



Weima America Inc.

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(www.weima.com)

Customer : Sealed Air
Project : Hopper Shredder WLK 800 / 36 kW
Order no. :
Machine no. : 510-3927

Circuit diagram file :
PLC-program :

If the electrical circuit diagram or the PLC program is changed, contact the manufacturer, otherwise all warranty claims on the electrical equipment will expire.

Rated voltage : 3PH 460V 60Hz + Ground
Control voltage : 110VAC/24VDC
Rated current : 70A
max. back up fuse : 80A
Feed cross section : 4 x AWG4 (25mm²)
SCCR :

Connection to neutral, earthing, and compensation of potential are to be done in compliance with the local regulations for electrical systems. The earth fault loop impedance and suitability of the overcurrent protection device have to be tested at the place of installation of the machine.

Referring the cross section of the incoming power line, the local regulations, type of laying, frequency of occurring and the ambient temperature have to be considered.

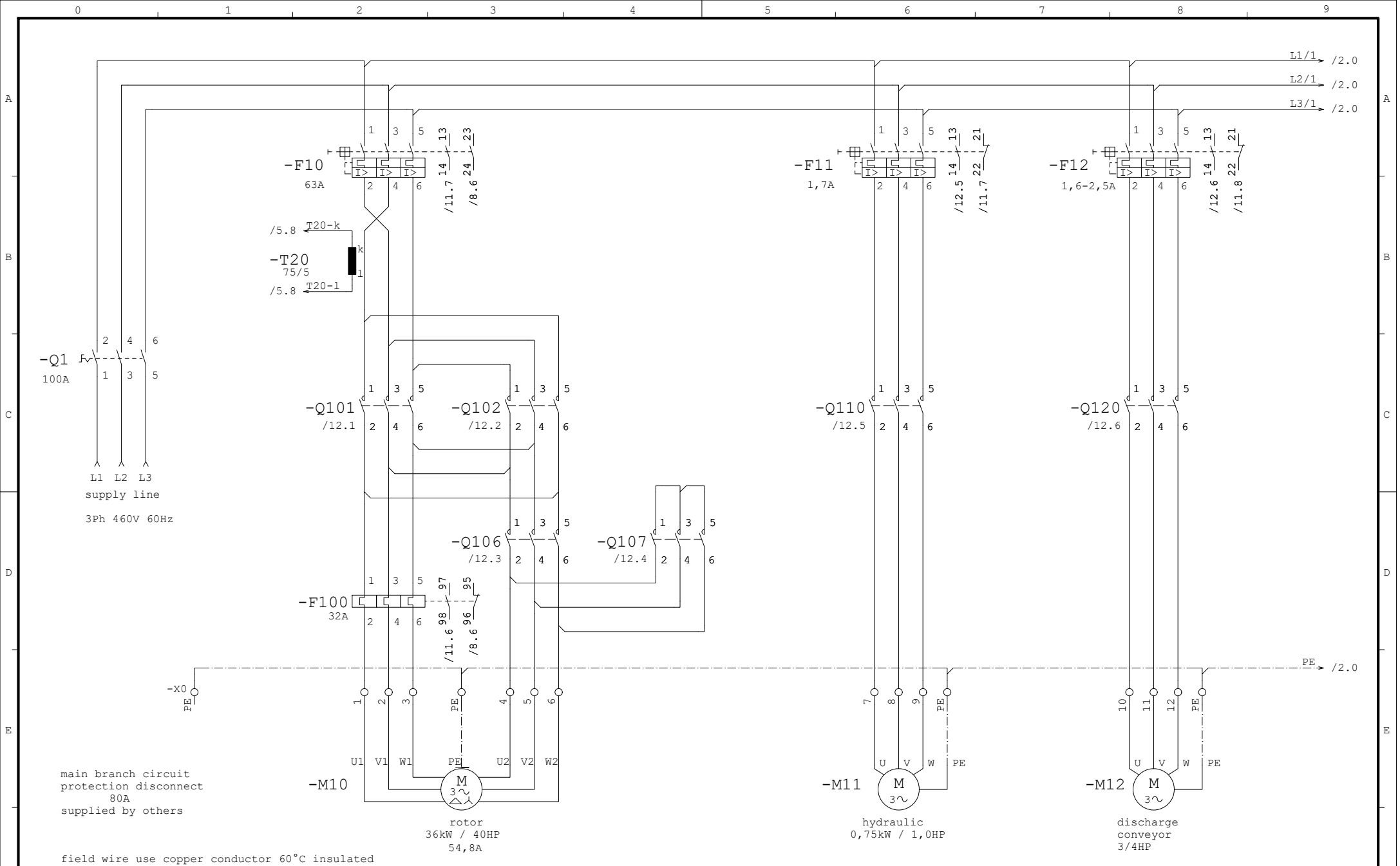
Before the plant is put into service, check all connecting terminals and retighten them, if necessary.

control cabinet : UL/CSA
Enclosure Rating DIN/IEC : IP54
Enclosure Rating US : NEMA 1, 3R, 12
Ambient temperature : 0° to +35°C

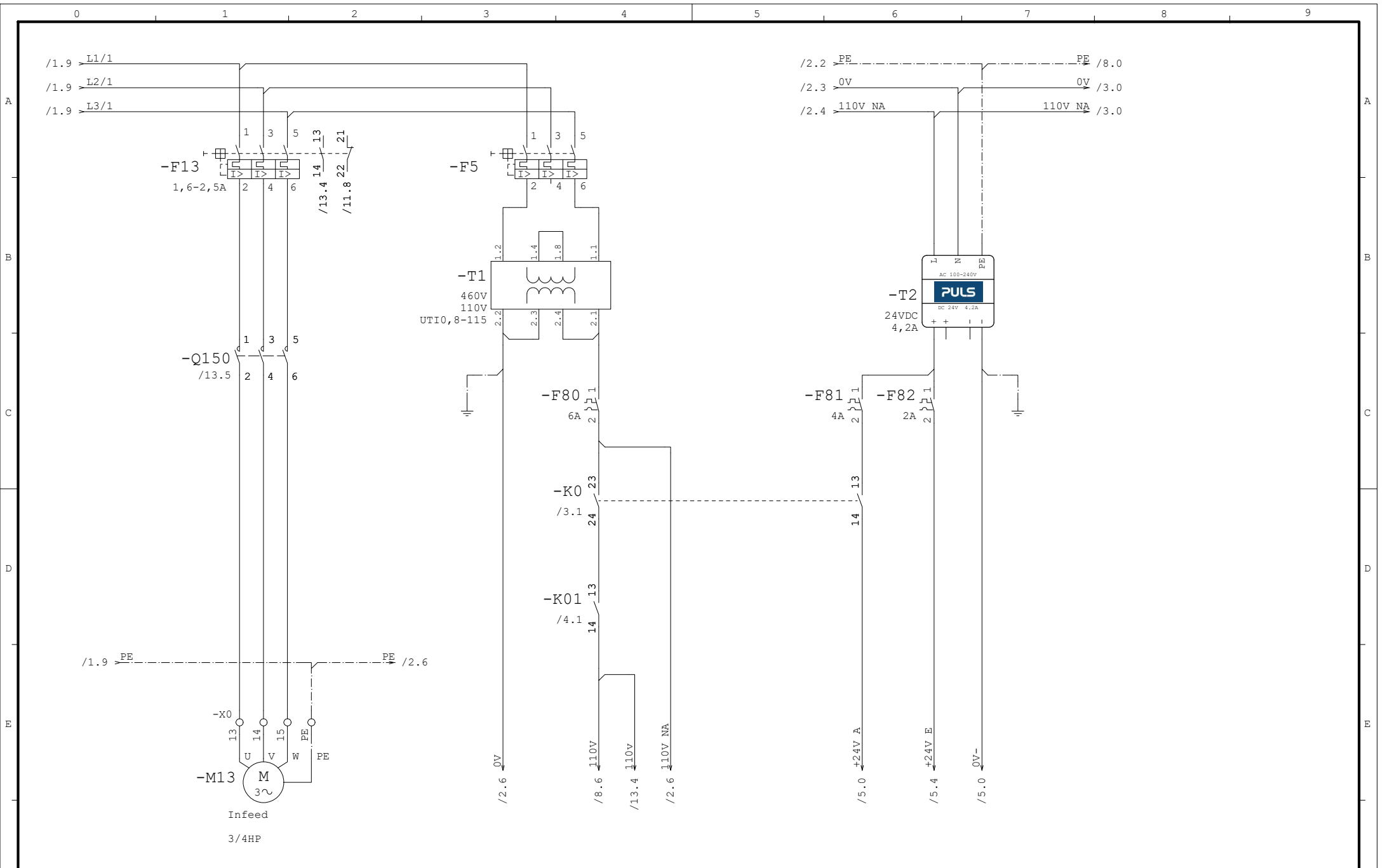
Colors

Main current	black
Protective grounding	green yellow
DC +	dark blue
DC - (0V)	white
AC +	red
AC - (N)	blue/white
Measuring line	violet
External voltage	orange

