ERGO 140
incl.
Safety break
resistance

PCSCHEMATIC Automation

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Documentation Info

This electrical documentation fits ERGO 140
- Includes brake resistance
- ENG. version
- CE approval
- Safety relay delayed stop function

Notes

There will be several variants of charts like this:
1: With and without brakes
2: With and without transformer
3: UL or CE approvals

Further, it should be noted that there will be some old versions which will be phase objections along the way, this problem will this be rectified.

Revision descriptions

- Rev. 01 Drawing. no. 01, page 5 & 7: Brake Resistance + Safety relay incl. delay stop function added

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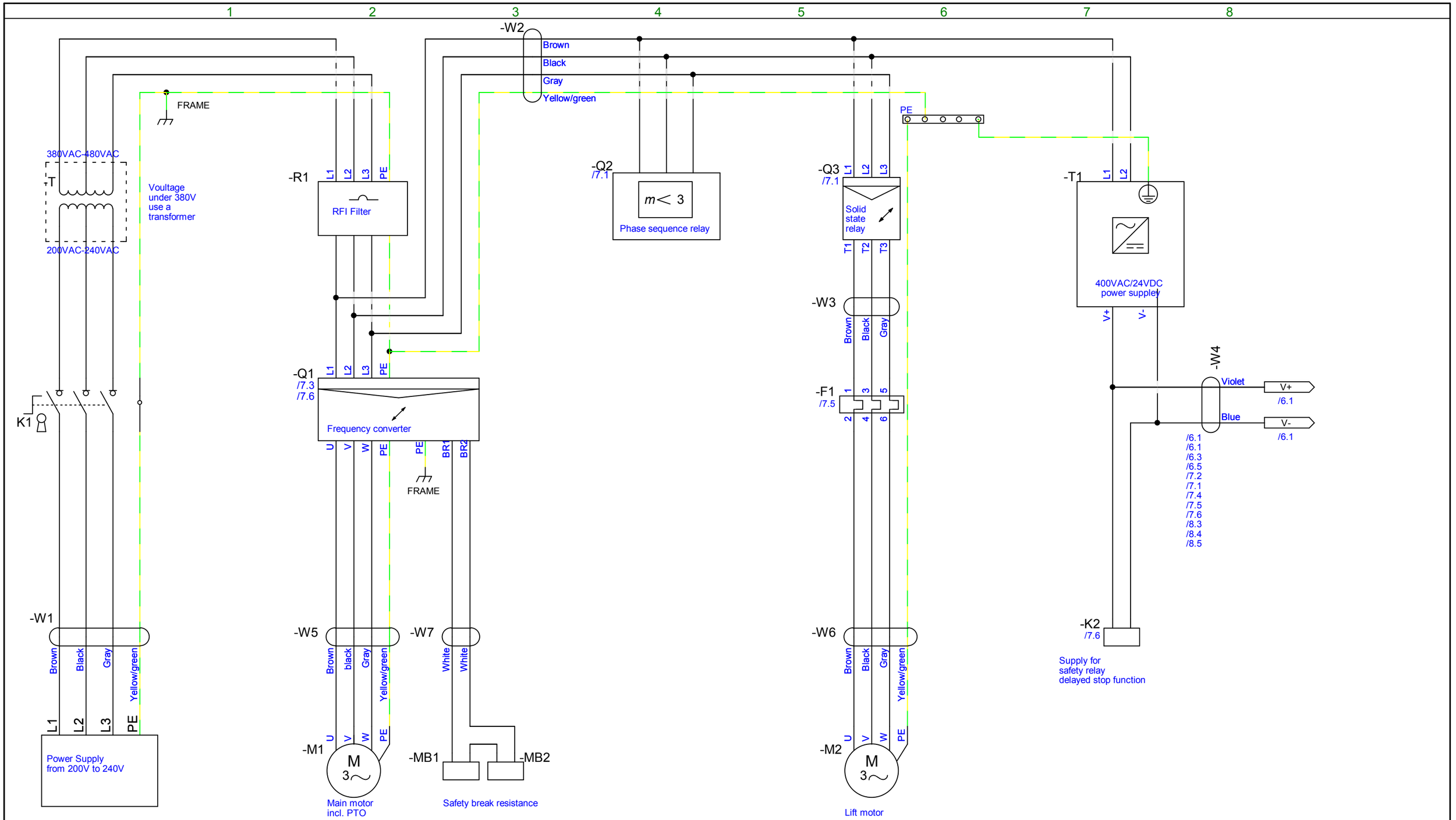
Diagram



