



NEG MICON®
CONTROL SYSTEMS

Customer:
NEG MICON A/S

Project name:
**NM72/1650
NM82/1650
690V 50Hz
Active Stall
Single Speed
EVO II
Standard, Tropic,
Tropic -20 gr. & Arctic**

Project no:
Electrical diagrams

NEG MICON CONTROL SYSTEMS A/S
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DK-8450 HAMMEL
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MAIL@CONTROL-SYSTEMS.COM
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1	6011862 Plant Outline Item no.: None
2	6011876 Single Line Diagram Item no.: None
3	6012514 Main Panel +AT1 Item no.: 60096208
4	6012290 Control Panel +AT2 Item no.:
5	60097145 Arctic Comp. for Control Panel +AT2 Item no.: 600145
6	60097149 Kit for Service Lift Item no.: None
7	60017352 Kit for Modem, 600mm Panel Item no.: 60019676
8	60092032 Kit for CSL110, 600mm Panel Item no.: 60092032
9	6011999 PFC Panel +AT3 No Load Item no.: 60097570
10	6012008 PFC Panel +AT3, add on for Full Load Item no.: 60097568
11	6010123 Top Panel +AN1 Item no.: 60091121
12	6012952 Emergency Line Diagram Item no.: None
13	6010125 Operation Box +AN2 Item no.: 60019465
14	6012548 Motor Box +AN4 Item no.:
15	6010127 Top Box +AN5a for Shaft Brake Item no.: 60019463
16	6012953 Transformer Box +AN6 Item no.:
17	6010128 Hub Computer Panel +AK4 Item no.: 60019479
18	6010129 Hub Hatch Override Pendant Item no.: 60019481
19	6010130 Control Pendant Item no.: 60019483
20	6010131 Junction Box +AT6 Item no.: 60019734
21	6012547 Top Box +AN3b for NRG Wind Sensors IEC Item no.: 60019412
22	6012661 Nacelle Heater 2x10 kW Item no.: 60019632
23	6011910 Junction Box +AN8 Front End Item no.: 6011910
24	6012437 Motor Box +AN9 Rear End Item no.: 6012437
25	6012401 Junction Box +AN10 Item no.: 6012401
26	1000827 Table of Tightening Torques Item no.: None
27	
28	
29	
30	
31	



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Project

Main Overview Electrical Diagrams
NM72/1650 & NM82/1650
690V 50Hz, Active Stall
Single Speed, EVO II
Standard, Tropic, Tropic -20 gr. & Arctic

Customer



Version	Date	Uploaded	Approved	Designed	Approved
01	05.11.2003	INI	INI	CHO	CHO
02	01.12.2003	INI	INI	CHO	CHO

Drawings involved

Document No.:	Text:	Version Date:	Version No.:
6011862	Plant Outline	06.11.2003	02
6011876	Single Line Diagram	28.10.2003	02
6012514	Main Panel +AT1	25.10.2003	01
6012290	Control Panel +AT2	06.10.2003	01
6011999	PFC Panel +AT3 No Load	15.09.2003	01
6012008	PFC Panel +AT3 add on for Full Load	21.09.2003	01
6010123	Top Panel +AN1	29.10.2003	03
6012952	Emergency Line Diagram	05.11.2003	01
6010125	Operation Box +AN2	24.04.2003	01
6012548	Motor Box +AN4	29.10.2003	01
6010127	Top Box +AN5a for Shaft Brake	24.04.2003	01
6012953	Transformer Box +AN6	Under constr.	01
6010128	Hub Computer Panel +AK4	01.10.2003	04
6010129	Hub Hatch Override Pendant	14.05.2003	01
6010130	Control Pendant	14.05.2003	01
6010131	Junction Box +AT6	24.07.2003	02
6012547	Top Box +AN3b f. NRG Wind Sensors IEC	04.11.2003	01
6012661	Nacelle Heater 2x10 kW	08.10.2003	01
6011910	Junction Box +AN8 Front End	19.09.2003	01
6012437	Motor Box +AN9 Rear End	01.12.2003	02
6012401	Junction Box +AN10	11.11.2003	02
1000827	Table of Tightening Torques	21.08.2002	01

Parts lists involved (if they are found necessary to have in the book)

Document No.:	Text:	Version Date:	Version No.:
60096208	Main Panel +AT1	14.10.2003	01
60096681	Control Panel +AT2	16.09.2003	01
60097145	Arctic Comp. for Control Panel +AT2	02.10.2003	01
60097149	Kit for Service Lift	04.10.2003	01
60017352	Kit for Modem, 600mm Panel	30.10.2003	01
60092032	Kit for CSL110, 600mm Panel	17.09.2003	02
60096112	PFC Panel +AT3 No Load	06.11.2003	02
60097541	PFC Panel +AT3 add on for Full Load	12.11.2003	02
60091122	Top Panel +AN1	03.11.2003	03
60015692	Operation Box +AN2	14.03.2000	01
60097587	Motor Box +AN4	30.10.2003	01
60016447	Top Box +AN5a for Shaft Brake	12.12.2002	01
	Transformer Box +AN6	Under constr.	01
60017297	Hub Computer Panel +AK4	07.10.2003	04
60015993	Hub Hatch Override Pendant	07.10.2002	01
60015995	Control Pendant	23.07.2003	02
60017060	Junction Box +AT6	13.09.2002	01
60016180	Top Box +AN3b f. NRG Wind Sensors IEC	25.03.2002	01
60016183	Nacelle Heater 2x10 kW	07.12.2000	01
60096713	Junction Box +AN8 Front End	30.10.2003	01
60096719	Motor Box +AN9 Rear End	30.10.2003	01
60096720	Junction Box +AN10	30.10.2003	01

Change Info

Item no. **Item text:**
None Plant Outline NM72/82 690V 50Hz

Active revision for production

Drawing number: 6011862

Version	Date	Init./App.	Description of change since last revision
02	06.11.2003	ATM/ATM	All pages changed.

LST number: None

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

Material BOM number: None

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
01	28.07.2003	CHO/CHO	First version

LST number: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

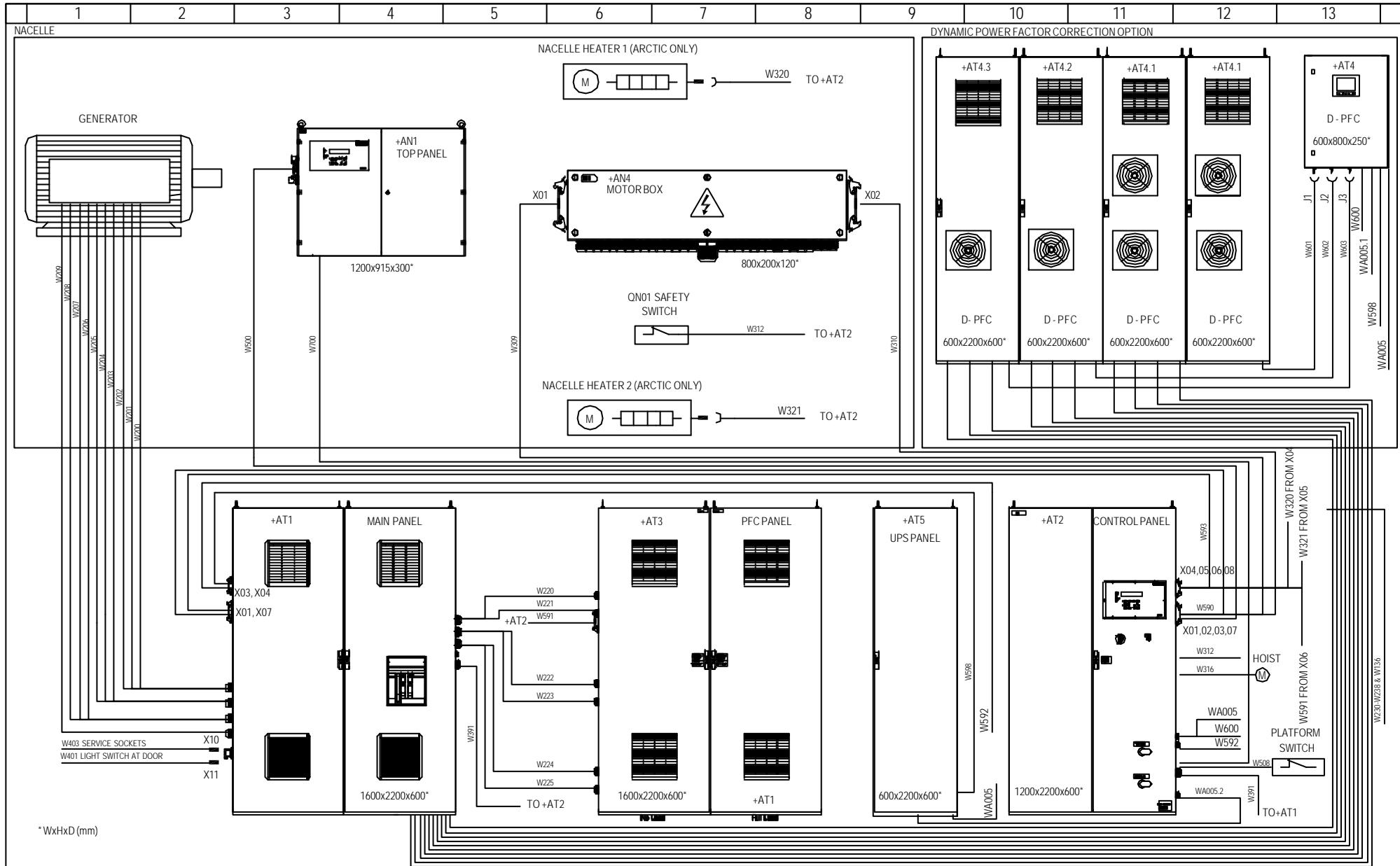
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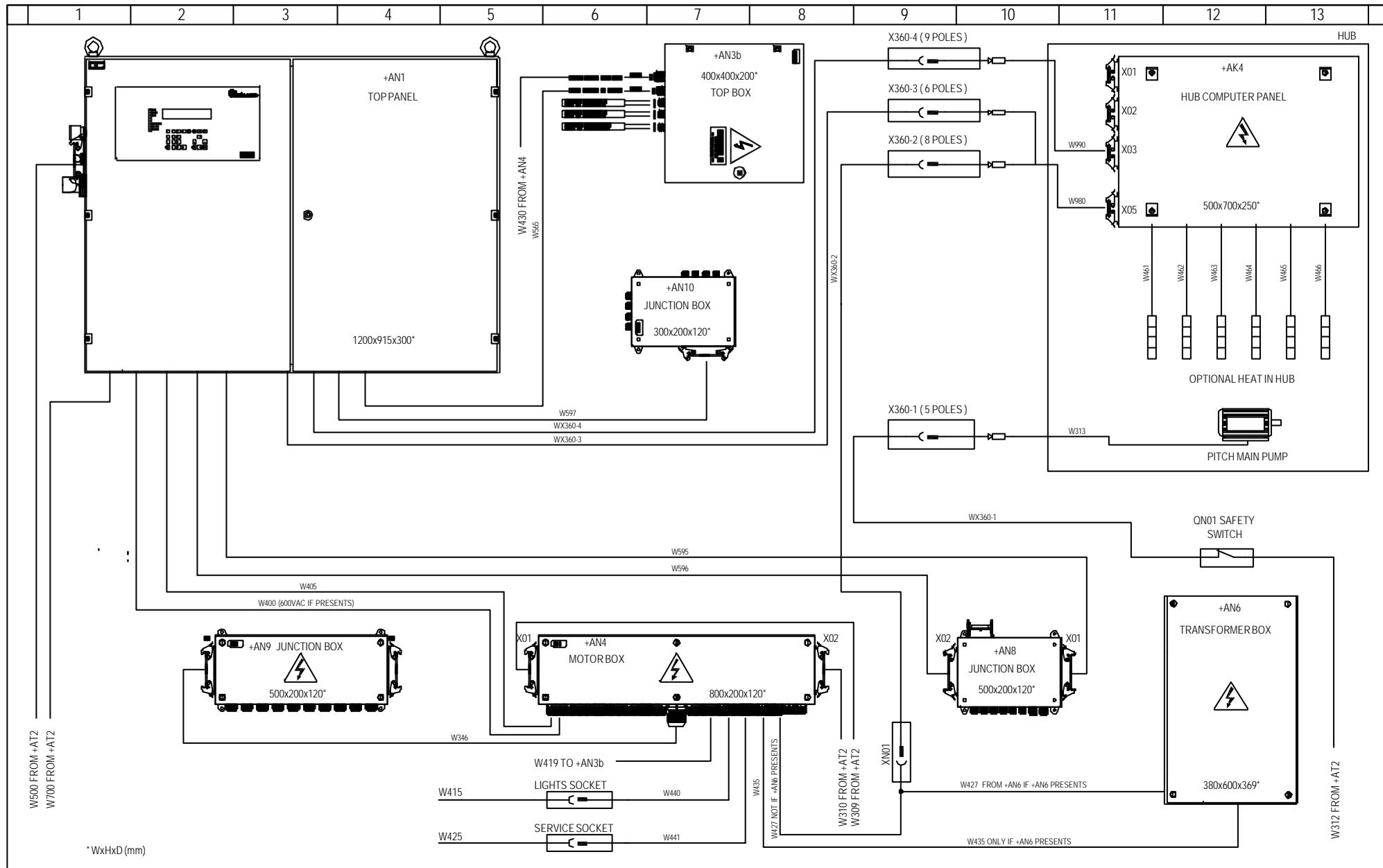
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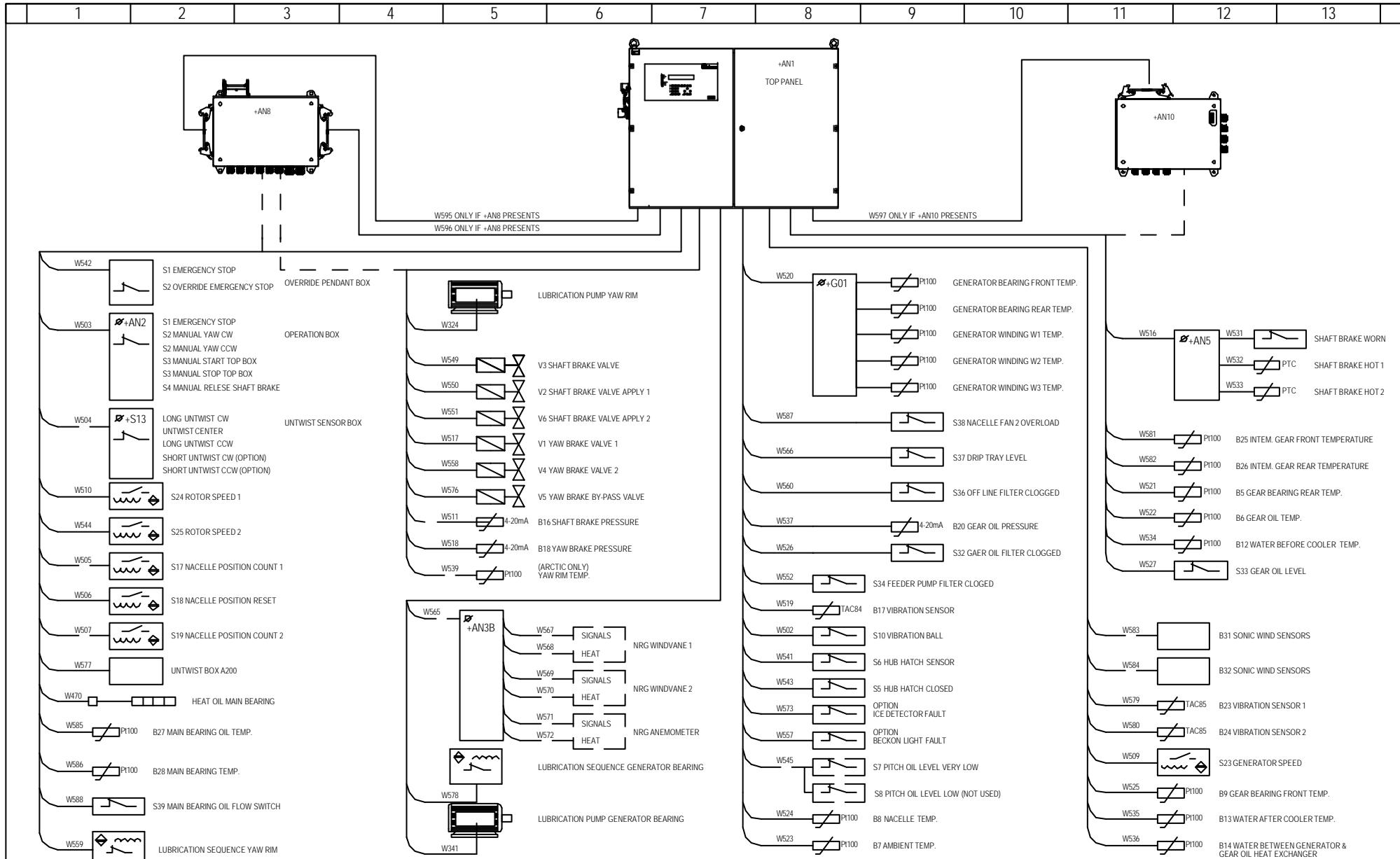


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	Date	Initials	Function	Table of contents						
Designed	031106	ATM	Project title	Plant Outline NM72/NM82 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031106	ATM	Rev.	02	Drawing no.	6011862	Cont. sheet	030	Sheet	001

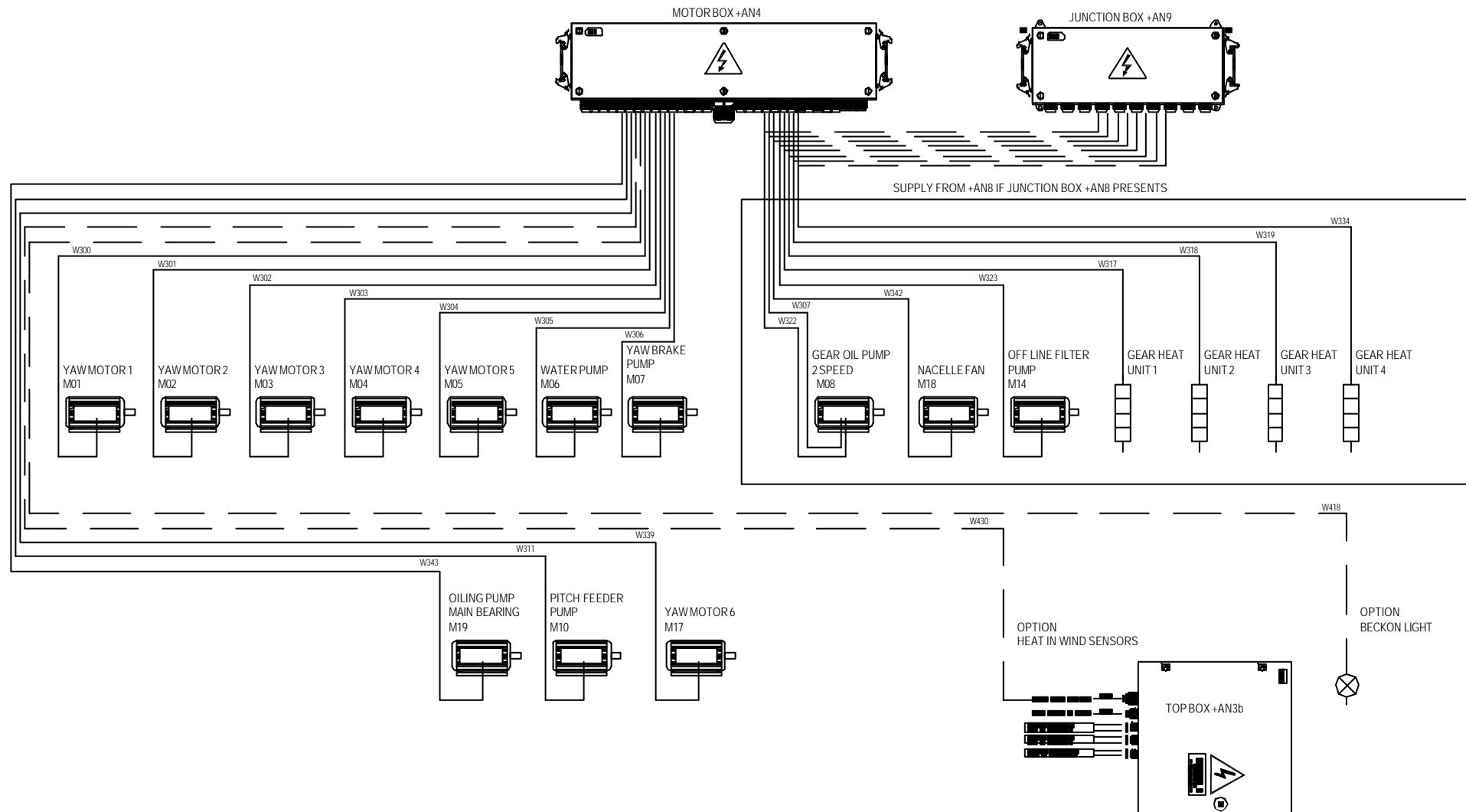




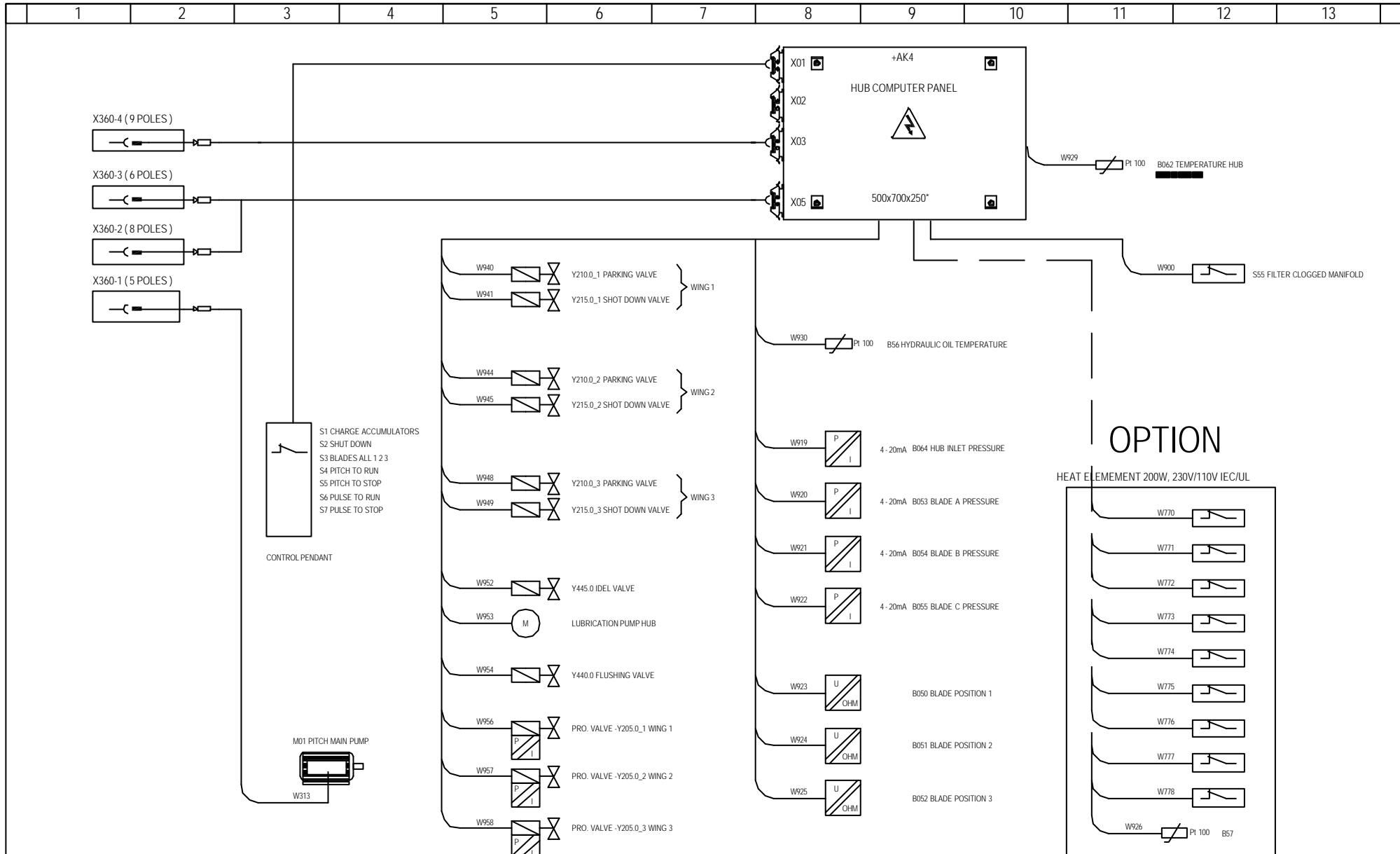


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Approved			Comments	Customer NEG Micon A/S
Revised	031106	ATM	Rev. 02	Drawing no. 6011862
			Cont. sheet	033
			Sheet	032

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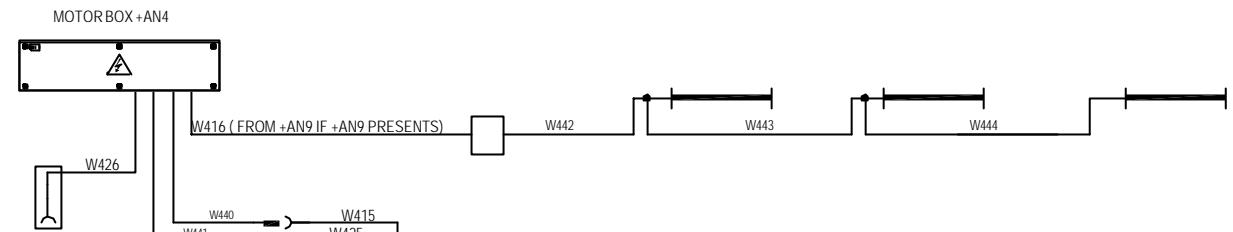


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Approved			Comments	Customer NEG Micon A/S
Revised	031106	ATM	Rev. 02	Drawing no. 6011862
			Cont. sheet	034
			Sheet	033

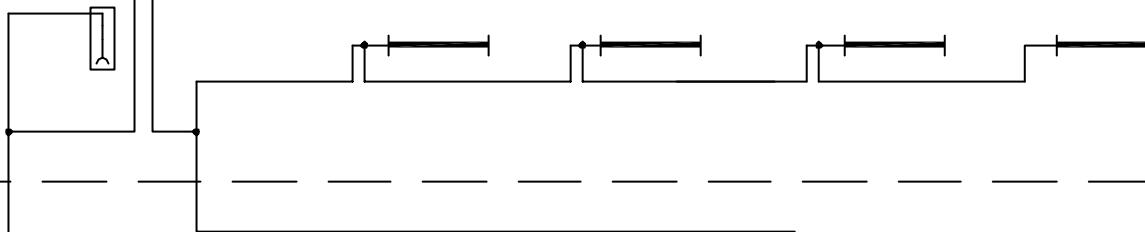


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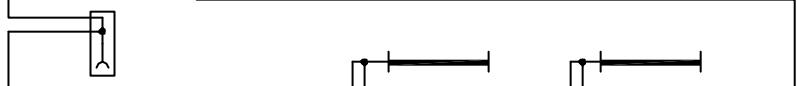
Nacelle



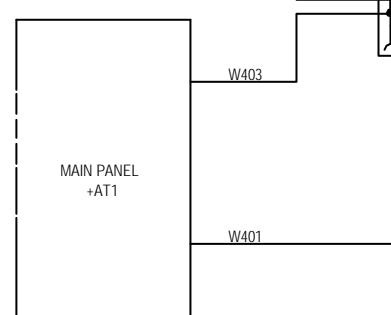
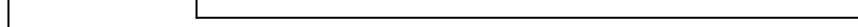
Tower top section



Tower middle section



Tower bottom section



	Date	Initials	Function	Light and service sockets		
Designed	031106	ATM	Project title	Plant Outline NM72/NM82 690V 50Hz		
Approved			Comments	Customer NEG Micon A/S		
Revised	031106	ATM	Rev. 02	Drawing no.	6011862	Cont. sheet - Sheet 035

Change Info

<i>Item no.</i>	<i>Item text:</i>
None	Single Line Diagram NM72/NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II

Active revision for production

Drawing number: 6011876

Version	Date	Init./App.	Description of change since last revision
02	28.10.2003	CHO/CHO	IGC, UPS and dynamic PFC added.

LST number: None

Version	Date	Init./App.	Material BOM number: None
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change

Old revisions for service

Drawing number: 6011876

Version	Date	Init./App.	Description of change since last revision
01	28.07.2003	CHO/CHO	First version

LST number: xxxxxxxx

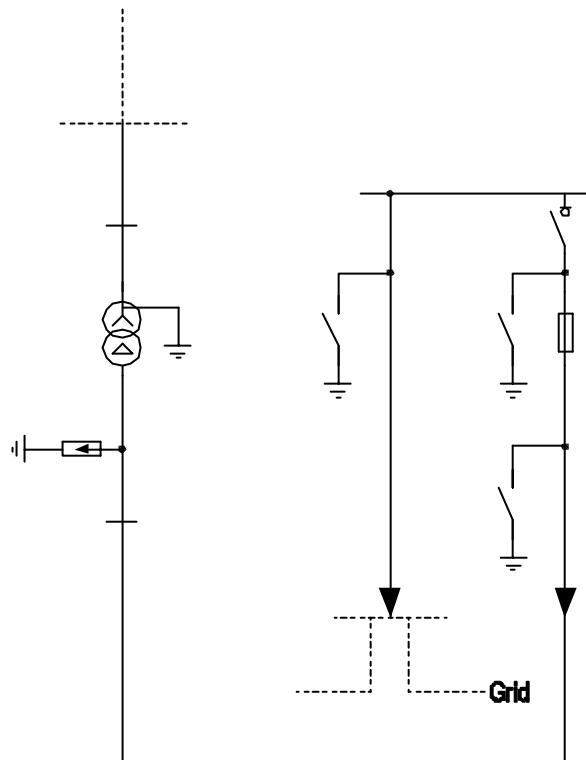
Version	Date	Init./App.	Material BOM number: xxxxxxxx
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change



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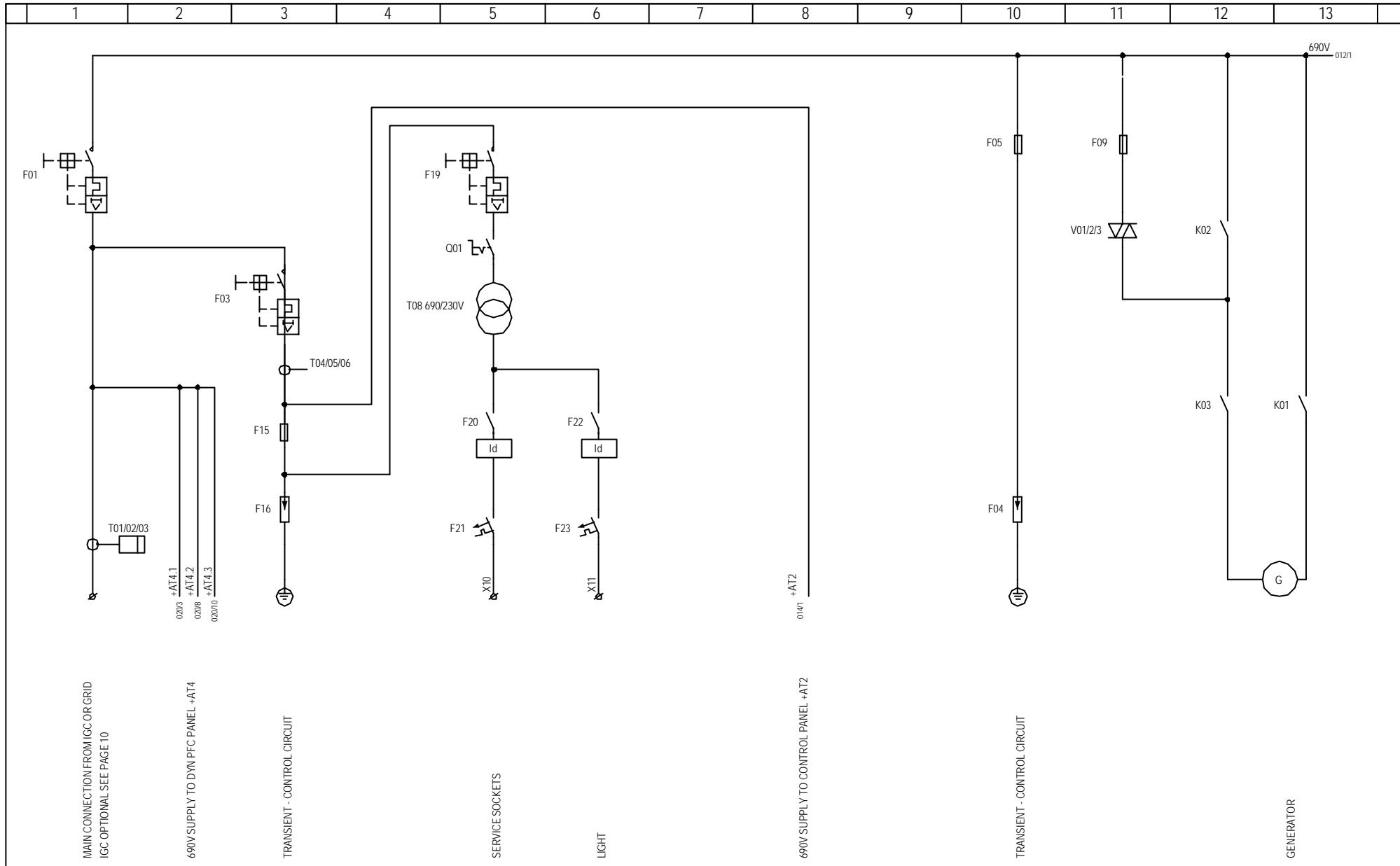
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Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II						
Approved			Comments							
Revised	031028	CHO	Rev.	02	Drawing no.	6011876	Cont. sheet	010	Sheet	001

