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SCHULZ
 COMPRESSORS

SRP4008E 220V PD 50/60HZ - CONTROL I
 814.0396-0

APPROVED	S.A.P.	Nº	DRAWN	PG	CO	DATE	REVIEW
...	...	00	ANDERSON,SE	01/03/2019	DRAWING RELEASE
...
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SCHULZ
 SRP4008E 220V PD 50/60HZ - CONTROL I



DRAWN	NAME	DATE
CHECKED	ANDERSON,SE	28/07/2019
APPROVED	IBERVALDO,CO	01/03/2019
	CARLOS,RR	07/03/2019

Title Page
 CODE: 814.0396-0

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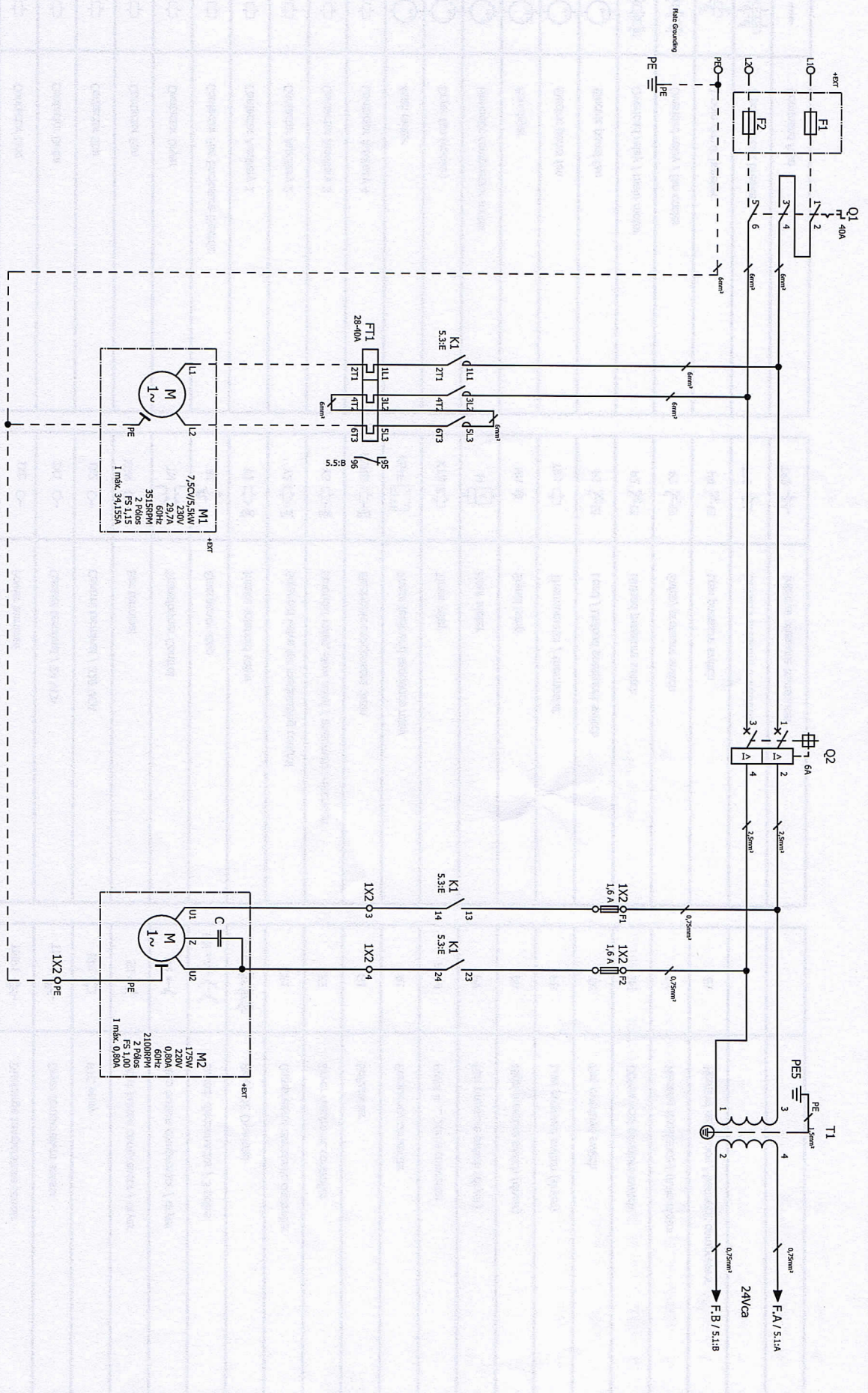
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SRP400BE 220V PD 50/60Hz - CONTROL 1				CHECKED IDEBALUO CO 01/03/2019		PROJ. CODE: 814.0396-0		PAGE 2 / 5	
				APPROVED CARLOS BR 07/03/2019					