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1 2 3 4 5 6 7 8

-K1
/7.1
/8.1

Front panel print VL-4

J8 J8 J1 J1 J1 J1 J1 J1 J1 J1 J2 J2 J2 J2 J2 J2 J2 J2

-R2
/7.1
/8.3

-W4
/5.8
Blue
Violet

V-
/5.8

V+
/5.8

-W4
/5.8
Black/red
Black/blue
Black/gray
White/red

-W4
/5.8
Red/brown
Red/gray
Gray/green
Red/orange

-W4
/5.8
Pink
Yellow
Beige
Orange
Red
Green
White
Brown

-K3
A1 A2 41 42 S33 S34 13 14

Safety relay

S11 S22 S12 S21

-X1 -X2 -X3 -X4

-W9
Yellow/brown
Orange/brown

-W10
White/brown
White/green

-X8
-X5 -X6 -X7 -X9 -X10

-W8
Black
blue
Brown
White

-W11
Blue
Brown
Black
Gray

-W12
Gray
Black
Brown
Blue

-S1
1 2 1 2

Emergency switch

-S2
22 21 14 13

CE micro switch

-B1
Security magnet
Guard detection

-B2
Security magnet
Guard detection

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1 2 3 4 5 6 7 8

-K1
/6.1

Front panel print

J4 J4 J4

-R2
/6.1

-W4
/5.8

Black/yellow
Black/green
Black/white

-X11 -X12 -X13

-W13

Black/yellow
Black/green
Black/white

-Q2
/5.4

m< 3

24 22 14 12

Phase sequence relay

21 11

-W14

Black/ yellow
Black/ green

-Q3
/5.6

A1 A2 B2

Solid state relay

J5 J5 J5

SHIELDED CABLE

-W4
/5.8

White/gray
Orange/gray
White/green

-Q1
/5.2

5 4 3 2 1

TX TX/ RX RX/ 0V "COM"