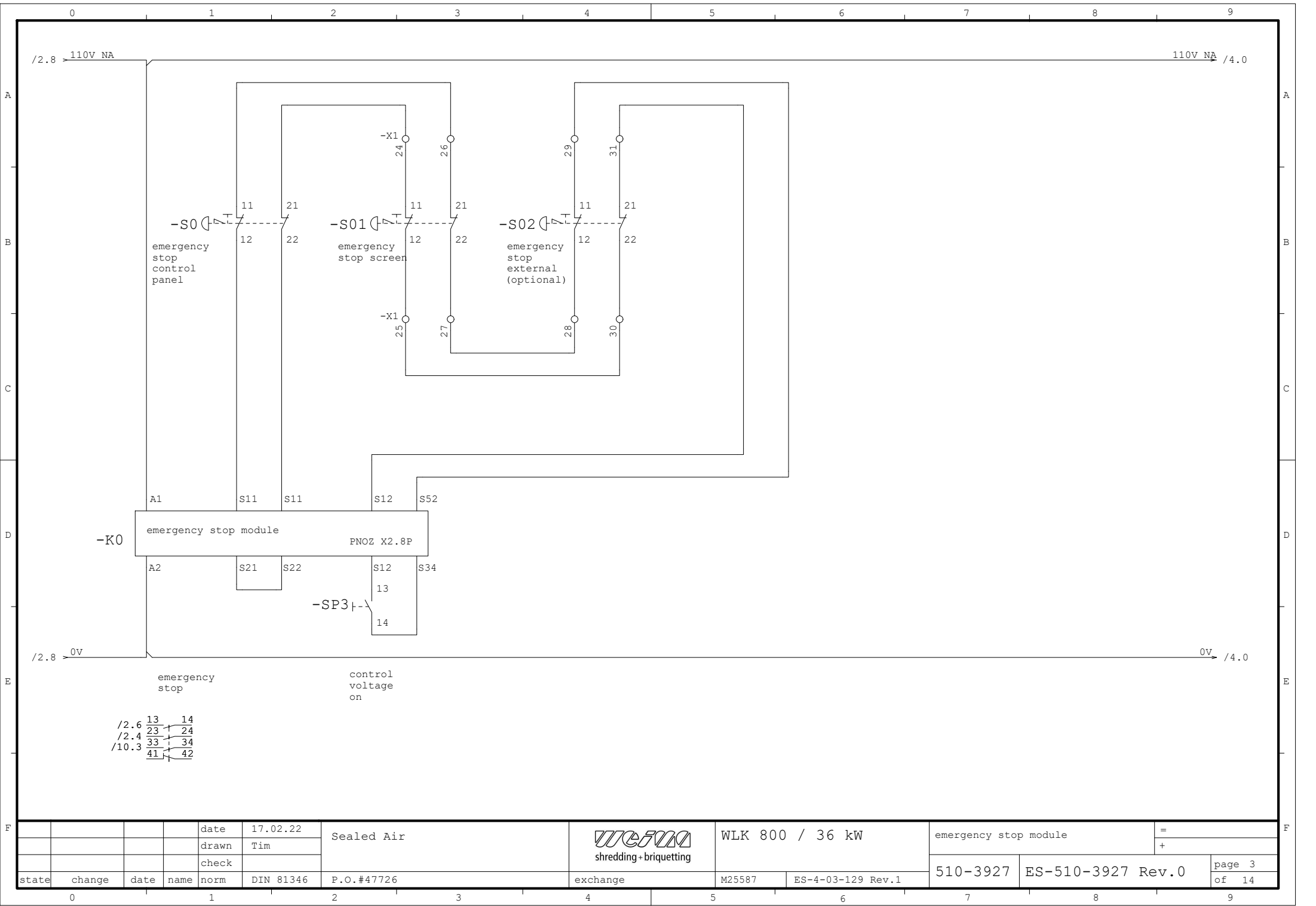
				date	17.02.22	Sealed Air		WLK 800 / 36 kW	cover sheet		=
				drawn	Tim						+
				check					510-3927		page 1
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	ES-510-3927 Rev.0	of 1



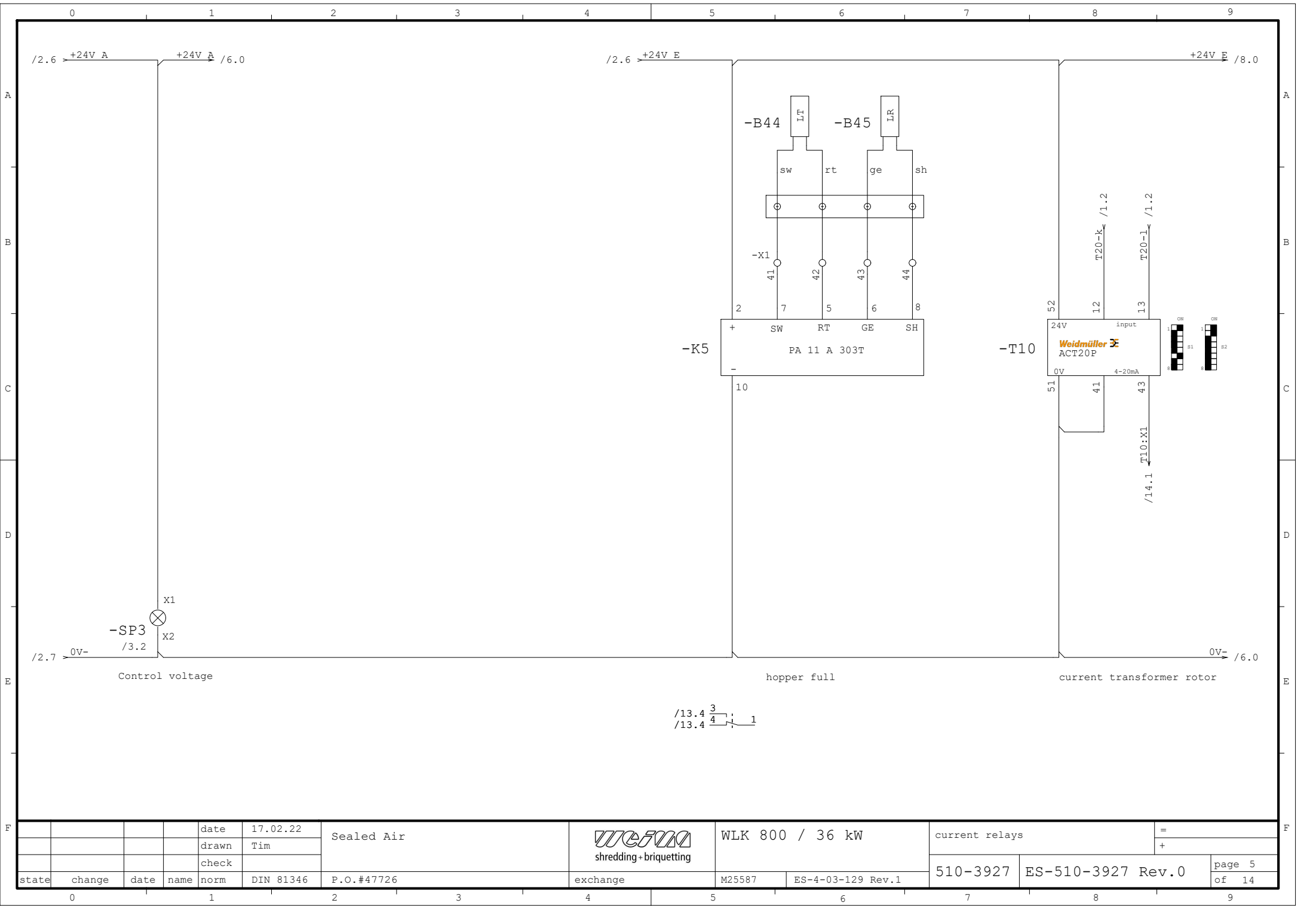
F				date	17.02.22	Sealed Air		WLK 800 / 36 kW	main supply, rotor		=		F
				drawn	Tim						+		
				check									
	state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	
	0			1		2	3	4	5	6	7	8	9