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Component	Description	Component	Description	Component	Description
K1	Contactor Line	1X0	Power terminal	TMP1	Discharge temperature sensor
K2	Contactor Delta	1X1	Control terminal / 24 VCA	TMP2	Dryer temperature sensor
K3	Contactor Star	1X2	Control terminal / 220 VCA	KP1	PTC relay
K4	Contactor Fan	XSN	Bar terminal	S1	Start button compressor / dryer
K5	Contactor Dryer	TN	Transformer Control	S2	Stop button compressor / dryer
K6	Contactor Fan Enclosure Electric	B1	Emergency stop	QN	Switch disconnecter / 3 poles
KA1	Contactor Auxiliary 1	Y1	Intake solenoid valve	FTN	Relay DE Overload
KA2	Contactor Auxiliary 2	Y2	Solenoid valve for modulating control	CE1	Compressor electronic controller
KA3	Contactor Auxiliary 3	Y3	Solenoid valve, slow relief / pneumatic retention	CE2	Dryer electronic controller
KA4	Contactor Auxiliary 4	PURG	Electronic condensate drain	G1	Softstarter
M1	Main motor	KSFF	Phase fault and sequence relay	A1	Frequency converter
M2	Dryer fan (cooler)	KTN	Timer relay	PWM	PWM 4 ... 20ma converter
M3	Hermetic compressor motor	H	Hour meter	PV	Fan pressure switch (dryer)
M4	Fan dryer	HN	Signal lamp	PA	High pressure switch (dryer)
M5	Electric panel fan	TR1	Thermometer / thermostat	PB	Low pressure switch (dryer)
M6	Electric panel fan	P1	Load / Unload pressures switch	TK	Fan overload switch
FT1	Overload relay / main motor	P2	Unload pressure switch	IM	Differential pressure switch
FT2	Overload relay / fan cooler	P3	Safety pressure switch	R1	Heating resistance / main motor
QN	1-pole circuit breaker	P4	Low pressure switch	E1	Heating resistance / hermetic compressor
QN	2 poles circuit breaker	TP1	Delivery pressure transducer		
FN	Command fuse	TP2	Internal pressure transducer		

SCHULZ		SCHULZ COMPRESSORES	
SRM4008E 220V PD 50/60Hz - CONTROL 1		DRAWN: ANDERSON, SE 28/03/2019	
		CHECKED: IBERALDO, CI 01/03/2019	
		APPROVED: CARLOS, BR 07/03/2019	
Legend		SCALE: 1: 1	
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Power supply - 1-220Vca - 50/60Hz	Switch disconnector (Q1)	Main motor (M1)		Command circuit breaker (Q2)	Fan motor cooler (M2)	Command transformer 220-24Vca (T1)	
		Overload relay (FT1)					



