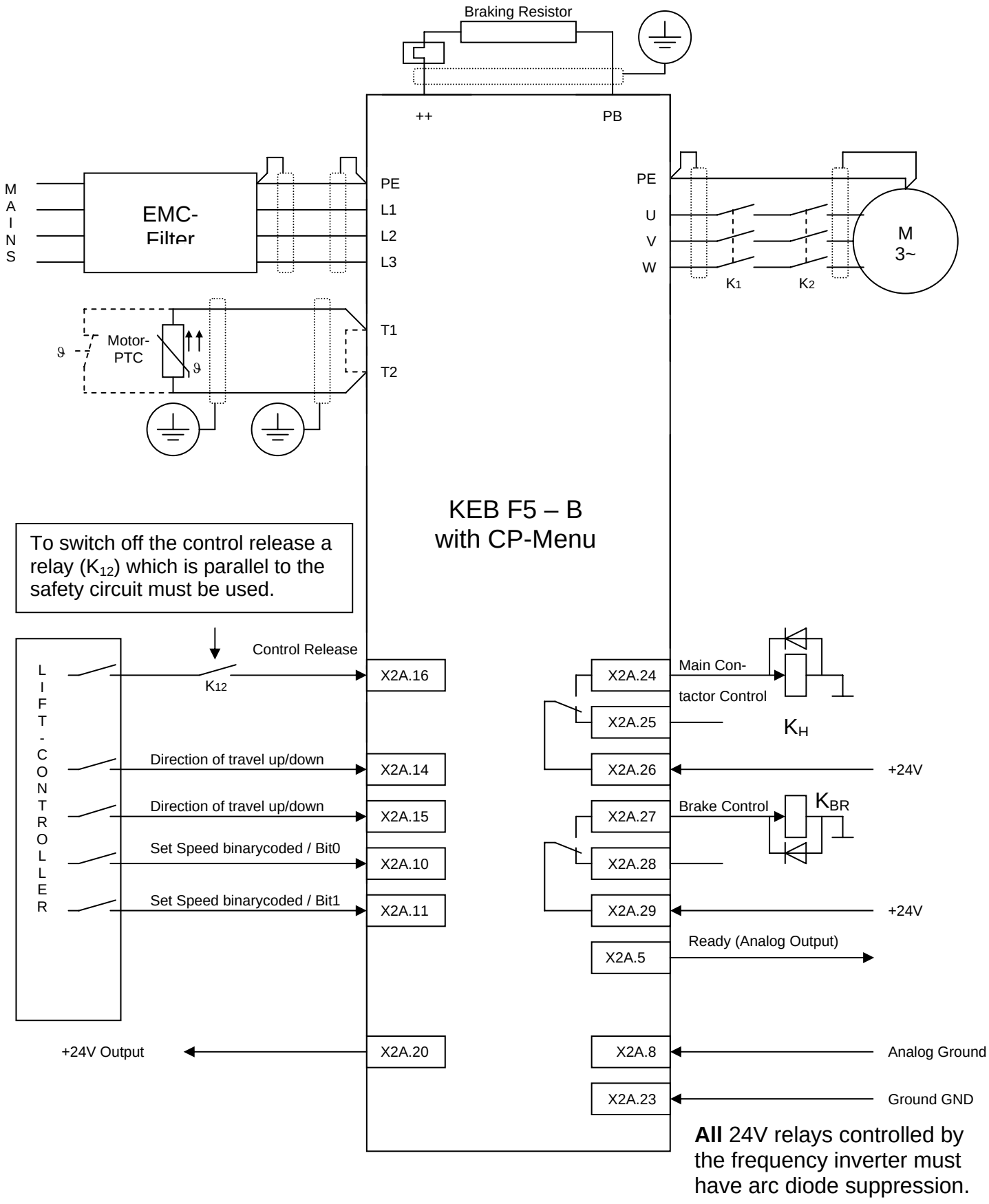
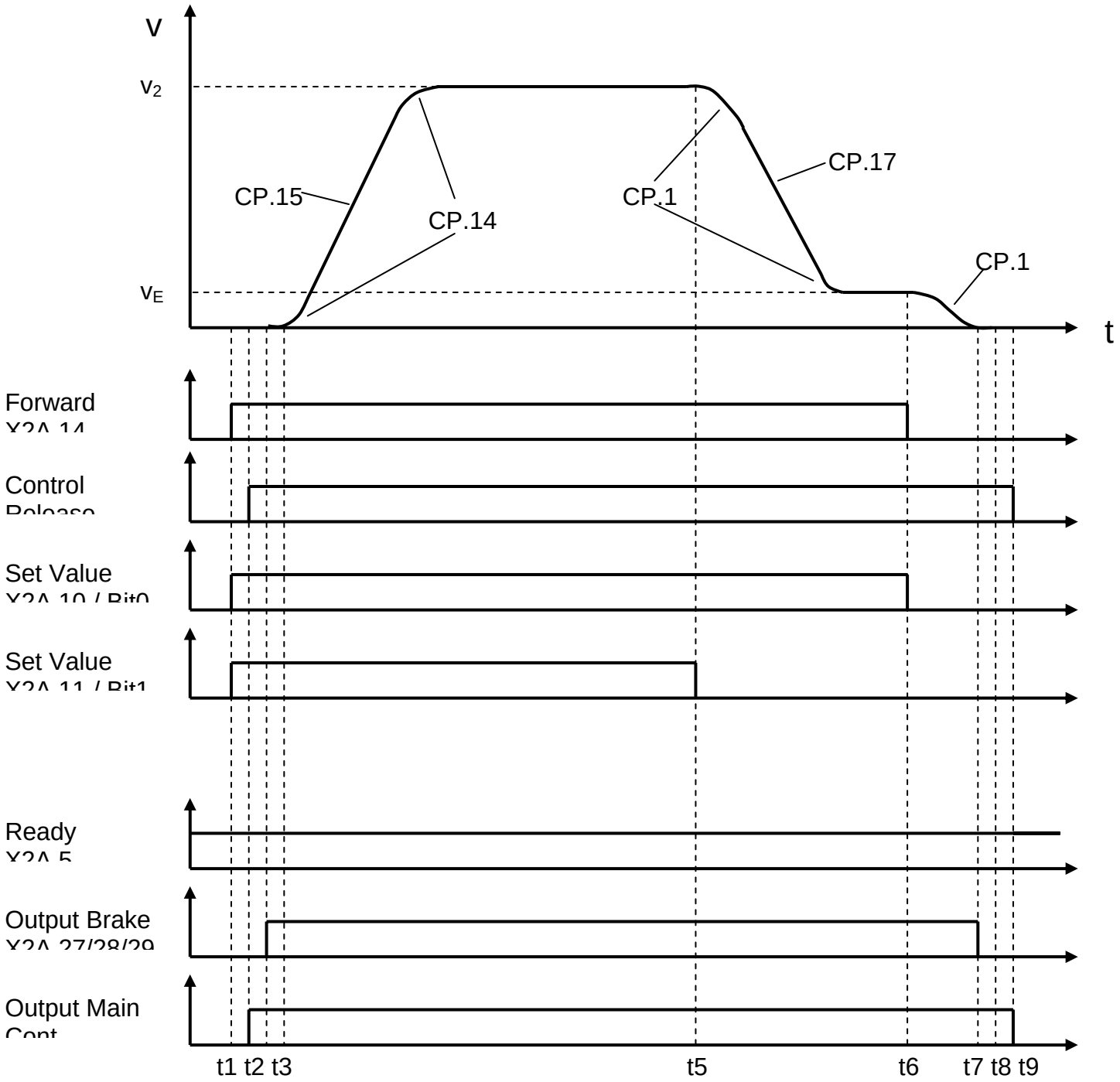
Example connection diagram for F5B Lift binarycoded