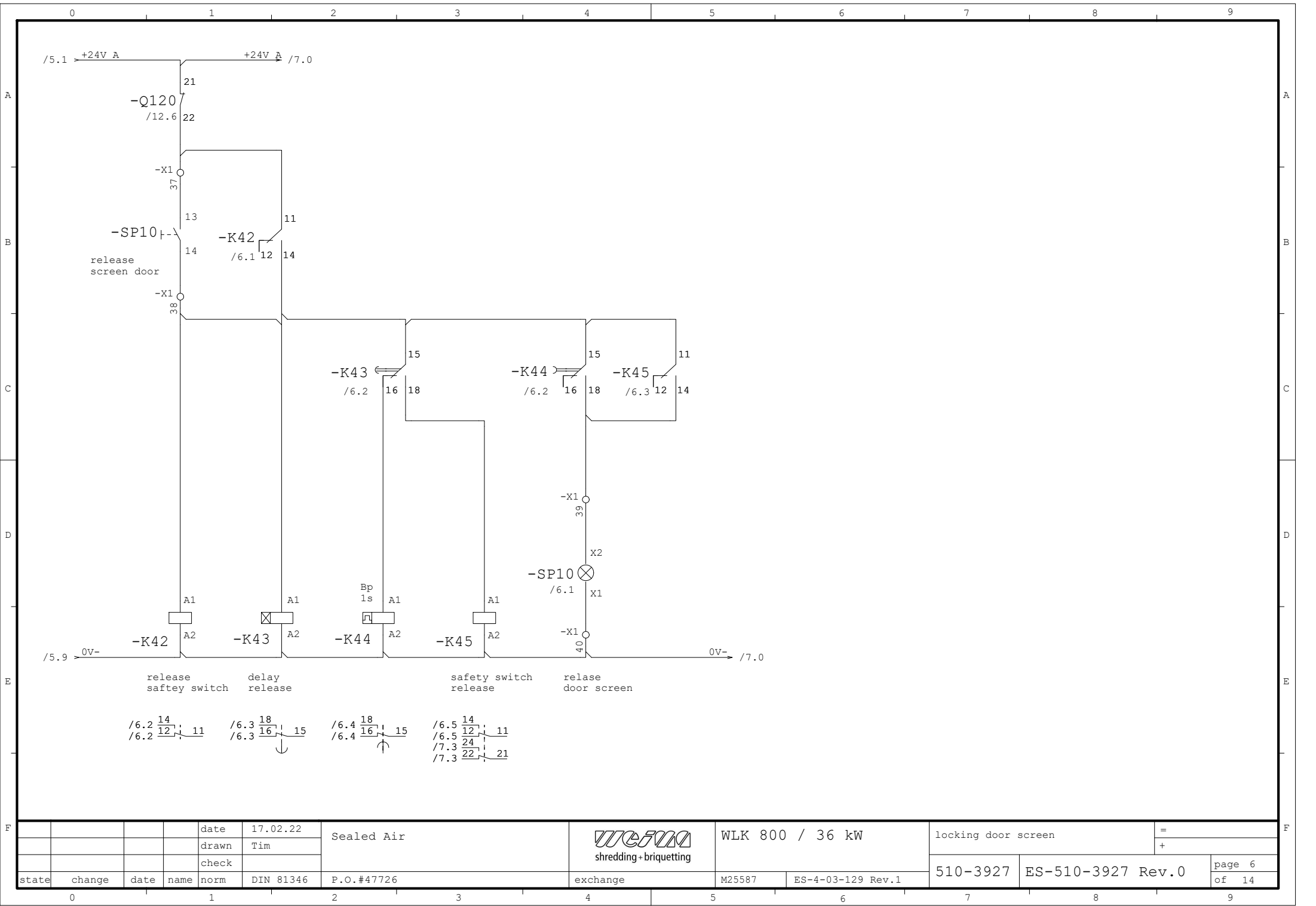
F				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		Control voltage		=		F
				drawn	Tim							+		
				check										
	state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 2 of 14	
	0			1		2	3	4	5	6	7	8	9	



				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		emergency stop module		=
				drawn	Tim							+
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 3 of 14