Modbus modul

SHIELDED CABLE

J5 J5

-W4
/5.8

White/orange
Gray/violet

-X14 -X15

-W15

Brown
Blue

-M1

t°

PTO break

J5 J5

-W4
/5.8

Gray
Black

95

-F1
/5.6

96

Motor protection
lift motor

J5 J5

-W4
/5.8

Gray/brown
Gray/yellow

-K2
/5.7

S11 S12

S10
S11

Safety break

S34
S21
S22
S35

57 58

-W20

Gra/brown
Yellow/gray

-X16 -X17

-W21

Gray/brown
Gray/yellow

-Q1
/5.2

SD1 SD2

Inverter Start
stop
Main Engine

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1 2 3 4 5 6 7 8

-K1
/6.1
/7.1

Front panel print

J6 J6 J6

-R2
/6.1

-W4
/5.8
Brown/green
Blue/yellow
Blue/red

-X18 -X19 -X20

-W16
Brown
Black
Blue

-B3
PNP

Proximity Detector
top

J6 J6 J6

-W4
/5.8
Blue/orange
Blue/brown
Blue/gray

-X21 -X22 -X23

-W17
Brown
Black
Blue

-B4
PNP

Proximity Detector
JOG

J6 J6 J6

-W4
/5.8
White/blue
Green/orange
Green/red

-X24 -X25 -X26

-W18
Brown
Black
Blue

-B5
PNP

Proximity Detector
bottom

J6 J6 J6

-W4
Green/blue
White/yellow
White/violet

-X27 -X28 -X29

-W19
Brown
Black
Blue

-B6
PNP

Proximity Detector
Bowl Detector

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Lists

Article no.	Type	Quantity
		1
AE140-85	Main motor incl. PTO	1
AE140-86.1M	Magnet induktiv sensor	3
AE140-86Z	Lift motor	1
AE140-194.14M	POWER	-
AE140-420	Safey relay	1
AE140-420.2	Safety Relay delayed stop function	1
AE140-420.3	Solid state relay	1
AE140-420.4	Safety relay	1
AE140-430	3P, transformer 400/230 10 KVA CE	1
AE140-512M	Guard detection	2
AE140-542.6	24VDC main circuit cable	-
AE140-561	Print for VL4 panel	1
AE140-601	Inverter 5,5kW	1
AE140-601.1	RFI Filter	1
AE140-601.8	Permanent magnet	1
CE61-173.1M	Micro switch CE	1
CE61-174	Emergency in front panel	1
CE61-175M	Safety break resistance	1
CE61-414	24VDC Power supply 400VSC/24VDC	1
CE61-420.4	Phase sequence relay	1
R20E-501.7	Magnet induktiv sensor	1

Article no.	Type	Quantity

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Component	Article	Type	Description	Position
				/5.6
-B1	AE140-512M	Guard detection		/6.6
-B2	AE140-512M	Guard detection		/6.7
-B3	AE140-86.1M	Magnet induktiv sensor		/8.3
-B4	AE140-86.1M	Magnet induktiv sensor		/8.4
-B5	AE140-86.1M	Magnet induktiv sensor		/8.5
-B6	R20E-501.7	Magnet induktiv sensor		/8.6
-F1	AE140-420.4	Safety relay		/5.6
-K1	AE140-561	Print for VL4 panel		/6.1
-K2	AE140-420.2	Safety Relay delayed stop function		/7.6
-K3	AE140-420	Safey relay		/6.5
-M1	AE140-85	Main motor incl. PTO		/5.2
-M2	AE140-86Z	Lift motor		/5.6
-MB1	CE61-175M	Safety break resistance		/5.3
-Q1	AE140-601	Inverter 5,5kW		/5.2
-Q2	CE61-420.4	Phase sequence relay		/5.4
-Q3	AE140-420.3	Solid state relay		/5.6
-R1	AE140-601.1	RFI Filter		/5.2
-R2	AE140-601.8	Permanent magnet		/6.1
-S1	CE61-174	Emergency in front panel		/6.2
-S2	CE61-173.1M	Micro switch CE		/6.3
-T	AE140-430	3P, transformer 400/230 10 KVA CE		/5.1
-T1	CE61-414	24VDC Power supply 400VSC/24VDC		/5.7
-W1	AE140-194.14M	POWER		/5.1
-W4	AE140-542.6	24VDC main circuit cable		/5.8

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From			Cable		To			Type
POWER	L2	/5.1	**-W1**	Black	K1	4	/5.1	POWER
POWER	L1	/5.1	**-W1**	Brown	K1	2	/5.1	POWER
POWER	L3	/5.1	**-W1**	Gray	K1	6	/5.1	POWER
POWER	PE	/5.1	**-W1**	Yellow/green	K1	8	/5.1	POWER
-Q1	L2	/5.2	**-W2**	Black	-Q3	L2	/5.6	Mellemleder
-Q1	L1	/5.2	**-W2**	Brown	-Q2	A2	/5.4	Mellemleder
-Q1	L3	/5.2	**-W2**	Gray	-Q3	L3	/5.6	Mellemleder
-R1	8	/5.2	**-W2**	Yellow/green			/5.6	Mellemleder
-Q3	T2	/5.6	**-W3**	Black	-F1	3	/5.6	Conductor
-Q3	T1	/5.5	**-W3**	Brown	-F1	1	/5.5	Conductor
-Q3	T3	/5.6	**-W3**	Gray	-F1	5	/5.6	Conductor
-R2	0	/6.6	**-W4**	Beige	-K3	41	/6.6	Cable to safety relay
-R2	0	/6.7	**-W4**	Brown	-K3	14	/6.7	Cable to safety relay
-R2	0	/6.7	**-W4**	Green	-K3	S34	/6.7	Cable to safety relay
-R2	0	/6.6	**-W4**	Orange	-K3	42	/6.6	Cable to safety relay
-R2	0	/6.5	**-W4**	Pink	-K3	A1	/6.5	Cable to safety relay
-R2	0	/6.6	**-W4**	Red	-K3	S33	/6.6	Cable to safety relay
-R2	0	/6.7	**-W4**	White	-K3	13	/6.7	Cable to safety relay
-R2	0	/6.6	**-W4**	Yellow	-K3	A2	/6.6	Cable to safety relay
-R2	0	/7.5	**-W4**	Black	-F1	96	/7.5	Cable termoe relay
-R2	0	/7.5	**-W4**	Gray	-F1	95	/7.5	Cable termoe relay
-R2	0	/6.2	**-W4**	Black/blue	-S1	2	/6.1	Conductor, emergency stop to the front panel
-R2	0	/6.2	**-W4**	Black/gray	-S1	1	/6.2	Conductor, emergency stop to the front panel
-R2	0	/6.1	**-W4**	Black/red	-S1	1	/6.1	Conductor, emergency stop to the front panel
-R2	0	/6.2	**-W4**	White/red	-S1	2	/6.2	Conductor, emergency stop to the front panel