M1 4xRT

7.50Q/5.5kW
230V
29.7A
60Hz
351 SRPM
2 Polos
F5 1,15
1 msk. 3/155A

M2 4xRT

1.7kW
220V
0.80A
60Hz
2100RPM
2 Polos
F5 1,00
1 msk. 0,50A

SCHULZ
SRP400BE 220V PD 50/60Hz - CONTROL 1

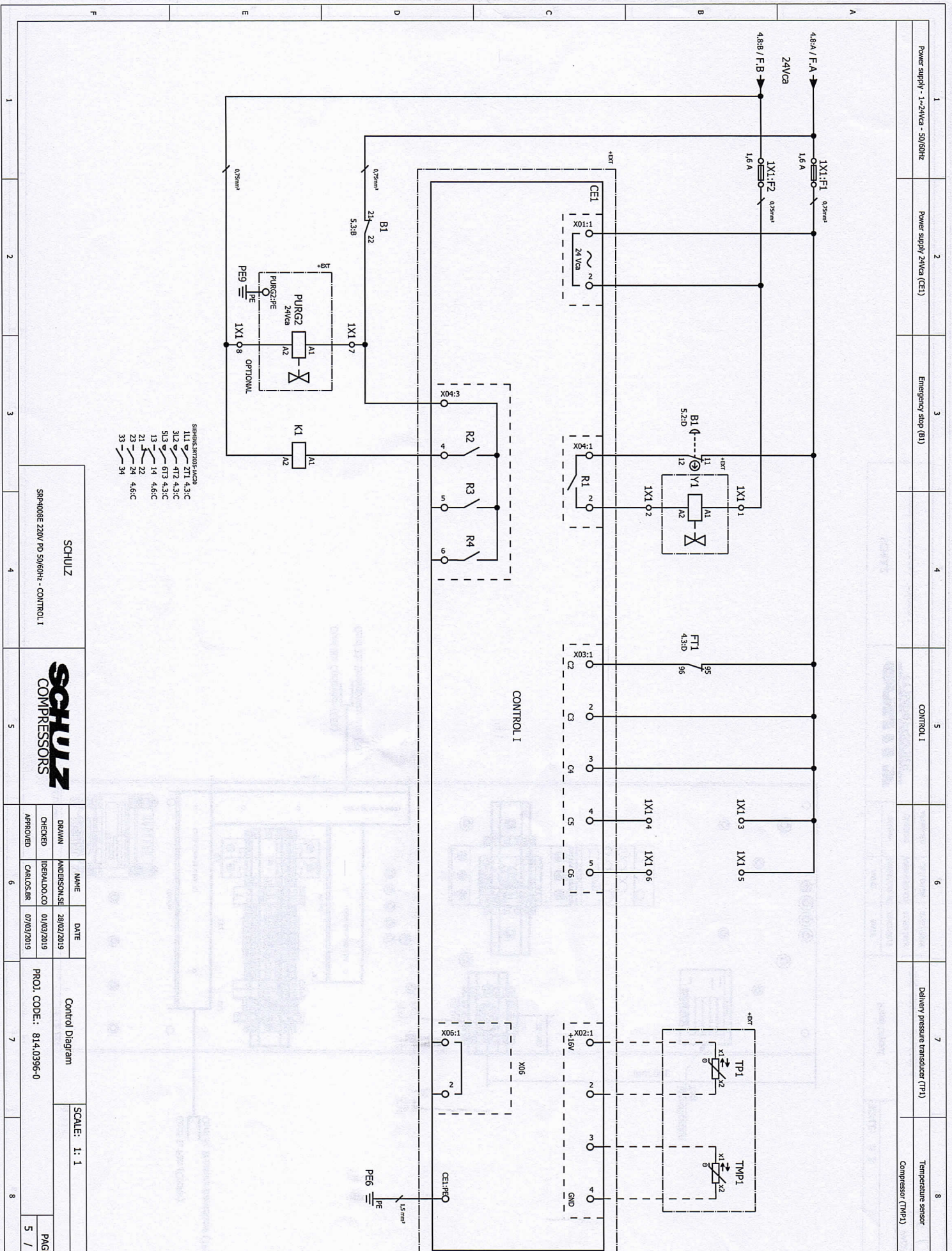


DRAWN	ANDERSON,SE	DATE	28/02/2019
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APPROVED	CARLOS,BR	DATE	07/03/2019

Power Diagram
PROJ. CODE.: 814.0396-0

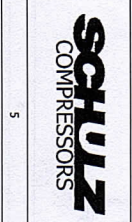
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1	2	3	4	5	6	7	8
Power supply - 1-24Vca - 50/60Hz	Power supply 24Vca (CE1)	Emergency stop (B1)		CONTROL I		Delivery pressure transducer (TP1)	Temperature sensor (TMP1)