WTG
CONNECTION TO MAIN PANEL

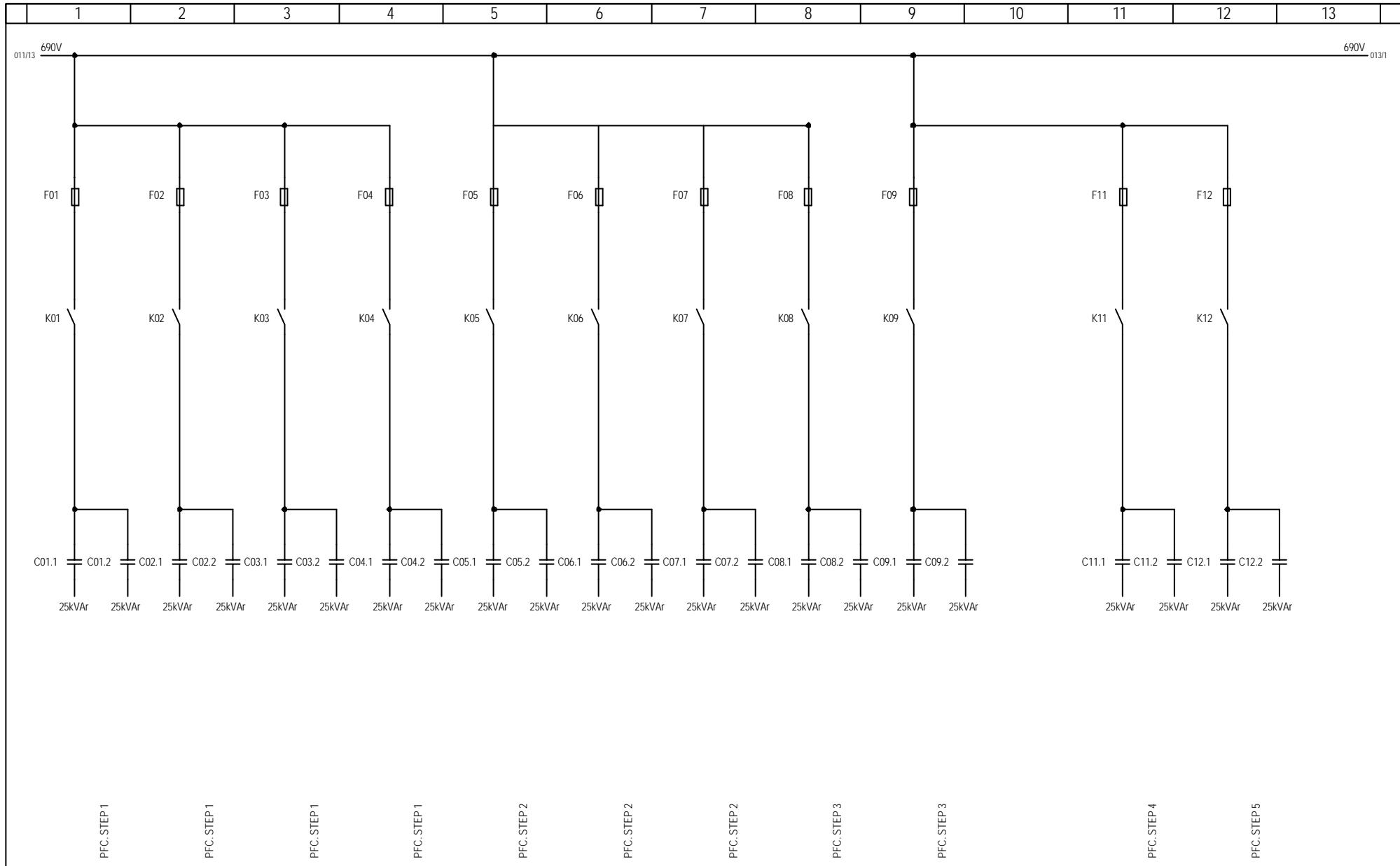


Diagram

	Date	Initials	Function	IGC System option		
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments			
Revised	031028	CHO	Rev. -	Drawing no.	6011876	Cont. sheet 011 Sheet 010



	Date	Initials	Function	Main Panel +AT1
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II
Approved			Comments	Customer NEG Micon A/S
Revised	031028	CHO	Rev. -	Drawing no. 6011876 Cont. sheet 012 Sheet 011

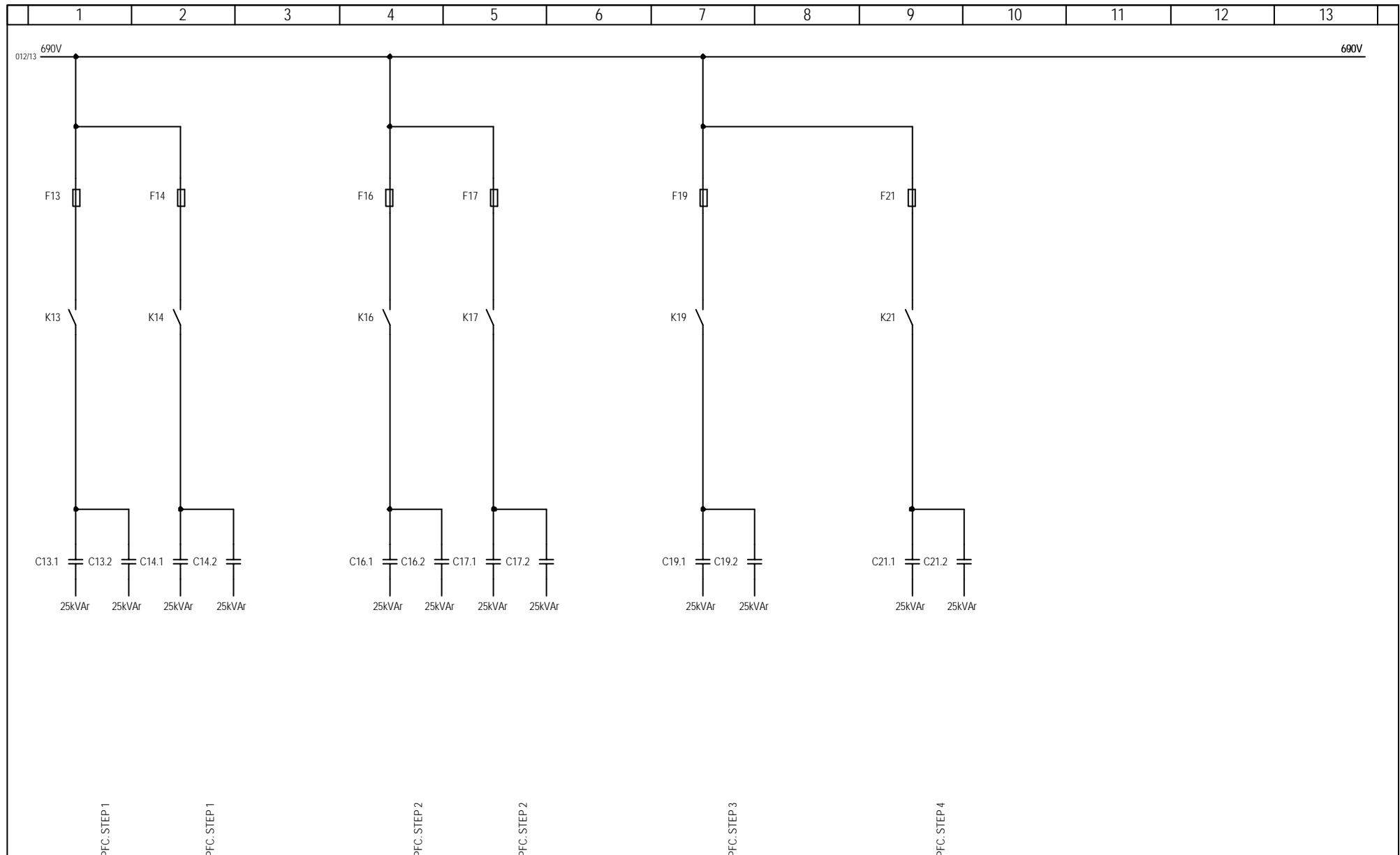


31.10.08
13:30



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	Date	Initials	Function	Power Factor Correction NL +AT3		
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments			
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
			Cont. sheet	013	Sheet	012

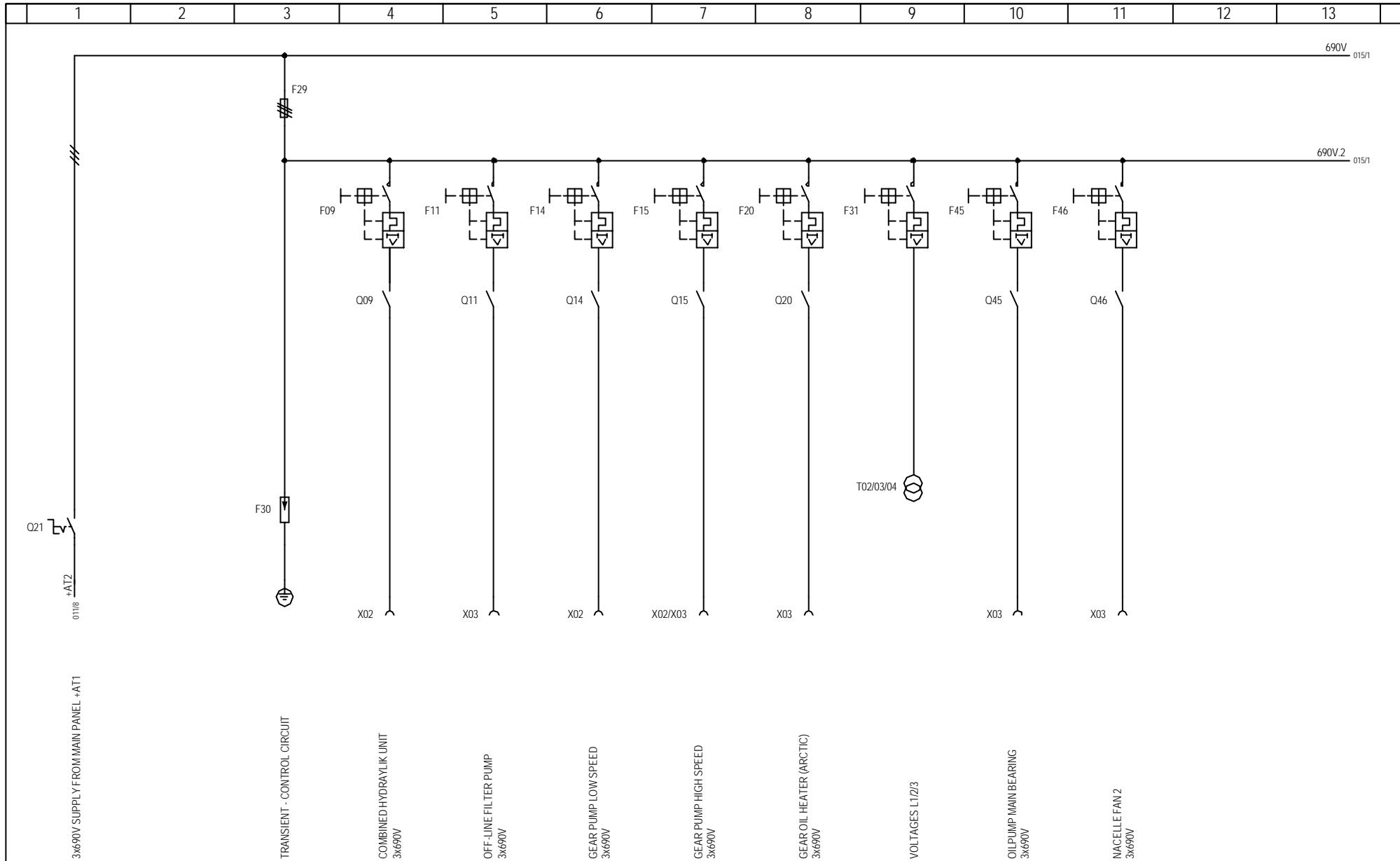


31.10.03
13:30



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	Date	Initials	Function	Power Factor Correction Add on for FL +AT3		
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments		Customer	NEG Micon A/S
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
			Cont. sheet	014	Sheet	013

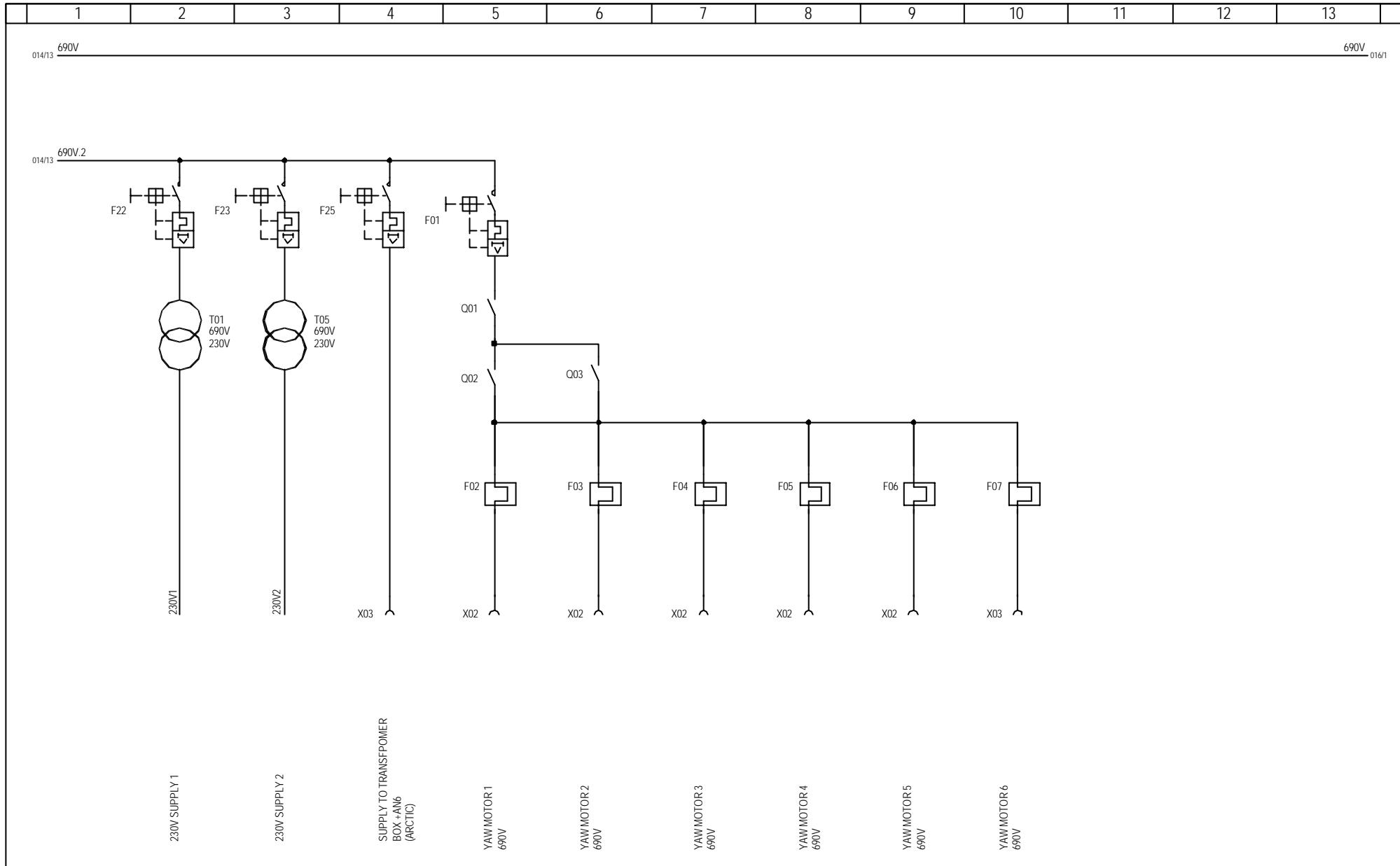


13:30 31.10.08

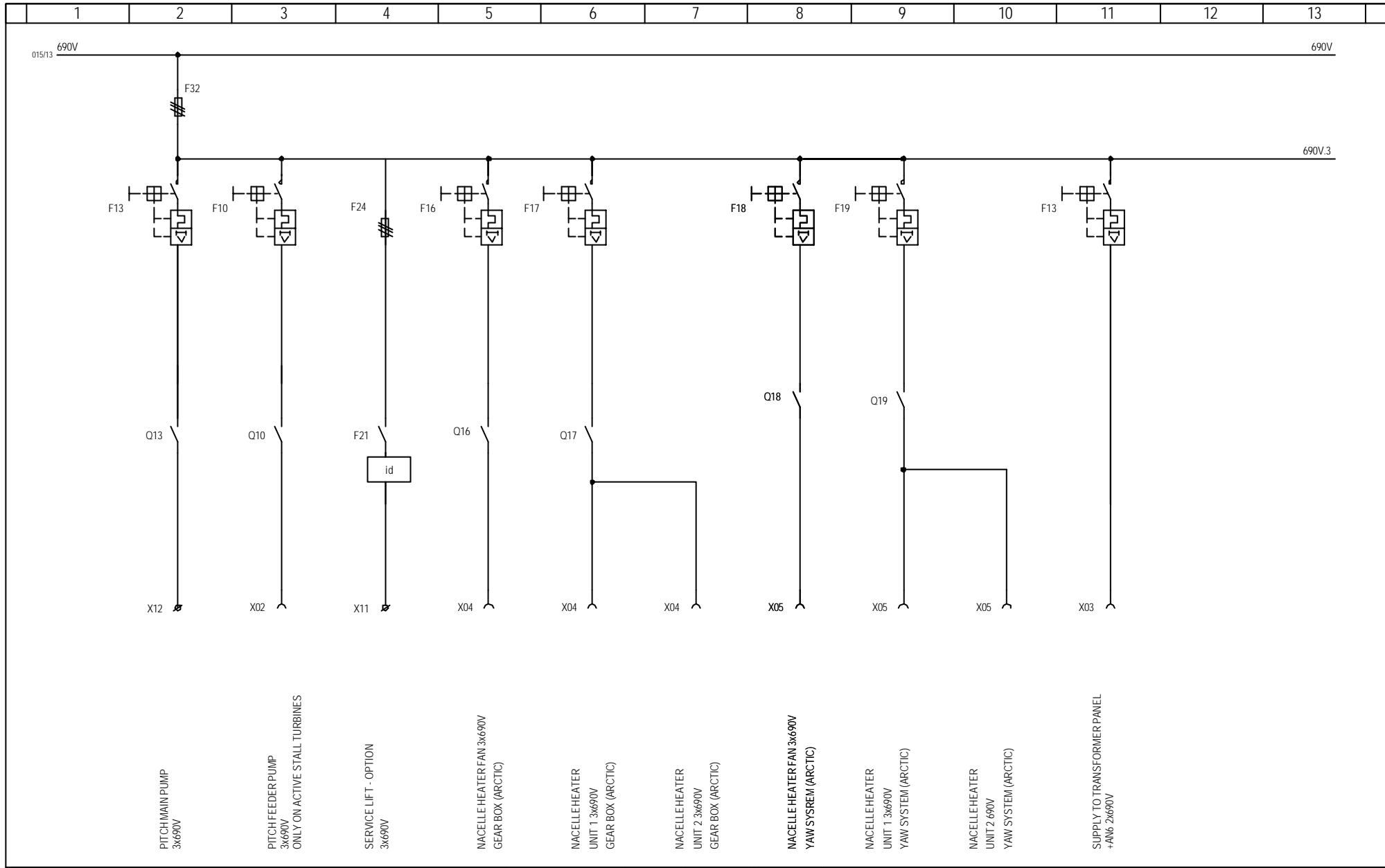


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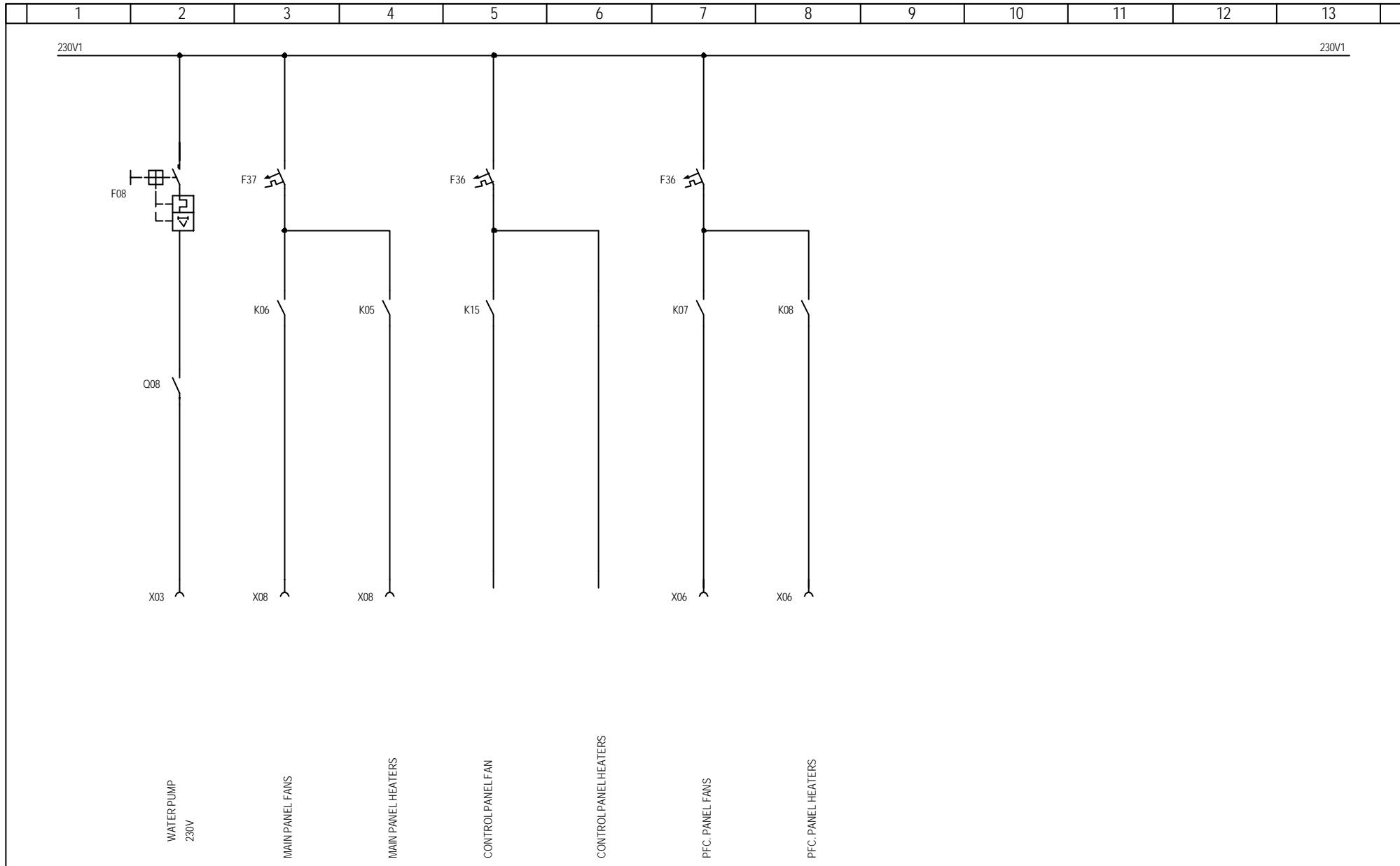
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Approved			Comments			
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
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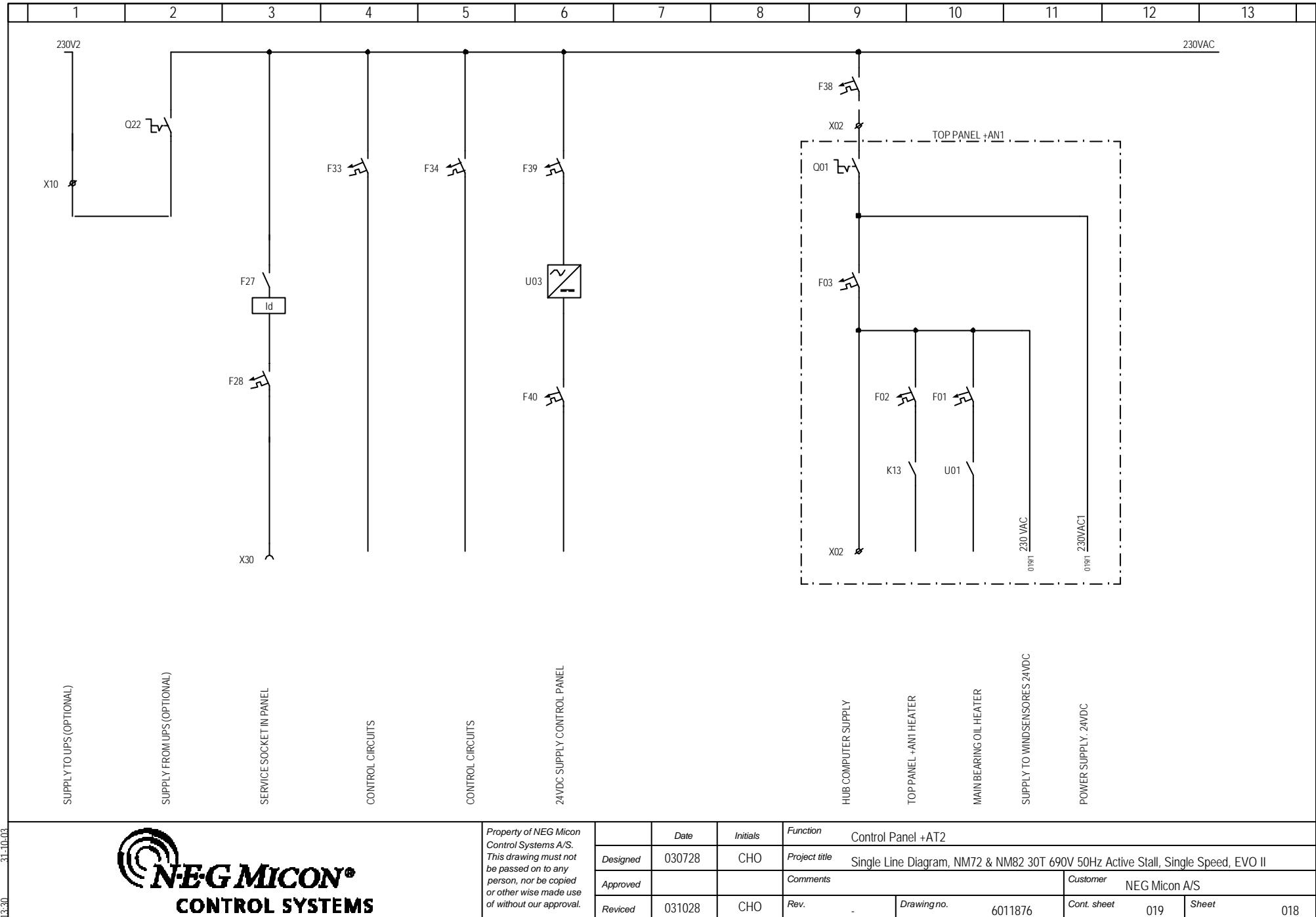
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Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments			
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
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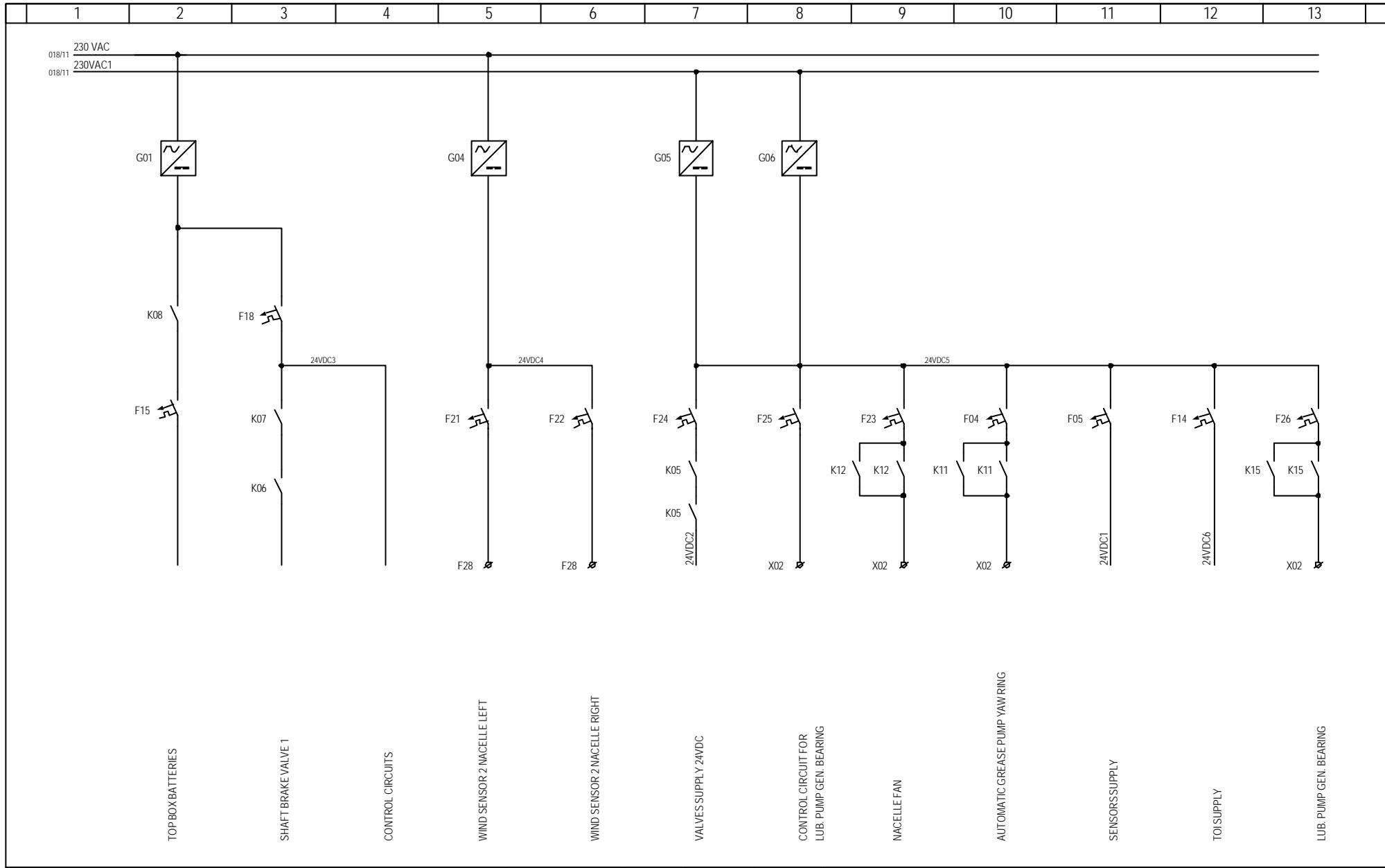
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Approved			Comments			
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
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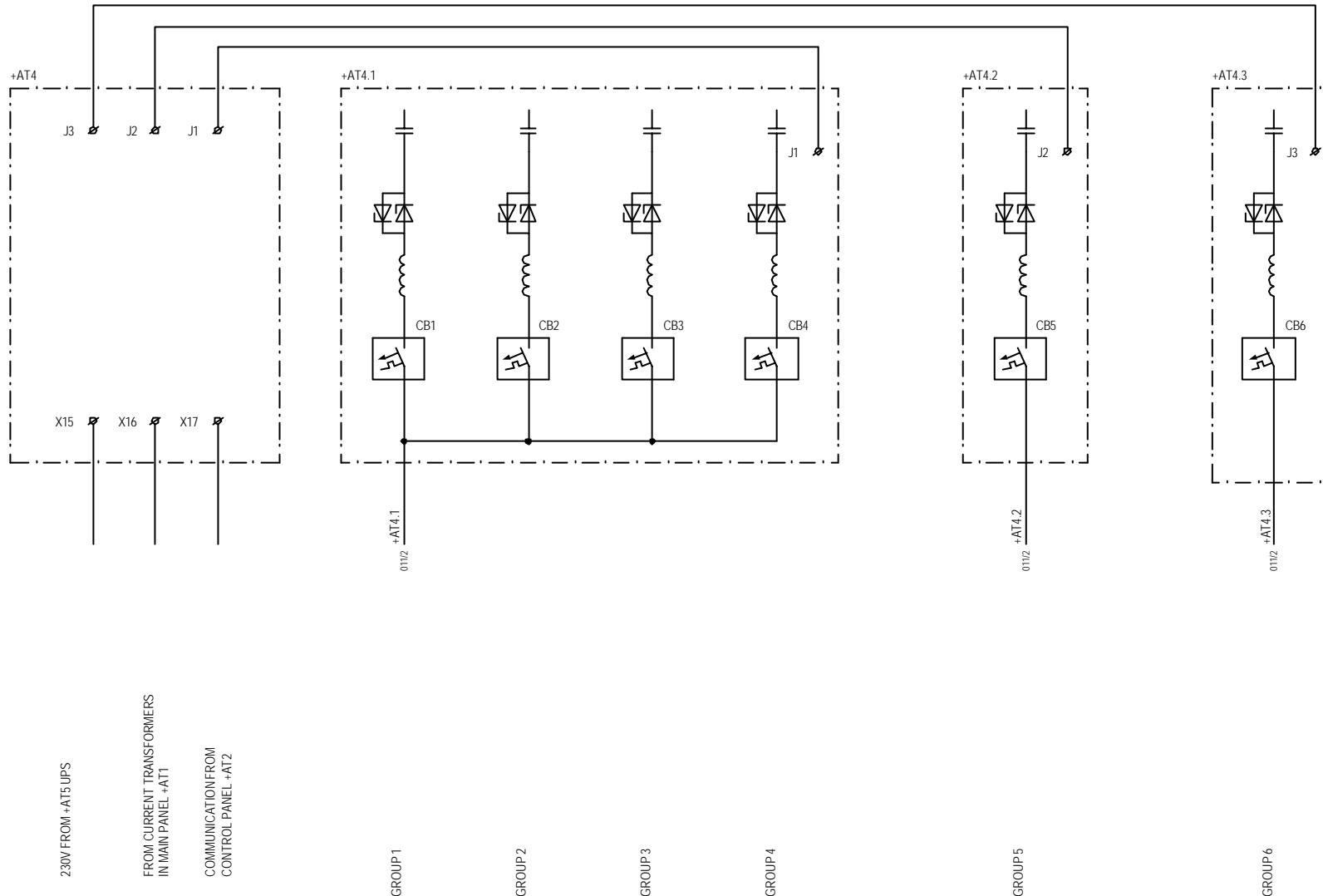
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Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments			
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
			Cont. sheet	018	Sheet	017