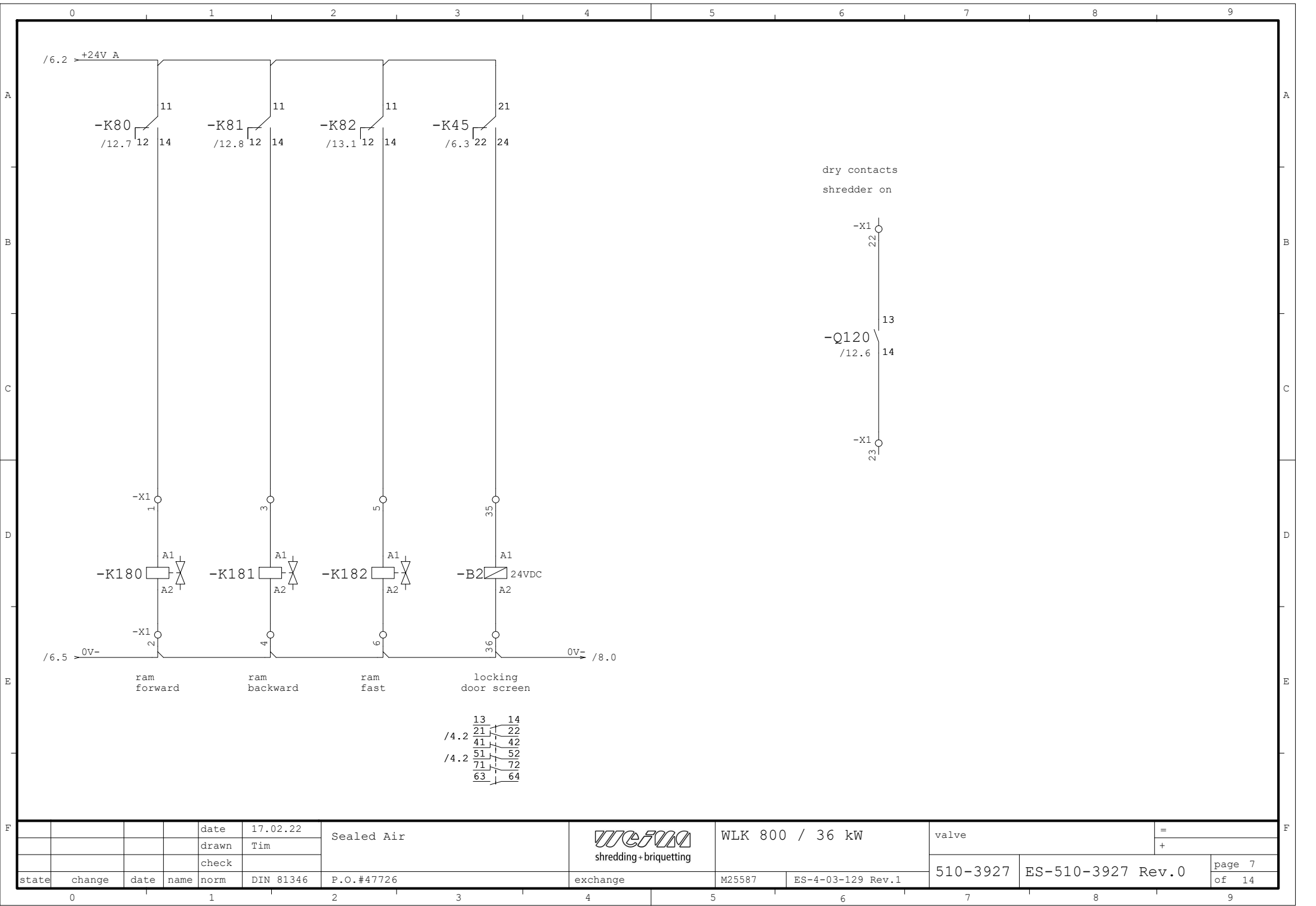


				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW	current relays		=	
				drawn	Tim						+	
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 5 of 14

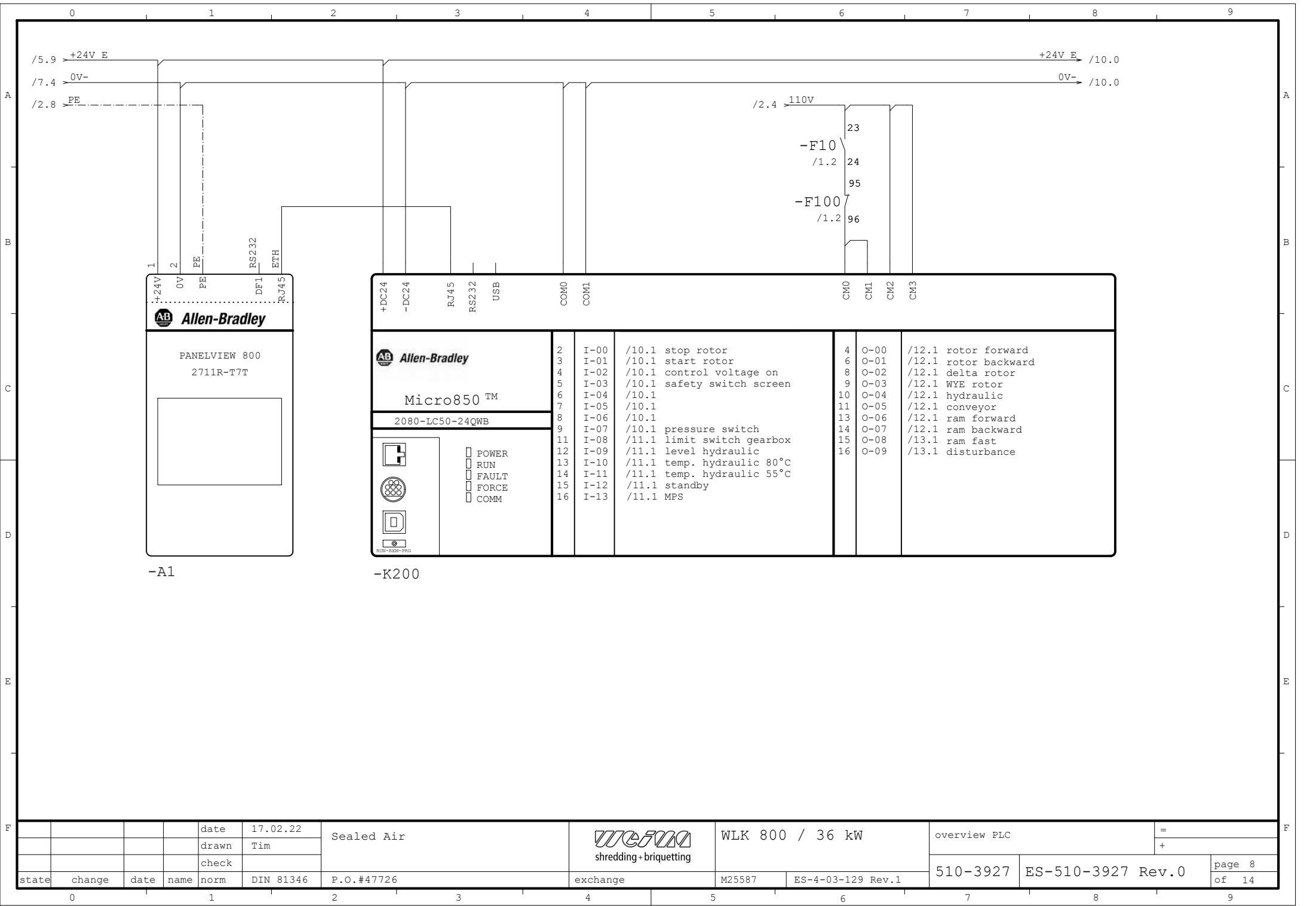


/6.2 14 /6.2 12 11 /6.3 18 /6.3 16 15 /6.4 18 /6.4 16 15 /6.5 14 /6.5 12 11 /7.3 24 /7.3 22 21

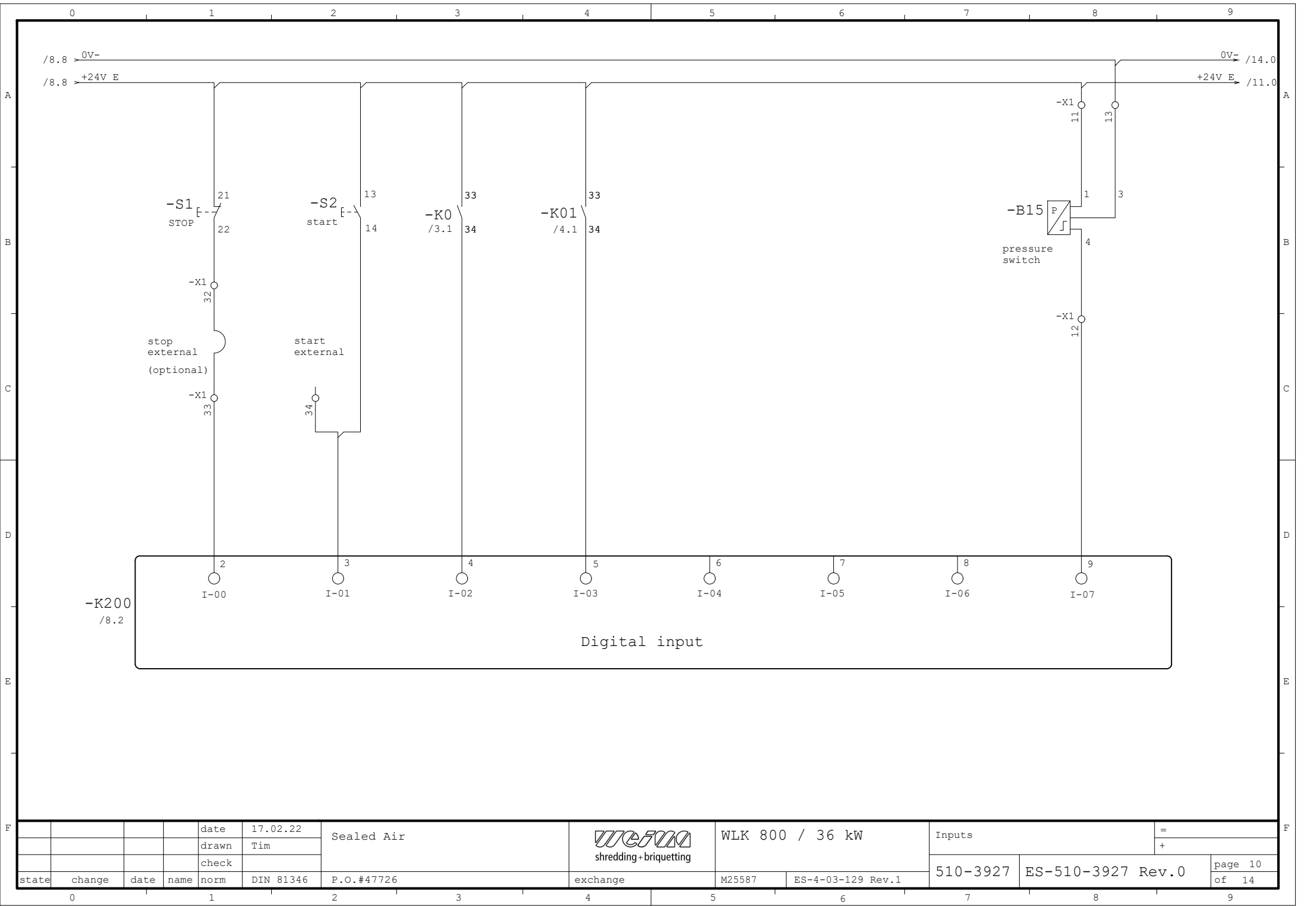
				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		locking door screen		=
				drawn	Tim							+
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 6 of 14