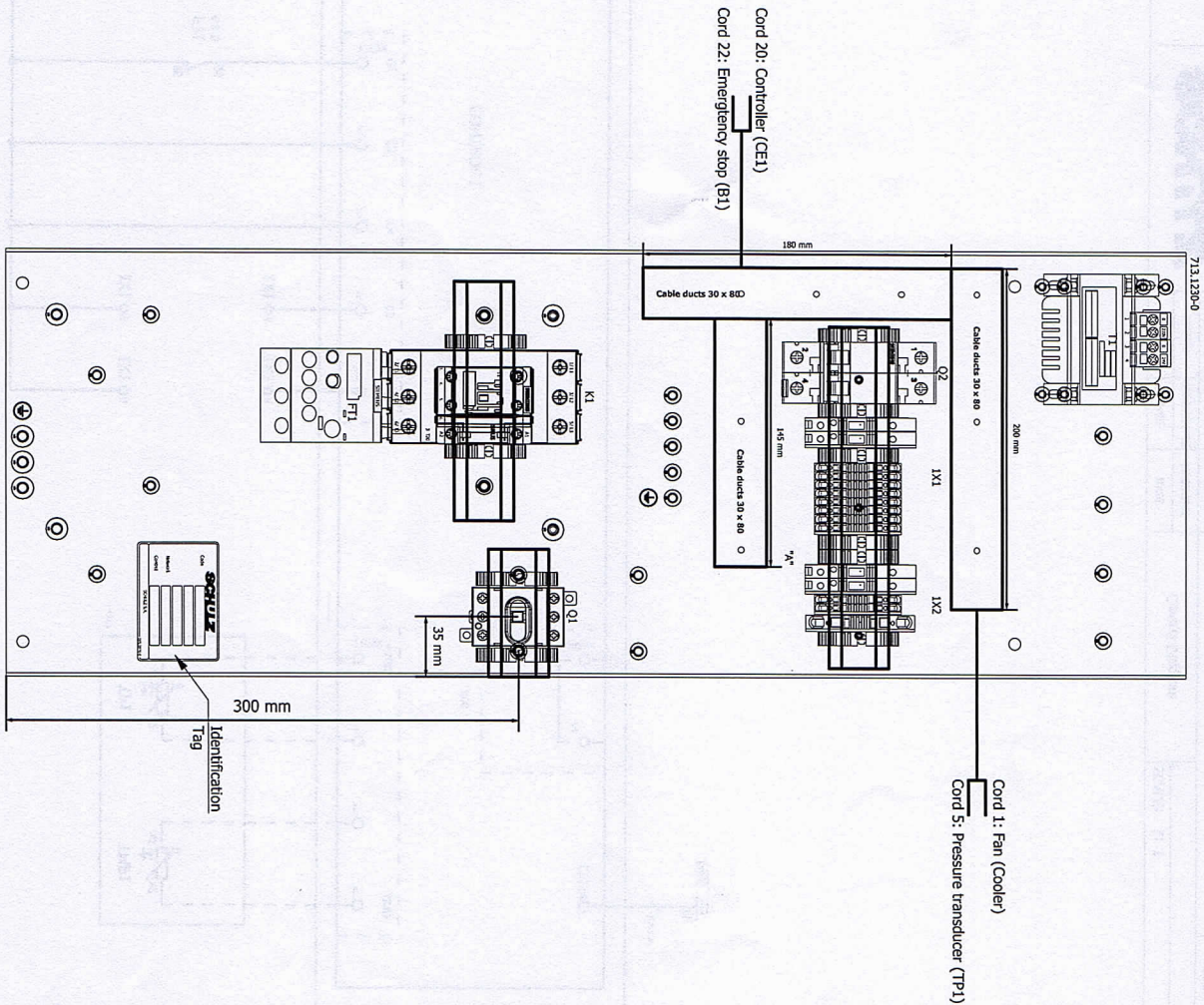
SCHULZ
SRP400BE 22kW Pd 50/60Hz - CONTROL I



NAME	DATE
DRAWN ANDERSON,SE	28/02/2019
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APPROVED CARLOS,RR	07/03/2019