	Date	Initials	Function	Control Panel +AT2		
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments			
Revised	031028	CHO	Rev.	Drawing no.	6011876	Cont. sheet 019 Sheet 018

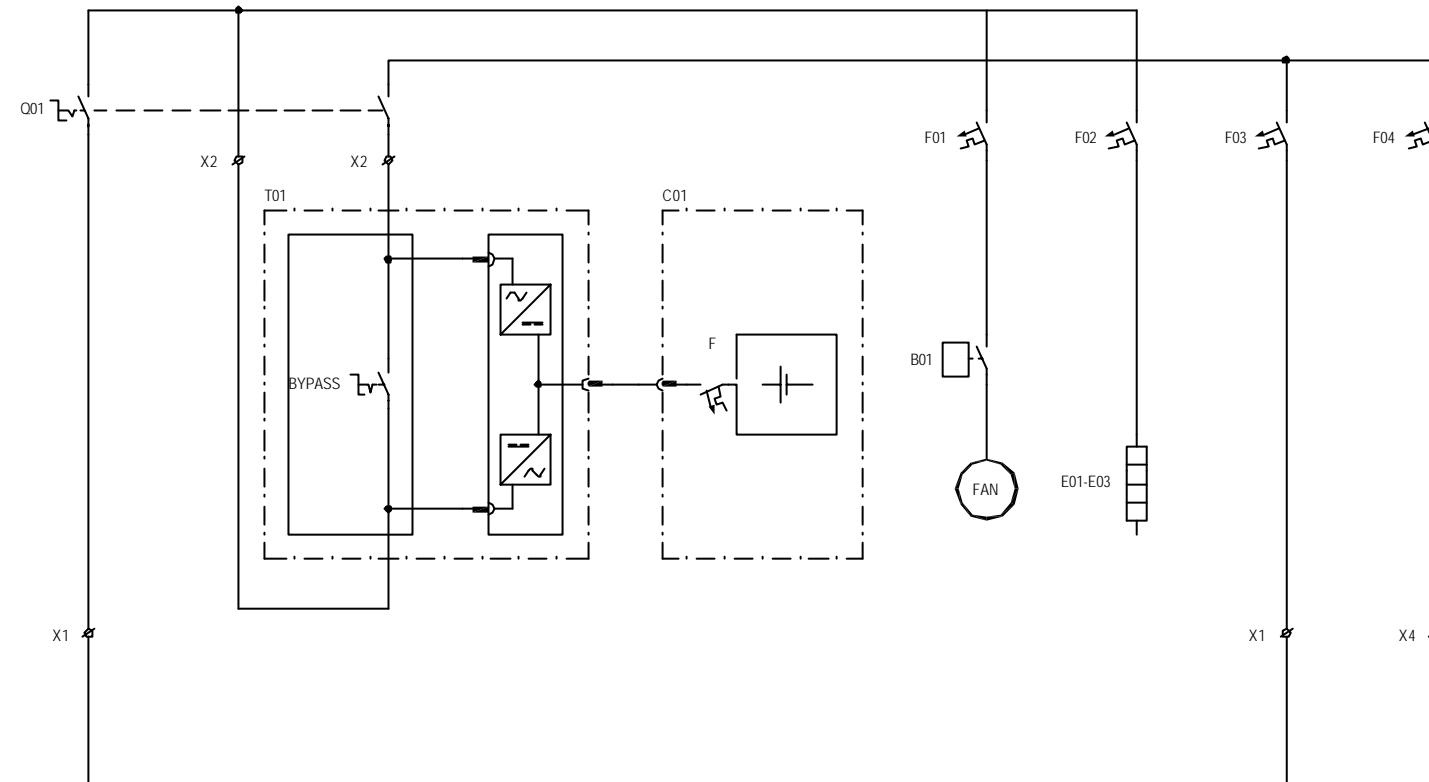


	Date	Initials	Function	Top Panel +AN1		
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments			
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
			Cont. sheet	020	Sheet	019



	Date	Initials	Function	DYN PFC Panel +AT4 Option		
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II		
Approved			Comments		Customer	NEG Micon A/S
Revised	031028	CHO	Rev.	-	Drawing no.	6011876
			Cont. sheet	021	Sheet	020

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31.10.08
13:30



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	Date	Initials	Function	UPS Panel +AT5 Option						
Designed	030728	CHO	Project title	Single Line Diagram, NM72 & NM82 30T 690V 50Hz Active Stall, Single Speed, EVO II						
Approved			Comments				Customer	NEG Micon A/S		
Revised	031028	CHO	Rev.	-	Drawing no.	6011876	Cont. sheet	-	Sheet	021

Change Info

Item no. **Item text:**
None Main Panel +AT1, Passive Stall /Active Stall 30T 50Hz

Active revision for production

Drawing number: 6012514

Version	Date	Init./App.	Description of change since last revision
01	25.10.2003	ATM/ATM	First version

LST number: 21000074

Version	Date	Init./App.	Description of change since last revision
01	14.10.2003	ATM/ATM	First version

Material BOM number: 60096208

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

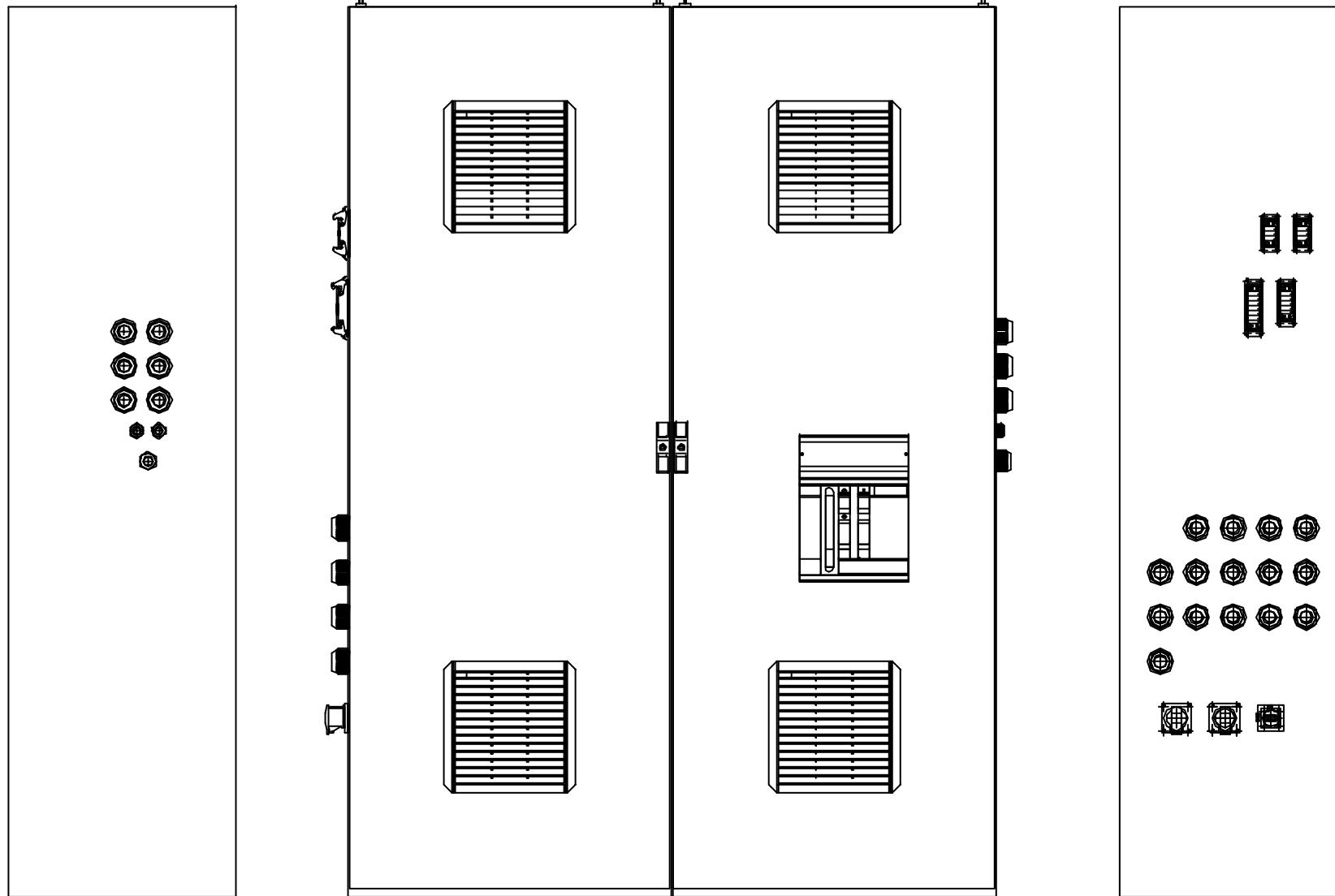
Material BOM number: xxxxxxxx



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	Date	Initials	Function	Table of contents						
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III						
Approved			Comments	Customer NEG Micon A/S						
Revised	031025	ATM	Rev.	01	Drawing no.	6012514	Cont. sheet	030	Sheet	001

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1600*2200*600mm (W*H*D)

Weight 830 Kg

21-10-03

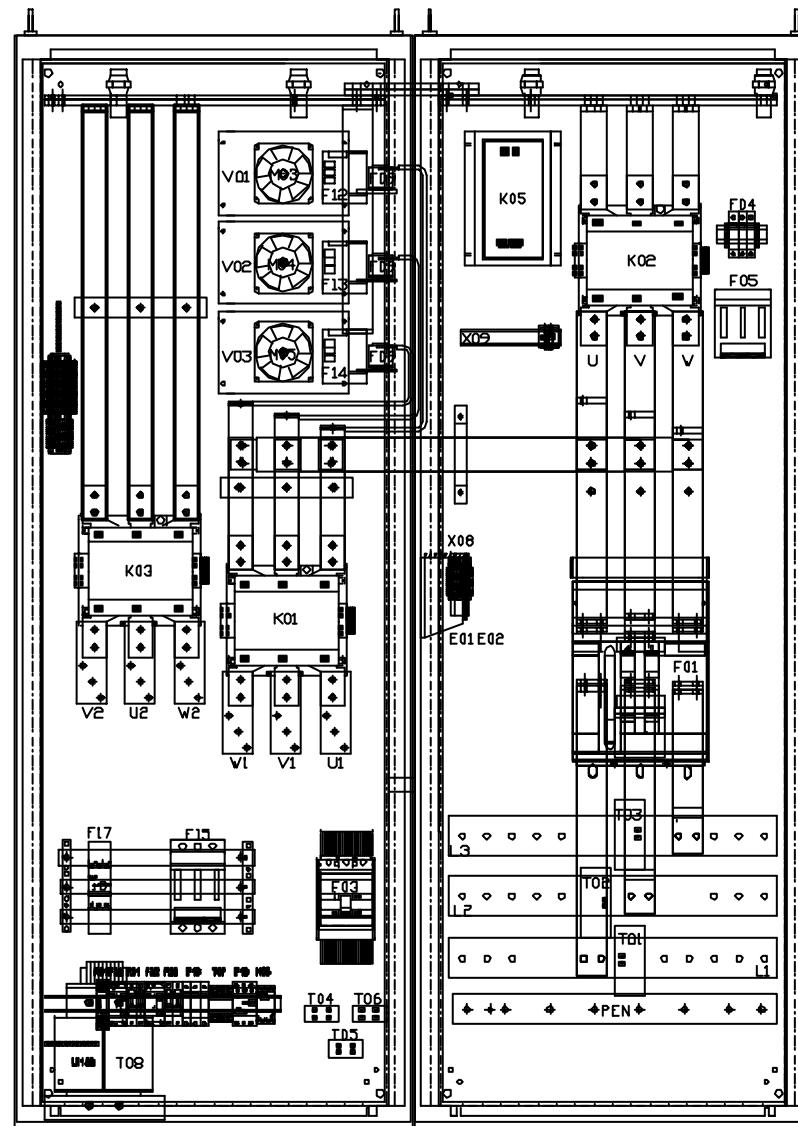
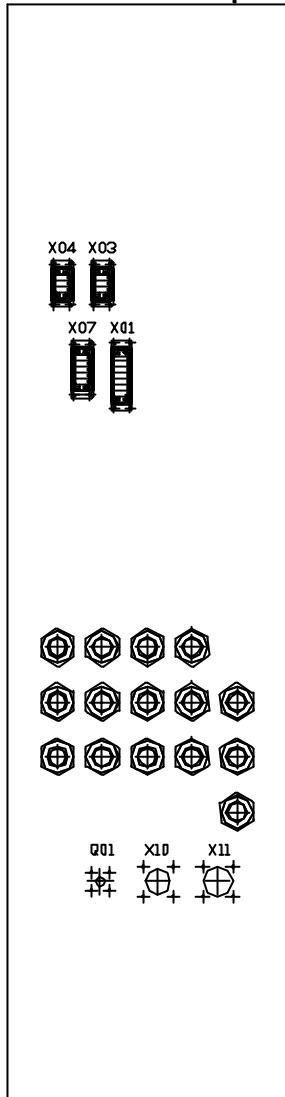


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	Date	Initials	Function	Panel Front View		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments			
Revised	031025	ATM	Rev.	-	Drawing no.	6012514
			Customer	NEG Micon A/S		
			Cont. sheet	031	Sheet	030

1	2	3	4	5	6	7	8	9	10	11	12	13
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Inside view of left side panel

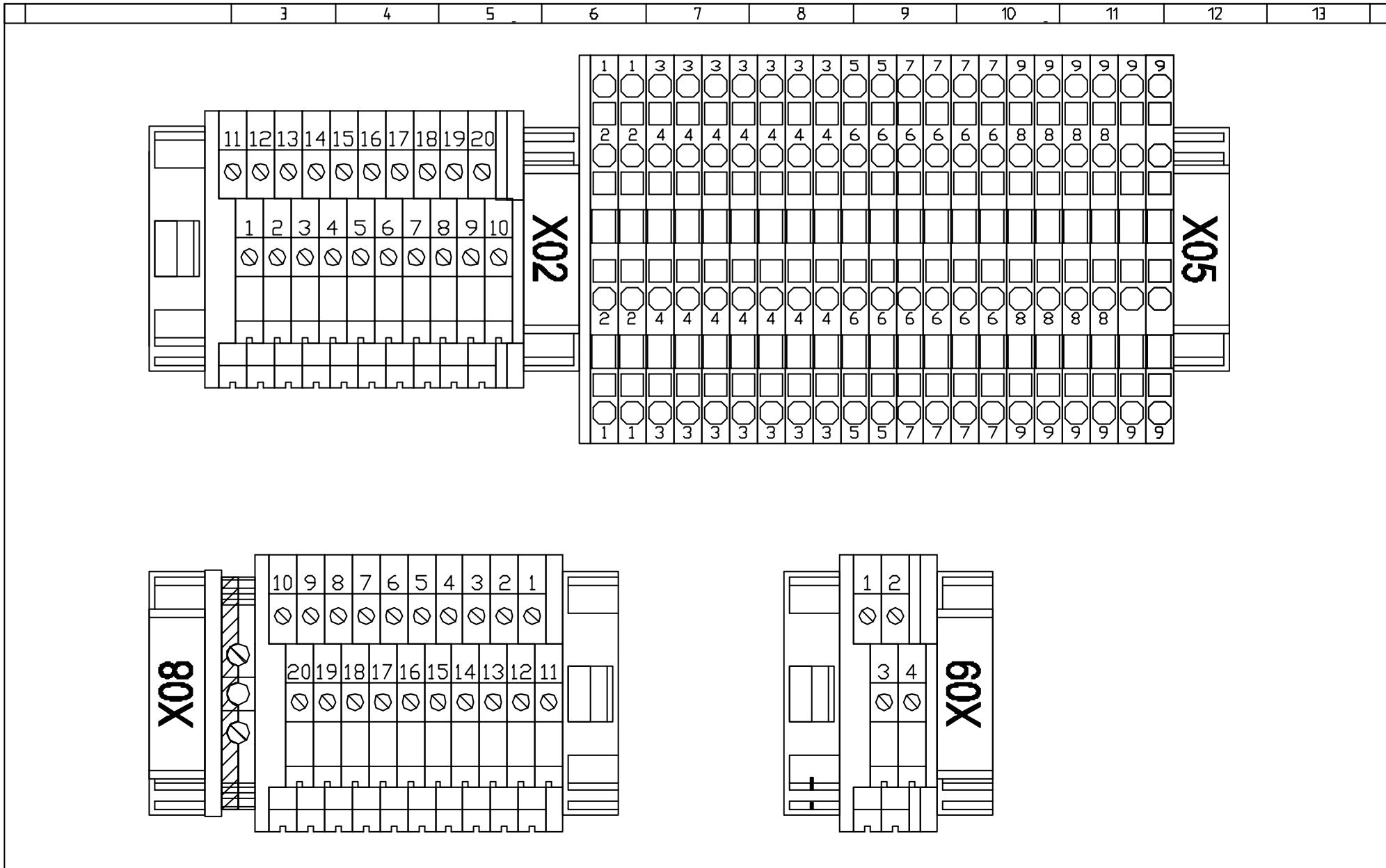


31.10.03
10:12

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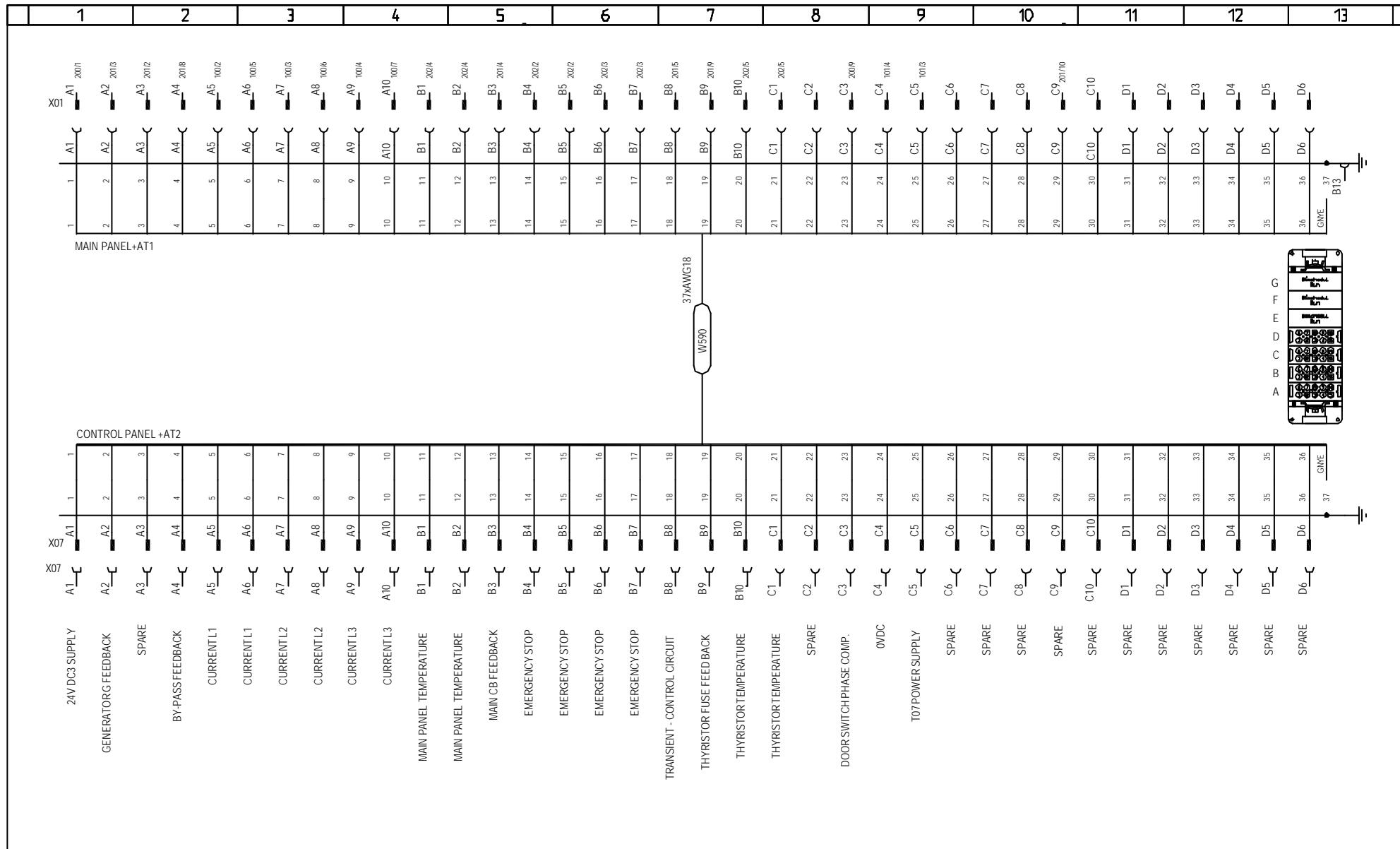
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	Date	Initials	Function	Panel outline
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III
Approved			Comments	Customer NEG Micon A/S
Revised	031025	ATM	Rev. -	Drawing no. 6012514 Cont. sheet 032 Sheet 031



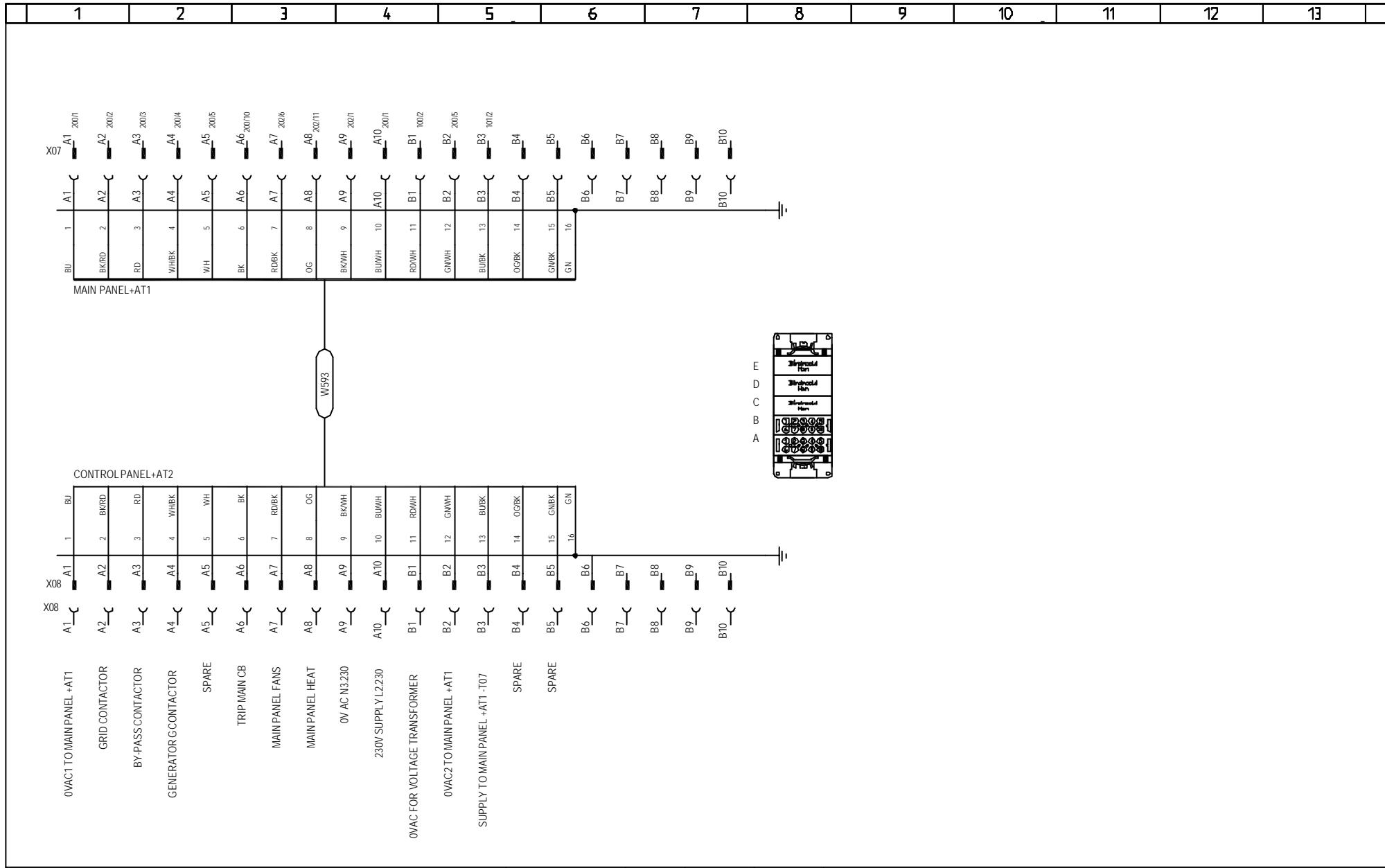
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	Date	Initials	Function	Terminals X02, X05, X08, X09						
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III						
Approved			Comments	Customer NEG Micon A/S						
Revised	031025	ATM	Rev.	-	Drawing no.	6012514	Cont. sheet	040	Sheet	032

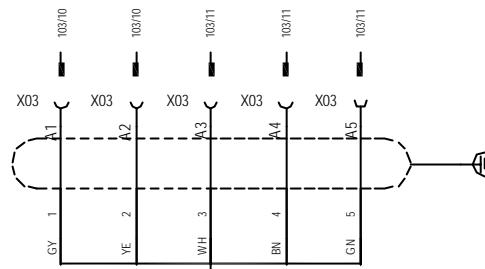


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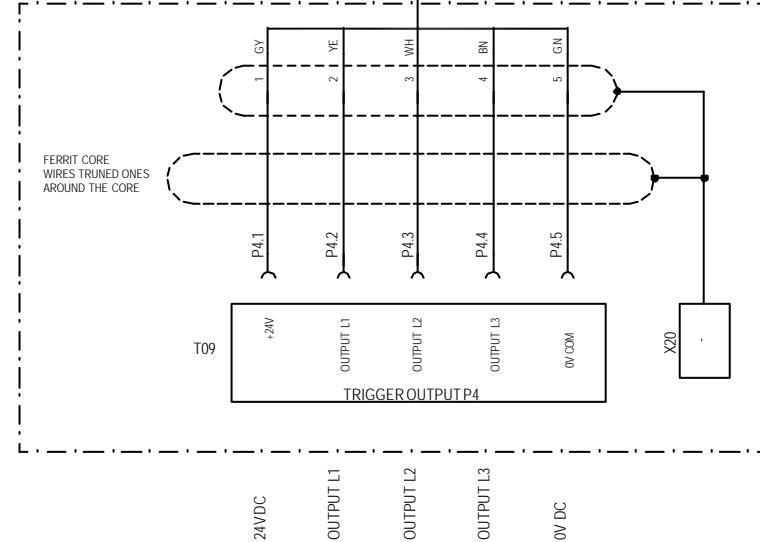
	Date	Initials	Function	External connections X01						
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III						
Approved			Comments			Customer	NEG Micon A/S			
Revised	031025	ATM	Rev.	-	Drawing no.	6012514	Cont. sheet	041	Sheet	040



MAIN PANEL+AT1

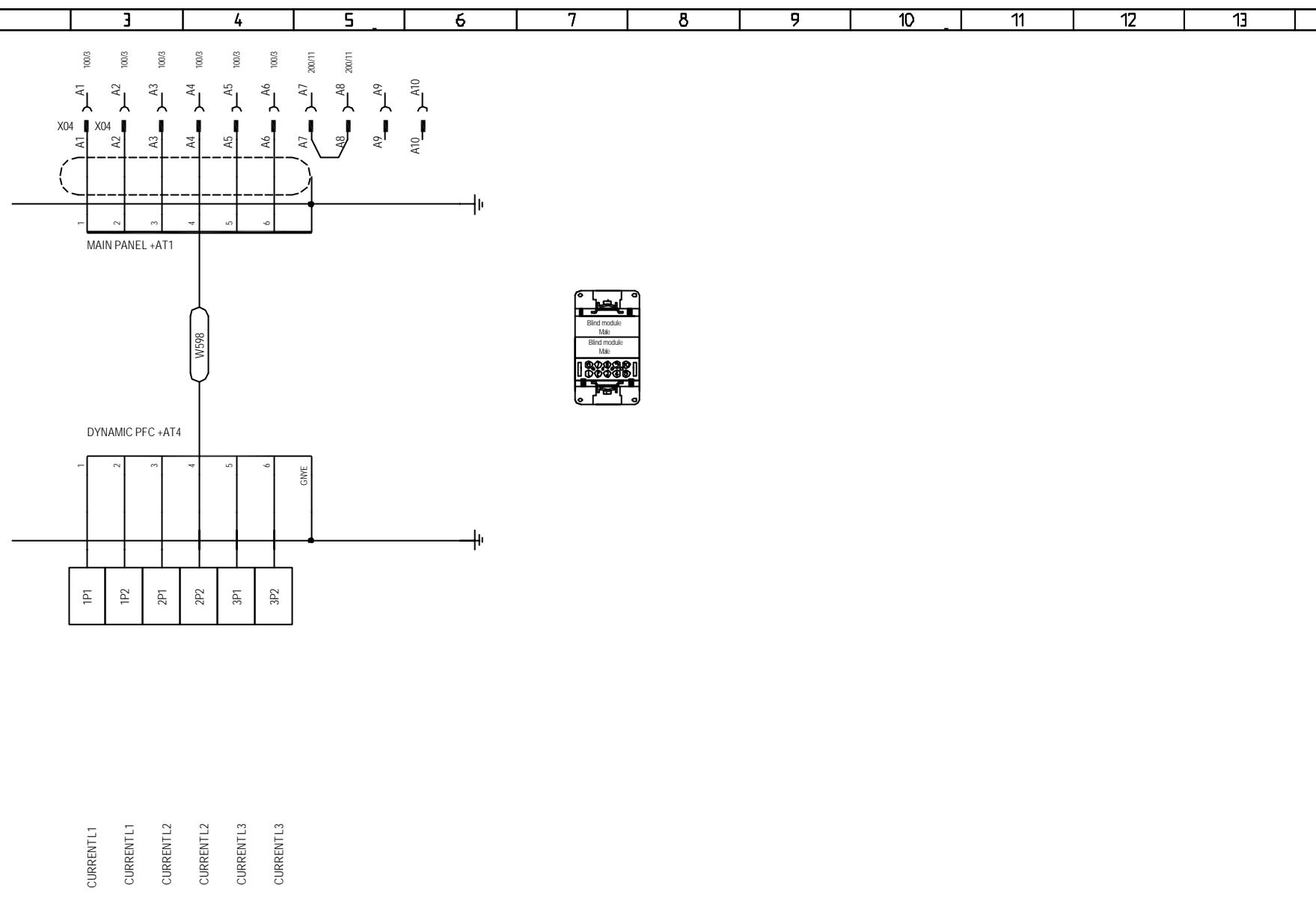


CONTROL PANEL+AT2



24VDC
OUTPUT L1
OUTPUT L2
OUTPUT L3
0V DC

	Date	Initials	Function	External connections trigger		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments			
Revised	031025	ATM	Rev.	-	Drawing no.	6012514
			Cont. sheet	043	Sheet	042



10-12 37-10-03

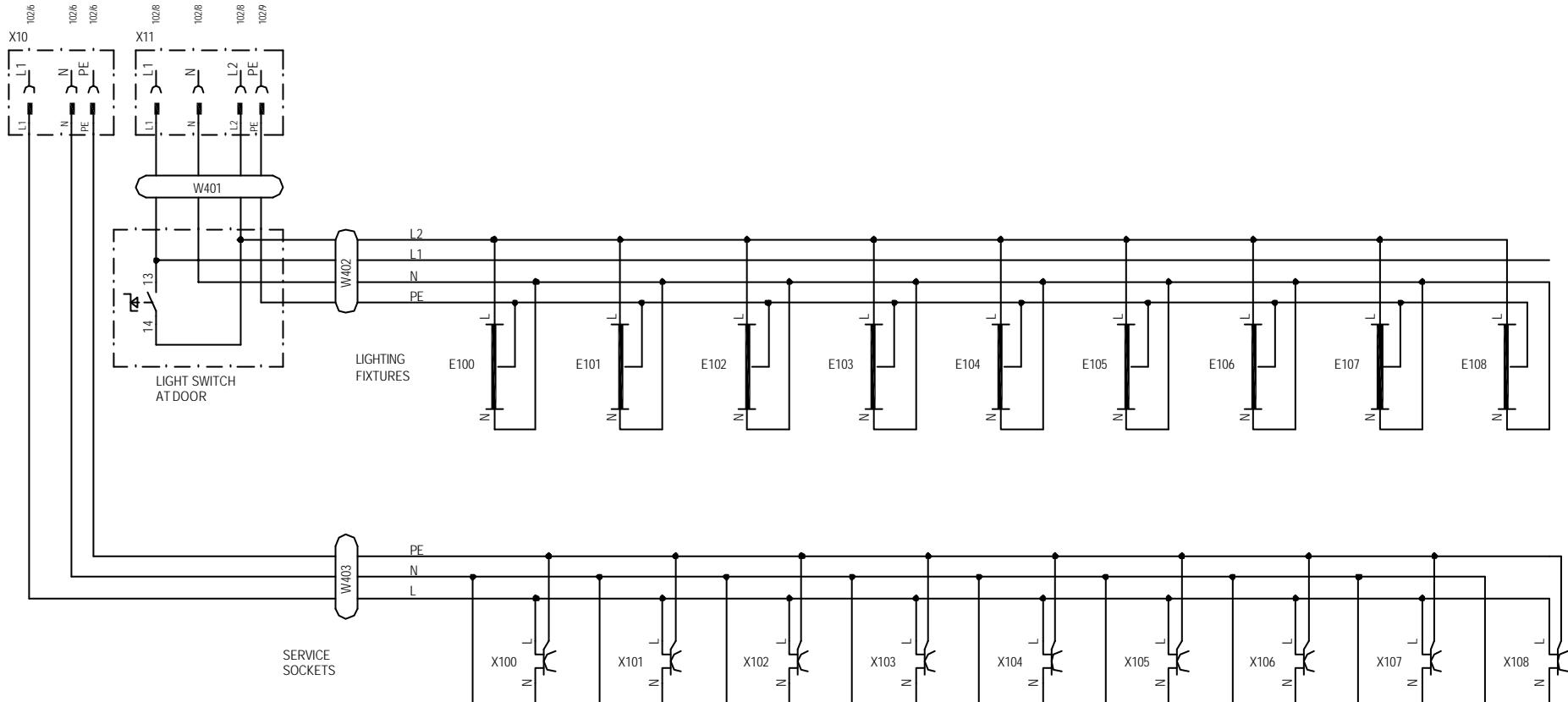


CURRENT1 CURRENT1 CURRENT2 CURRENT2 CURRENT3 CURRENT3

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	Date	Initials	Function External connections X04							
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III						
Approved			Comments	Customer NEG Micon A/S						
Revised	031025	ATM	Rev.	-	Drawing no.	6012514	Cont. sheet	044	Sheet	043