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From			Cable		To			Type
-R2	0	/7.1	**-W4**	Black/green	-X12	0	/7.1	
-R2	0	/7.1	**-W4**	Black/white	-X13	0	/7.1	
-R2	0	/7.1	**-W4**	Black/yellow	-X11	0	/7.1	
-K2	A2	/5.7	**-W4**	Blue	-R2	0	/6.1	24VDC main circuit cable
-K2	A1	/5.7	**-W4**	Violet	-R2	0	/6.1	24VDC main circuit cable
-R2	0	/8.4	**-W4**	Blue/brown	-X22	0	/8.4	Cable PNP JOG
-R2	0	/8.4	**-W4**	Blue/gray	-X23	0	/8.4	Cable PNP JOG
-R2	0	/8.4	**-W4**	Blue/orange	-X21	0	/8.4	Cable PNP JOG
-R2	0	/8.3	**-W4**	Blue/red	-X20	0	/8.3	Cable PNP top
-R2	0	/8.3	**-W4**	Blue/yellow	-X19	0	/8.3	Cable PNP top
-R2	0	/8.3	**-W4**	Brown/green	-X18	0	/8.3	Cable PNP top
-R2	0	/7.6	**-W4**	Gray/brown	-K2	S11	/7.6	Start/stop
-R2	0	/7.6	**-W4**	Gray/yellow	-K2	S12	/7.6	Start/stop
-R2	0	/6.4	**-W4**	Gray/green	-X3	0	/6.4	Cable micro switch
-R2	0	/6.3	**-W4**	Red/brown	-X1	0	/6.3	Cable micro switch
-R2	0	/6.4	**-W4**	Red/gray	-X2	0	/6.4	Cable micro switch
-R2	0	/6.4	**-W4**	Red/orange	-X4	0	/6.4	Cable micro switch
-R2	0	/7.4	**-W4**	Gray/violet	-X15	0	/7.4	Cable to PTO
-R2	0	/7.4	**-W4**	White/orange	-X14	0	/7.4	Cable to PTO
-R2	0	/8.6	**-W4**	Green/blue	-X27	0	/8.6	Cable PNP Bowl
-R2	0	/8.6	**-W4**	White/violet	-X29	0	/8.6	Cable PNP Bowl
-R2	0	/8.6	**-W4**	White/yellow	-X28	0	/8.6	Cable PNP Bowl
-R2	0	/8.5	**-W4**	Green/orange	-X25	0	/8.5	Cable PNP bund
-R2	0	/8.5	**-W4**	Green/red	-X26	0	/8.5	Cable PNP bund
-R2	0	/8.5	**-W4**	White/blue	-X24	0	/8.5	Cable PNP bund
-R2	0	/7.3	**-W4**	Orange/gray	-Q1	4	/7.3	Shielded cable
-R2	0	/7.3	**-W4**	White/gray	-Q1	5	/7.3	Shielded cable
-R2	0	/7.3	**-W4**	White/green	-Q1	1	/7.3	Shielded cable