Control Diagram
PR01, CODE: 814.0396-0

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SCHULZ

SHP400E 220V PD 50/60Hz - CONTROL 1

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APPROVED	07/03/2019

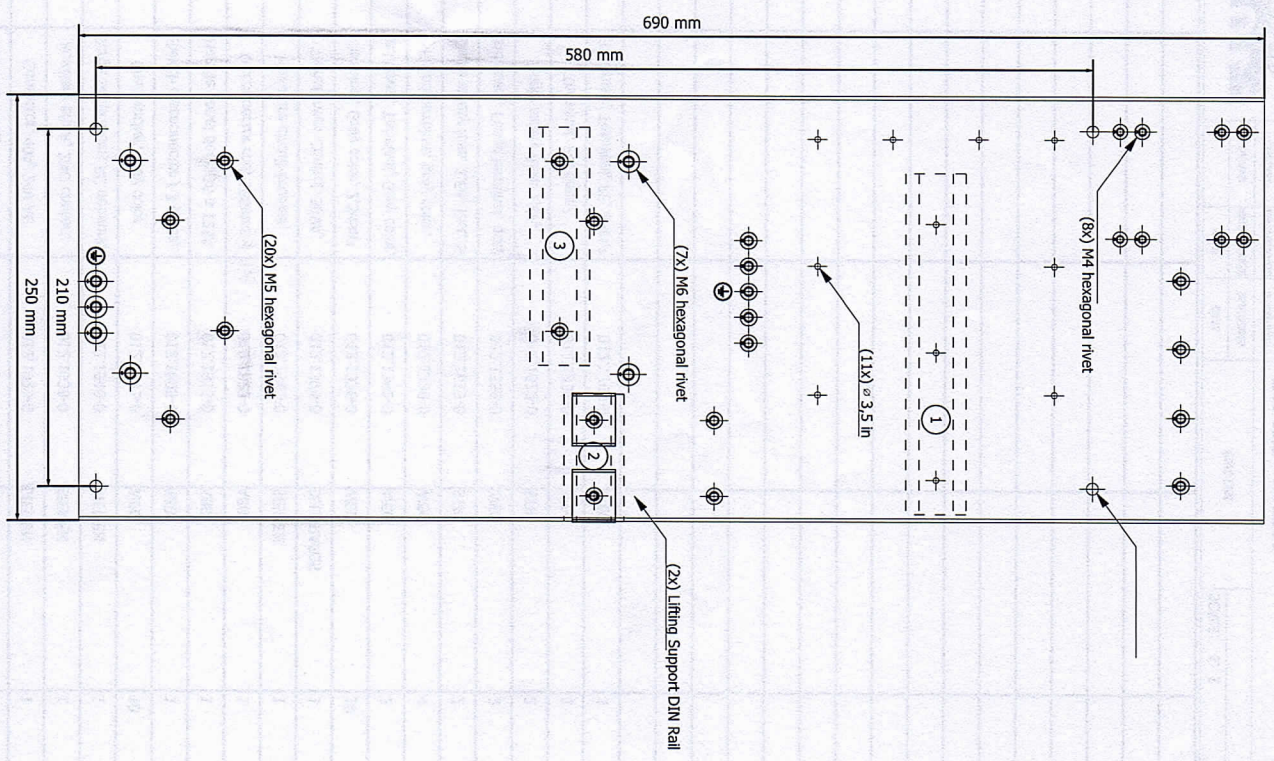
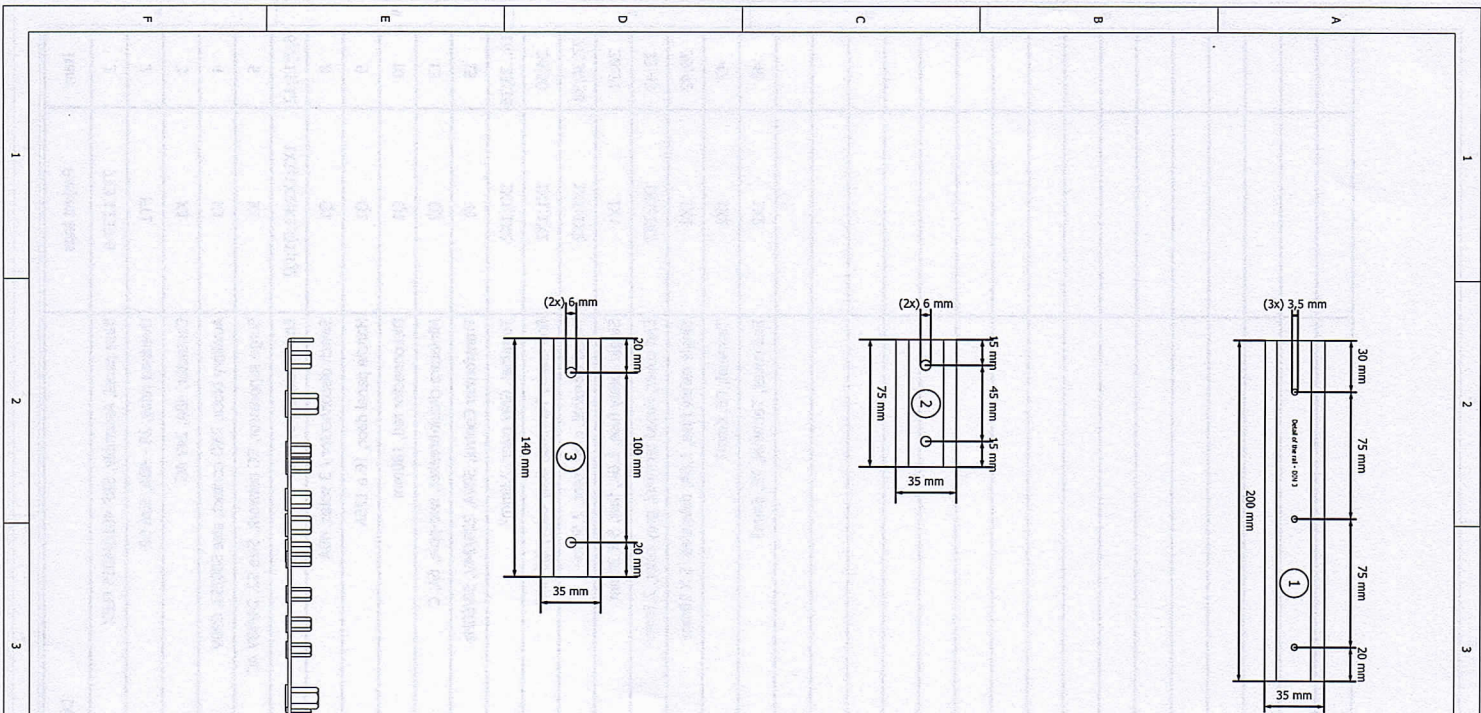
Panel Layout