	1	2	3	4	5	6	7	8	9	10	11	12	13
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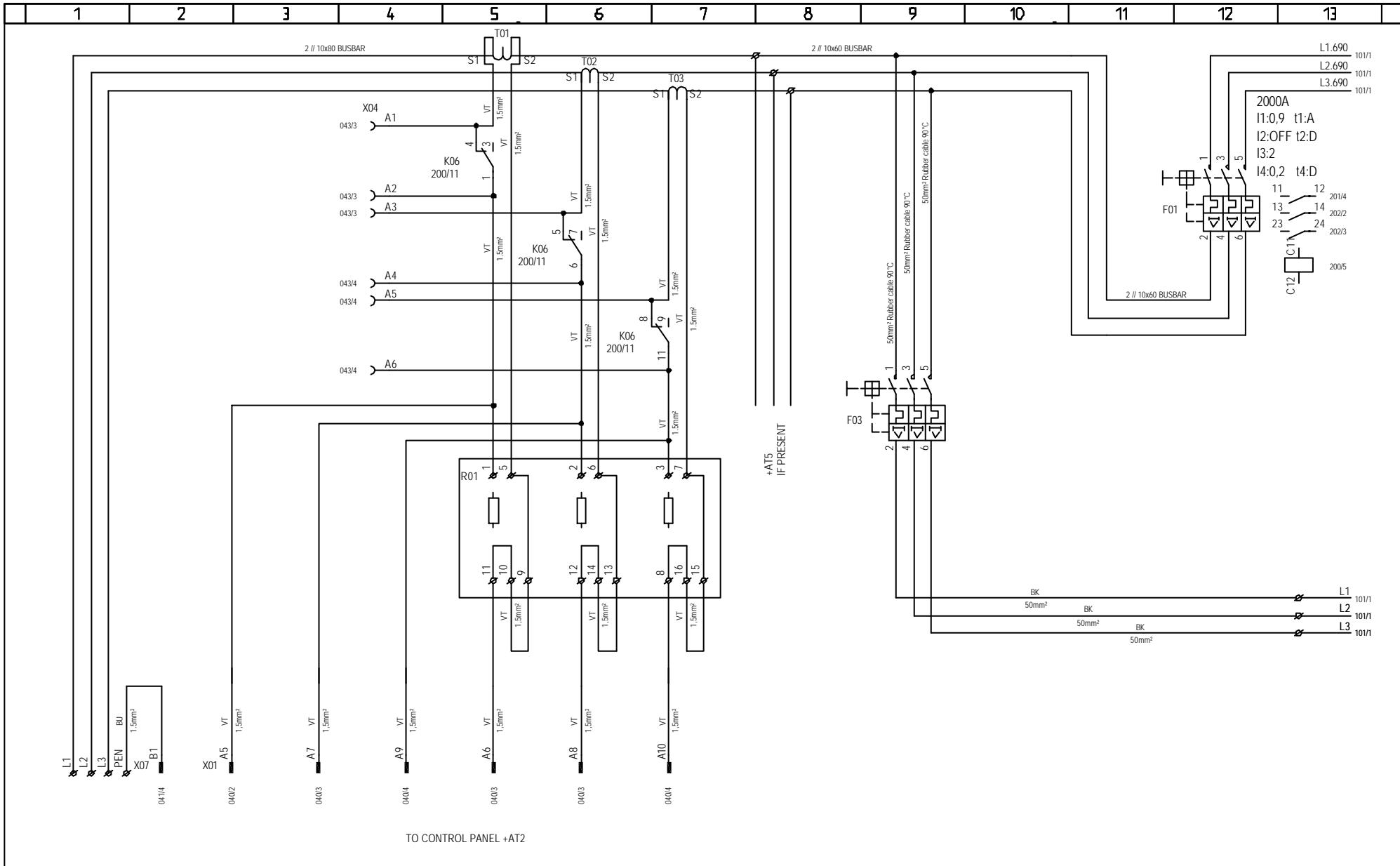


10:12 31.10.03



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	Date	Initials	Function	External connections light and service sockets		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments			
Revised	031025	ATM	Rev. -	Drawing no.	6012514	Cont. sheet 100 Sheet 044

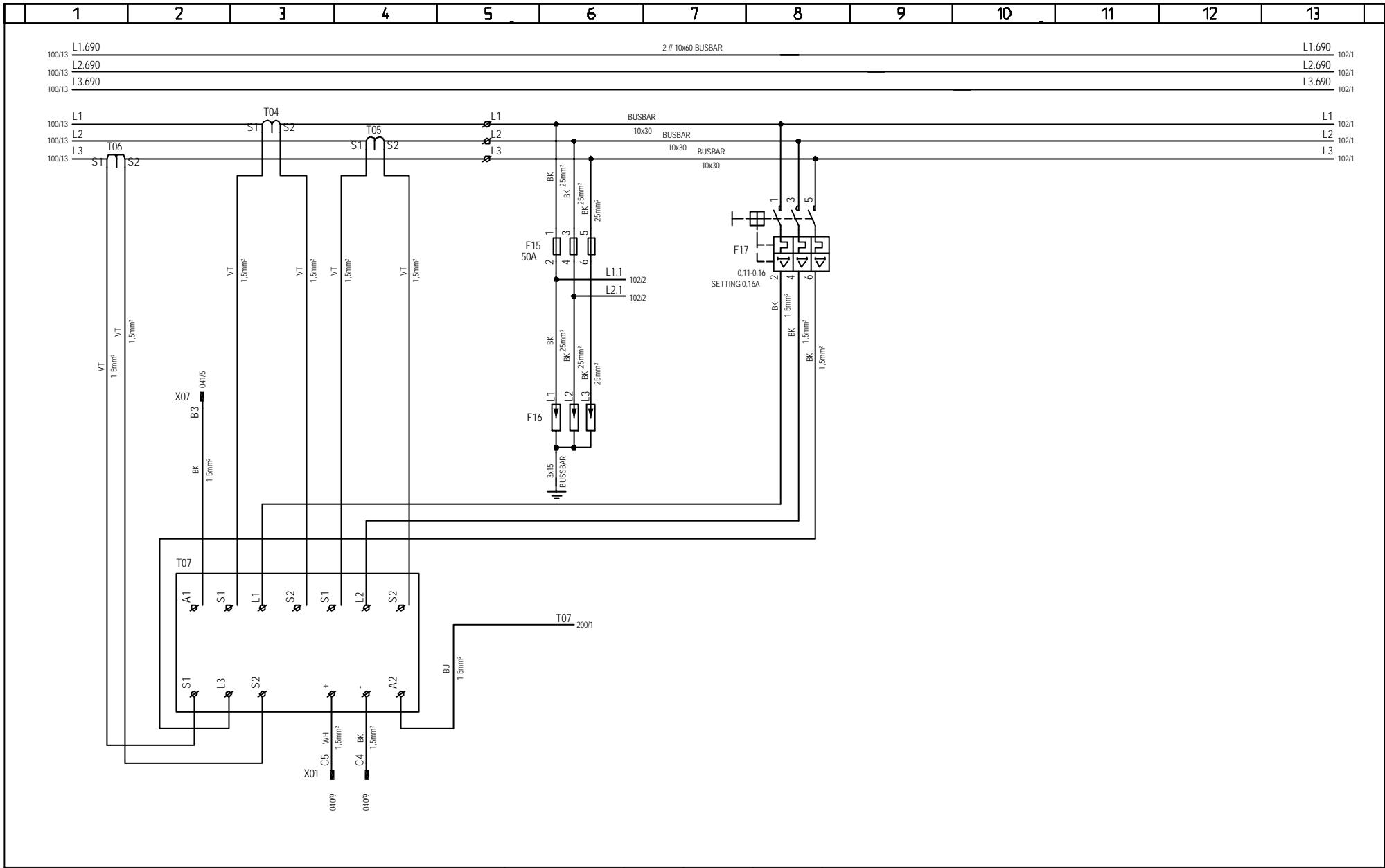


10:12 31.10.03

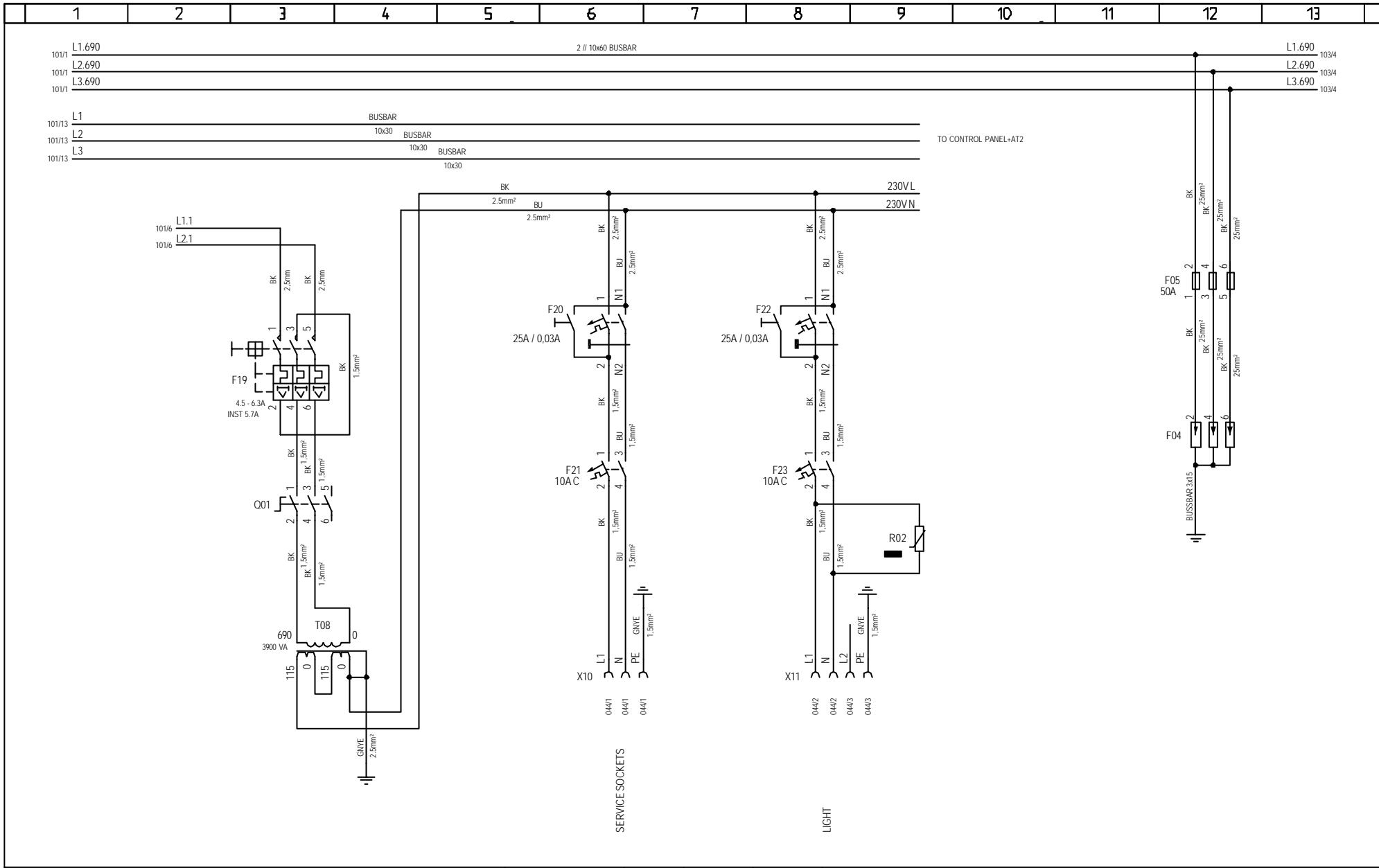


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	Date	Initials	Function	Main CB
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III
Approved			Comments	Customer NEG Micon A/S
Revised	031025	ATM	Rev. - Drawing no. 6012514	Cont. sheet 101 Sheet 100

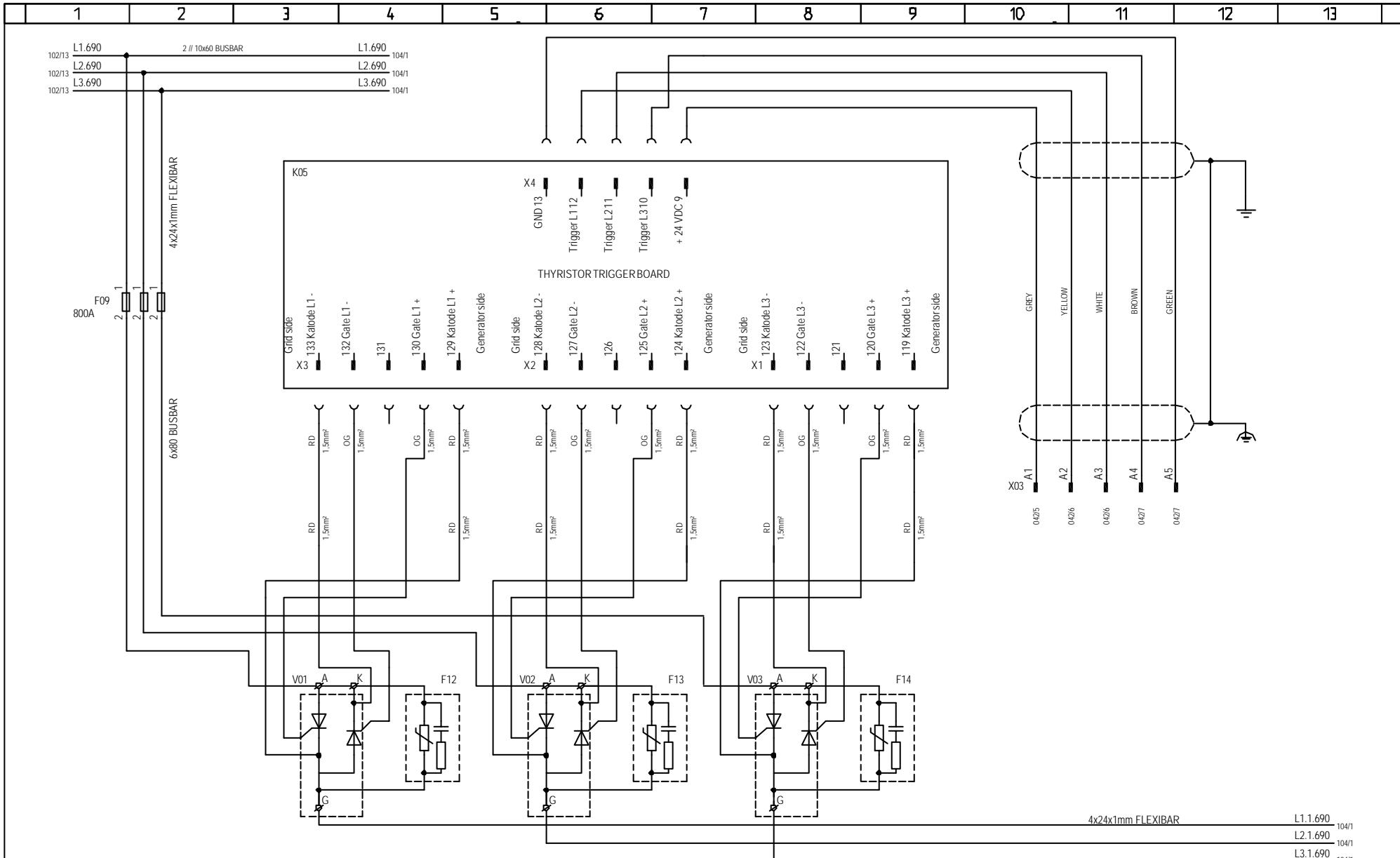


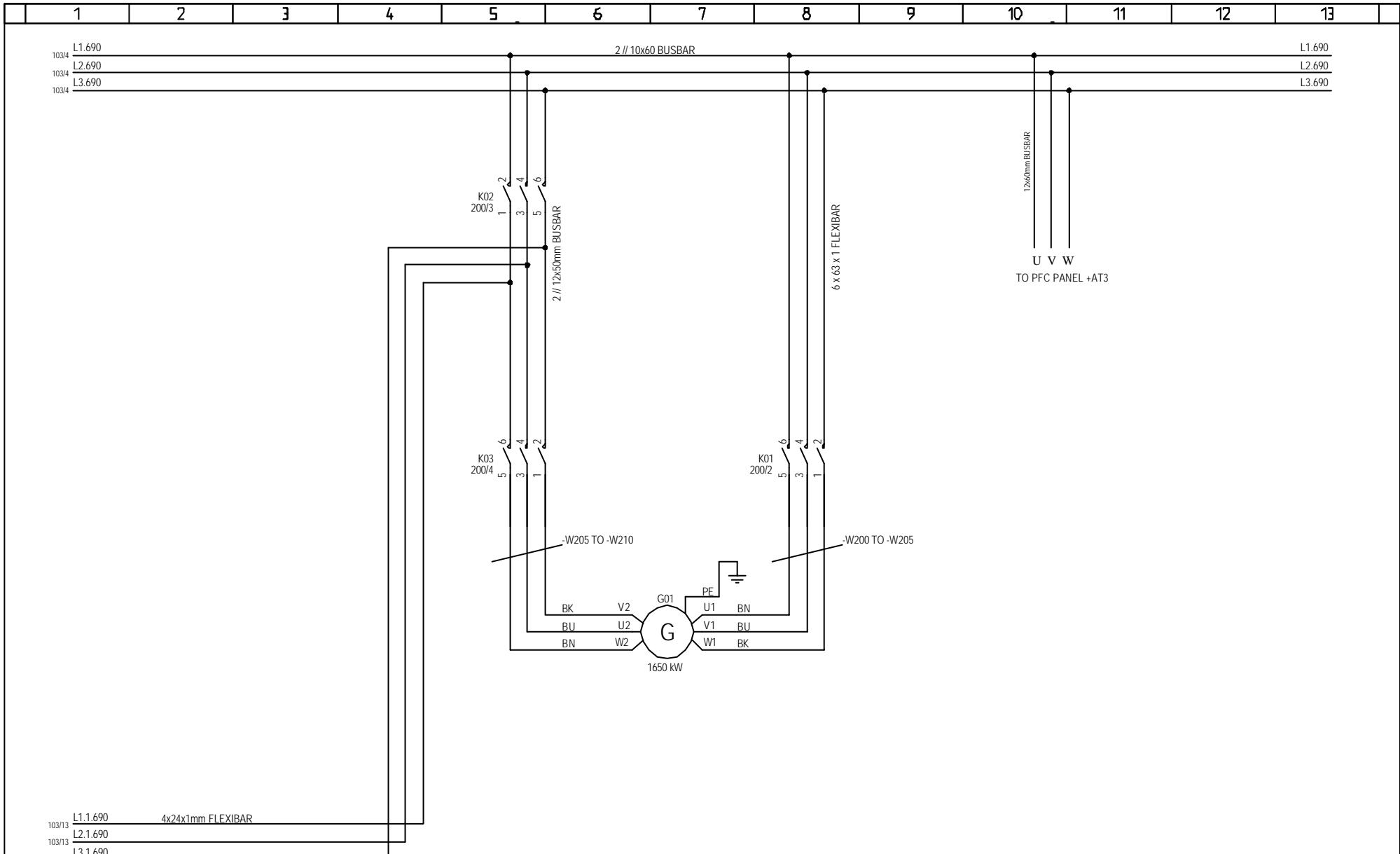
	Date	Initials	Function	AUX Supply
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III
Approved			Comments	Customer NEG Micon A/S
Revised	031025	ATM	Rev. -	Drawing no. 6012514 Cont. sheet 102 Sheet 101

31.10.03
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	Date	Initials	Function	Current measuring		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments			
Revised	031025	ATM	Rev.	-	Drawing no.	6012514
			Cont. sheet	103	Sheet	102



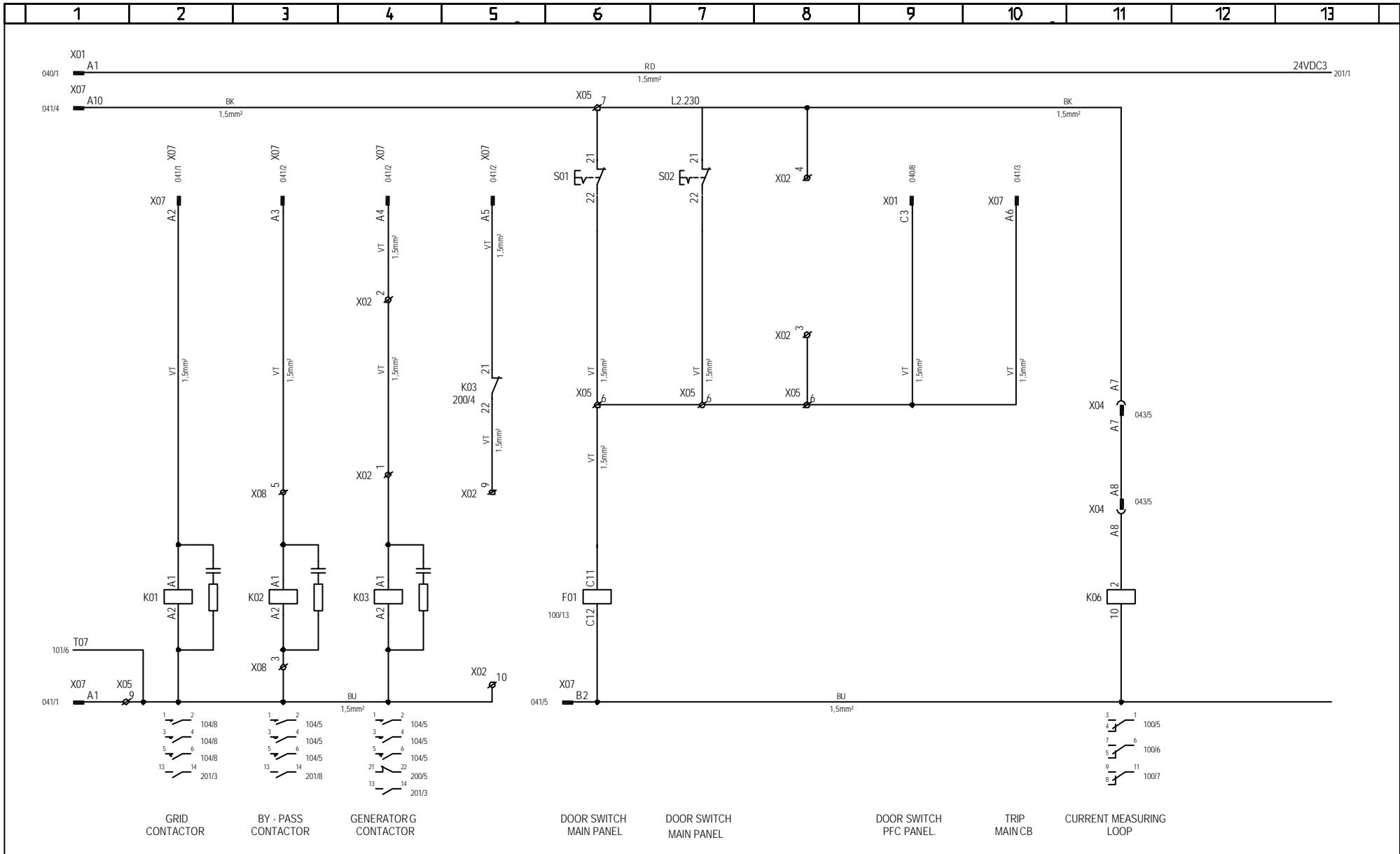


31.10.03
10.12.02



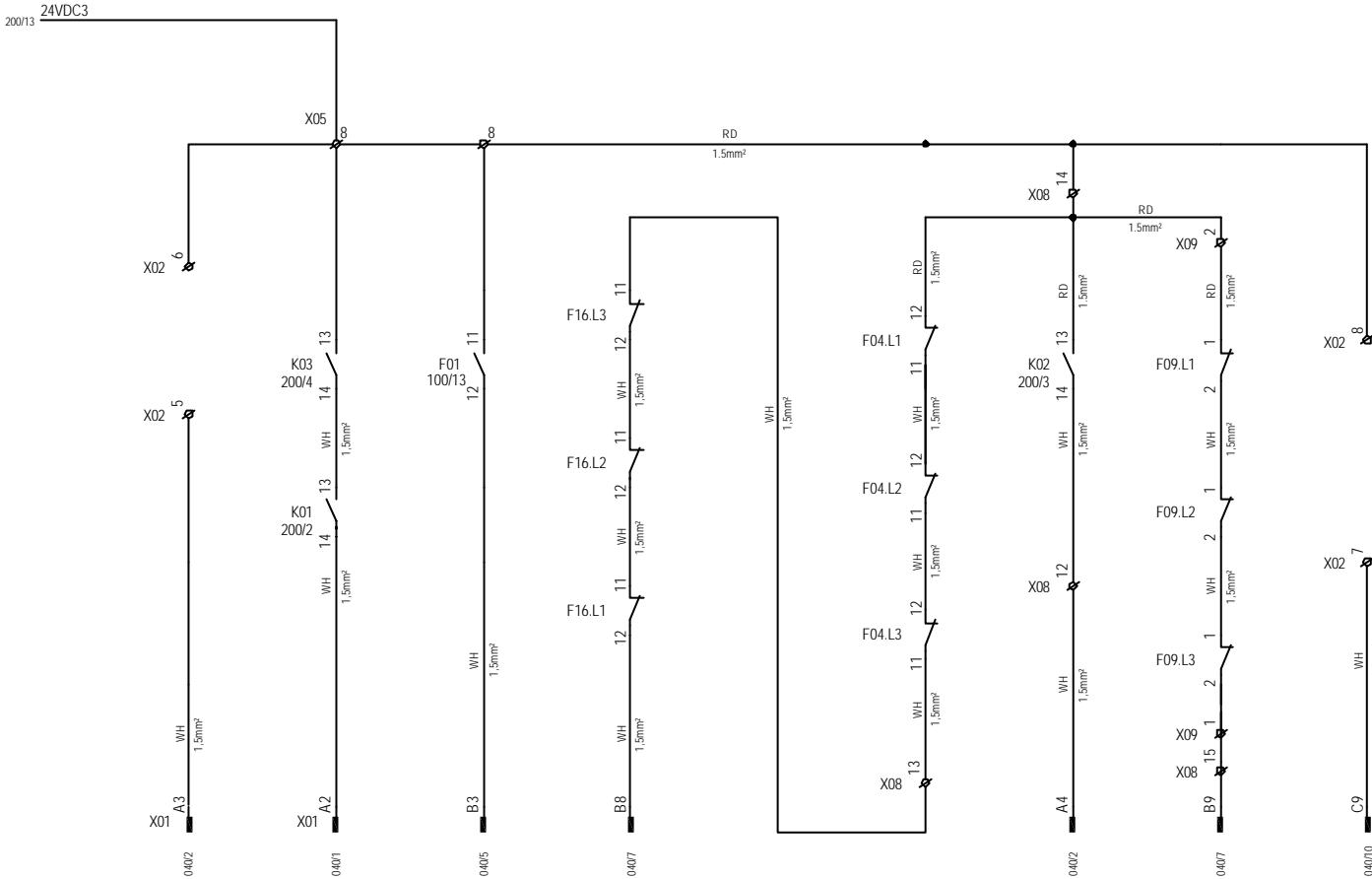
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	Date	Initials	Function	Generator connections		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments			
Revised	031025	ATM	Rev. -	Drawing no.	6012514	Cont. sheet 200 Sheet 104



	Date	Initials	Function	Internal connections		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments			
Revised	031025	ATM	Rev. -	Drawing no.	6012514	Customer NEG Micon A/S
			Cont. sheet	201	Sheet	200

1	2	3	4	5	6	7	8	9	10	11	12	13
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GENERATORg
FEEDBACK
IF PRESENT

GENERATORg
FEEDBACK

MAIN CB
FEEDBACK

TRANSIENT
CONTROL CIRCUIT

BY - PASS
FEEDBACK

THYRISTOR FUSE
FEED BACK

SPARE

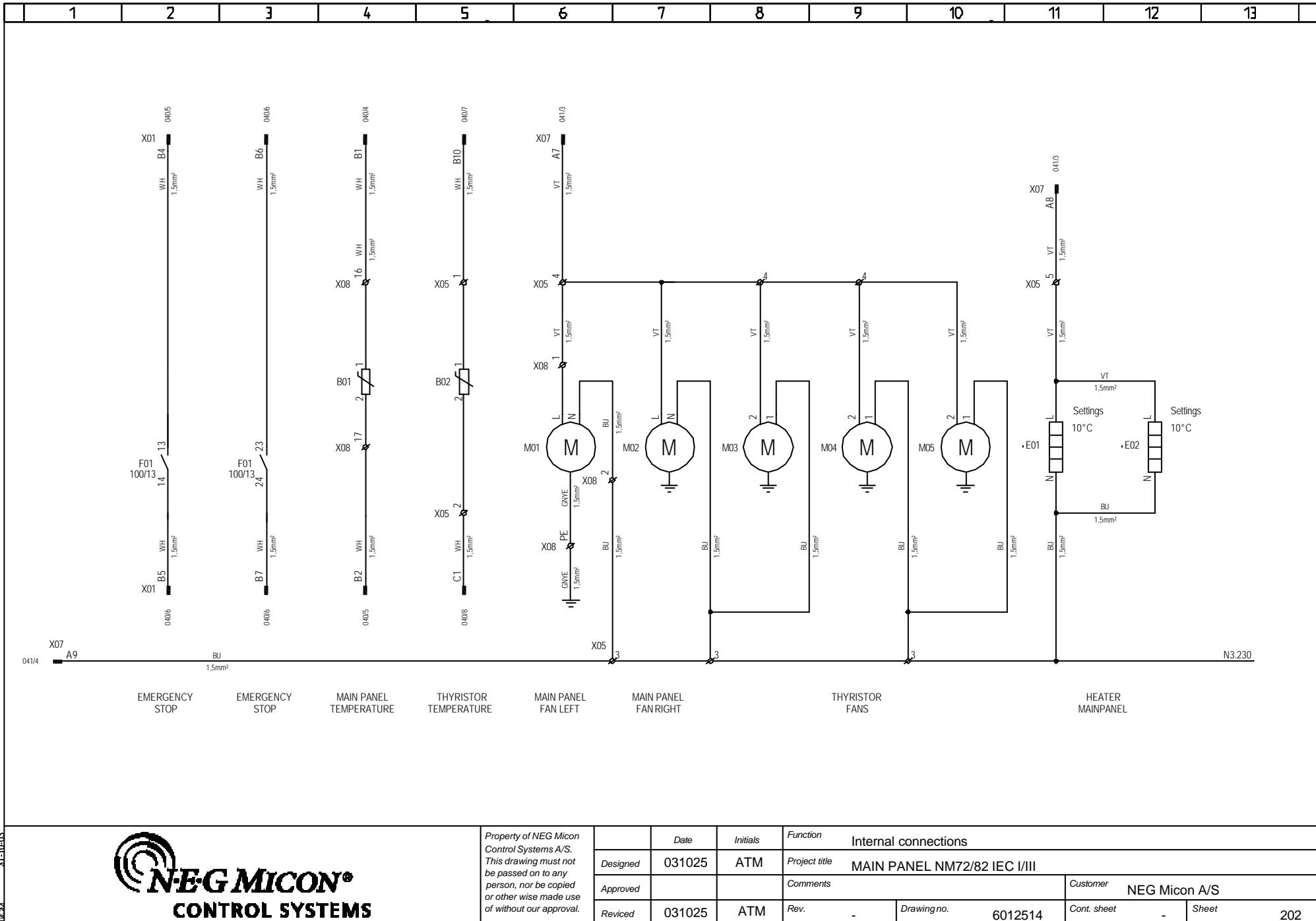
10.12.2013

31.10.03



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	Date	Initials	Function	Internal connections		
Designed	031025	ATM	Project title	MAIN PANEL NM72/82 IEC I/III		
Approved			Comments		Customer	
Revised	031025	ATM	Rev. -	Drawing no.	6012514	Cont. sheet 202 Sheet 201