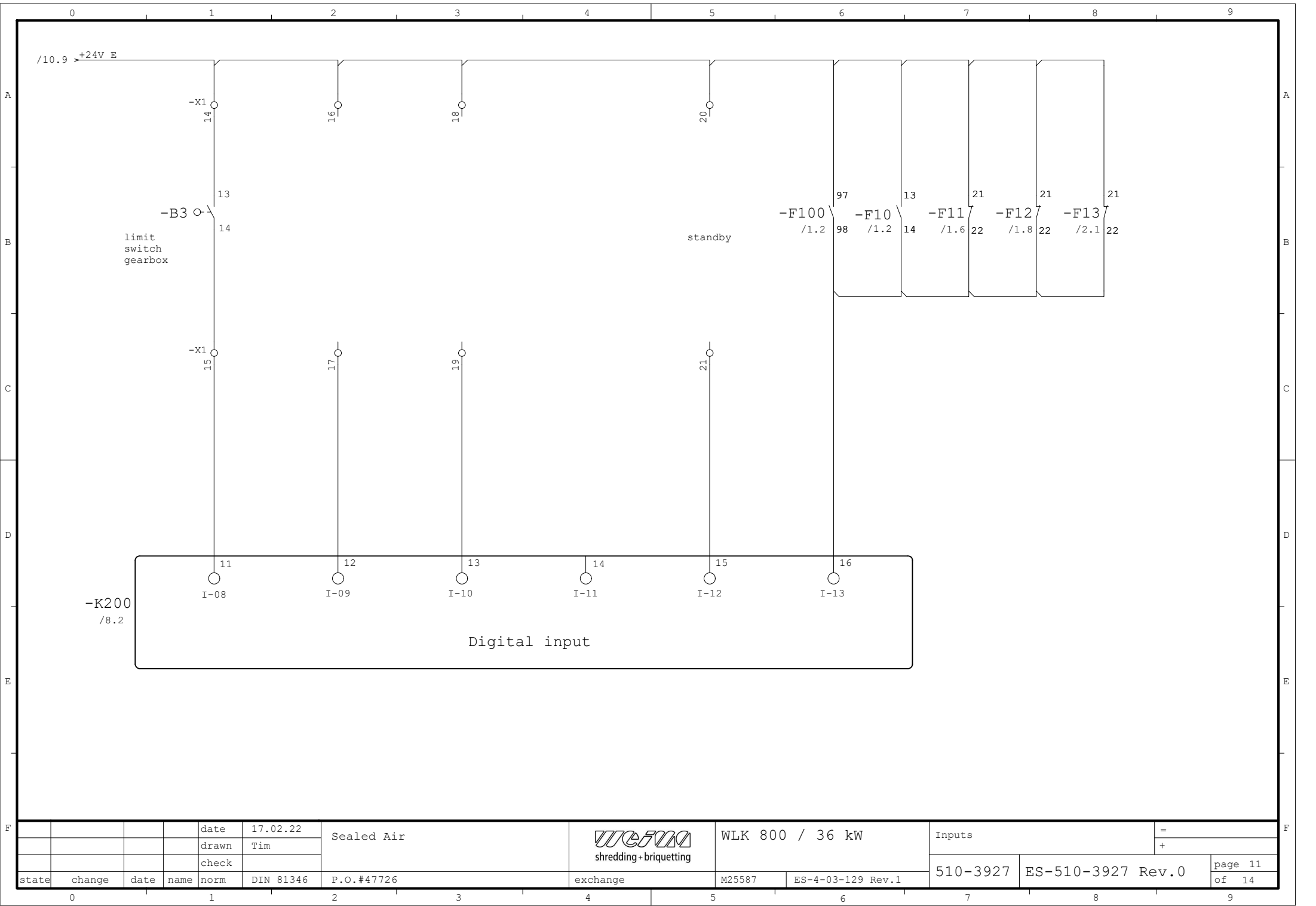
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				drawn	Tim							+	
				check									
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0		page 7 of 14