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SCHULZ
SRP400BE 220V PD 50/60Hz - CONTROL 1



NAME	DATE
DRAWN ANDERSON SE	28/02/2019
CHECKED IDEBALDO CO	01/03/2019
APPROVED CARLOS RR	07/03/2019

Mounting Plate Layout
PROJ. CODE.: 814.0396-0

SCALE: 1: 3

Item	Project tags	Description	Manufacturer's code	Schulz code	Manufacturer	Quantity
1	713.1230-0	Base panel, Assembly, SRP 40/10/4015 FLEX	Base panel, Assembly, SRP	713.1230-0	LASERVILLE	1
2	FT1	Overload relay, 28 - 40A, Size S2	Overload relay, 28 - 40A, Size	012.1957-0	SIEMEN	1
3	K1	Contactor, 40A, 24V AC	Contactor, 40A, 24V AC	012.1929-0	SIEMEN	1
4	K1	Auxiliary block, 2NO contact, size S00/S3, 690V	Auxiliary block, 2NO contact,	012.1938-0	SIEMEN	1
5	K1	Surge suppressor, RC network, Size S2, 24/48V AC	Surge suppressor, RC network,	012.1948-0	SIEMEN	1
6/7/11/12	1X1;1X2;K1;Q1;Q2	End bracket, gray color	End bracket, gray color	012.1341-0	MEG	10
8	Q1	Switch disconnecter / 3 poles, 40A	Switch disconnecter / 3 poles,	012.1805-0	ABB	1
9	Q1	Handle panel door, 16 a 125A	Handle panel door, 16 a 125A	012.1815-0	ABB	1
10	Q1	Disconnecter rod, 180mm	Disconnecter rod, 180mm	012.1822-0	ABB	1
13	Q2	Miniature circuit-breaker, two-pole, 6A, C	Miniature circuit-breaker,	012.1962-0	SIEMEN	1
15	T1	Transformer Control, 50VA, 220/24V, 50/60Hz	Transformer Control, 50VA,	012.1374-0	BLUTHAFOS	1
16..23/36	1X1;1X2	Terminal, Gray color, 2,5mm ²	Terminal, Gray color, 2,5mm ²	012.1336-0	MEG	10
24/50	1X1;1X2	End cover, Terminal, Gray color, 2,5mm ²	End cover, Terminal, Gray color,	012.1342-0	MEG	2
27/30/38	1X1;1X2	Fused terminal, gray color, 2,5mm ²	Fused terminal, gray color,	012.1339-0	MEG	4
28/31	1X1	Single safety fuse, 1,6A, fast, 5 X 20mm	Single safety fuse, 1,6A, fast, 5	012.1613-0	STP	2
32/43	1X1;1X2	End cover, Fused terminal, gray color, 2,5mm ²	End cover, Fused terminal, gray	012.1386-0	MEG	2
39/42	1X2	Single safety fuse, 1,6A, delayed, 5 X 20mm	Single safety fuse, 1,6A,	012.1622-0	STP	2
47	1X2	Terminal, PE, 6mm ²	Terminal, PE, 6mm ²	012.1338-0	MEG	1
48	1X2	End cover, Terminal, PE, 6mm ²	End cover, Terminal, PE, 6mm ²	012.1343-0	MEG	1