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Material	60096208	Quantity	Un	SortStrng	Item	text	line	1
Description	Main Panel +AT1 1500/1650kW 690V 50Hz							
Obj	Object description							
60096708	CABINET TS8 800x2200x600mm 1 DOOR w.WORK	1	PC					
60097661	CABINET TS8 800x2200x600mm 1 DOOR w.WORK	1	PC					
60097749	MOUNTING PLATE TS8 699x2096mm w. WORK	1	PC					
60097750	MOUNTING PLATE TS8 699x2096mm w. WORK	1	PC					
60010316	BASE PLATE CLAMP for MOUNTING PLATE TS8	2	PC					
60010473	COMBINATION ANGLE 4540.000	2	PC					
60010570	COVER for BAYING TS 8800.460 600mm	1	PC					
60010560	ATTACHMENT f.MOUNTING PLATE TS 8800.050	4	PC					
60010550	PUNCH SECTION 8612.160 600x73mm OUTER	1	PC					
60010548	PUNCH SECTION 8612.060 600x73mm INNER	10	PC					
60010551	PUNCH SECTION 8612.180 800x73mm OUTER	6	PC					
60010569	ANGULAR BAYING BRACKET TS 8800.430	4	PC					
60010573	QUICK FIT BAYING CLAMP TS 8800.500	6	PC					
60010474	BAYING BRACKET 4582.500	1	PC					
60010456	DOOR-OPERATED SWITCH PS4127.000	2	PC	S01-S02				
60010472	SUPPORT RAIL TS8 4398.000 800mm	2	PC					
60010484	SUPPORT STRIP 4697.000 740mm	1	PC					
60010699	CONDENSATION PROTECTION DRY BAG 500g	3	PC					
60002320	STICKER GENERAL USE NEGM CONTROL SYSTEMS	1	PC					
60097571	TYPE SIGN NM72/NM82 IEC I/III +AT1.	1	PC					
60002569	THERMOLABEL "Main panel + AT1"	1	PC					
60002430	THERMOLABEL "48 Nm"	5	PC					
60002429	THERMOLABEL "70 Nm"	4	PC					
60006822	STICKER "LYN" 25mm	5	PC					
60006823	STICKER "LYN" 50mm	2,000	SH					
60006824	STICKER "LYN" 100mm	1,000	SH					
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B01				
60007481	CABLE RACK TK 5-7	1	PC	B01				
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B02				
60007481	CABLE RACK TK 5-7	1	PC	B02				
60014729	HEATER FAN CR0 27 230V 350W UL	2	PC	E01-E02				
60091912	END STOP WAGO 249-117 10mm TS35	4	PC	E01-E02				
60007182	DIN RAIL PP0735H 7x35mm	1,430	M					
60005750	ACB E2B R2000 PR111 LSIG INTEGRATED 230V	1	PC	F01				
60013843	FITTINGS UNIVERSAL for E-CB	1	PC	F01				
60005670	MCCB S3X 3P 200 R160	1	PC	F03				
60005723	TERMINAL COVER 13693 S3-S4 3-POLED IP20	2	PC	F03				
60000674	OVERVOLTAGE PROTECTOR 600FM	3	PC	F04				
60000675	BUSBAR for 3 OVERVOLTAGE PROTECTORS	1	PC	F04				
60013281	CU BUSBAR 3x15x75mm FISHPLATE f.DEHNGUAR	1	PC	F04				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F04				
60007399	HEAT SHRINK TUBING 3:1 YEL/GR FR3 12.7mm	0,030	M	F04				
60005079	FUSE SWITCH NH00 33199 3-P. 160A 690VAC	1	PC	F05				
60005097	FUSE NH00 3NA3820-6 gL/gG 50A 690V	3	PC	F05				
60005355	SEMICON. FUSE PSC IEC/UL 800A 450-660V	3	PC	F09				
60005358	AUX.CONTACT MS3V f.DIODE FUSE SIZE 30-33	3	PC	F09				
60015746	RC UNIT 2t459 THYRISTOR 690V 0.033µF+2	1	PC	F12				
60015746	RC UNIT 2t459 THYRISTOR 690V 0.033µF+2	1	PC	F13				
60015746	RC UNIT 2t459 THYRISTOR 690V 0.033µF+2	1	PC	F14				
60005071	FUSE SWITCH NH00 33198 3-POLED	1	PC	F15				
60005097	FUSE NH00 3NA3820-6 gL/gG 50A 690V	3	PC	F15				
60000674	OVERVOLTAGE PROTECTOR 600FM	3	PC	F16				
60000675	BUSBAR for 3 OVERVOLTAGE PROTECTORS	1	PC	F16				
60013281	CU BUSBAR 3x15x75mm FISHPLATE f.DEHNGUAR	1	PC	F16				
60007399	HEAT SHRINK TUBING 3:1 YEL/GR FR3 12.7mm	0,030	M	F16				
60004648	CIRCUIT BREAKER 3RV1021-0AA10 0.11-0.16A	1	PC	F17				
60007258	BUSBAR ADAPTOR 8US12 50-5RM07 45mm	1	PC	F17				
60004712	CIRCUIT BREAKER 3RV1421-1GA10 4.5-6.3A	1	PC	F19				
60005759	RCCB 5SM1312-6 2-POLED 25A 500VAC	2	PC	F20,F22				
60005160	MCB 5SX2210-7 C 2-POL.10.0A 440VAC-60VDC	2	PC	F21,F23				
60007240	BUSBAR HOLDER 8US1923 12x5-10x30mm	2	PC					
60006819	STICKER "JORD" 14mm	22	PC					
60004316	CONTACTOR EH1200 230V 50Hz/240V 60Hz	1	PC	K01				
60004316	CONTACTOR EH1200 230V 50Hz/240V 60Hz	1	PC	K02				
60004316	CONTACTOR EH1200 230V 50Hz/240V 60Hz	1	PC	K03				
60007833	TINNED CU WIRE 1x35mm ² 100mm Ø10 IEC/UL	3	PC	K01-03				
60012395	WIRING NM1500C RC UNIT MAIN PANEL SPADE	3	PC	K01-03				
60006826	STICKER "1" 14mm	3	PC					

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Version: 01

Material	Description	Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60006827	STICKER "2" 14mm			3	PC					
60015667	TRIGGER BOARD TAC 40 690V			1	PC	K05				
60004535	RELAY MT326230 10A 11-PIN 3-POLED 230V			1	PC	K06				
60005026	SOCKET MT 78740 11-POLED			1	PC	K06				
60005028	FASTENING BRACKET for 3-POLED RELAY			1	PC	K06				
60014608	FAN 1-PHASE 230V 18W 120x120x38mm			3	PC	M03/04/05				
60014614	PROTECTIVE SCREEN 120*120mm METAL			3	PC	M03/04/05				
60013649	PLATE ALU for FAN 8844			3	PC	M03/04/05				
60014655	FAN 1-PHASE 230V 500m³/h 64W 323x323x125			2	PC	M01/02				
60014668	EXHAUST FILT. 3326.200 f.500-700m³/h FAN			2	PC	M01/02				
60014678	SEALING FRAME IP54 for 500-700m³/h FAN			4	PC	M01/02				
60015824	RESISTOR SHUNT 3x2.5 ohm			1	PC	R01				
60091912	END STOP WAGO 249-117 10mm TS35			1	PC	R01				
60000608	VDR SIOV-S10K275 275V			1	PC	R02				
60007164	CURRENT TRAFO K100K 1004813 2000/1A 25VA			3	PC			T01,T02,T03		
60007140	CURRENT TRAFO G33 024-3413 200/1A			3	PC			T04,T05,T06		
60004961	POWER CONVERTER WAD 200kW/690V 4-20mA			1	PC	T07				
60091319	ISOLA.TRAFO UI180/757376 600-690/2x115V			1	PC	T08				
60001041	THYRISTOR MOD. 2T699N22TOF-K0 092S/1-V03			3	PC	V01/02/03				
60007635	CABLE GLAND BMBC-07 M63 BRASS			51	PC					
60007644	LOCKNUT BMBL-08 M63 BRASS			51	PC					
60013855	BAND STEEL 3x20mm for TS8 800x2200mm			4	PC					
60091480	Cable entry plate			1	PC					
60006812	STICKER "U" 14mm			3	PC					
60006813	STICKER "V" 14mm			3	PC					
60006814	STICKER "W" 14mm			3	PC					
60006810	STICKER "P" 14mm			1	PC					
60006811	STICKER "E" 14mm			1	PC					
60006809	STICKER "N" 14mm			1	PC					
60006815	STICKER "L1" 14mm			2	PC					
60006816	STICKER "L2" 14mm			2	PC					
60006817	STICKER "L3" 14mm			2	PC					
60006576	HOUSING C14610F0240001 46P BULKHEAD			1	PC	X01				
60002503	THERMOLABEL "-X01"			1	PC	X01				
60006036	TERMINAL UKK3-MSTB-5.08-2			10	PC	X02				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm			1	PC	X02				
60091912	END STOP WAGO 249-117 10mm TS35			2	PC	X02				
60006038	SPACER PLATE DG-UKK3-MSTB-5.08 RIGHT			1	PC	X02				
60006039	SPACER PLATE DP-UKK3-MSTB-5.08 LEFT			1	PC	X02				
60006040	SEPARATION PLATE D-UKK3-MSTB-5.08 LEFT			1	PC	X02				
60001899	MSTB 2.5/10-ST-5.08 FEM. SCREW ANGLE			2	PC	X02				
60006621	TERMINAL LABEL 1-10 5.08 mm			1	PC	X02				
60006042	SIGN for TERMINAL ZB-5LGS 1-10			1	PC					
60006043	SIGN for TERMINAL ZB-5LGS 11-20			1	PC					
60006622	TERMINAL LABEL 11-20 5.08 mm			1	PC	X02				
60006566	HOUSING C14610F0100001 42P BULKHEAD			1	PC	X03				
60002505	THERMOLABEL "-X03"			1	PC	X03				
60006566	HOUSING C14610F0100001 42P BULKHEAD			1	PC	X04				
60002506	THERMOLABEL "-X04"			1	PC	X04				
60006071	TERMINAL WAGO 870-501 2-LEV.0,08-2,5mm²			21	PC	X05				
60006083	END SECTION 870-518 2-LEVEL GREY			1	PC	X05				
60091912	END STOP WAGO 249-117 10mm TS35			1	PC	X05				
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED			5	PC	X05				
60006088	PUSH-IN JUMPER BAR 870-404 4-POLED			5	PC	X05				
60006089	PUSH-IN JUMPER BAR 870-405 5-POLED			2	PC	X05				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm			1	PC	X05				
60097874	MARK WAGO +AT1 PANEL NM72/82			1,000	SH	X05				
60007201	EARTH BAR 01130 9x6.5x1000mm			0,230	M					
60013412	ANGLE BRACKET 2x10x25mm f. EARTH BUSBAR			4	PC					
60011505	TILLEX BAND TUB12 13x2mm GREY			0,600	M					
60097880	LASER LABEL +AT1 NM72/82 IEC I/III			1,000	SH					
60006571	HOUSING C14610F0160001 32P BULKHEAD			1	PC	X07				
60002509	THERMOLABEL "-X07"			1	PC	X07				
60006038	SPACER PLATE DG-UKK3-MSTB-5.08 RIGHT			1	PC	X08				
60006039	SPACER PLATE DP-UKK3-MSTB-5.08 LEFT			1	PC	X08				
60006040	SEPARATION PLATE D-UKK3-MSTB-5.08 LEFT			1	PC	X08				
60006036	TERMINAL UKK3-MSTB-5.08-2			10	PC	X08				
60005984	TERMINAL GROUND M4/6P			1	PC	X08				

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LST: 21000074

Version: 01

Material 60096208**Description** Main Panel +AT1 1500/1650kW 690V 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60005998	END SECTION FEM6 GREY 118368.16	1	PC	X08				
60001899	MSTB 2.5/10-ST-5.08 FEM. SCREW ANGLE	2	PC	X08				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	X08				
60006621	TERMINAL LABEL 1-10 5.08 mm	1	PC	X08				
60006622	TERMINAL LABEL 11-20 5.08 mm	1	PC	X08				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X08				
60093283	CU BUSBAR 10x60x762mm NM1500 UL	1	PC					
60093294	CU BUSBAR 10x60x808mm NM1500 UL	1	PC					
60093273	CU BUSBAR 10x60x749mm	1	PC					
60093285	CU BUSBAR 10x60x795mm	1	PC					
60093271	CU BUSBAR 10x60x724mm	1	PC					
60093280	CU BUSBAR 10x60x760mm	1	PC					
60013240	CU BUSBAR 6x40x60mm CB TOP R+L	5	PC					
60013305	CU BUSBAR 10x80x70mm CB TOP RIGHT + LEFT	8	PC					
60013306	CU BUSBAR 10x60x708mm CB-TOP LEFT	1	PC					
60013307	CU BUSBAR 10x60x743mm CB-BYPASS BELOW L.	1	PC					
60013308	CU BUSBAR 10x60x708mm CB-BYPASS BELOW R.	1	PC					
60013309	CU BUSBAR 10x60x740mm CB-BYPASS BELOW R.	1	PC					
60013310	CU BUSBAR 10x60x738mm CB-BYPASS TOP CENT	1	PC					
60013311	CU BUSBAR 10x60x792mm CB-BYPASS BELOW R.	1	PC					
60013251	CU BUSBAR 8x60x60mm SPACER	3	PC					
60013839	BRACKET 5x40x471mm for ISOLATOR	1	PC					
60013252	CU BUSBAR 12x60x310mm POW.FACT.COR.ANGLE	1	PC					
60013253	CU BUSBAR 12x60x280mm POW.FACT.COR.ANGLE	1	PC					
60013254	CU BUSBAR 12x60x250mm POW.FACT.COR.ANGLE	1	PC					
60013264	FLEXIBAR 6x63x1x580mm CB to GRID CONT.	1	PC					F01 to K01
60013265	FLEXIBAR 6x63x1x580mm CB to GRID CONT.	1	PC					
60013266	FLEXIBAR 6x63x1x1050mm CB to GRID CONT.	1	PC					
60007322	SPACER 15813030 for FLEX CU BAR 40-63mm	2	PC					
60013841	BRACKET 5x25x376mm for BUSBAR HOLDER	1	PC	FLEXIBAR				
60013312	CU BUSBAR 5x50x335mm FLEXIBAR - K01 L1/1	1	PC					
60013313	CU BUSBAR 5x50x360mm FLEXIBAR - K01 L2/1	1	PC					
60013314	CU BUSBAR 5x50x385mm FLEXIBAR - K01 L3/1	1	PC					
60013317	CU BUSBAR 10x50x265mm -K01 L3/2	3	PC					
60013327	CU BUSBAR 8x50x50mm NM82/64 SPACER	6	PC					
60013247	CU BUSBAR 2x50x63mm SPACER	4	PC					
60013828	BRACKET 5x40x472mm for ISOLATOR	1	PC					
60013255	CU BUSBAR 6x80x166mm THYR. FISHPLATE	3	PC	THYRISTOR				
60013267	FLEXIBAR 4x24x1x850mm THYRISTOR L1	1	PC					
60013268	FLEXIBAR 4x24x1x700mm THYRISTOR L2	1	PC					
60013269	FLEXIBAR 4x24x1x600mm THYRISTOR L3	1	PC					
60013545	CU BUSBAR 6x25x350mm THYR.ANGLE RC UNIT	3	PC					
60013540	FLEXIBAR 4x24x1x250mm THYR.-TOP L1 DK+UL	1	PC					
60013542	FLEXIBAR 4x24x1x680mm THYR.-TOP L2 DK+UL	1	PC					
60013544	FLEXIBAR 4x24x1x790mm THYR.-TOP L3 DK+UL	1	PC					
60007320	SPACER 15813010 for FLEX CU BAR	2	PC					
60013525	CU BUSBAR 12x50x280mm TOP L1 UL-1	1	PC	K02-TOP				
60013526	CU BUSBAR 12x50x250mm TOP L1 UL-2	1	PC					
60013528	CU BUSBAR 12x50x270mm TOP L2 DK+UL-1	1	PC					
60013529	CU BUSBAR 12x50x250mm TOP L2 UL-2	1	PC					
60013531	CU BUSBAR 12x50x315mm TOP L3 DK+UL-1	1	PC					
60013532	CU BUSBAR 12x50x290mm TOP L3 UL-2	1	PC					
60097907	CU BUSBAR 8x50x63mm SPACER	2	PC					
60013733	ANGLE SUPPORT 440mm for ISOLATOR	4	PC					
60007332	ISOLATOR 15850321 10x40mm for BUSBAR	18	PC					
60007333	ISOLATOR 15850461 10x50mm for BUSBAR	9	PC					
60007334	ISOLATOR 15850501 10x60mm for BUSBAR	3	PC					
60097803	CU BUSBAR 12x50x905 TOP-K03 L1/1	1	PC					
60097804	CU BUSBAR 12x50x880mm TOP-K03 L1/2	1	PC					
60097805	CU BUSBAR 12x50x900mm TOP-K03 L2/1	1	PC					
60097806	CU BUSBAR 12x50x875mm TOP-K03 L2/2	1	PC					
60097807	CU BUSBAR 12x50x940mm TOP to K03 L3/1	1	PC					
60097811	CU BUSBAR 12x50x920mm TOP to K03 L3/2	1	PC					
60013827	BRACKET 5x40x511mm for ISOLATOR	1	PC					
60093339	CU BUSBAR 12x50x678mm L3 POS. 1 1650 UL	2	PC					
60093328	CU BUSBAR 12x50x678mm L2 POS. 1 1650kW	2	PC					
60093297	CU BUSBAR 12x50x678mm L1 POS. 1	2	PC					
60093336	CU BUSBAR 12x50x270mm L3 POS. 5	6	PC					

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LST: 21000074

Version: 01

Material 60096208**Description** Main Panel +AT1 1500/1650kW 690V 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60093318	CU BUSBAR 12x50x682mm L1 POS. 2	2	PC					
60093325	CU BUSBAR 12x50x682mm L2 POS. 2	2	PC					
60093332	CU BUSBAR 12x50x682mm L3 POS. 2	2	PC					
60013836	COVER PVC 4x700x227mm	1	PC					
60013865	COVER PVC 4x700x710mm NM64/82 30t	1	PC					
60013866	COVER PVC 4x260x425mm NM64/82 30t	1	PC					
60013867	COVER PVC 4x160x425mm NM64/82 30t	1	PC					
60013868	COVER PVC 4x60x291mm NM64/82 30t	1	PC					
60013869	COVER PVC 4x60x193mm NM64/82 30t	1	PC					
60014614	PROTECTIVE SCREEN 120*120mm METAL	1	PC					
60013660	ANGLE BRACKET 1 for COVER NM80 +AT1	1	PC					
60013661	ANGLE BRACKET 2 for COVER NM80 +AT1	1	PC					
60013662	ANGLE BRACKET BOTTOM for COVER NM80 +AT1	2	PC					
60097683	CU BUSBAR 10x60x80mm CB TOP Middle	2	PC					
60097699	CU BUSBAR 10x30x390mm FUSE ELEMENT	3	PC					
60097710	CU BUSBAR 10x60x164mm L1	4	PC					
60097738	CU BUSBAR 10x60x164mm L2	4	PC					
60097740	CU BUSBAR 10x60x164mm L3	4	PC					
60013901	COVER PVC AUX supply NM1500/NM1650 IEC	1	PC					
60097742	COVER PVC BUSBAR AUX SUPPLY	1	PC					
60013829	COVER ALU-ZINC 2x540x870mm	1	PC					
60007834	TINNED CU WIRE 1x35mm ² 200mm Ø10 IEC/UL	2	PC					
60007829	TINNED CU WIRE 1x16mm ² 150mm Ø8 IEC/UL	2	PC					
60097628	WIRING F04&F05 MAIN NM72/82 IEC I/III	1	PC					
60097630	WIRING X08 MAIN NM72/82 IEC I/III	1	PC					
60097626	WIRING 230VAC MAIN NM72/82 IEC I/III	1	PC					
60097623	WIRING 24VDC3 MAIN NM72/82 IEC I/III	1	PC					
60097627	WIRING F03&F15 MAIN NM72/82 IEC I/III	1	PC					
60097635	WIRING M03-05 MAIN NM72/82 IEC I/III	1	PC					
60097624	WIRING R01&X04 MAIN NM72/82 IEC I/III	1	PC					
60097644	WIRING T07 MAIN NM72/82 IEC I/III	1	PC					
60097645	WIRING T08 MAIN NM72/82 IEC I/III	1	PC					
60097620	WIRING X01 MAIN NM72/82 IEC I/III	1	PC					
60097609	WIRING X07 MAIN NM72/82 IEC I/III	1	PC					
60097909	WIRING F03 MAIN NM72/82 IEC I/III	1	PC					
60012609	WIRING NM82/NM64 DOOR EARTH	1	PC					
60012619	WIRING TRIGGER BOARD NM82/NM64 30t	1	PC					
60097646	WIRING X10&X11 MAIN NM72/82 IEC I/III	1	PC					
60097649	Cable -X03 MAIN NM72/82 IEC I/III	1	PC					
60007350	CABLE CONDUIT 21150 15x25mm	1,250	M					
60007351	CABLE CONDUIT 21153 15x40mm	0,650	M					
60007354	CABLE CONDUIT 21154 25x40mm	2,800	M					
60007358	CABLE CONDUIT 21155 40x40mm	2,100	M					
60007359	CABLE CONDUIT 21160 40x60mm	3,440	M					
60007360	CABLE CONDUIT 21166 40x80mm	2,320	M					
60005768	LOAD BREAK SWITCH OT25ET3 3-POLED	1	PC	Q01				
60005774	HANDLE OHB 2RJ BLACK	1	PC	Q01				
60005776	SWITCH COVER OTS32T3 3-POLED	2	PC	Q01				
60002561	THERMOLABEL "Q01"	1	PC	Q01				
60006038	SPACER PLATE DG-UKK3-MSTB-5.08 RIGHT	1	PC	X09				
60006039	SPACER PLATE DP-UKK3-MSTB-5.08 LEFT	1	PC	X09				
60006040	SEPARATION PLATE D-UKK3-MSTB-5.08 LEFT	1	PC	X09				
60006036	TERMINAL UKK3-MSTB-5.08-2	2	PC	X09				
60001853	MSTB 2.5/2-ST-5.08 FEM. SCREW ANGLE	1	PC	X09				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	X09				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X09				
60011436	SOCKET 216RU6 2P+E 250V 16A CEE	1	PC	X10				
60011437	GASKET B 232 for SOCKET 216RU6 CEE	1	PC	X10				
60002564	THERMOLABEL "X10"	1	PC	X10				
60011441	CEE outlet 3P+PE 200-250V 16A 316RU9	1	PC	X11				
60011442	GASKET B 363 for SOCKET 316RU6 CEE	1	PC	X11				
60002565	THERMOLABEL "X11"	1	PC	X11				
60006190	TUBULAR CABLE SHOE KRT 10mm - 70.0mm ²	32	PC					Generator kabler
60013341	Grid connection PEN 30T 2003	1	PC					
60013336	CU BUSBAR 10x60x60mm NM82/64 SPACER	7	PC					
60093374	CU BUSBAR 10x80x658mm POS. 1 1650kW UL	2	PC					
60093376	CU BUSBAR 10x30x658mm POS. 1 1650kW UL	1	PC					
60093377	CU BUSBAR 10x80x658mm POS. 2 1650kW UL	2	PC					

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LST: 21000074

Version: 01

Material 60096208

Description Main Panel +AT1 1500/1650kW 690V 50Hz

Obj	Object description	Quantity	Un SortStrng	Item	text	line	1
60093375	CU BUSBAR 10x30x658mm POS. 2 1650kW UL	1			PC		
60093379	CU BUSBAR 10x80x658mm POS. 3 1650kW UL	2			PC		
60093378	CU BUSBAR 10x30x658mm POS. 3 1650kW UL	1			PC		
60094022	Bracket for grid connection	6			PC		
60094014	CU bar spacer grid connection	4			PC		
60007283	BUSBAR COVER 78 393 12-30x10mm	1			M		
60007632	CABLE GLAND BMBC-04 M32 BRASS	2			PC		
60007633	CABLE GLAND BMBC-05 M40 BRASS	1			PC		
60007641	LOCKNUT BMBL-05 M32 BRASS	2			PC		
60007642	LOCKNUT BMBL-06 M40 BRASS	1			PC		
60097910	SIGN GRID CONNECTION NM72/NM82 IEC I/III	2			PC		

Change Info

<u>Item no.</u>	<u>Item text:</u>
None	Control Panel +AT2 Passive Stall/Active Stall 30T 50Hz

Active revision for production

Drawing number: 6012290

Version	Date	Init./App.	Description of change since last revision
01	06.10.2003	CHO/CHO	First version

LST number: 21000075

Version	Date	Init./App.	Material BOM number: 60096681
01	16.09.2003	CHO/CHO	Description of change since last revision First version

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

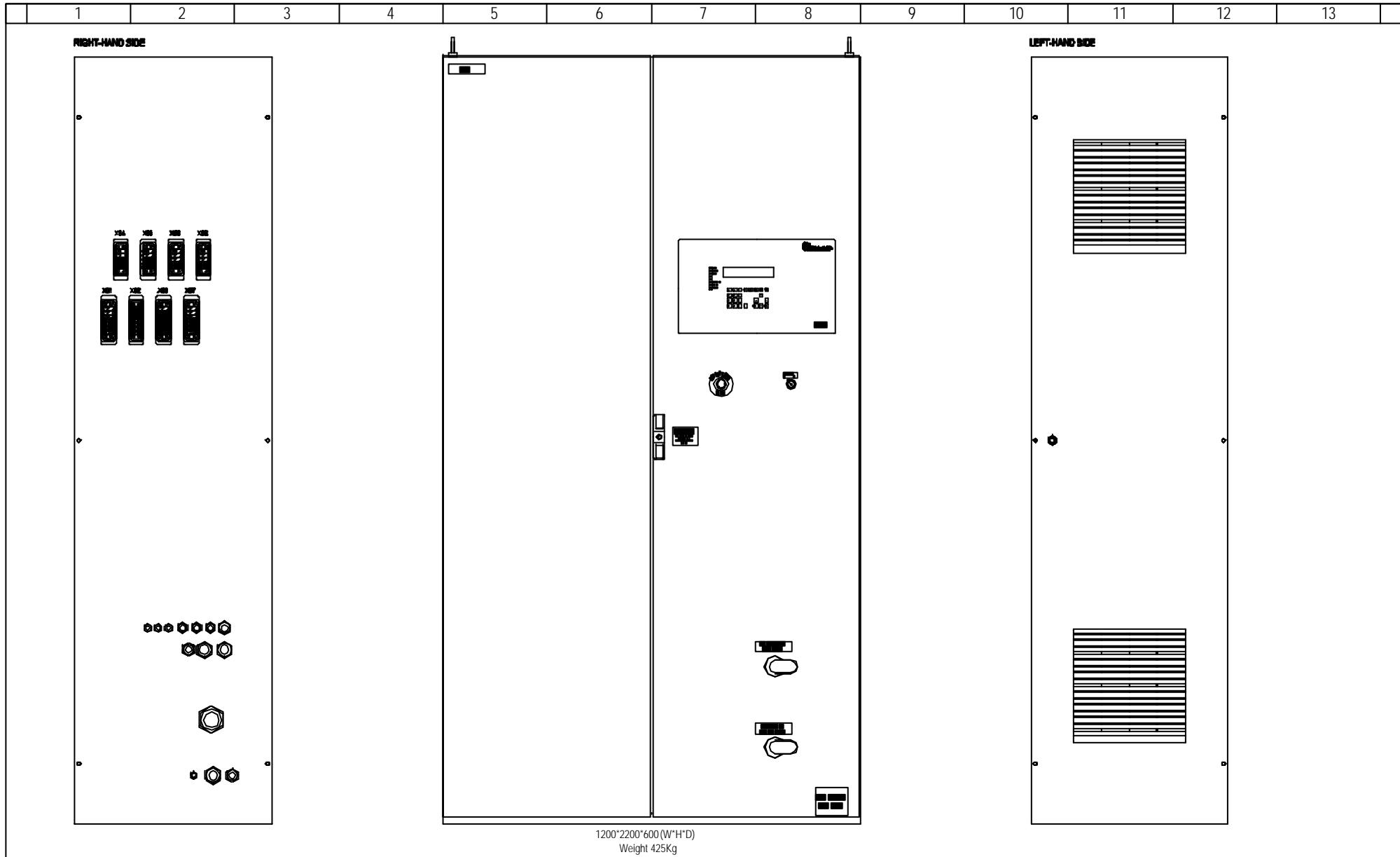
Version	Date	Init./App.	Material BOM number: xxxxxxxx
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change

1	2	3	4	5	6	7	8	9	10	11	12	13
PAGE	CONTENT							DATE		REVISION		
001	Table of Content							031006		01		
002	Table of Content							031006		01		
030	Panel front layout							031006		-		
031	Panel Outline							031006		-		
032	Spare							031006		-		
033	Panel outline doors and s							031006		-		
034	Terminal row X10, X22.							031006		-		
035	Terminal row X11, X12, B0							031006		-		
036	Terminal row X13, X20							031006		-		
037	Terminal rows for Options							031006		-		
040	External connection X01 t							031006		-		
041	External connection X02 t							031006		-		
042	External connection X03 t							031006		-		
043	External connection X04 t							031006		-		
044	External connection X05 t							031006		-		
045	External connection X06 t							031006		-		
046	External connection X07 t							031006		-		
047	External connection X08 t							031006		-		
048	External connection X10							031006		-		
049	External connection X11 X							031006		-		
050	External connection for t							031006		-		
100	690V circuits							031006		-		
101	690V circuits							031006		-		
102	690V circuits							031006		-		
103	690V circuits							031006		-		
104	690V circuits							031006		-		
110	690V circuits							031006		-		
111	690V circuits nacelle hea							031006		-		
200	230V circuits							031006		-		
201	230V circuits							031006		-		
202	230V circuits							031006		-		
210	230V circuits							031006		-		
211	230V circuits							031006		-		
300	TAC Output P4.1 - P4.5 tr							031006		-		
301	TOI Output 800 - 808							031006		-		
302	TOI Output 810 - 818							031006		-		

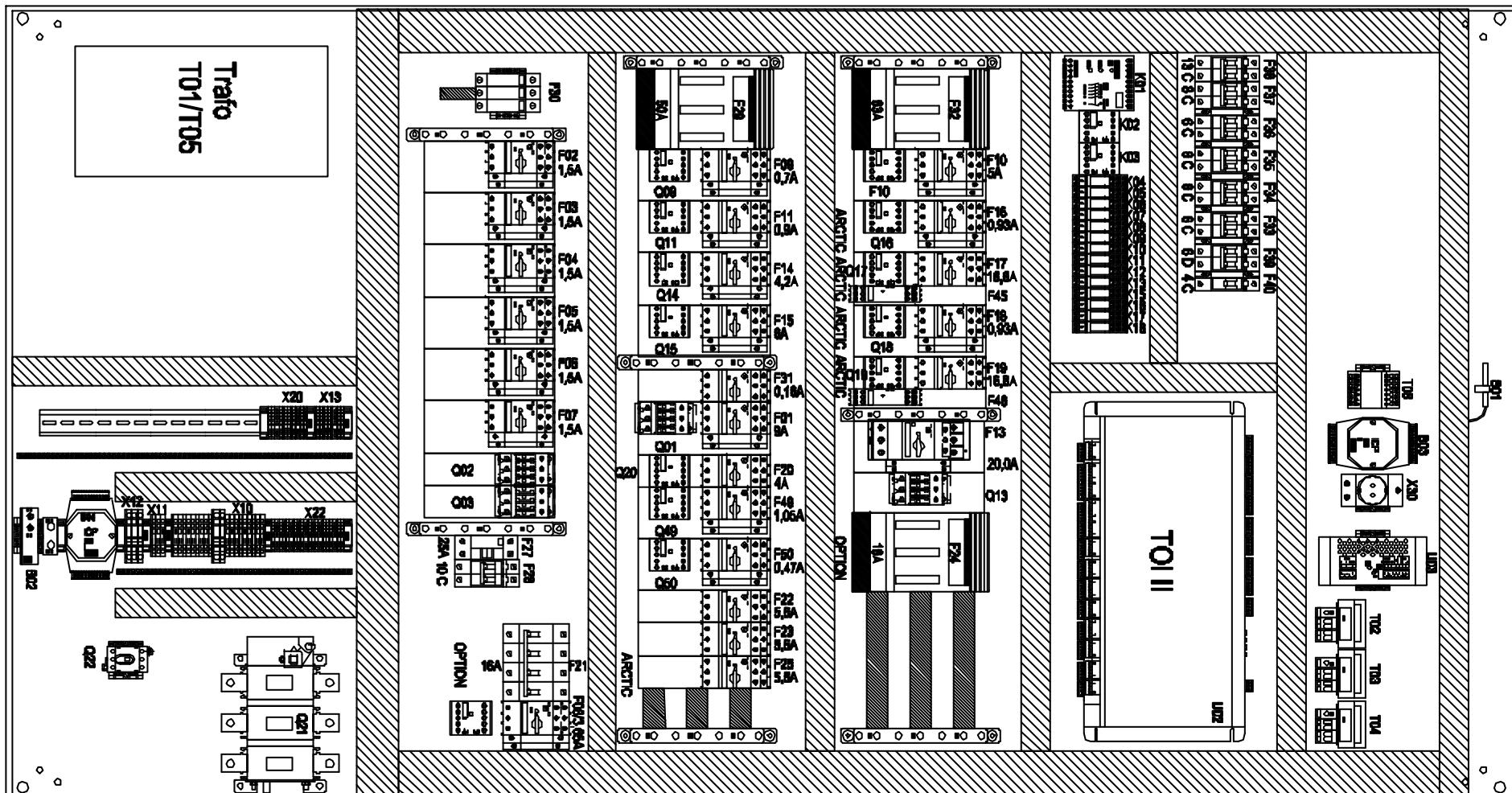


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	Date	Initials	Function	Table of Content						
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Reviced	031006	CHO	Rev.	01	Drawing no.	6012290	Cont. sheet	030	Sheet	002



	Date	Initials	Function	Panel front layout		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	031	Sheet	030



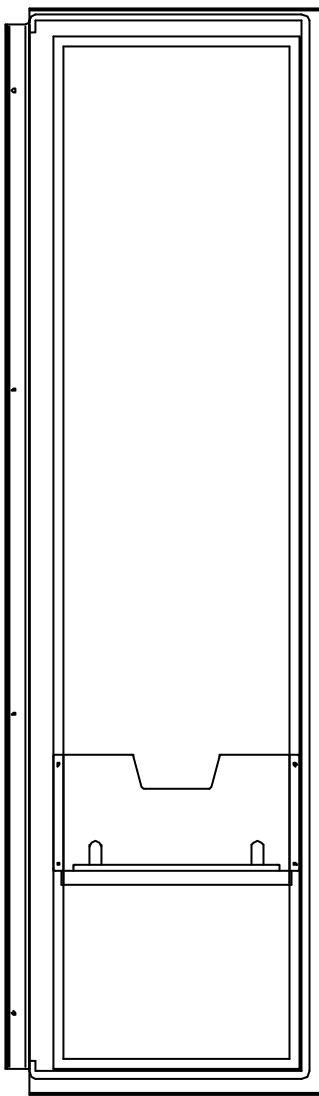
	Date	Initials	Function	Panel Outline
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	031006	CHO	Rev. -	Drawing no. 6012290 Cont. sheet 032 Sheet 031

	1	2	3	4	5	6	7	8	9	10	11	12	13	
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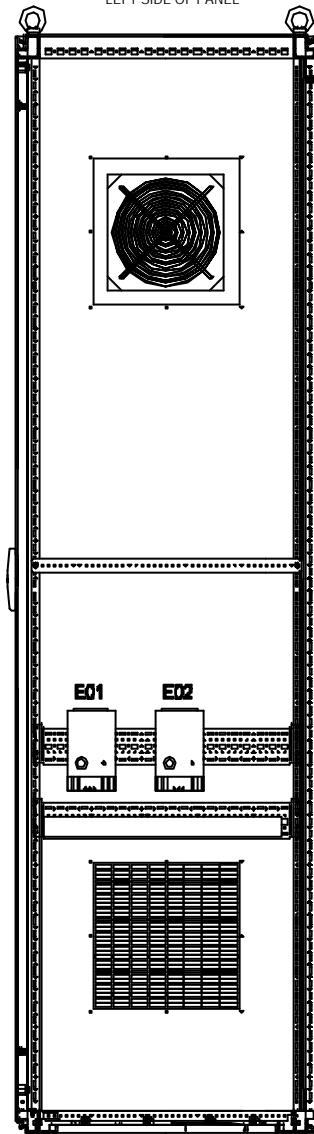
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Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	031006	CHO	Rev. -	Drawing no. 6012290 Cont. sheet 033 Sheet 032