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From			Cable		To			Type
			-W4					Shielded cable
-Q1	U	/5.2	**-W5**	Brown	-M1	U	/5.2	Cable main motor
-Q1	W	/5.2	**-W5**	Gray	-M1	W	/5.2	Cable main motor
-Q1	PE	/5.2	**-W5**	Yellow/green	-M1	PE	/5.2	Cable main motor
-Q1	V	/5.2	**-W5**	black	-M1	V	/5.2	Cable main motor
-F1	4	/5.6	**-W6**	Black	-M2	V	/5.6	Cable for lift motor
-F1	2	/5.5	**-W6**	Brown	-M2	U	/5.5	Cable for lift motor
-F1	6	/5.6	**-W6**	Gray	-M2	W	/5.6	Cable for lift motor
		/5.6	**-W6**	Yellow/green	-M2	PE	/5.6	Cable for lift motor
-Q1	BR2	/5.3	**-W7**	White	-MB2	A2	/5.3	Safety break resistance wire
-Q1	BR1	/5.3	**-W7**	White	-MB1	A1	/5.3	Safety break resistance wire
-X1	0	/6.3	**-W8**	Black	-S2	22	/6.3	Cable micro switch
-X3	0	/6.4	**-W8**	Brown	-S2	14	/6.4	Cable micro switch
-X4	0	/6.4	**-W8**	White	-S2	13	/6.4	Cable micro switch
-X2	0	/6.4	**-W8**	blue	-S2	21	/6.3	Cable micro switch
-K3	S22	/6.6	**-W9**	Orange/brown	-X6	0	/6.6	Conductor
-K3	S11	/6.6	**-W9**	Yellow/brown	-X5	0	/6.6	Conductor
-K3	S12	/6.7	**-W10**	White/brown	-X9	0	/6.7	Conductor
-K3	S21	/6.7	**-W10**	White/green	-X10	0	/6.7	Conductor
-X8	0	/6.6	**-W11**	Black	-B1	3	/6.6	Cable bowl detection
-X5	0	/6.6	**-W11**	Blue	-B1	1	/6.6	Cable bowl detection

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From			Cable		To			Type
-X6	0	/6.6	**-W11**	Brown	-B1	2	/6.6	Cable bowl detection
-X7	0	/6.6	**-W11**	Gray	-B1	4	/6.6	Cable bowl detection
-X8	0	/6.6	**-W12**	Black	-B2	2	/6.7	Cable bowldetection
-X10	0	/6.7	**-W12**	Blue	-B2	4	/6.7	Cable bowldetection
-X9	0	/6.7	**-W12**	Brown	-B2	3	/6.7	Cable bowldetection
-X7	0	/6.6	**-W12**	Gray	-B2	1	/6.7	Cable bowldetection
-X12	0	/7.1	**-W13**	Black/green	-Q2	14	/7.1	Conductor
-X13	0	/7.1	**-W13**	Black/white	-Q3	B2	/7.1	Conductor
-X11	0	/7.1	**-W13**	Black/yellow	-Q2	12	/7.1	Conductor
-Q2	11	/7.1	**-W14**	Black/ green	-Q3	A2	/7.1	Conductor
-Q2	21	/7.1	**-W14**	Black/ yellow	-Q3	A1	/7.1	Conductor
-X15	0	/7.4	**-W15**	Blue	-M1	2	/7.4	PTO Cable
-X14	0	/7.4	**-W15**	Brown	-M1	1	/7.4	PTO Cable
-X19	0	/8.3	**-W16**	Black	-B3		/8.3	PNP Sensor cable top
-X20	0	/8.3	**-W16**	Blue	-B3		/8.3	PNP Sensor cable top
-X18	0	/8.3	**-W16**	Brown	-B3		/8.3	PNP Sensor cable top
-X22	0	/8.4	**-W17**	Black	-B4		/8.4	PNP Sensor cable JOG
-X23	0	/8.4	**-W17**	Blue	-B4		/8.4	PNP Sensor cable JOG
-X21	0	/8.4	**-W17**	Brown	-B4		/8.4	PNP Sensor cable JOG
-X25	0	/8.5	**-W18**	Black	-B5		/8.5	PNP Sensor cable bottom
-X26	0	/8.5	**-W18**	Blue	-B5		/8.5	PNP Sensor cable bottom