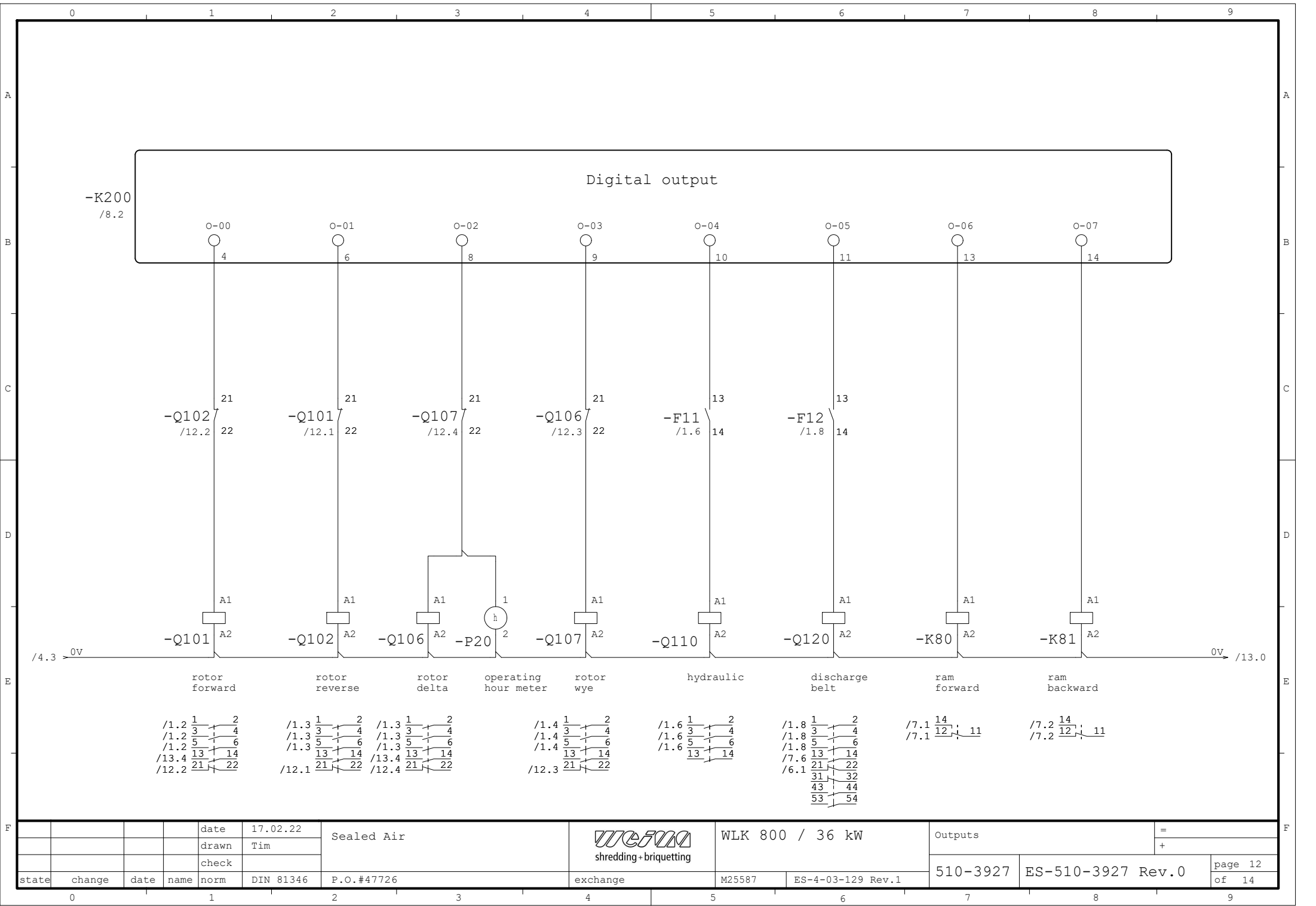




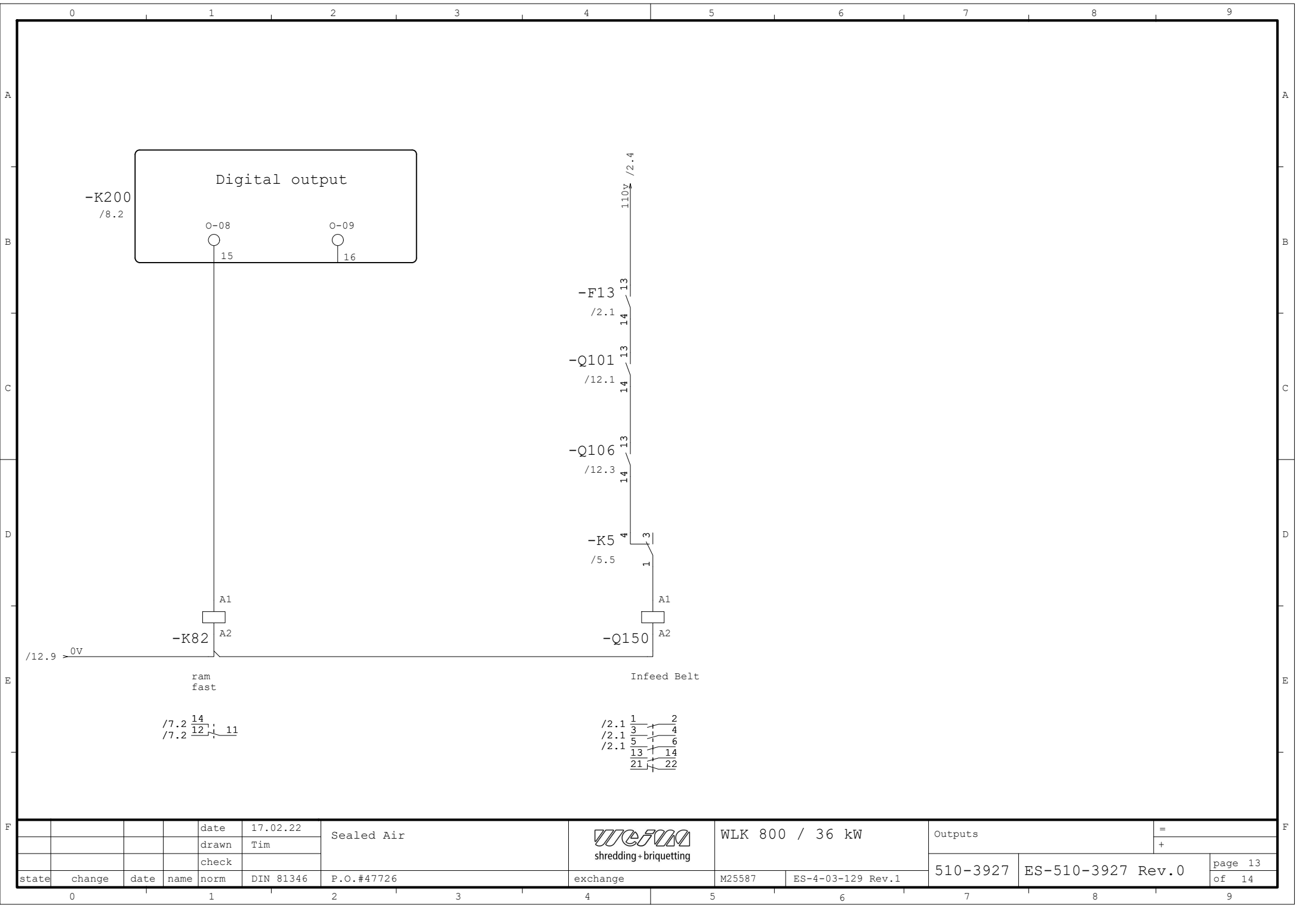
				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW	Inputs		=	
				drawn	Tim						+	
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 10 of 14



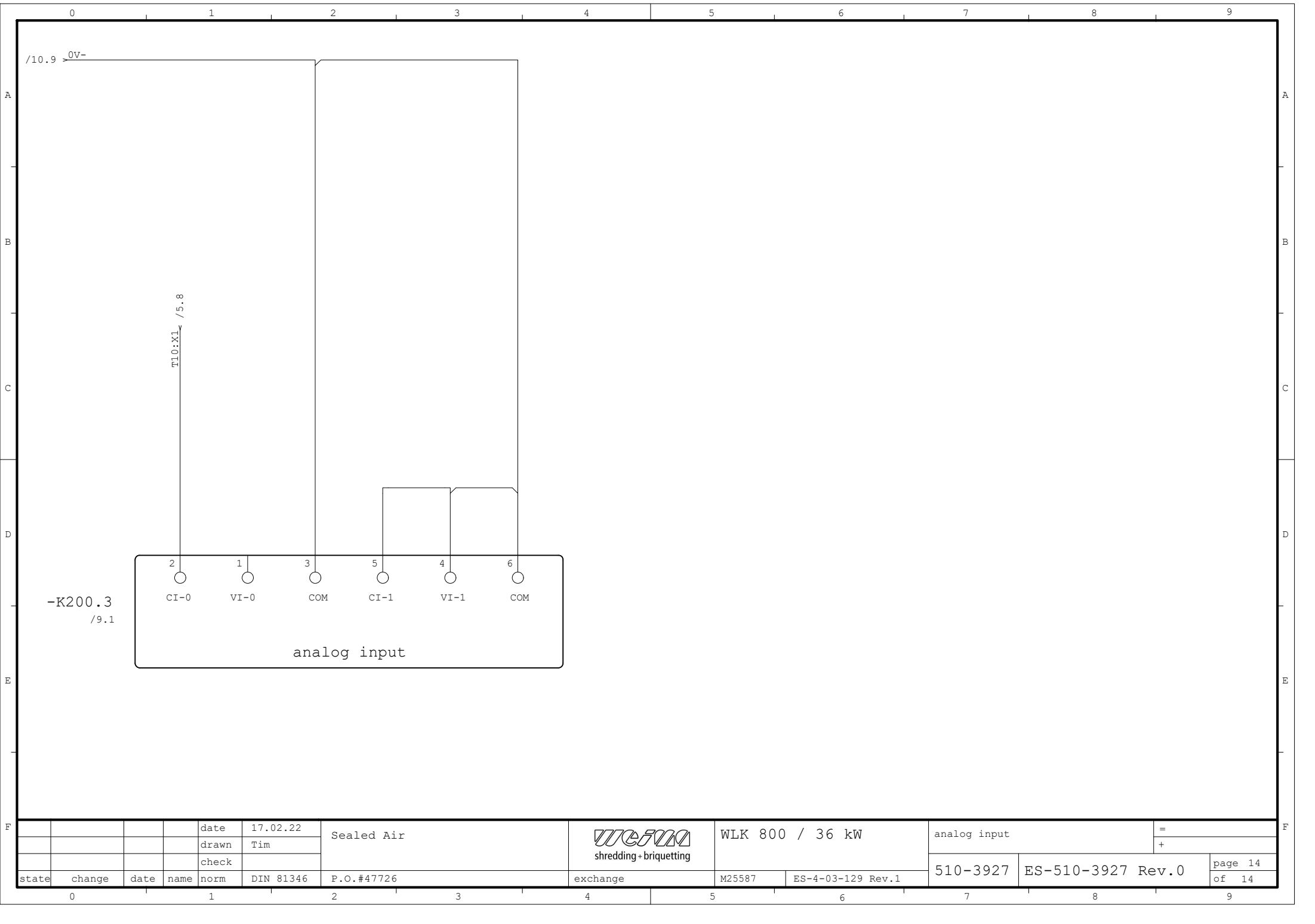
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				drawn	Tim						+	
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 11 of 14