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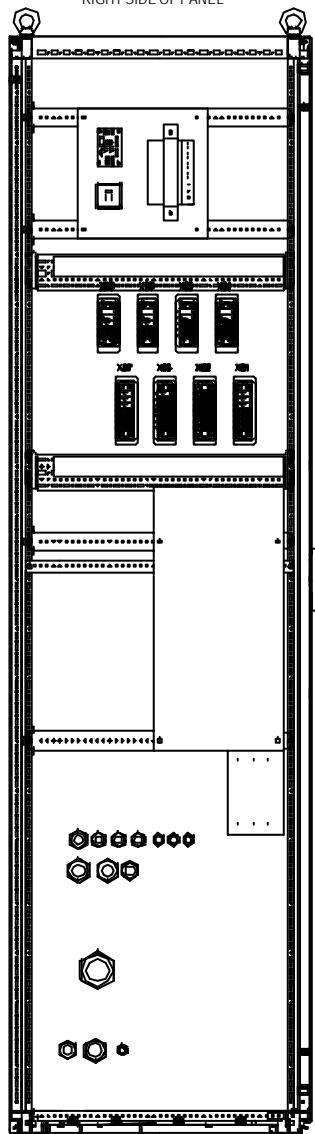
LEFT DOOR



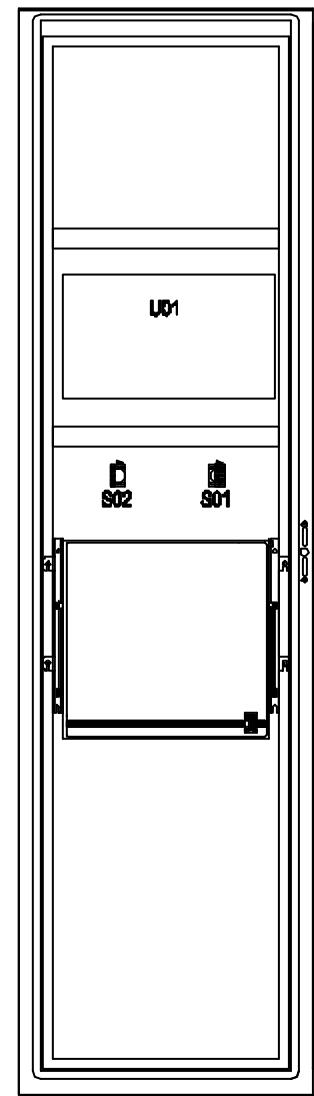
LEFT SIDE OF PANEL



RIGHT SIDE OF PANEL

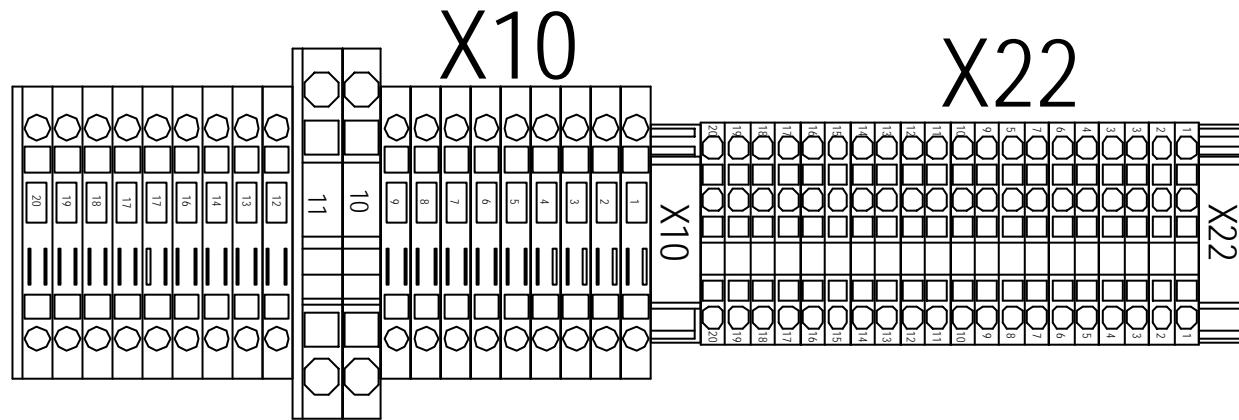


RIGHT DOOR

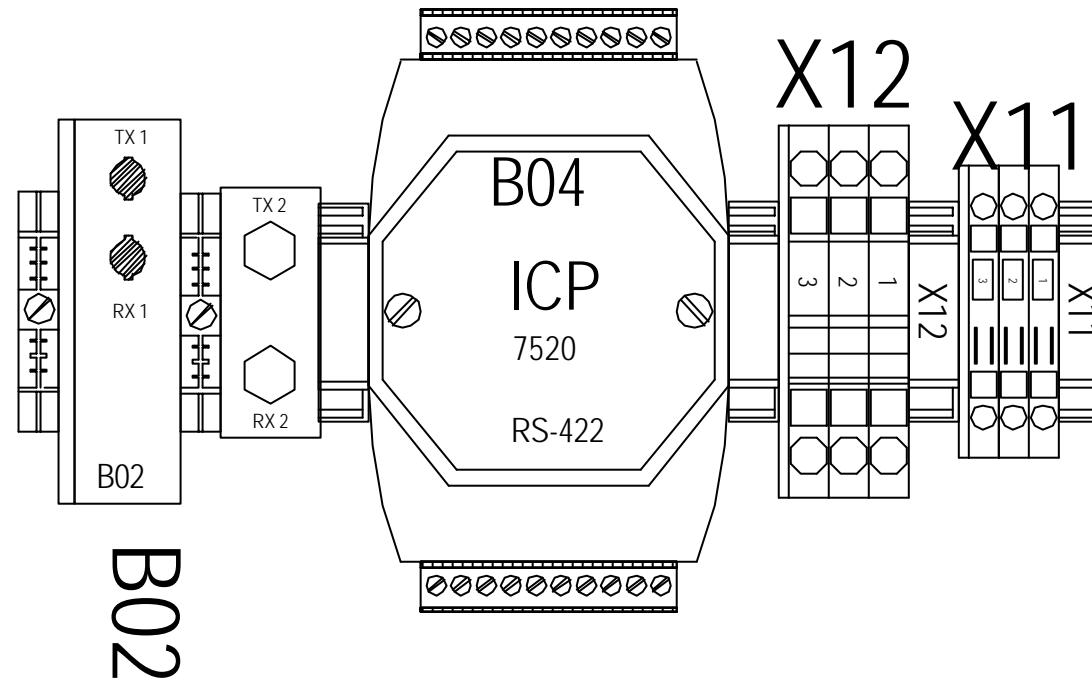


	Date	Initials	Function	Panel outline doors and sides		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	034	Sheet	033

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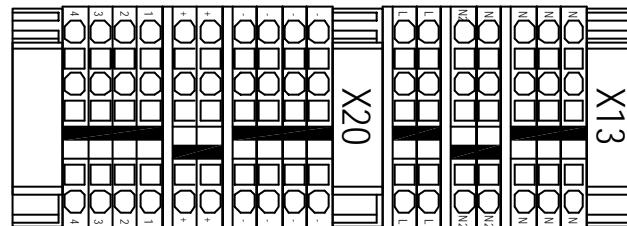
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Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev. -	Drawing no.	6012290	Cont. sheet 035 Sheet 034



	Date	Initials	Function	Terminal row X11, X12, B02, B04				
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz				
Approved			Comments	Customer NEG Micon A/S				
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet 036	Sheet 035

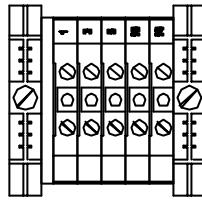
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X20 X13

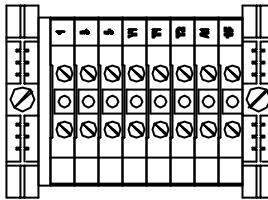


	Date	Initials	Function	Terminal row X13, X20		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	037	Sheet	036

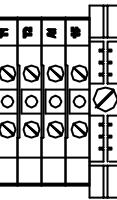
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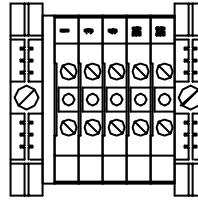
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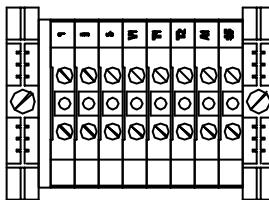
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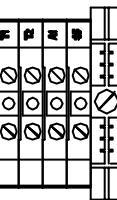
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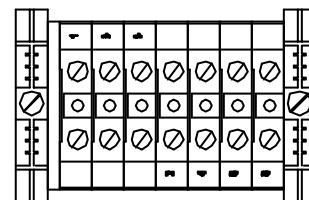
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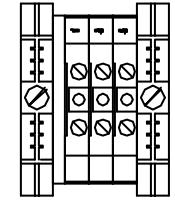
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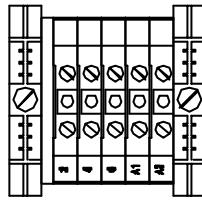
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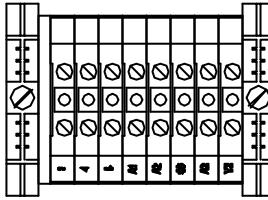
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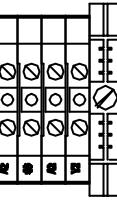
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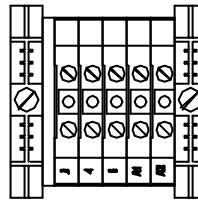
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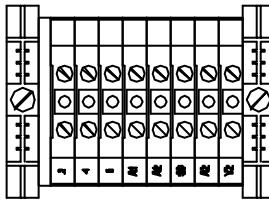
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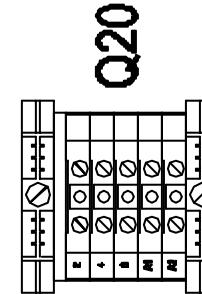
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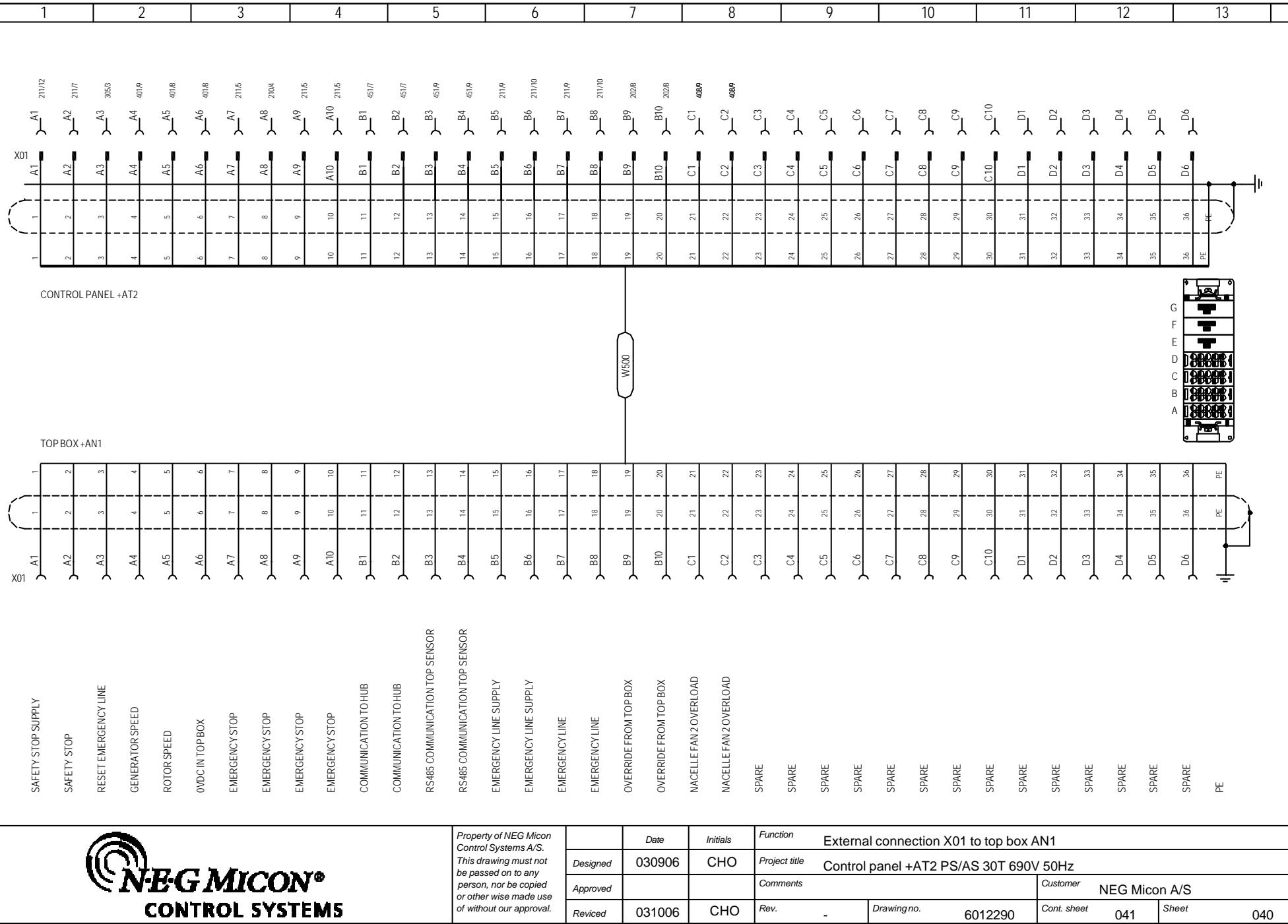


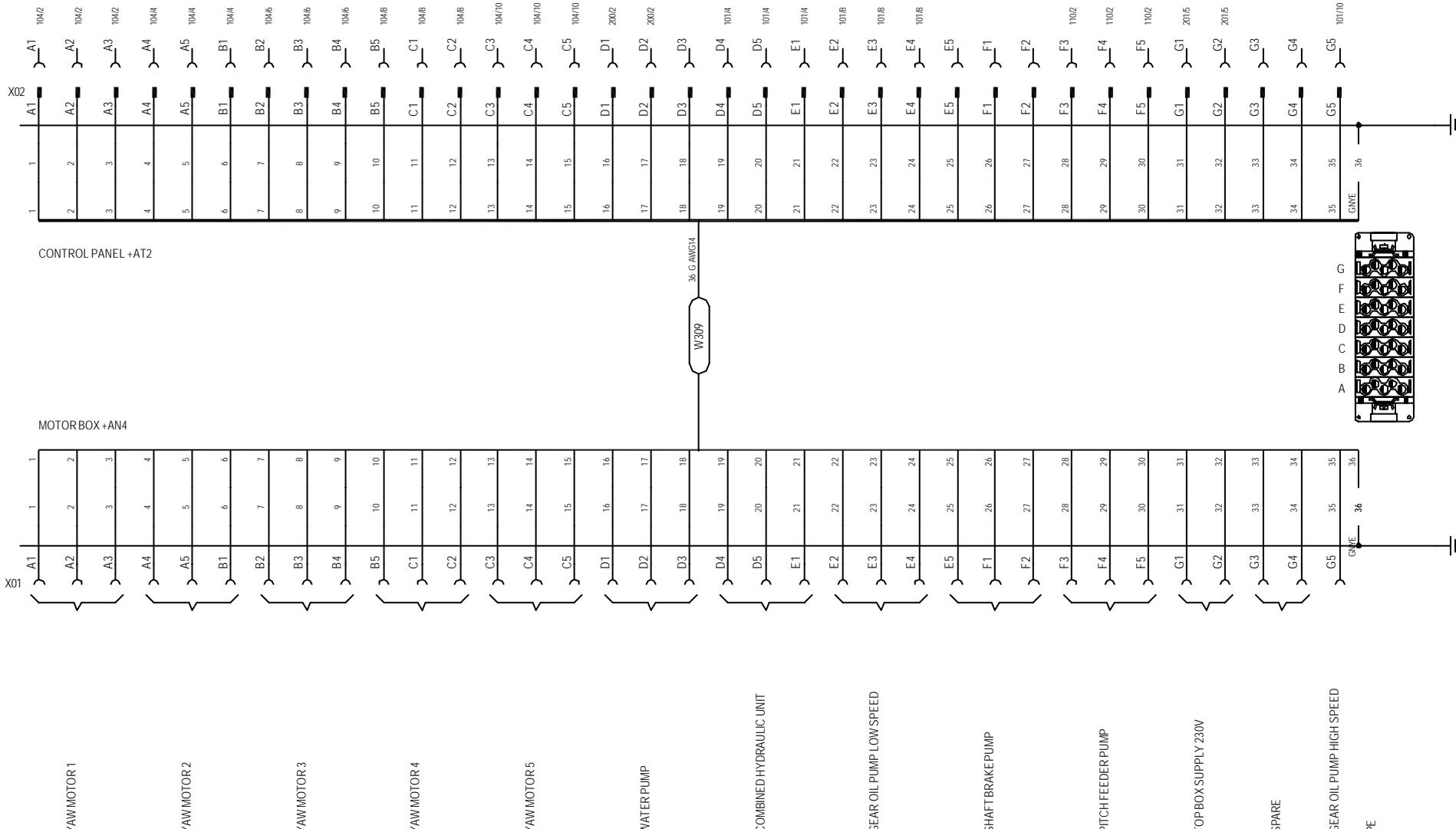
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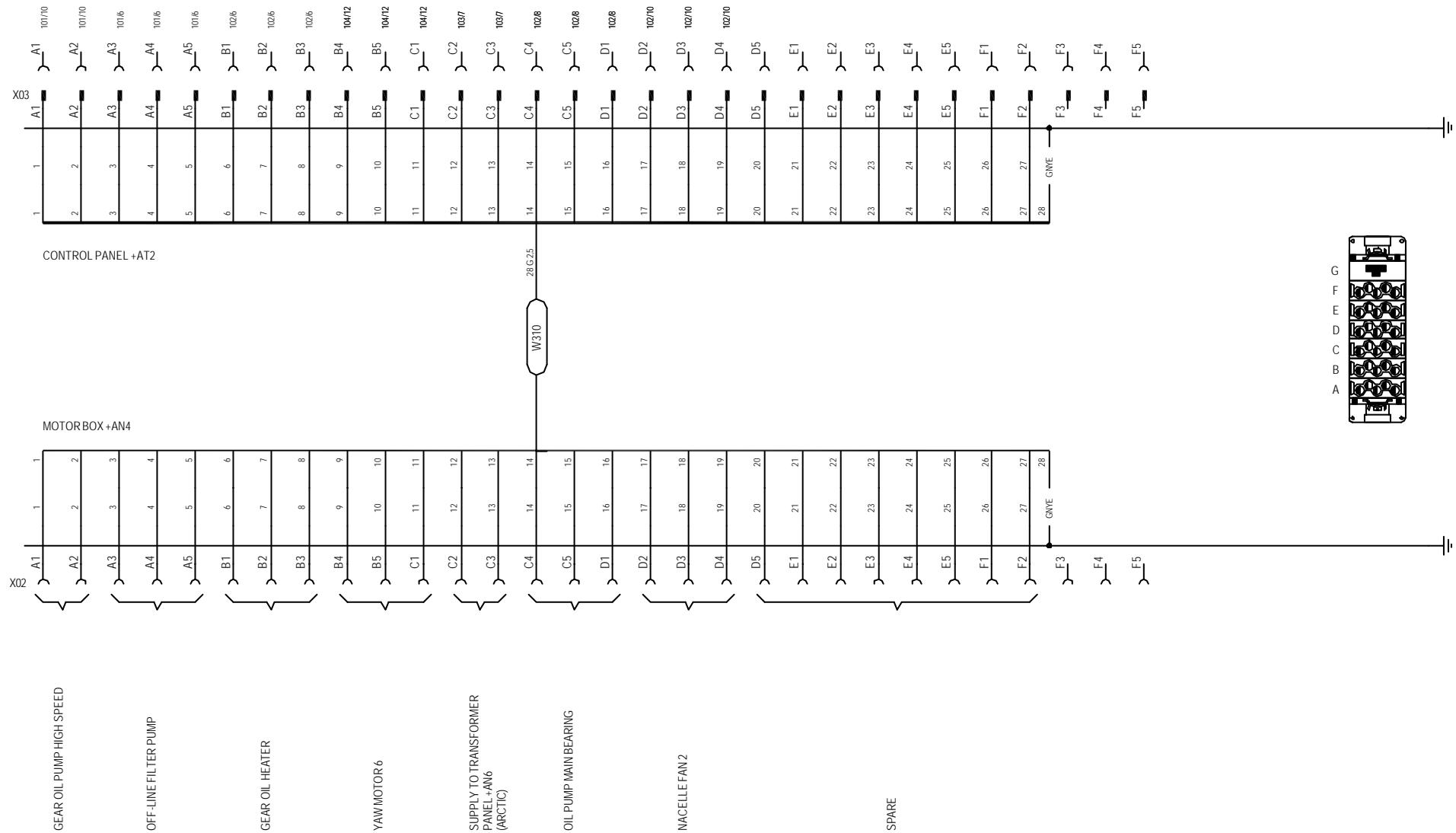
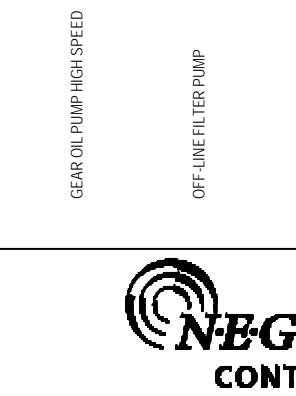


Q20

	Date	Initials	Function	Terminal rows for Options		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments	Customer NEG Micon A/S		
Revised	031006	CHO	Rev. -	Drawing no.	6012290	Cont. sheet 040



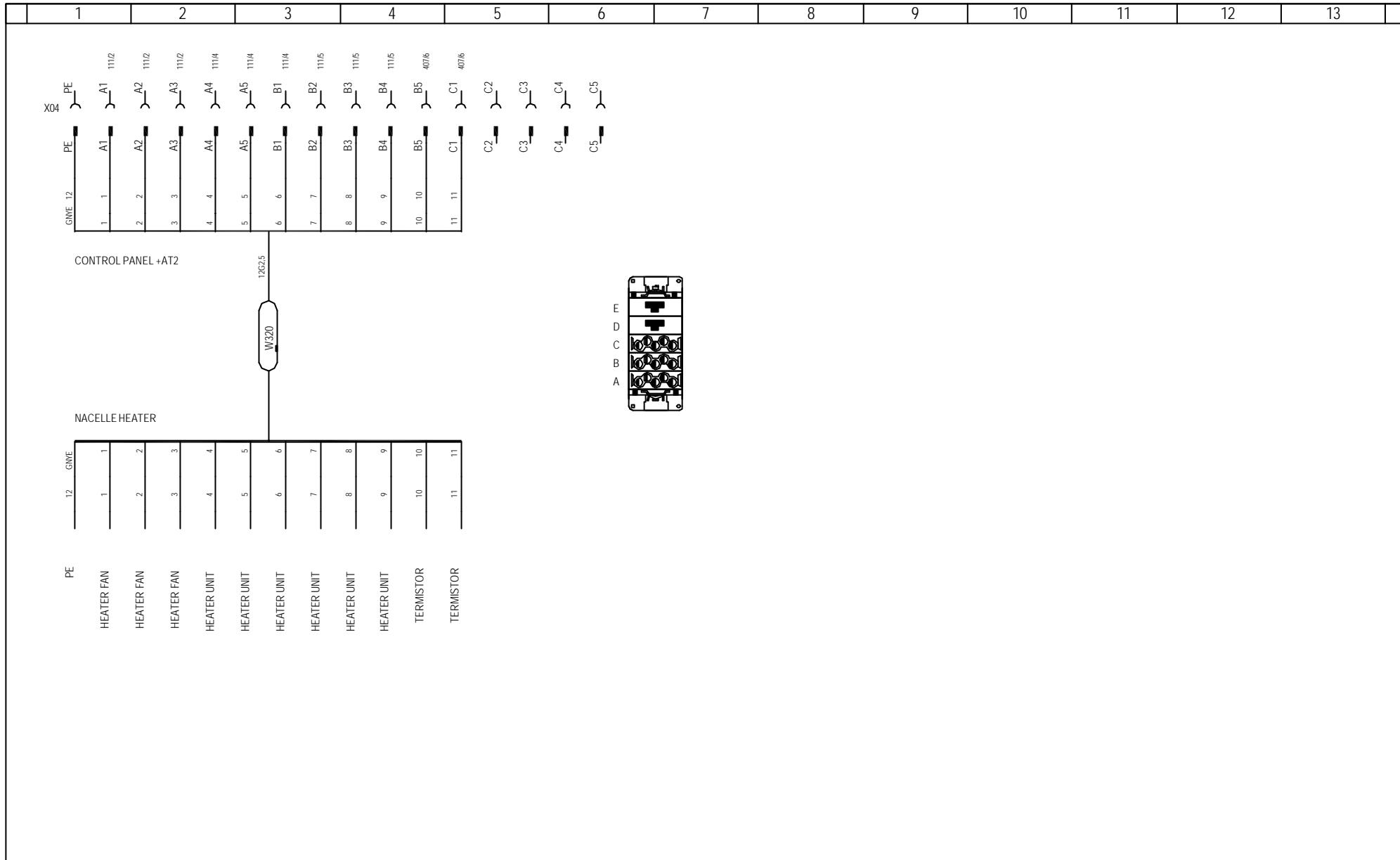




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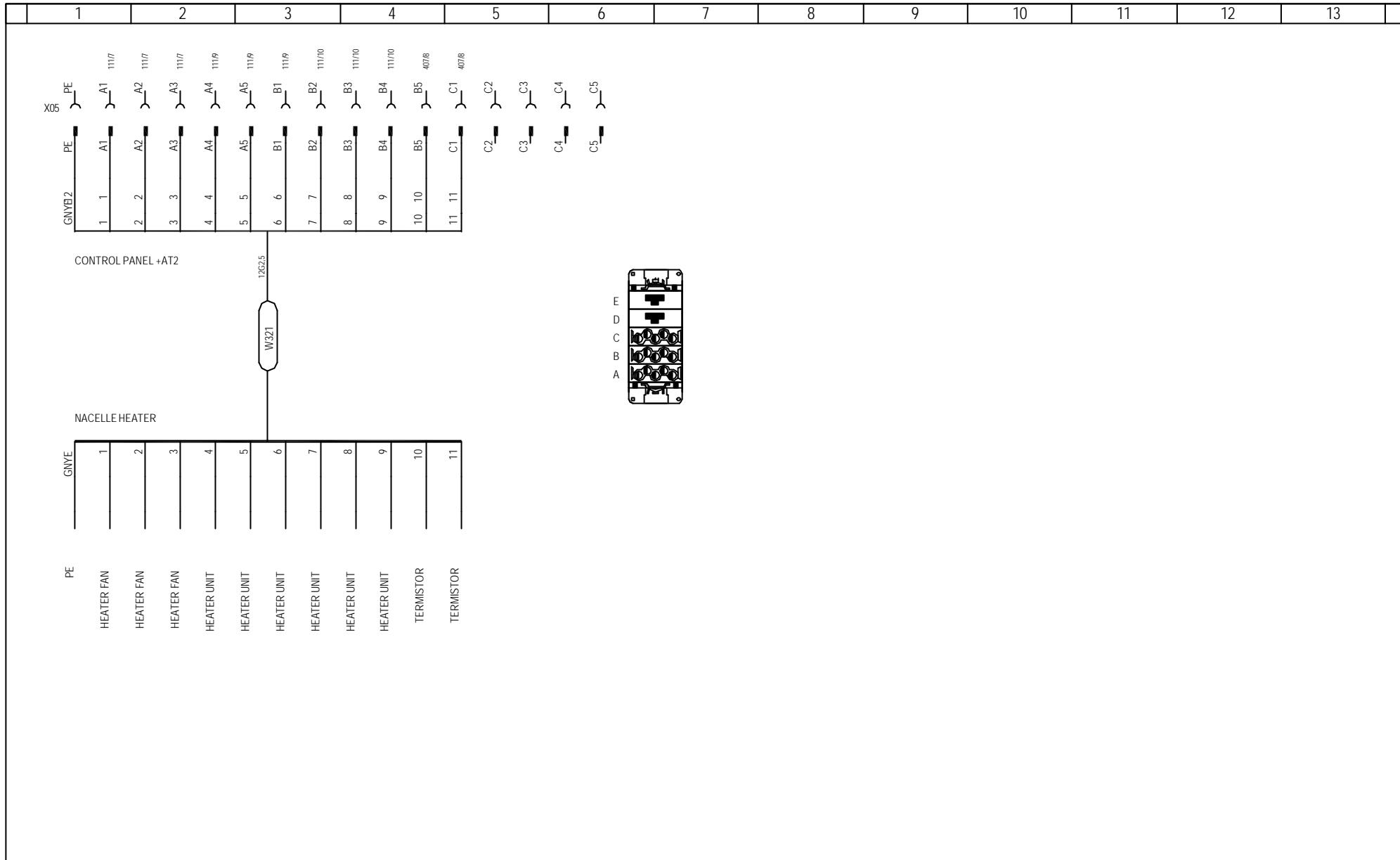
	Date	Initials	Function	External connection X03 to motor box AN4						
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments			Customer	NEG Micon A/S			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	043	Sheet	042





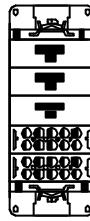
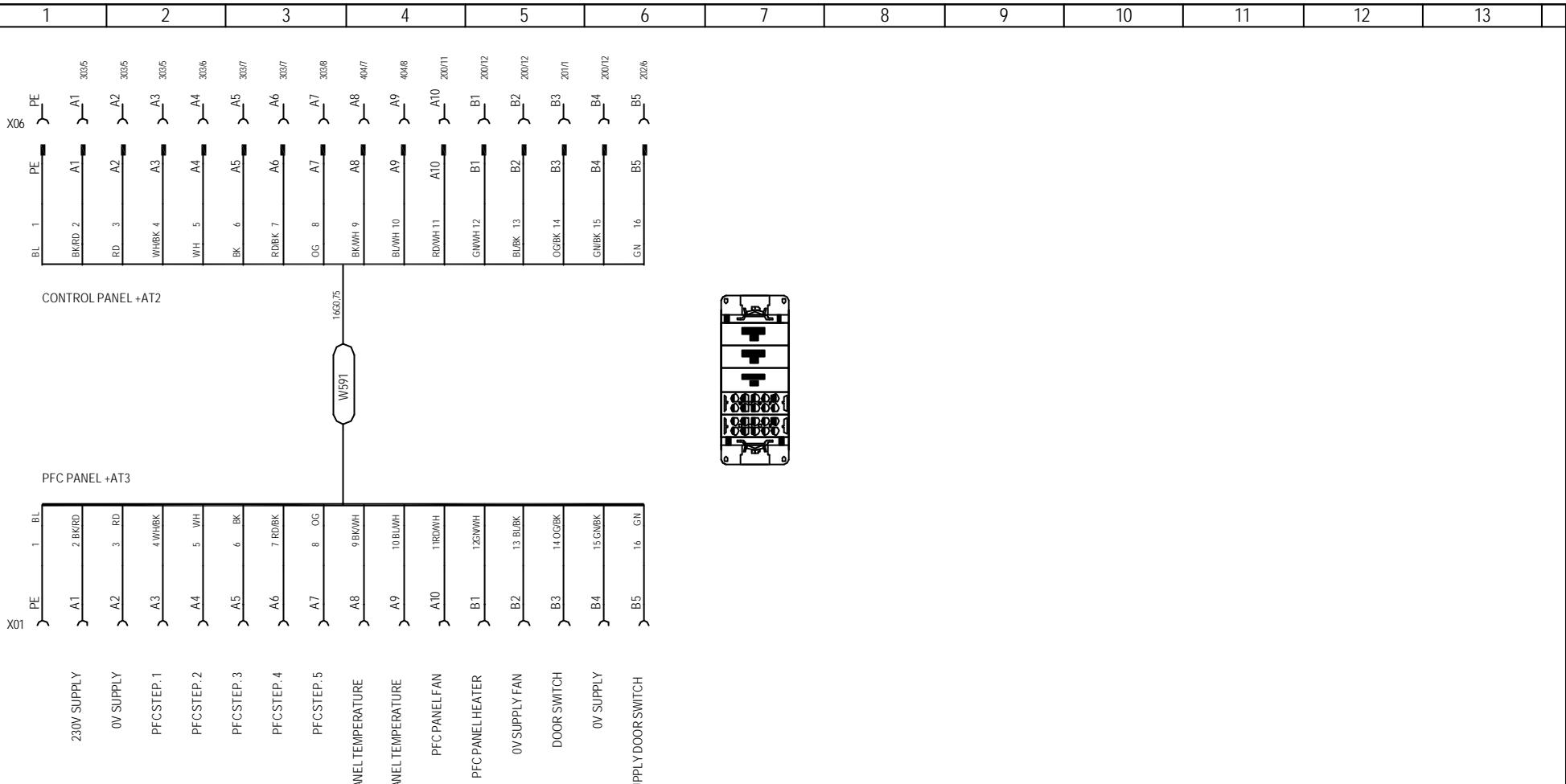
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	Date	Initials	Function	External connection X04 to nacelle heater 1						
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	044	Sheet	043



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	Date	Initials	Function External connection X05 to nacelle heater 2							
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	045	Sheet	044



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	Date	Initials	Function	External connection X06 to PFC panel AT3		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	046	Sheet	045

24VDC3 SUPPLY

GENERATORGFEEDBACK

GENERATORGFEEDBACK

BYPASSFEEDBACK

CURRENTL1

CURRENTL1

CURRENTL2

MAIN PANEL TEMPERATURE

MAIN PANEL TEMPERATURE

MAIN CB FEEDBACK

EMERGENCYSTOP

EMERGENCYSTOP

TRANSIENT - CONTROL CIRCUIT

THYRISTORUSEFFBACK

THYRISTORTEMPERATURE

THYRISTORTEMPERATURE

SPARE

DOOR SWITCH PHASE COMP.