All 24V relays controlled by the frequency inverter must have arc diode suppression.

Operating Sequence for KEB F5B Lift binarycoded



t1 Once the direction forward at input X2A.14 is given and the set values for V_2 are
selected binary coded at the inputs X2A.10 / Bit0 and X2A.11 / Bit1 a 50ms
debounce timer runs out.

t2 After the debounce timer ran out the output for the main contactors
X2A.24/25/26 will be set (powerless switching). Via the main contactors the
control release input X2A.16 will enable the drive and it starts testing in all three
phases if it is possible to provide current to the motor.
This motor phase check needs about 600ms.

t3 If the motor phase check succeed the output for the brake X2A.27/28/29 will be
set and the brake release time (adjustable in CP.19) runs out.

t4 After the brake release time runs out the inverter starts turning the motor.

t5 If the car reaches the deceleration switch resetting X2A.11 / Bit1 will change the
speed selection from nominal to crawl speed.

t6 When the inverter has decelerated to crawl speed and reaches the stop switch
the crawl speed input X2A.10 / Bit0 and the direction input X2A.14 must be
reset. The motor will decelerate to stop.

t7 The brake output X2A.27/28/29 will be reset if the motor reaches speed zero.
After this the brake closing time (adjustable in CP.20) starts running out.

t8 The inverter will stop modulating when the brake closing time has run out.

t9 After a disexciting time has run out the main contactor output X2A.24/25/26
does switch off (powerless switching) and with the main contactors the control
release input X2A.16 switches off.

CP-List F5B Lift binarycoded

Indication:	**Parameter:**	Address hex:	Default:
CP.0	Password	/	-
CP.1	DASM Rated Current	0600	12,5A
CP.2	DASM Rated Speed	0601	1450min^{-1}
CP.3	DASM Rated Voltage	0602	400V
CP.4	DASM cos phi	0604	0,88
CP.5	DASM Rated Frequency	0605	50Hz
CP.6	DASM Ratio $T_{breakdown}$ / T_{rated}	0609	2,5
CP.7	DASM Stator Resistance	0606	1,8Ohm
CP.11	Frequency V_3	0303 (3)	42Hz
CP.12	Frequency V_2	0303 (2)	10Hz
CP.13	Frequency V_1	0303 (1)	6Hz
CP.14	S-Curve Time acc	0320	1s
CP.15	Acceleration Time	031C	3s
CP.16	S-Curve Time dec	0322	1s
CP.17	Deceleration Time	031E	3s
CP.18	S-Curve Time Stopping	0322 (0)	1s
CP.19	Brake Release Time	0424	0,3s
CP.20	Brake Engage Time	0428	0,3s
CP.21	Boost	0501	5%
CP.22	Autoboost Configuration	0510	0
CP.23	Autoboost Gain	0511	1,00
CP.24	Current Limit	0414	190%
	Indication Parameters only:		
CP.26	Set Frequency (Hz)	0202	-
CP.27	Actual Frequency (Hz)	0203	-
CP.28	Apparent Current (A)	020F	-
CP.29	Actual Utilization (%)	020D	-
CP.30	Actual DC-Voltage (V)	0212	-
CP.31	Active Parameter Set	021A	-
CP.32	Input Terminal State	0215	-
CP.33	Output Terminal State	0219	-
CP.34	Power Module Temperature	0226	-
CP.35	Last Fault Message	0E18	-
CP.36	Inverter State = Start Display	0200	-