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From			Cable		To			Type
-X24	0	/8.5	**-W18**	Brown	-B5		/8.5	PNP Sensor cable bottom
-X28	0	/8.6	**-W19**	Black	-B6		/8.6	PNP Sensor cable bowl
-X29	0	/8.6	**-W19**	Blue	-B6		/8.6	PNP Sensor cable bowl
-X27	0	/8.6	**-W19**	Brown	-B6		/8.6	PNP Sensor cable bowl
-K2	57	/7.6	**-W20**	Gra/brown	-X16	0	/7.6	Conductor
-K2	58	/7.6	**-W20**	Yellow/gray	-X17	0	/7.6	Conductor
-X16	0	/7.6	**-W21**	Gray/brown	-Q1	SD1	/7.6	Conductor
-X17	0	/7.6	**-W21**	Gray/yellow	-Q1	SD2	/7.6	Conductor

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2	Indeks			28-12-2016
3	Table of contents			22-12-2017
4	Diagram			21-12-2017
	Diagram			
5	Diagram		01	21-12-2017
6	Diagram			21-12-2017
7	Diagram		01	22-12-2017
8	Diagram			21-12-2017
	Lists			
9	Parts List			21-12-2017
10	Component list			21-12-2017
11	Cable list			21-12-2017
16	Comments (log)			22-12-2017

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	Arrangement			
18	Component placement			22-12-2017
19	Cable connection			22-12-2017
	PCB diagram			
20	Diagram			22-12-2017
21	Diagram			28-12-2016