0VDC

POWERCONSUMPTION

SPARE

SPARE

SPARE

GENERATORGFEEDBACK

SPARE

SPARE

SPARE

SPARE

SPARE

X01

A1

A2

A3

A4

A5

A6

A7

A8

A9

A10

B1

B2

B3

B4

B5

B6

B7

B8

B9

B10

C1

C2

C3

C4

C5

C6

C7

C8

C9

A1

A2

A3

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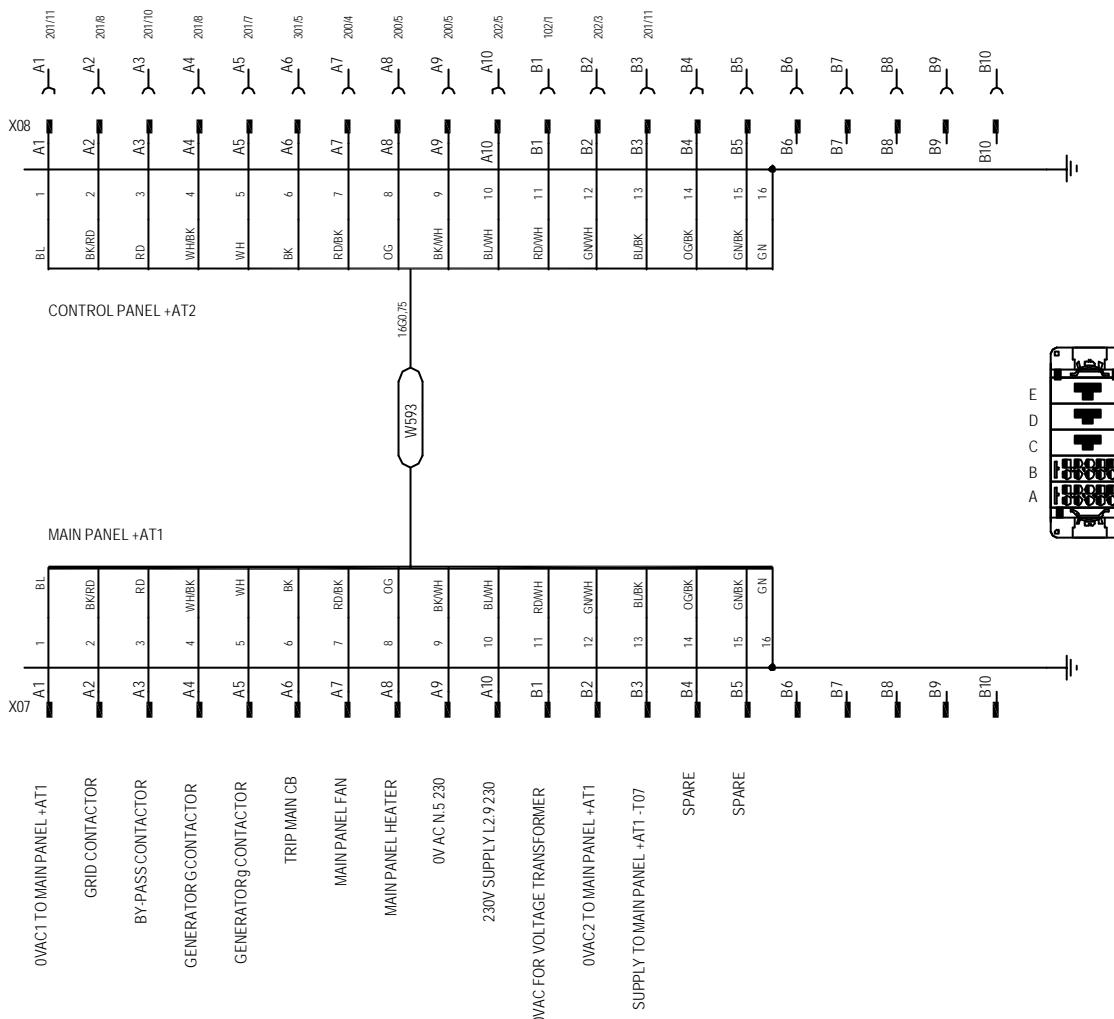
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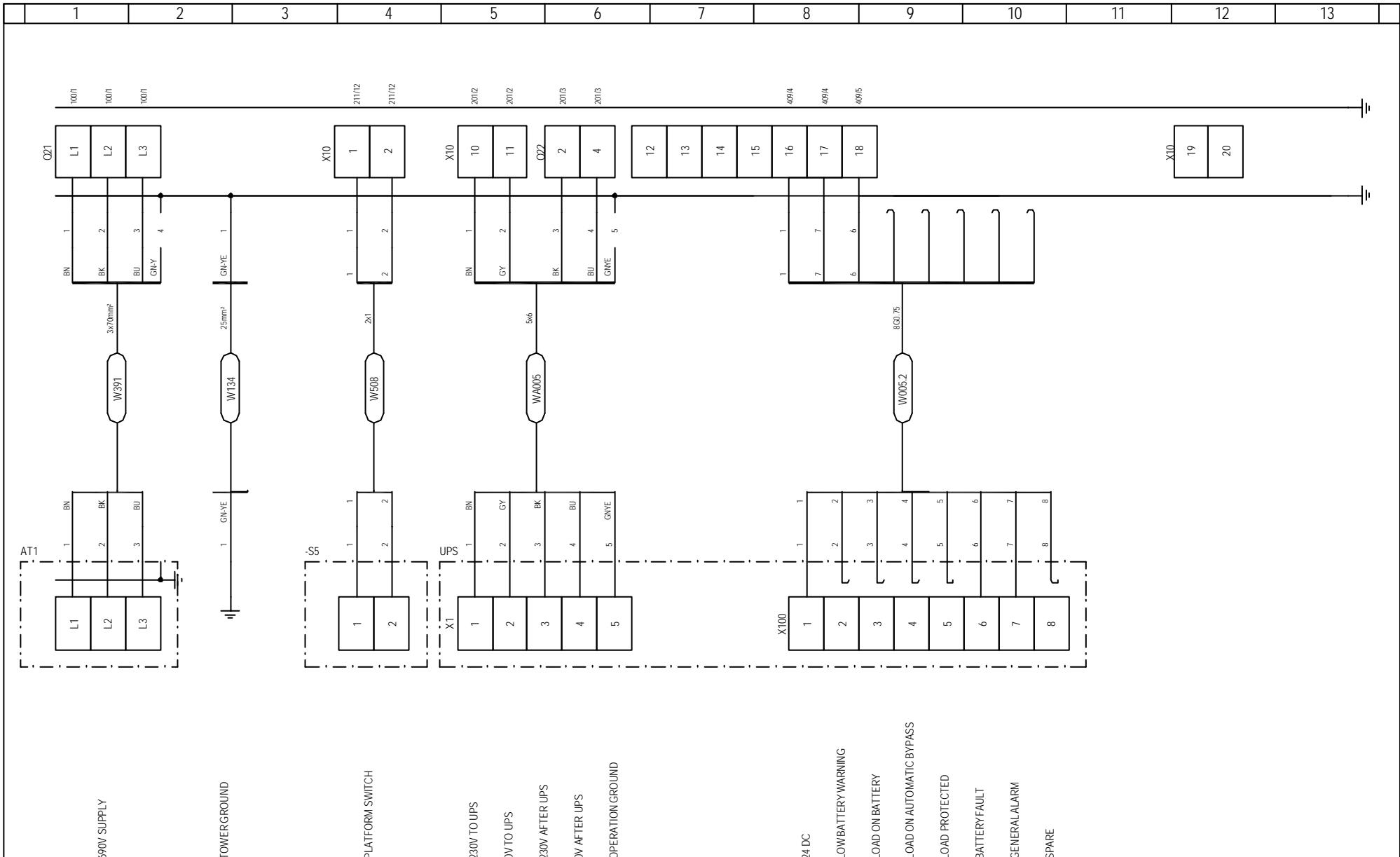
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AT1



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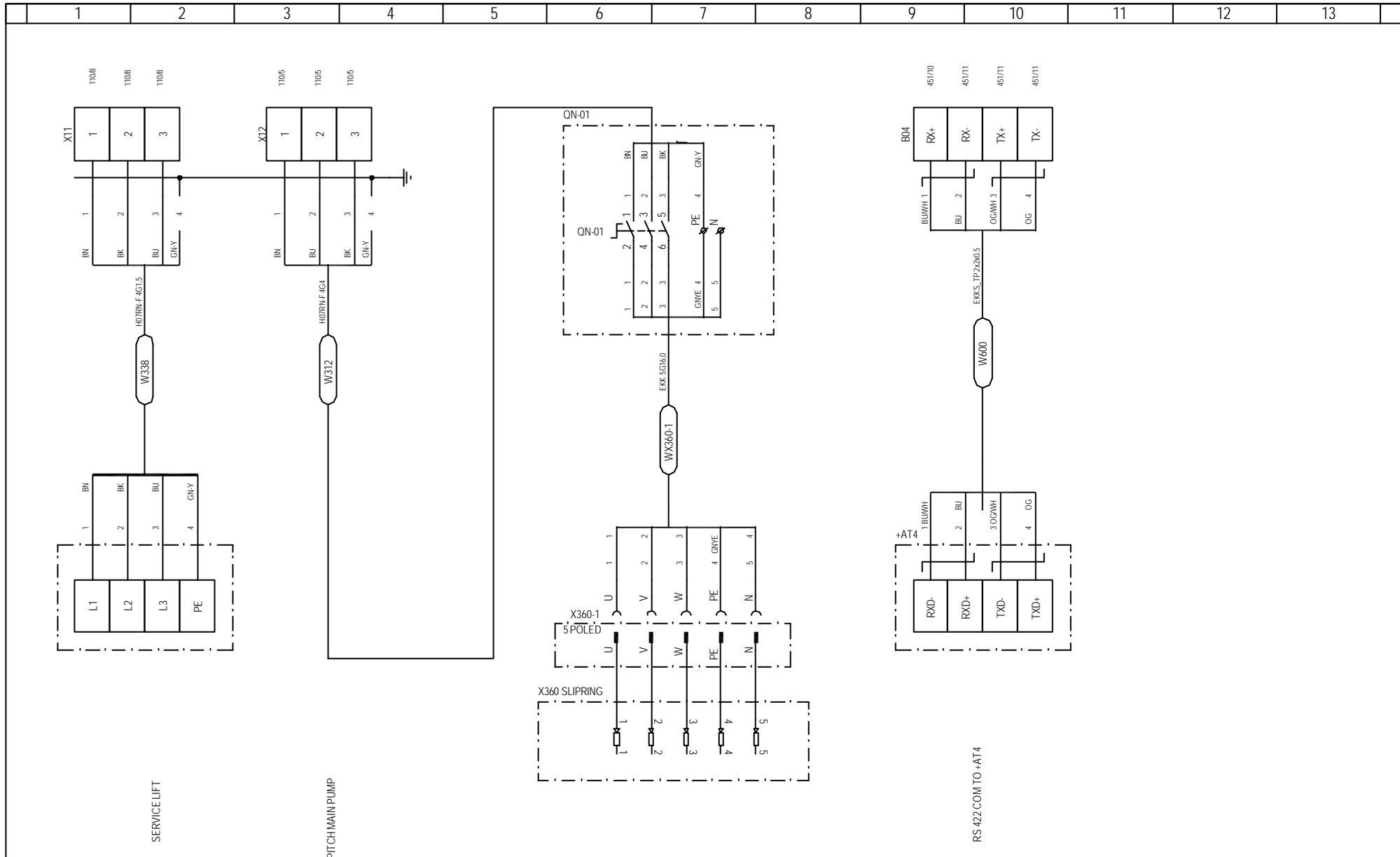
	Date	Initials	Function	External connection X08 to main panel AT1		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev. -	Drawing no.	6012290	Cont. sheet 048 Sheet 047



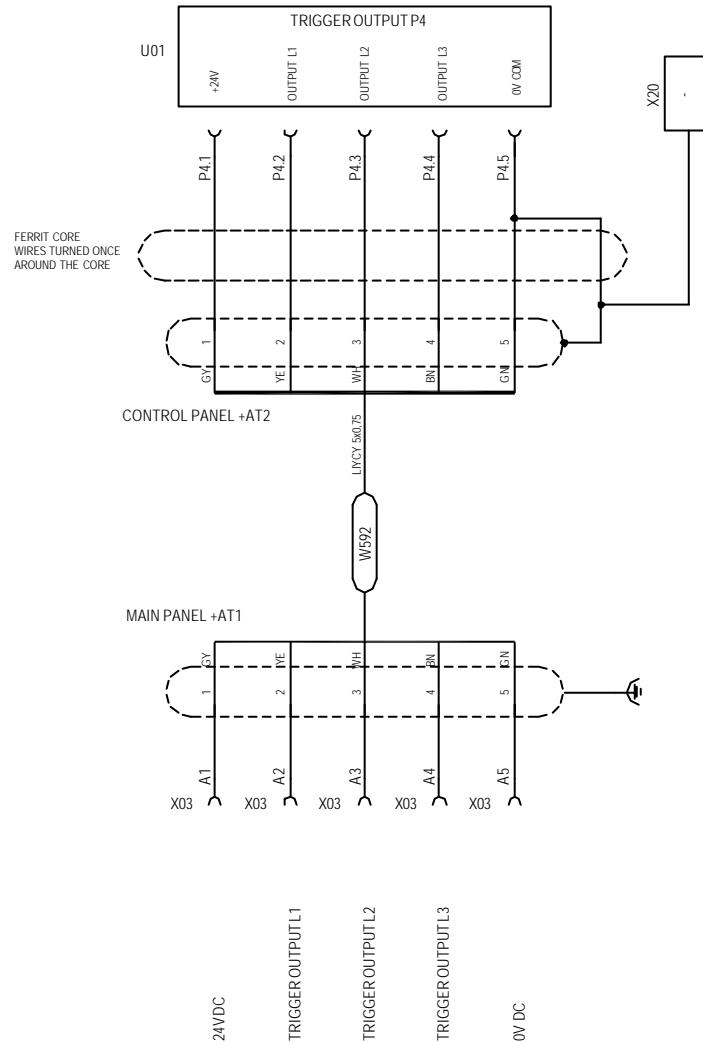
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	Date	Initials	Function	External connection X10			
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz			
Approved			Comments				
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet 049 Sheet 048

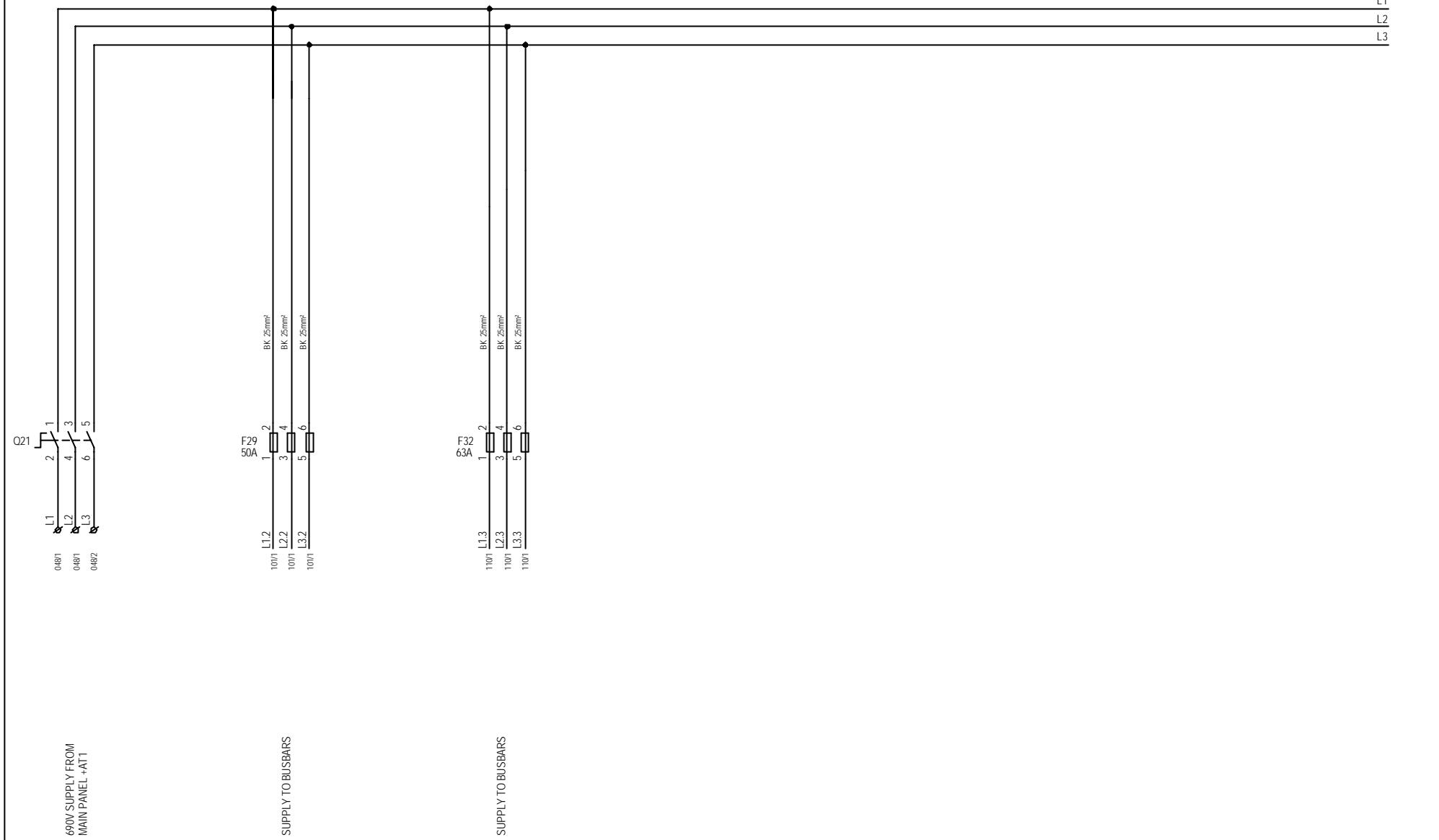


	Date	Initials	Function	External connection X11 X12 B04		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	050	Sheet	049



	Date	Initials	Function	External connection for trigger cable to AT1		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	100	Sheet	050

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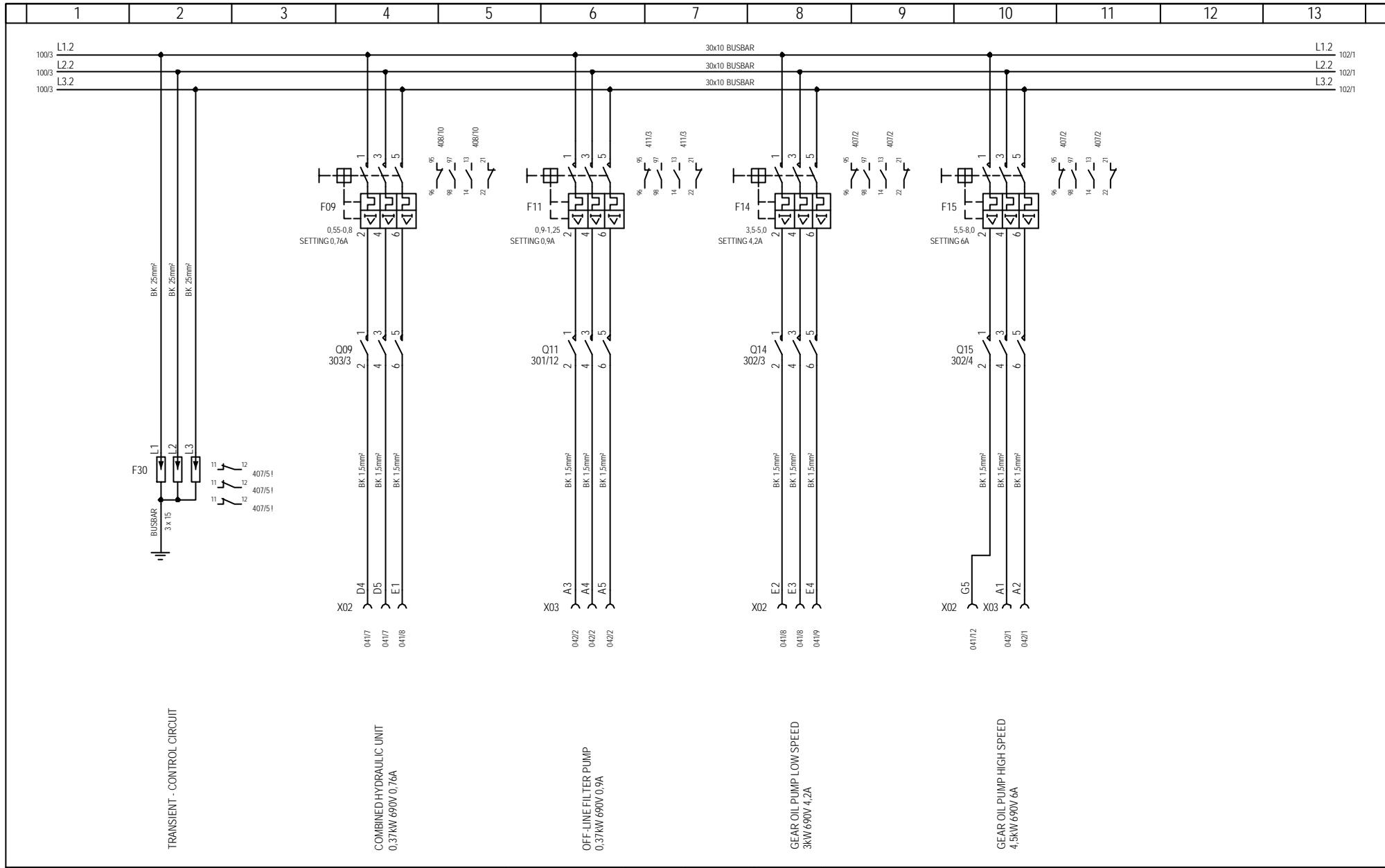


03.11.03
18:37

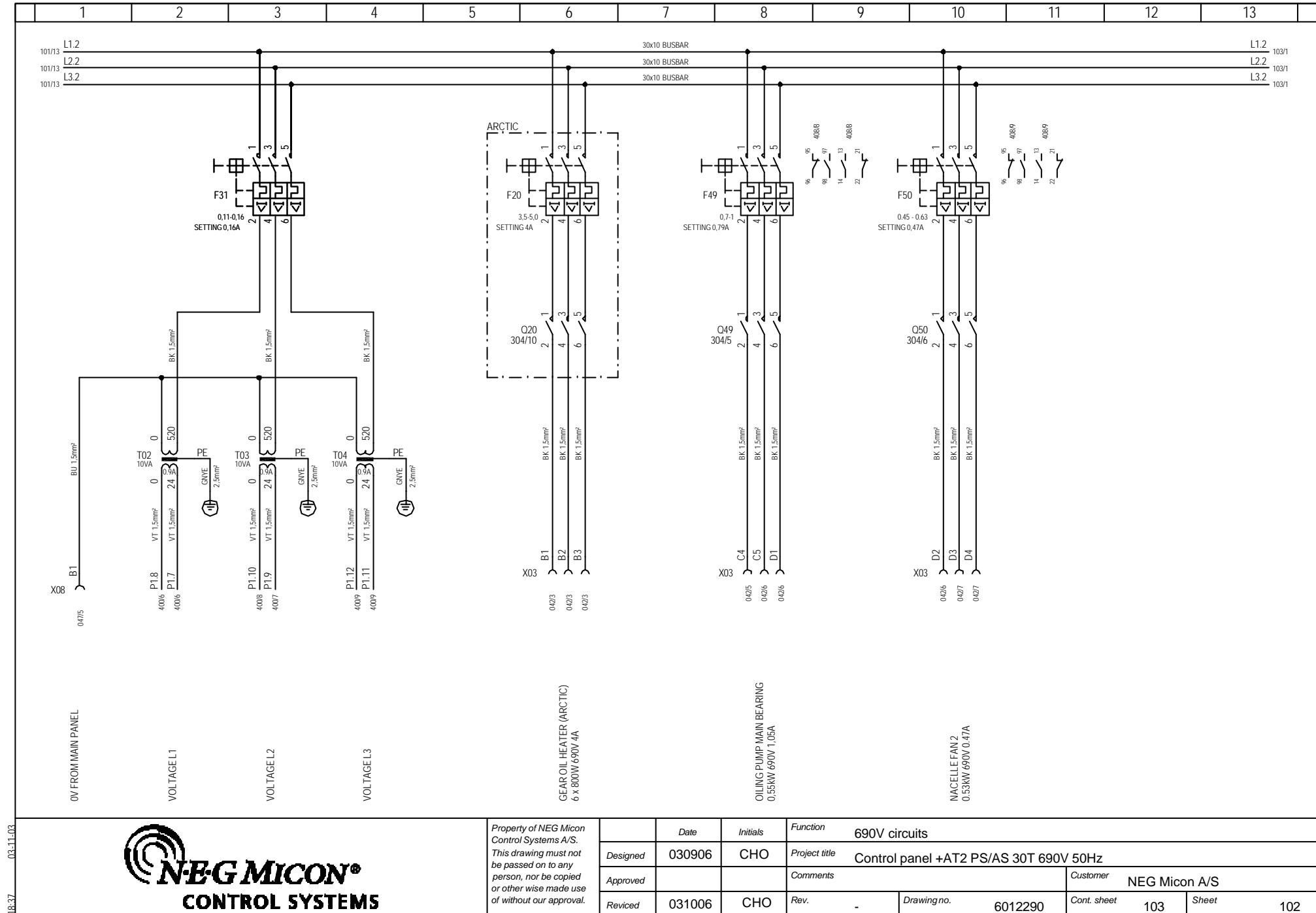


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	Date	Initials	Function	690V circuits		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	101	Sheet	100



	Date	Initials	Function	690V circuits		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	102	Sheet	101



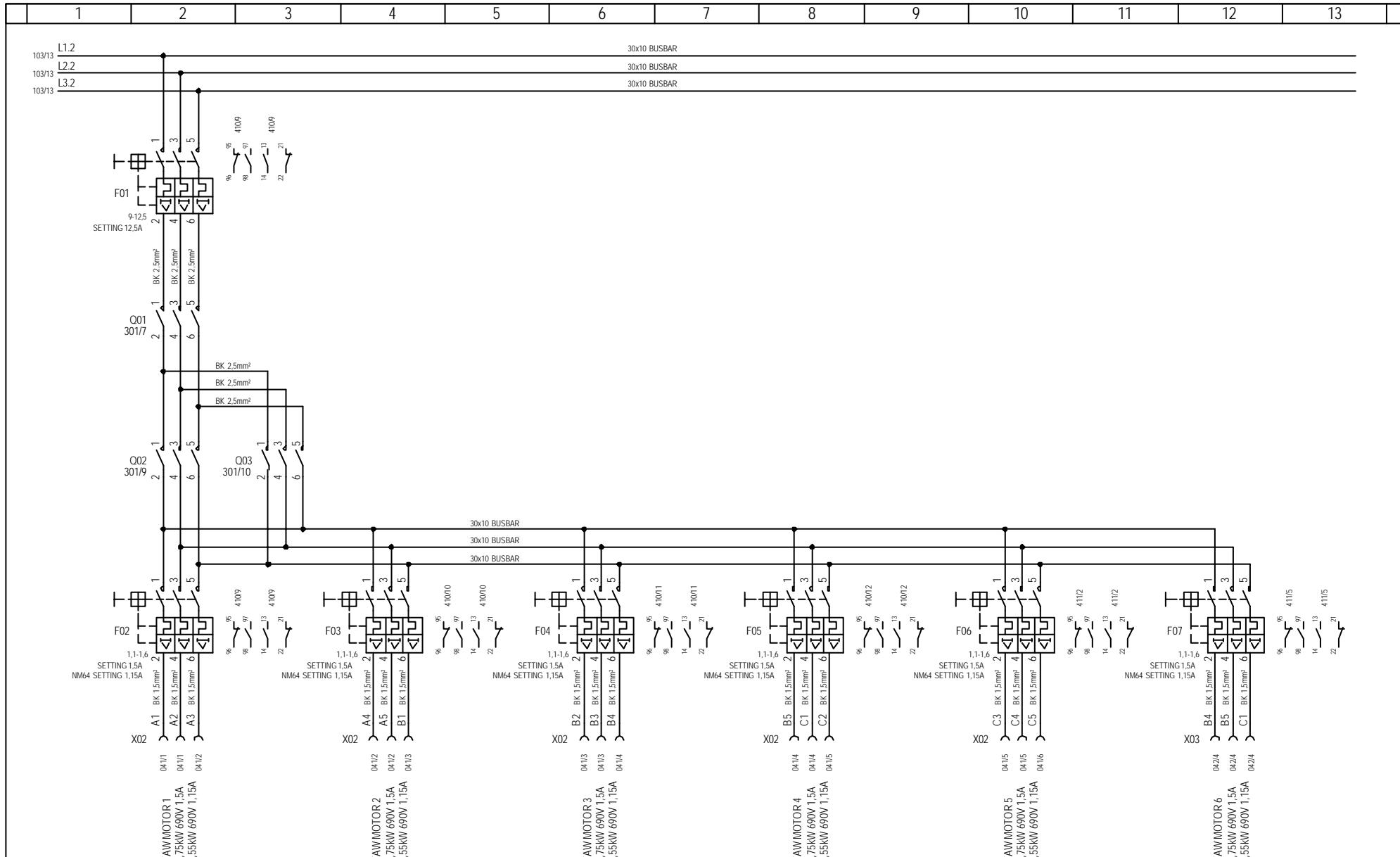
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Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	103	Sheet	102



18:37 03-11-03

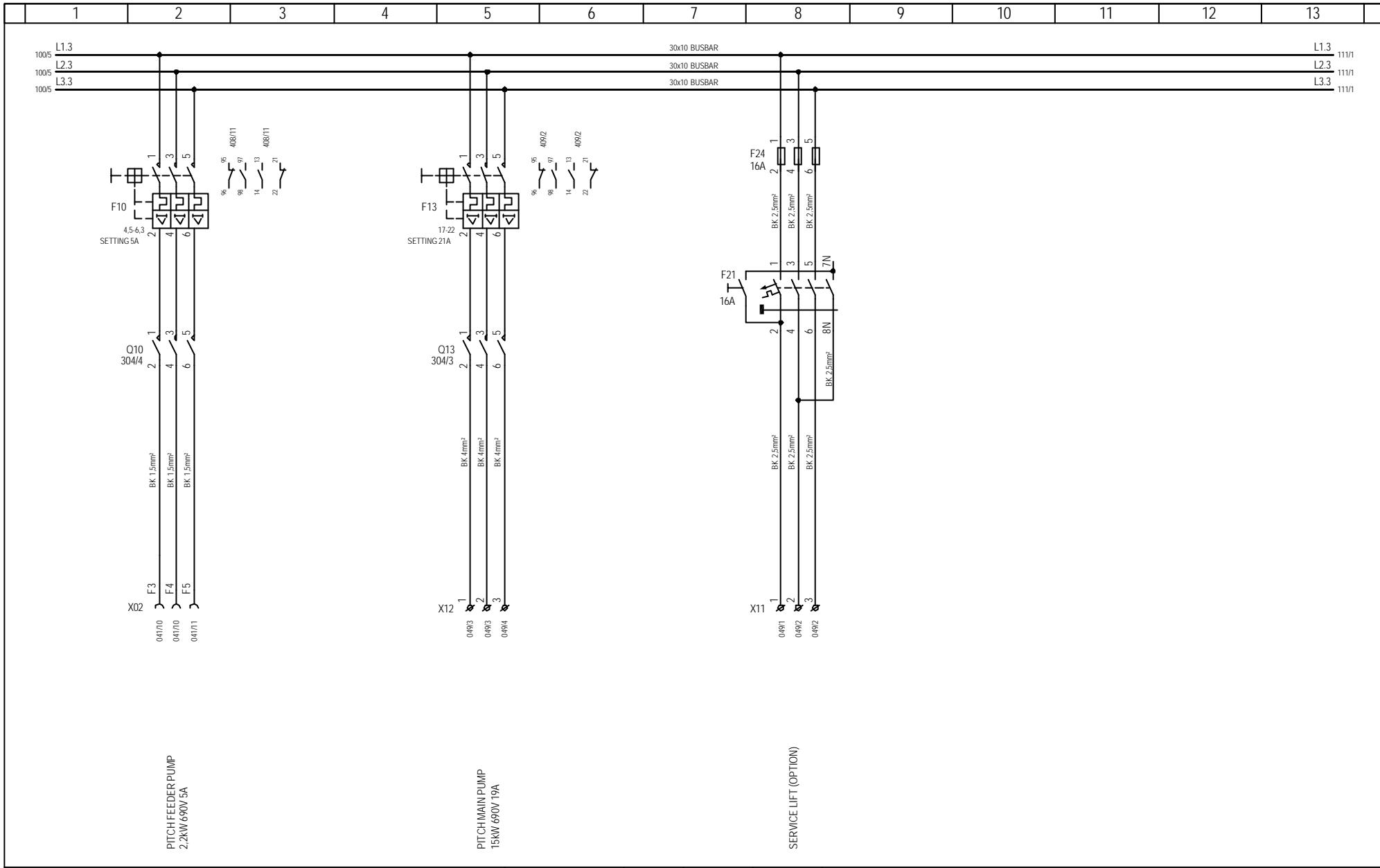
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	Date	Initials	Function	690V circuits						
	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
			Comments	Customer NEG Micon A/S						
	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	104	Sheet	103