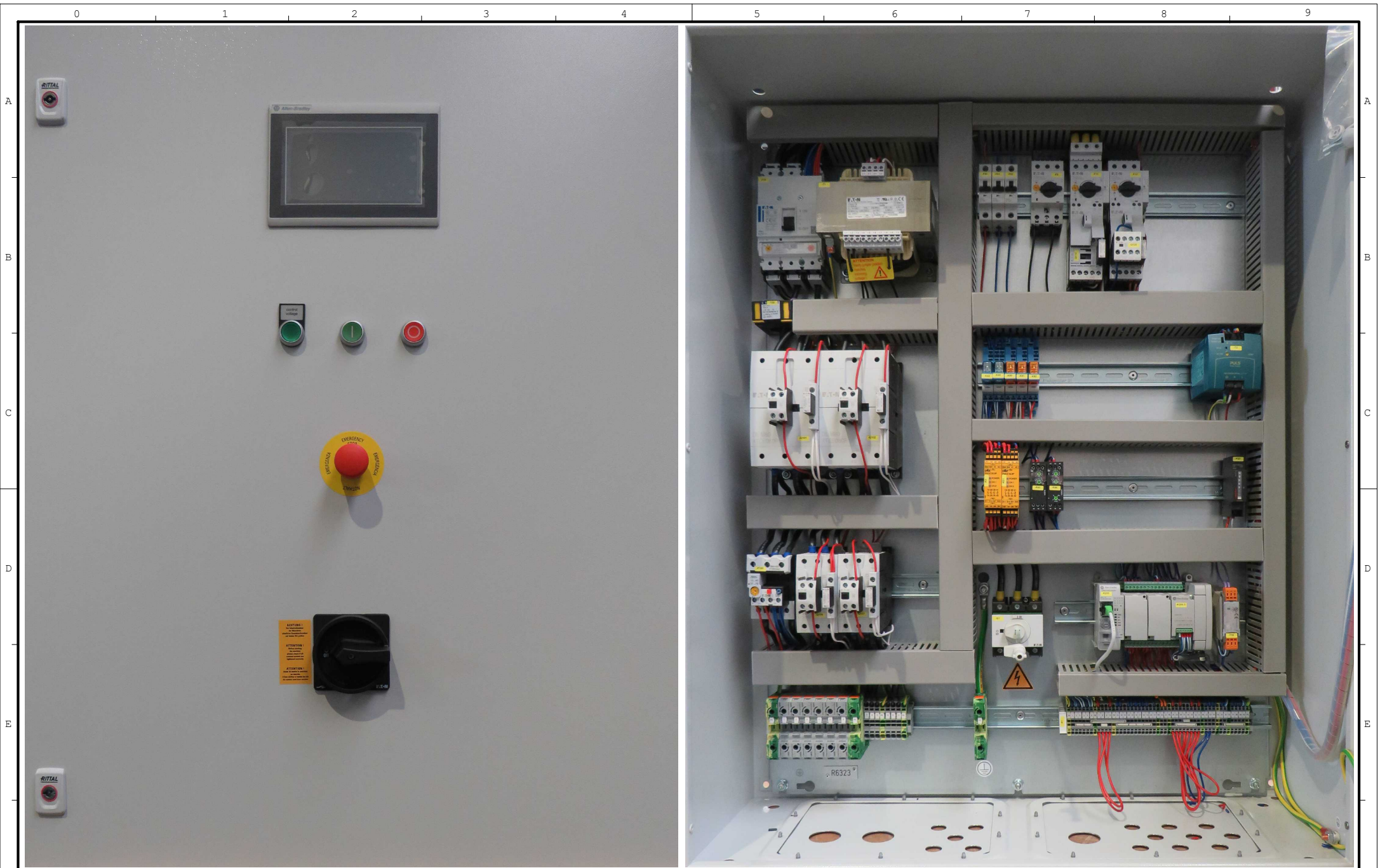


				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		Outputs		=	
				drawn	Tim							+	
				check									
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0		page 12 of 14



				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		Outputs		=
				drawn	Tim							+
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 13 of 14





F				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		Structure control panel		=		F
				drawn	Tim							+		
				check										
	state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587					
	0			1		2	3	4	5	6	7	8	9	

[illegible]

terminal plan: -X1		page 2	
mark internal name		connection	
jumper			
terminal number			
mark external name		connection	
cable name external			
-W5.1 2xAWG16 (1,5mm²)		1	
-W5.2 2xAWG16 (1,5mm²)		2	
-W5.3 2xAWG16 (1,5mm²)		1	
-W5.4 5xAWG16 (1,5mm²)		2	
-W10.1 4x0,34mm²		1	
-W11.1 3xAWG16 (1,5mm²)		2	
-W3.1 12xAWG16 (1,5mm²)		1	
-W3.2 5xAWG16 (1,5mm²)		2	

Cable list													page: 1	
No.	line designation			function text				line typ			field	remark		
1	-W1.1			rotor				JZ-602 7xAWG6			-M10			
2	-W1.2			hydraulic				JZ-602 4xAWG14			-M11			
3	-W1.3			auger discharge				JZ-602 4xAWG14			-M12			
4	-W3.1			panel screen				JZ-602 12xAWG16			-S01			
5	-W3.2			emergency stop ext.				JZ-602 5xAWG16			-S02			
6	-W5.1			ram forward				OZ-602 2xAWG16			-K180			
7	-W5.2			ram backward				OZ-602 2xAWG16			-K181			
8	-W5.3			ram fast				OZ-602 2xAWG16			-K182			
9	-W5.4			safety switch screen				JZ-602 5xAWG16			-B2			
10	-W6.3			light barrier transmitter				LiYY-0 2x0,25mm²			-B44			
11	-W6.4			light barrier receiver				LiYY-0 2x0,25mm²			-B45			
12	-W10.1			pressure switch				M12x1; 4x0,34mm²			-B15			
13	-W11.1			limit switch gearbox				JZ-602 3xAWG16			-B3			