SCHULZ
SRP4008E 220V PD 50/60Hz - CONTROL 1



NAME	ANDERSON,SE	DATE	29/02/2019
DRAWN	ANDERSON,SE	CHECKED	IDEFALDO,CO
APPROVED	CALZAS,RR		07/03/2019

Part List
PROJ. CODE.: 814.0396-0

SCALE: 1: 1

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1	2	3	4	5	6	7	8
Project tags	Description	Project tags	Description				
713.1230-0	Base panel, Assembly, SRP 4010/4015 FLEX						
FT1	Overload relay, 28 - 40A, Size S2						
K1	Contactor, 40A, 24V AC						
Q1	Switch disconnector / 3 poles, 40A						
Q2	Miniature circuit-breaker, two-pole, 6A, C						
T1	Transformer Control, 50VA, 220/24V, 50/60Hz						
1X1	Terminal, Gray color, 2,5mm ²						
1X1	Terminal, Gray color, 2,5mm ²						
1X1	Terminal, Gray color, 2,5mm ²						
1X1	Terminal, Gray color, 2,5mm ²						
1X1	Terminal, Gray color, 2,5mm ²						
1X1	Terminal, Gray color, 2,5mm ²						
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1X1	Terminal, Gray color, 2,5mm ²						

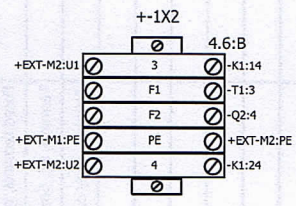
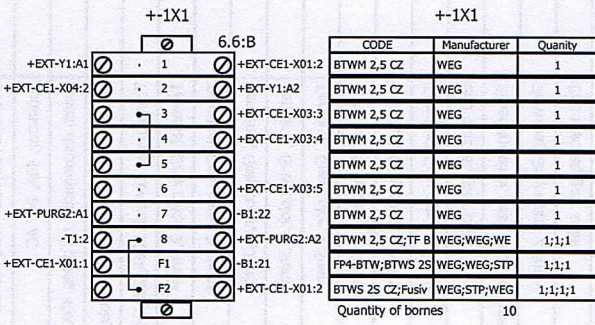
SCHULZ
 SRP4008E 220V PD 50/60Hz - CONTROL 1



DRAWN	ANDERSON, SE	DATE	28/02/2019
CHECKED	IDRIBALDO, CO		01/03/2019
APPROVED	CARLOS, BR		07/03/2019

Device tag list
 PROJ. CODE : 814.0396-0

SCALE : 1 : 1



CODE	Manufacturer	Quantity
BTWM 2,5 CZ	WEG	1
FP4-BTW;BTWS 2S	WEG;WEG;STP	1;1;1
BTWS 2S CZ;Fusiv	WEG;STP;WEG	1;1;1
BTWM 6T;TF BTW	WEG;WEG	1;1
BTWM 2,5 CZ;TF B	WEG;WEG	1;1

Quantity of bornes 5

SCHULZ
SFR400GE 220V Pd 50/60Hz - CONTROL 1



NAME	DATE
DRAWN ANDERSON,SE	28/02/2019
CHECKED IBERALDO,CO	01/03/2019
APPROVED CALLOS,SR	07/03/2019

Diagrama de bornes : ++1X1 :
++1X2
PROJ. CODE.: 814.0396-0

SCALE: 1: 1