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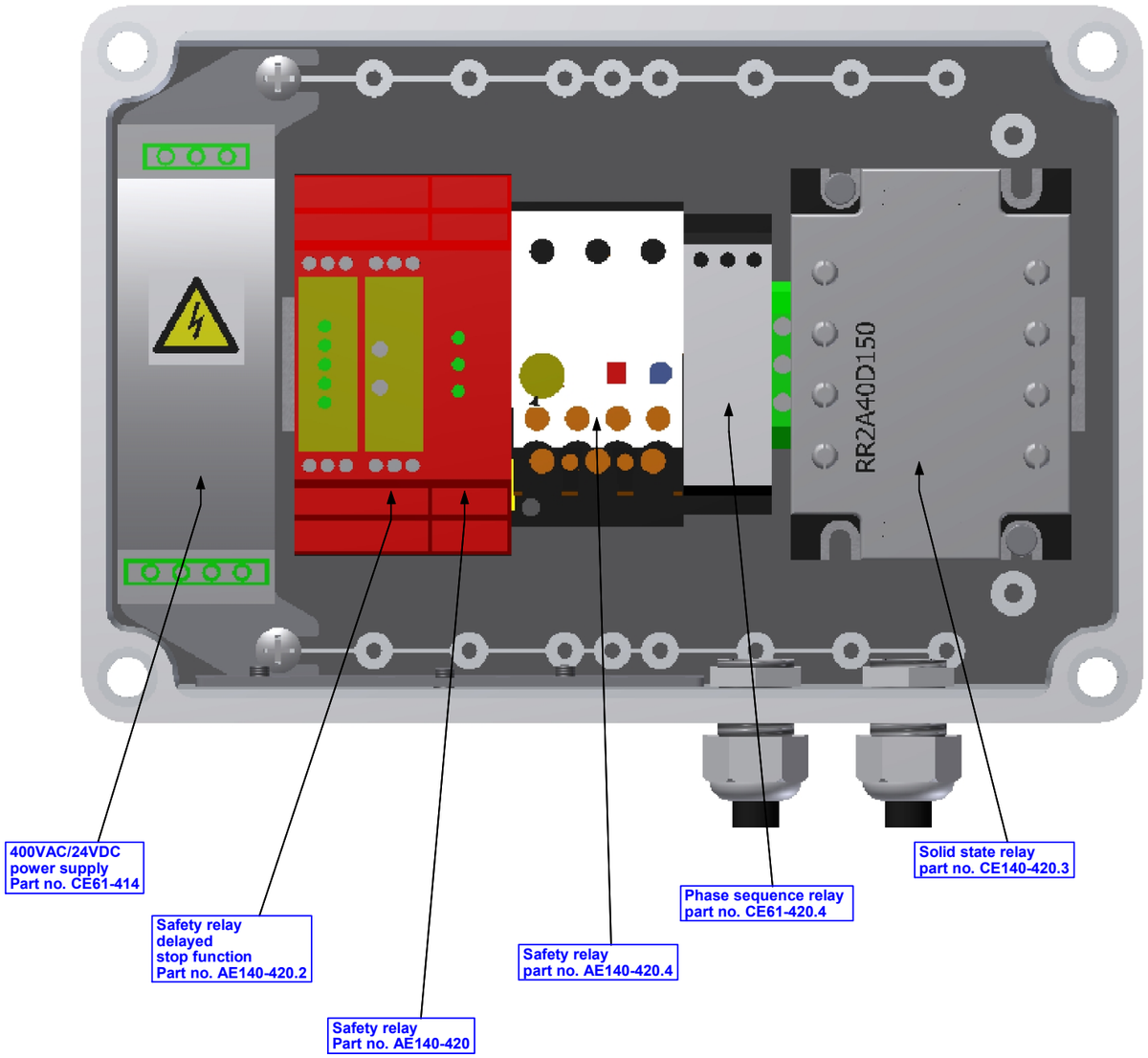
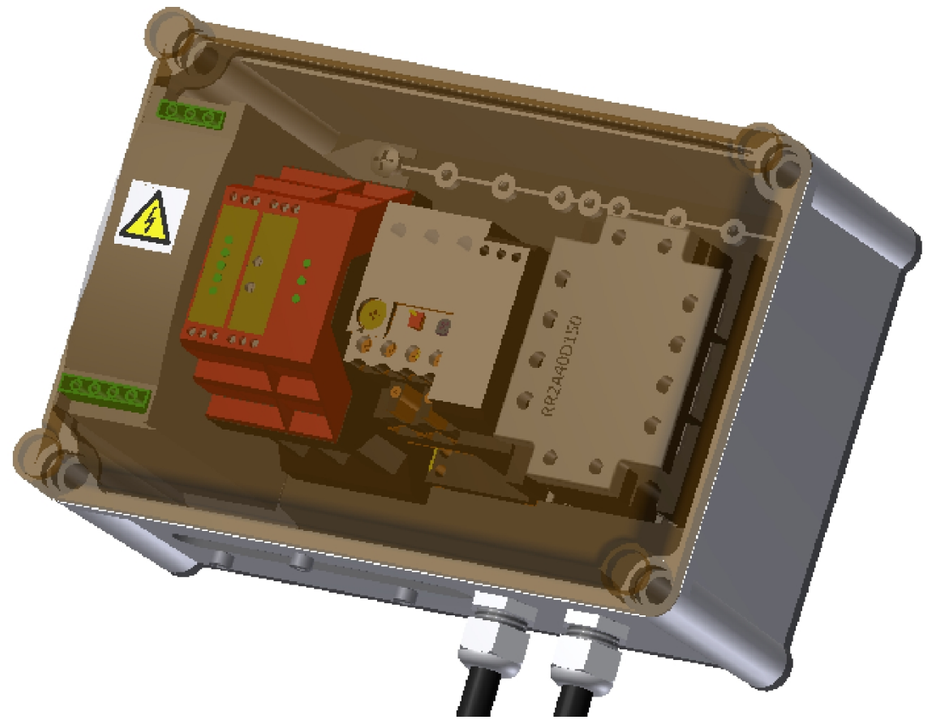
Arrangement