Parts list

Ref. name	Page Path	Amount	name	item-number	Manufacturer
-Q1	/1.0	1	main switch black	P3-100/M4/SVB-SW	EATON
-T20	/1.2	1	current transformer	AST315 75/5A 1,5VA Kl.1	Celsa
-F10	/1.2	1	protective switch 3p,motor	NZMB1-S63-CNA+M22-K10+M22-K10	EATON
-F100	/1.2	1	Motor protective switch 24 -40A	ZB65-40	EATON
-F11	/1.6	1	Motor protective switch 3p, manually operated	PKZM0-2,5	EATON
-F11	/1.6	1	auxiliary switch 1NO1NC	NHI11-PKZ0	EATON
-F12	/1.8	1	Motor protective switch 3p, manually operated	PKZM0-2,5	EATON
-F12	/1.8	1	auxiliary switch 1NO1NC	NHI11-PKZ0	EATON
-F13	/2.1	1	Motor protective switch 3p, manually operated	PKZM0-2,5	EATON
-F13	/2.1	1	auxiliary switch 1NO1NC	NHI11-PKZ0	EATON
-F5	/2.3	1	Transformer protective switch 6,3A 3p	PKZM0-6,3-T	EATON
-T1	/2.3	1	Transformer 800VA	UTI0,8-115	EATON
-F80	/2.4	1	Fuse C-Char. 1p 6A	FAZ-C6/1	EATON
-F82	/2.6	1	Fuse C-Char. 1p 2A	FAZ-C2/1	EATON
-F81	/2.6	1	Fuse C-Char. 1p 4A	FAZ-C4/1	EATON
-T2	/2.6	1	MINILINE-Serie 100W	ML100.100	Puls
-S0	/3.1	1	emergency stop button	M22-PV	EATON
-S0	/3.1	2	Contact element 1NC front	M22-K01	EATON
-S0	/3.1	1	Mounting adapter	M22-A	EATON
-K0	/3.1	1	Emergency stop relay 24-240VAC/DC	PNOZ X2.8P 24-240VAC/DC 3S/10	Pilz
-SP3	/3.2	1	Lighted push button, green 1S, LED 24VDC green	M22-DL-G	EATON
-SP3	/3.2	1	LED element green front LED 24VDC	M22-LED-G	EATON
-SP3	/3.2	1	Contact element 1NO front	M22-K10	EATON
-SP3	/3.2	1	Mounting adapter	M22-A	EATON
-K01	/4.1	1	Emergency stop relay 24-240VAC/DC	PNOZ X2.8P 24-240VAC/DC 3S/10	Pilz
-K5	/5.5	1	Controller light barrier 1W 24VDC	PA 11 A 303 T	TELCO
-B45	/5.6	1	light barrier receiver	LR-100L-TS 38-5	TELCO
-B44	/5.6	1	light barrier transmitter	LT-100L-TS 38-5	TELCO
-T10	/5.8	1	Current-measuring transducer	ACT20P-CML-10-AO-RC-P	Weidmüller
-SP10	/6.1	1	Illuminated pushbutton flat, white, blank	M22-DL-W	EATON
-SP10	/6.1	1	Contact element 1NO bottom	M22-KC10	EATON
-SP10	/6.1	1	LED element, bottom white	M22-LEDC-W	EATON
-K42	/6.1	1	putting/print relay 1W voltage 230V AC	40.31.8.230.2000	Finder
-K42	/6.1	1	LED + Varistor 110-240VAC/DC	99.02.0.230.98	Finder
-K42	/6.1	1	Socket 1CO Push-In	94.P3	Finder
-K42	/6.1	1	Variclip	095.91.3	Finder

				date	17.02.22	Sealed Air	 shredding+briquetting	WLK 800 / 36 kW	bill of material		=	
				drawn	Tim						+	
				check								
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 1 of 3

Parts list

Ref. name	Page Path	Amount	name	item-number	Manufacturer
-K43	/6.2	1	Multi-time relay V2ZE10 24-240V AC/DC	V2ZE10	Tele Steuergerät
-K44	/6.2	1	Multi-time relay V2ZQ10 24-240V AC/DC	V2ZQ10	Tele Steuergerät
-K45	/6.3	1	putting/print relay 2W voltage 230V AC	40.52.8.230.2000	Finder
-K45	/6.3	1	LED + Varistor 110-240VAC/DC	99.02.0.230.98	Finder
-K45	/6.3	1	Socket 2CO Push-in terminals	94.P5	Finder
-K45	/6.3	1	Variclip	095.91.3	Finder
-B2	/7.3	1	saftey switch AZM 161SK	AZM 161SK-12/12RK-024	Schmersal
-A1	/8.1	1	PANELVIEW 800 7-INCH HMI TERMINAL	2711R-T7T	Rockwell
-K200	/8.2	1	Micro850 24 I/O EtherNet/IP Controller	2080-LC50-24QWB	Rockwell
-K200.3	/9.1	1	Micro800 2 Point Analog Input Plug-In	2080-IF2	Rockwell
-S1	/10.1	1	Push button flat,red 0,front	M22-D-R-X0	EATON
-S1	/10.1	1	Contact element 1NC front	M22-K01	EATON
-S1	/10.1	1	Mounting adapter	M22-A	EATON
-S2	/10.2	1	Push-button flat green I	M22-D-G-X1	EATON
-S2	/10.2	1	Contact element 1NO front	M22-K10	EATON
-S2	/10.2	1	Mounting adapter	M22-A	EATON
-B15	/10.8	1	Pressure sensor 0...250bar, 1 switching output	PK5521	IFM
-B3	/11.1	1	limited switch ts 336-11z	24V7H 336-11Z-M20	Schmersal
-Q101	/12.1	1	Contact, 3p, 37kW/400V/AC3	DILM80 (110V50/60HZ)	EATON
-Q101	/12.1	1	Power contactor, auxiliary switch, 2 pol.	DILM150-XHI11	EATON
-Q102	/12.2	1	Contact, 3p, 37kW/400V/AC3	DILM80 (110V50/60HZ)	EATON
-Q102	/12.2	1	Power contactor, auxiliary switch, 2 pol.	DILM150-XHI11	EATON
-Q106	/12.3	1	Main contactor, 22kW/400V, AC-operated	DILM50 (110V50/60HZ)	EATON
-Q106	/12.3	1	Power contactor, auxiliary switch, 2 pol.	DILM150-XHI11	EATON
-P20	/12.3	1	operating hours meter TBW70.18 115V 60Hz	711437	Tele Steuergerät
-Q107	/12.4	1	Contact 3P,AC-3 18,5kW/400V	DILM40 (110V50/60Hz)	EATON
-Q107	/12.4	1	Power contactor, auxiliary switch, 2 pol.	DILM150-XHI11	EATON
-Q110	/12.5	1	Main contactor 3P+1S,AC-3 4kW/400V	DILM9-10 (110V50/60HZ)	EATON
-Q120	/12.6	1	Main contactor 3P+3S+2O,AC-3 4kW/400V	DILM9-32 (110V50/60HZ)	EATON
-K80	/12.7	1	putting/print relay 1W voltage 230V AC	40.31.8.230.2000	Finder
-K80	/12.7	1	LED + Varistor 110-240VAC/DC	99.02.0.230.98	Finder
-K80	/12.7	1	Socket 1CO Push-In	94.P3	Finder
-K80	/12.7	1	Variclip	095.91.3	Finder
-K81	/12.8	1	putting/print relay 1W voltage 230V AC	40.31.8.230.2000	Finder
-K81	/12.8	1	LED + Varistor 110-240VAC/DC	99.02.0.230.98	Finder
-K81	/12.8	1	Socket 1CO Push-In	94.P3	Finder

				date	17.02.22	Sealed Air	 shredding+briquetting	WLK 800 / 36 kW	bill of material		=	
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The emergency stop switches the control voltage and all motors off and disturbances will be reseted.



The control voltage must be switched on after emergency stop or main switch on. The grinder can only start with control voltage on.



The shredding machine can be started using the Rotor ON pushbutton. The hydraulic system is switched on automatically when the Rotor ON button is pressed.



The shredding machine can be switched off using the Rotor OFF button.

				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		Control elements		=	
				drawn	Tim							+	
				check								page 1	
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0		of 2



With switched off machine unblocking screen door of the safety switches at the screen can with the key are unlocked. The key operated flash the shining push button, at expiration of a deceleration time the key shines, now can the screen door be opened. Through operate the emergency stop of switch the unblocking back one sets.

				date	17.02.22	Sealed Air	 shredding + briquetting	WLK 800 / 36 kW		Control elements		=	
				drawn	Tim							+	
				check									
state	change	date	name	norm	DIN 81346	P.O.#47726	exchange	M25587	ES-4-03-129 Rev.1	510-3927	ES-510-3927 Rev.0	page 2	of 2