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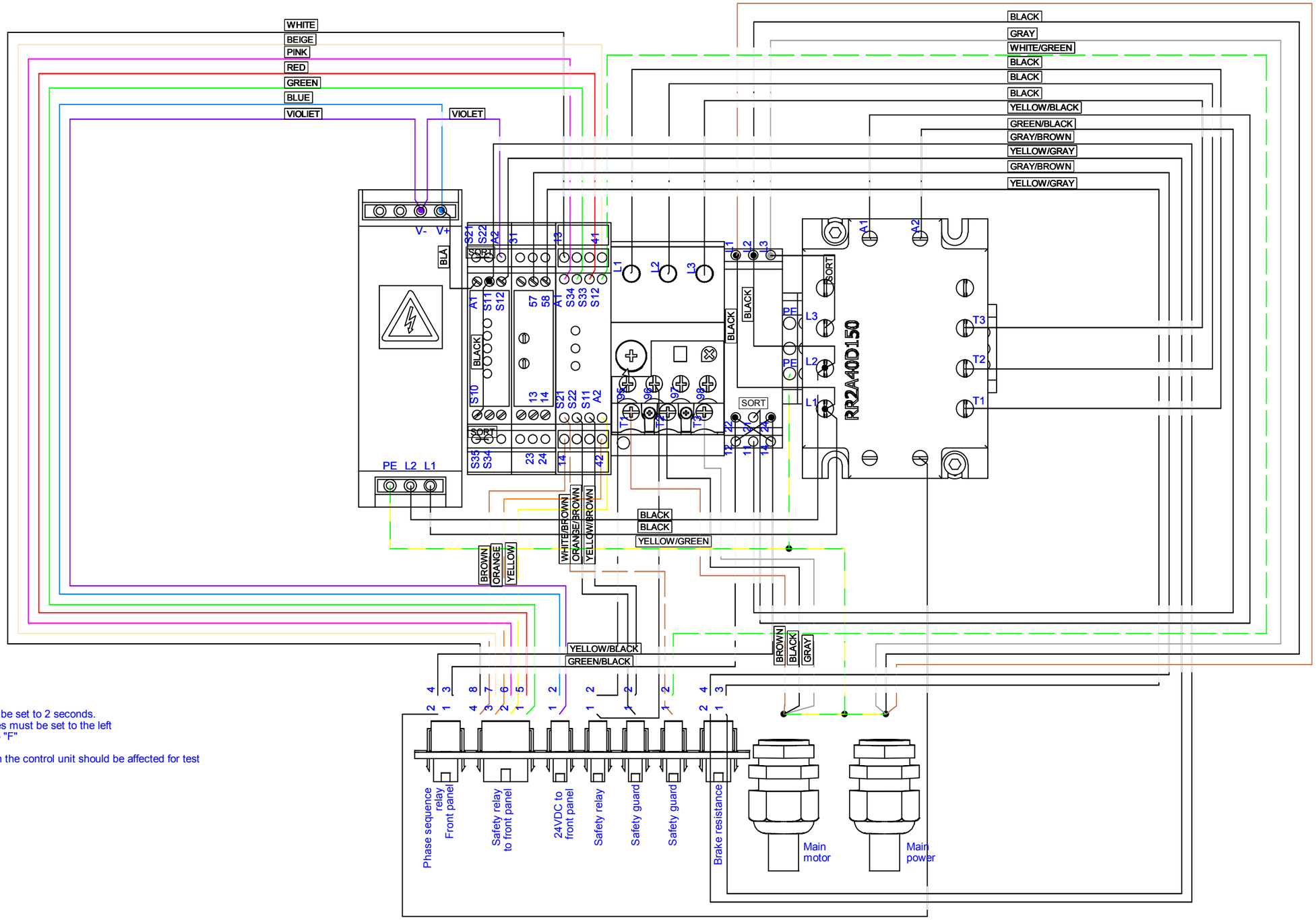

Notes:

1: The relay must be set to 2 seconds.
Ie. all DIP switches must be set to the left
and timer 1 & 2 to "F"

2: Reset button on the control unit should be affected for test

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