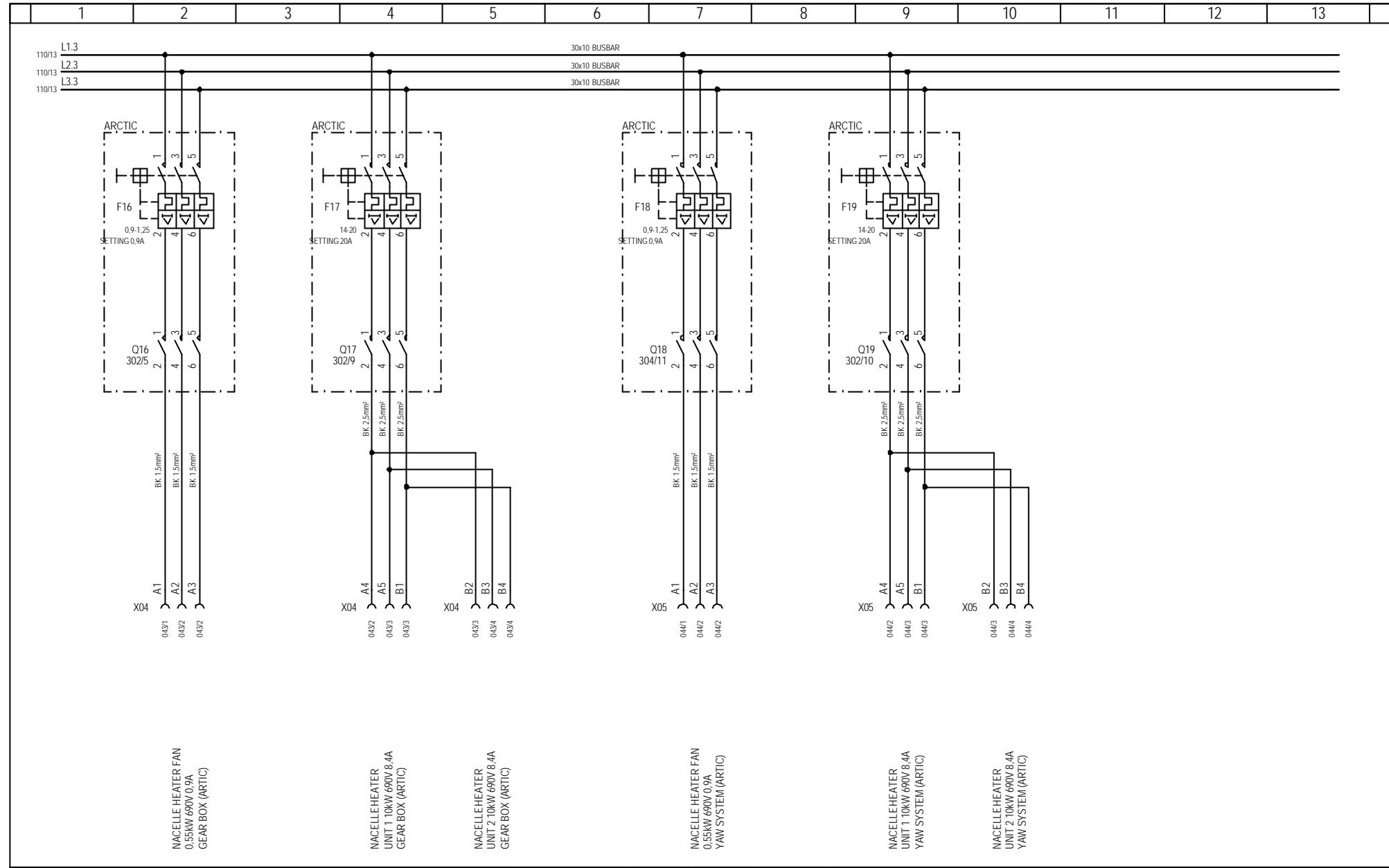


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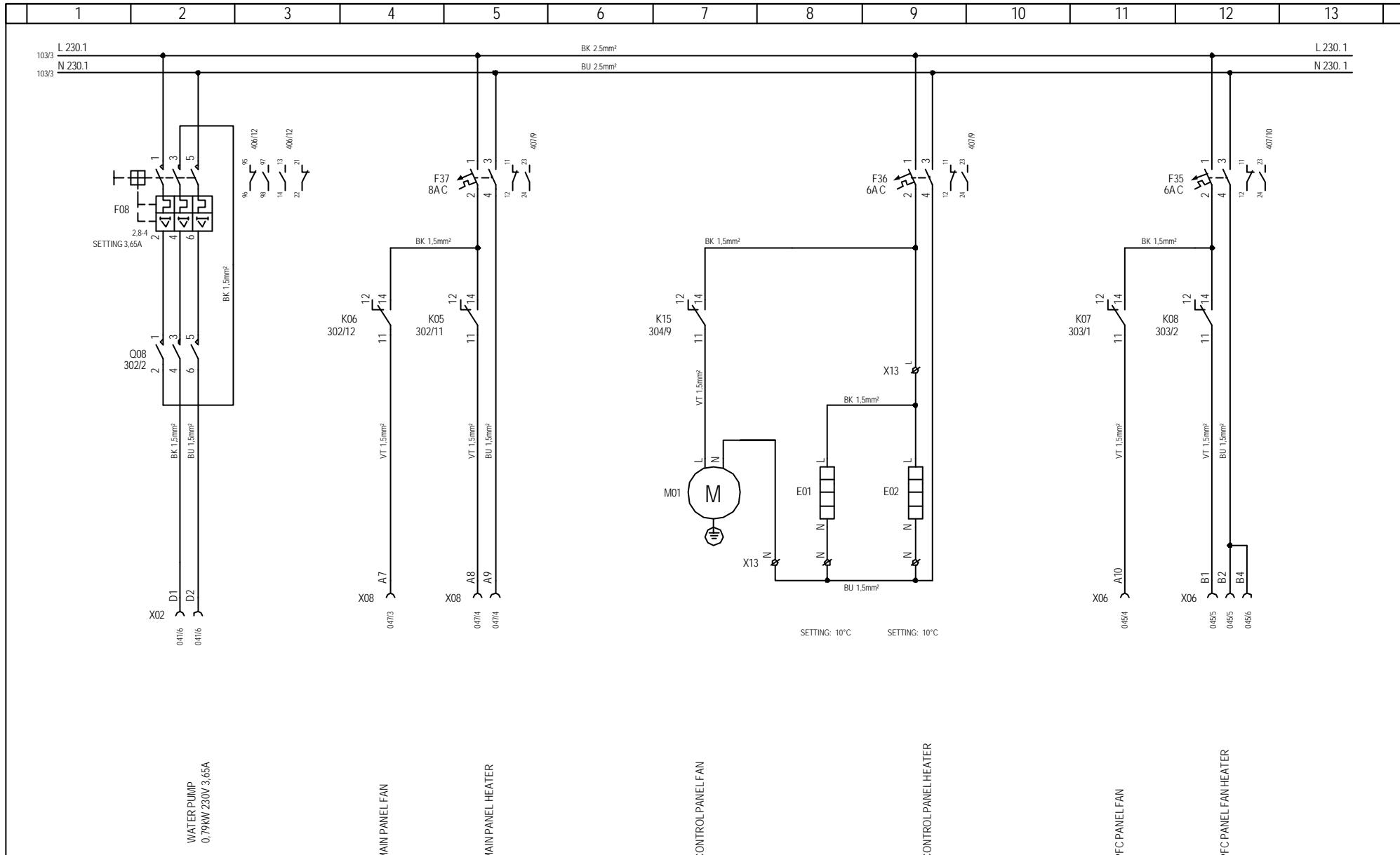
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Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz					
Approved			Comments	Customer NEG Micon A/S					
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	110	Sheet 104



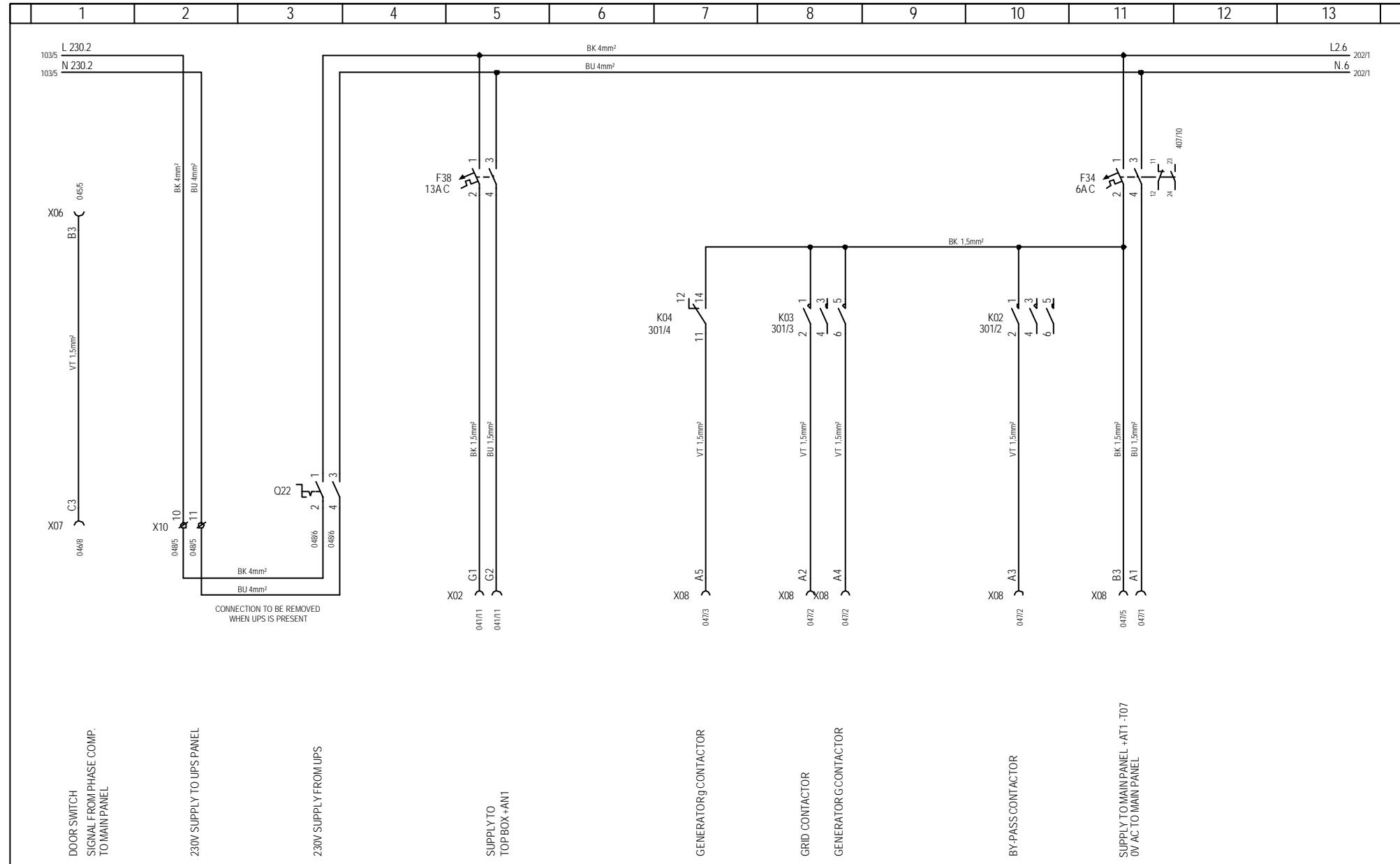
	Date	Initials	Function	690V circuits		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	111	Sheet	110



	Date	Initials	Function
Designed	030906	CHO	690V circuits nacelle heaters (arctic) Project title Control panel +AT2 PS/AS 30T 690V 50Hz
Approved			Comments Customer NEG Micon A/S
Revised	031006	CHO	Rev. - Drawing no. 6012290 Cont. sheet 200 Sheet 111



	Date	Initials	Function	230V circuits		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	201	Sheet	200



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GENERATOR CONTACTOR

04/73

GRID CONTACTOR

04/72

GENERATOR CONTACTOR

04/72

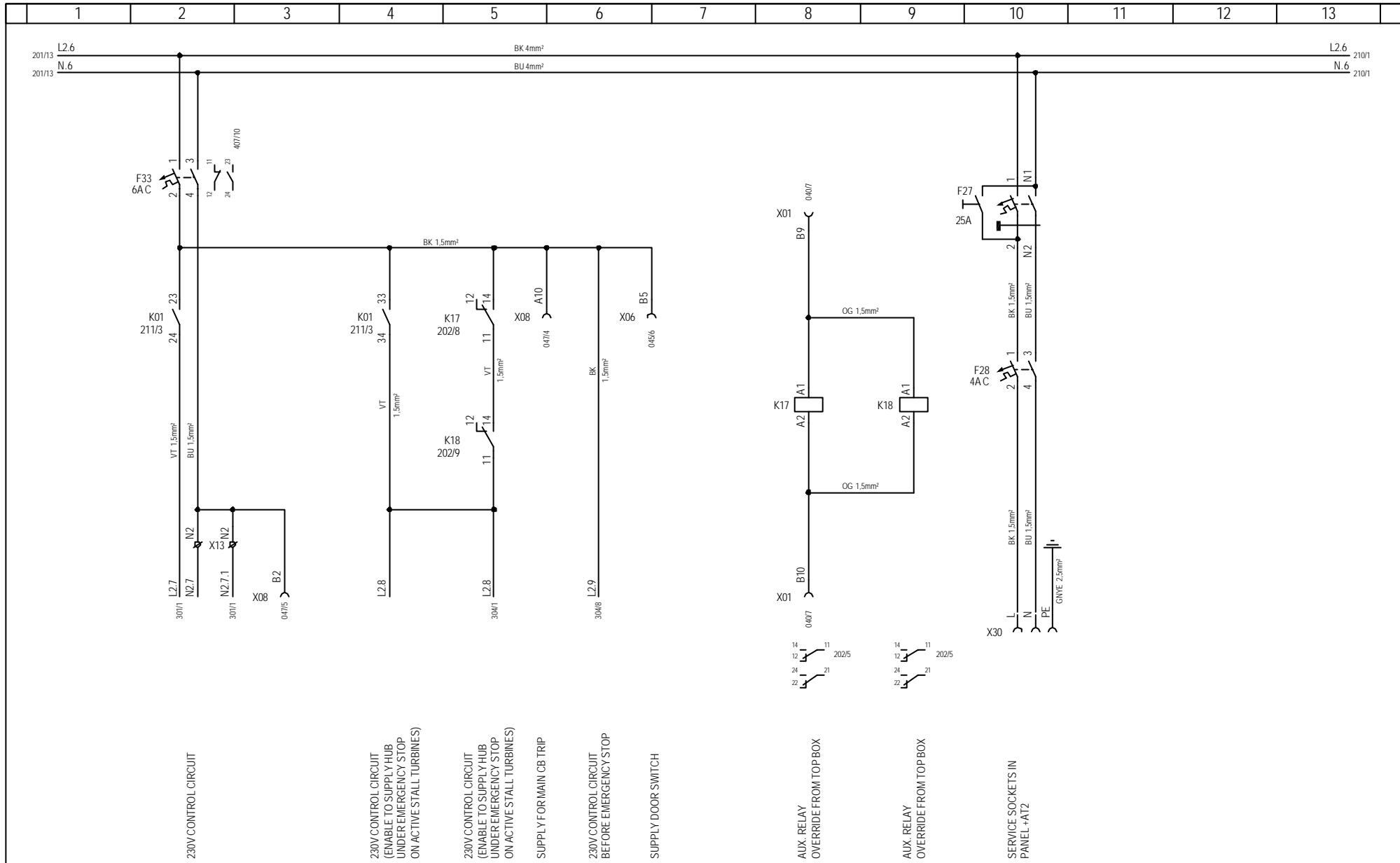
BYPASS CONTACTOR

04/72

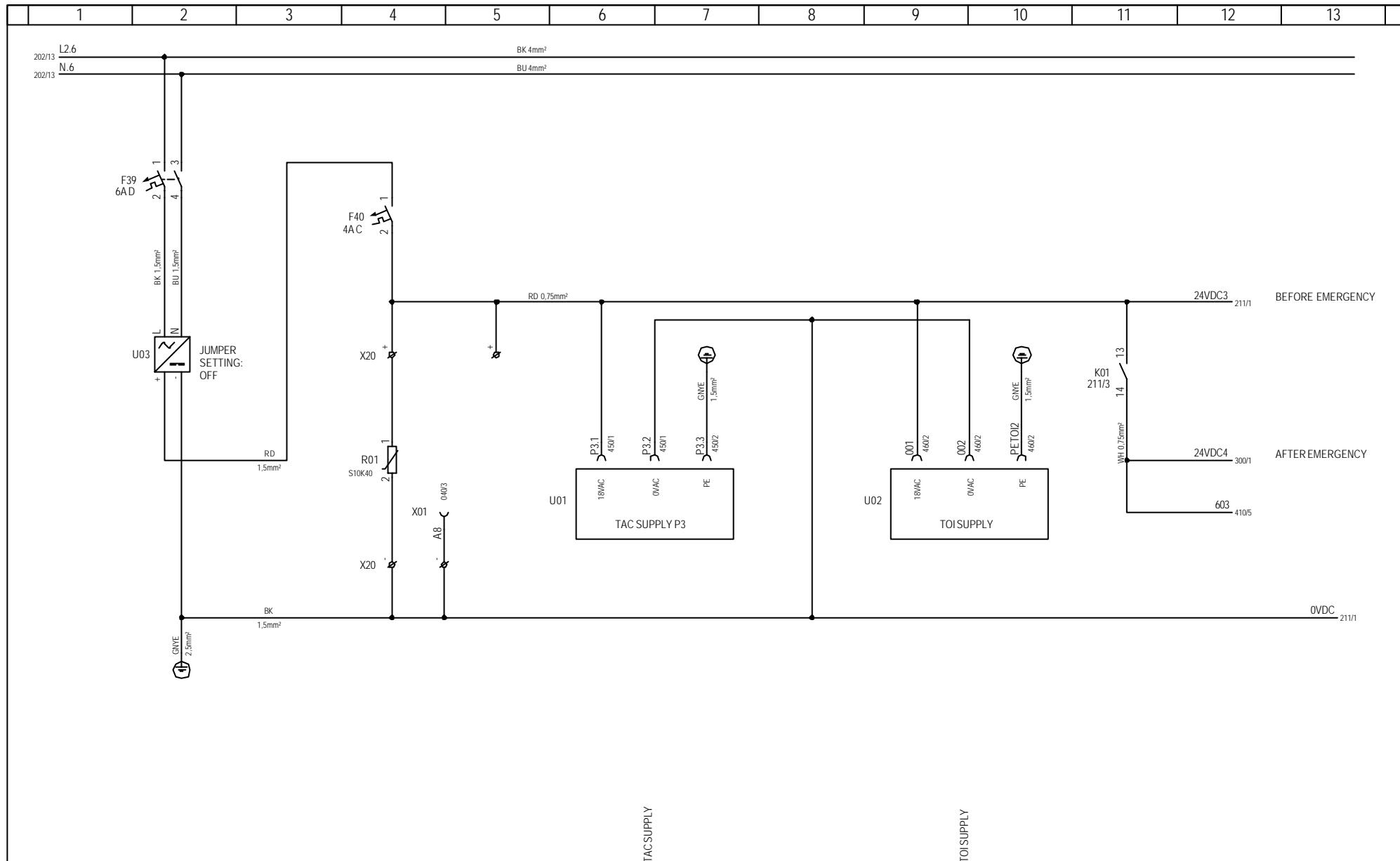
SUPPLY TO MAIN PANEL +AT1 -T07
0V AC TO MAIN PANEL

04/75
04/71

	Date	Initials	Function	230V circuits		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
				Cont. sheet	202	Sheet 201

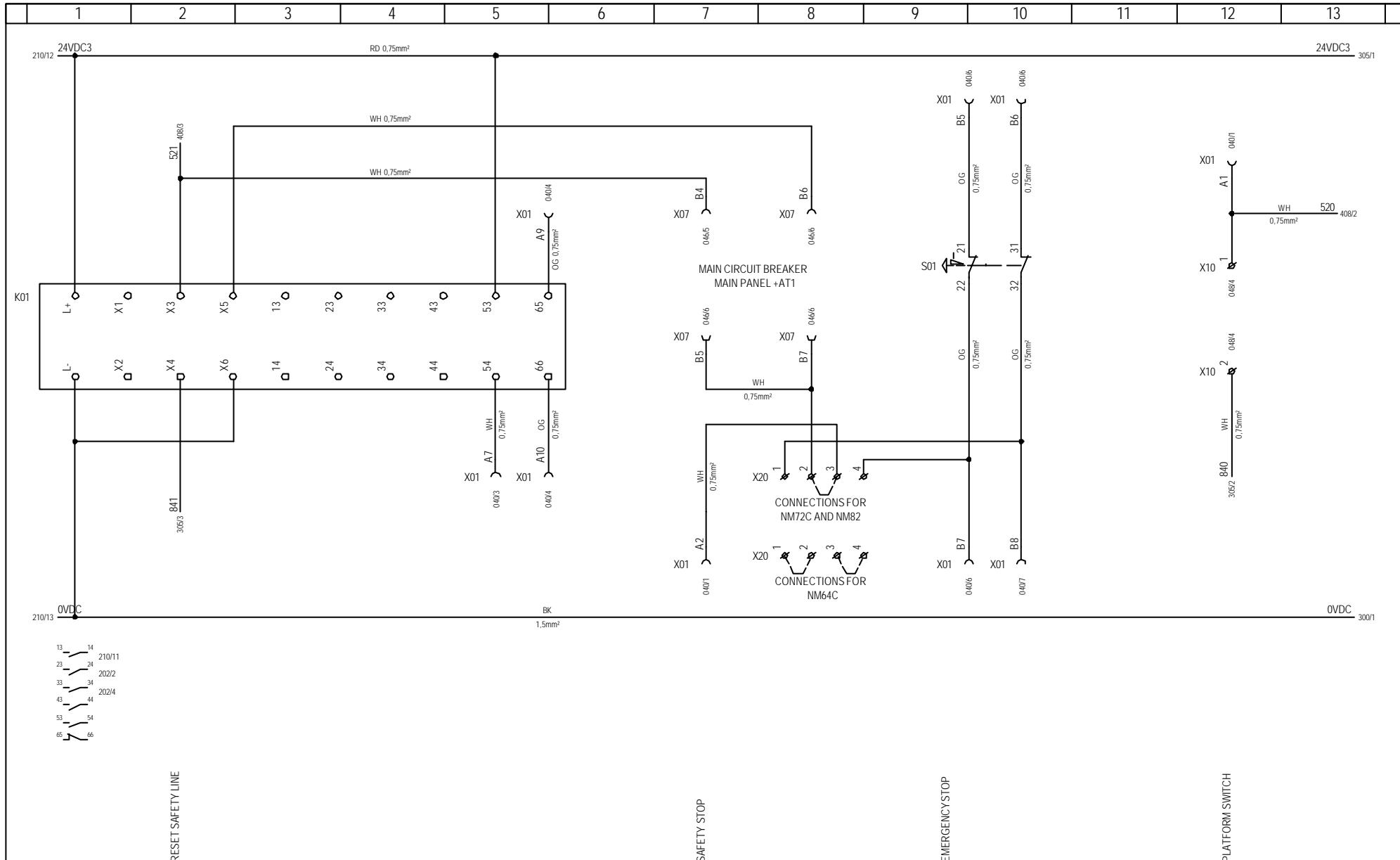


	Date	Initials	Function	230V circuits		
Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	210	Sheet	202



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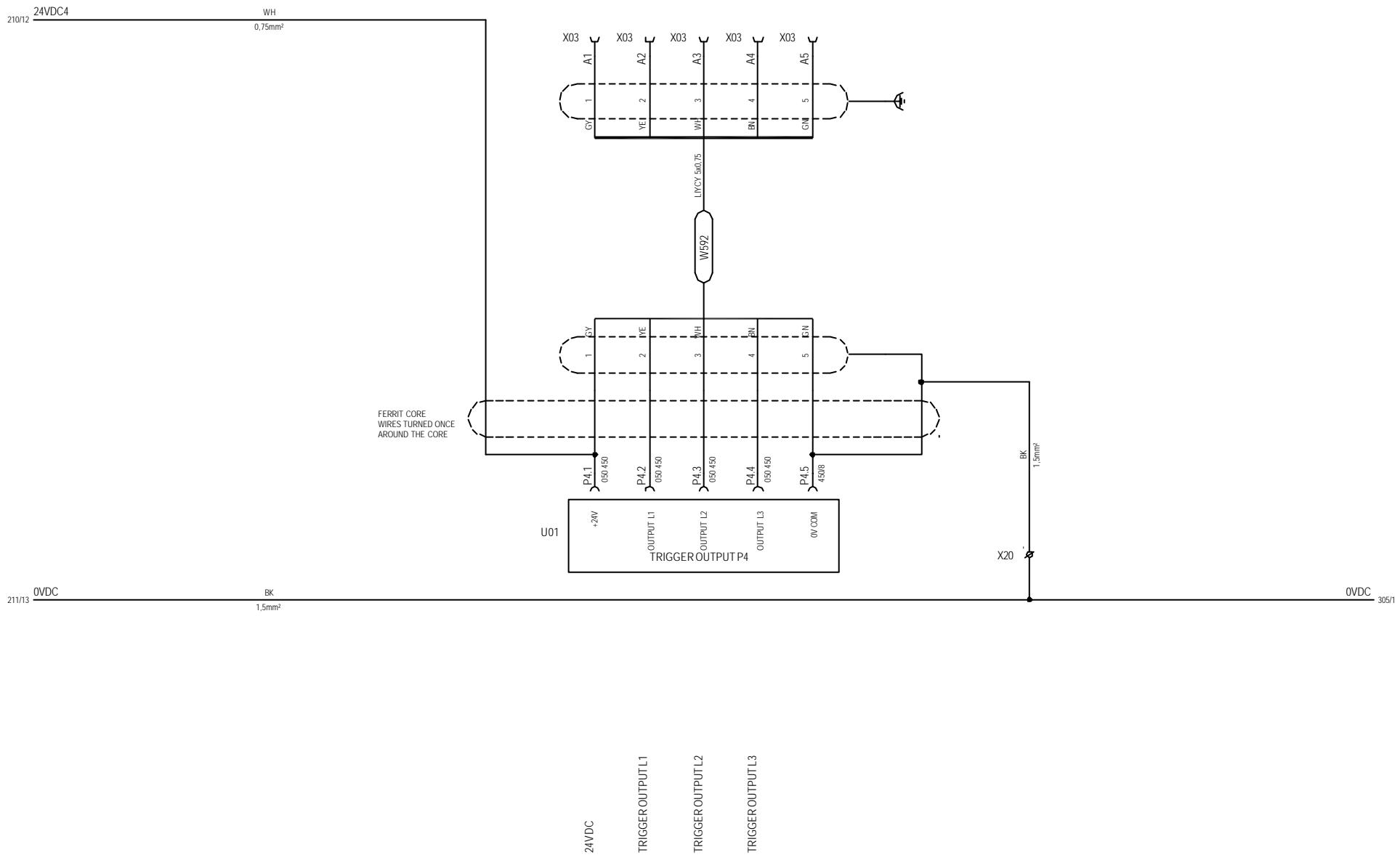
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Designed	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz					
Approved			Comments				Customer	NEG Micon A/S	
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	211	Sheet 210



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	Date	Initials	Function	230V circuits						
ned	030906	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
ved			Comments	Customer NEG Micon A/S						
ed	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	300	Sheet	211

1	2	3	4	5	6	7	8	9	10	11	12	13
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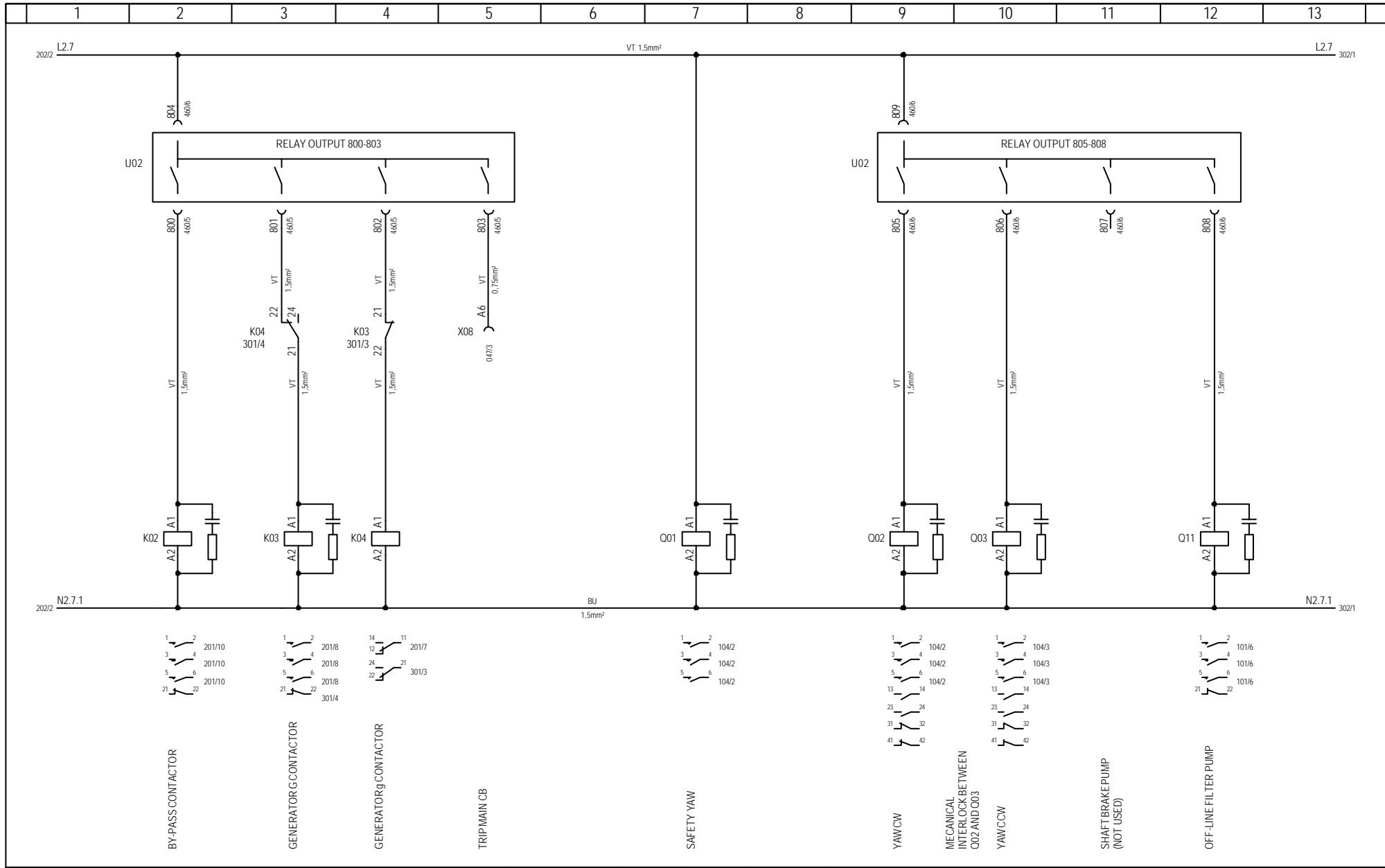


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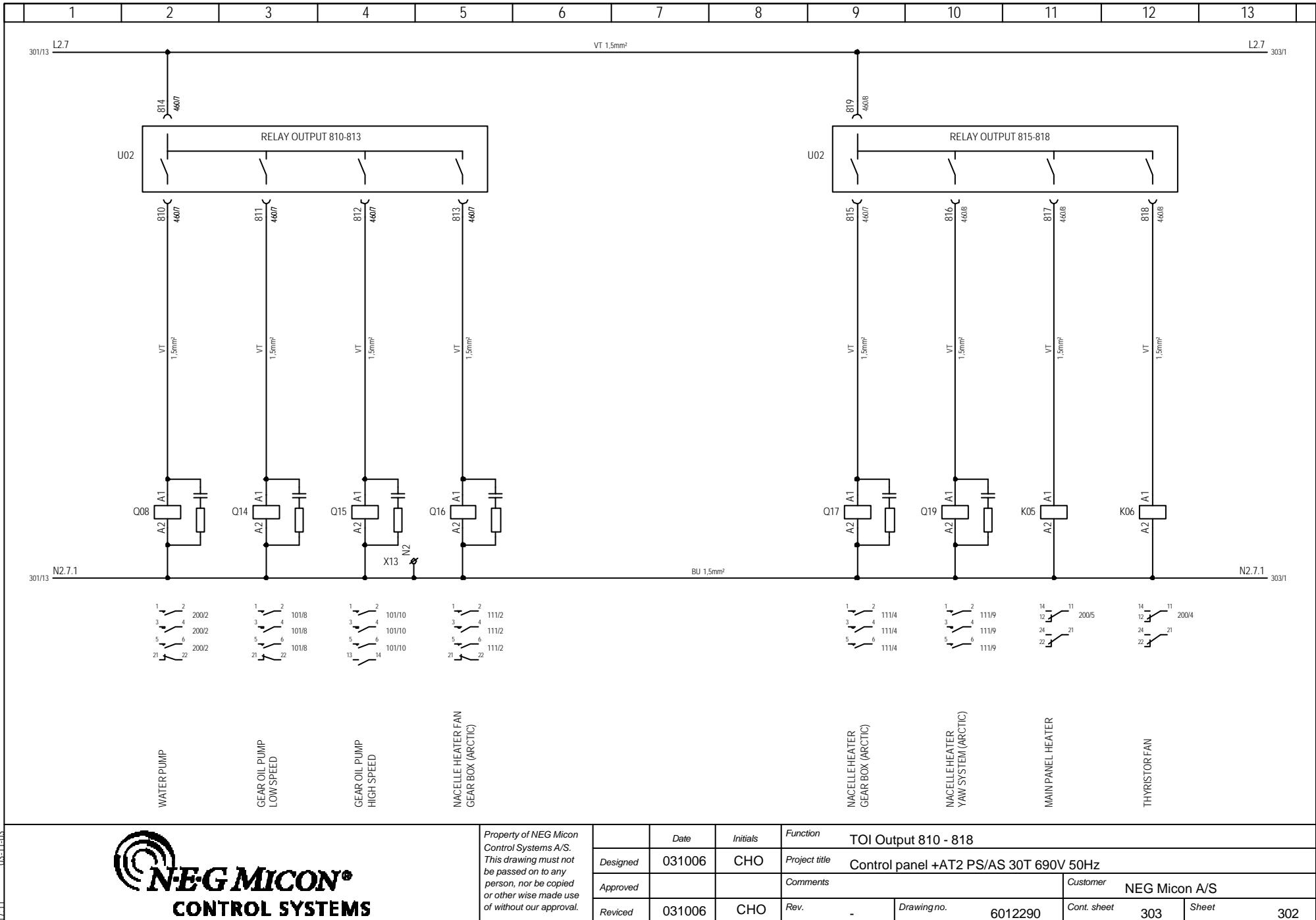


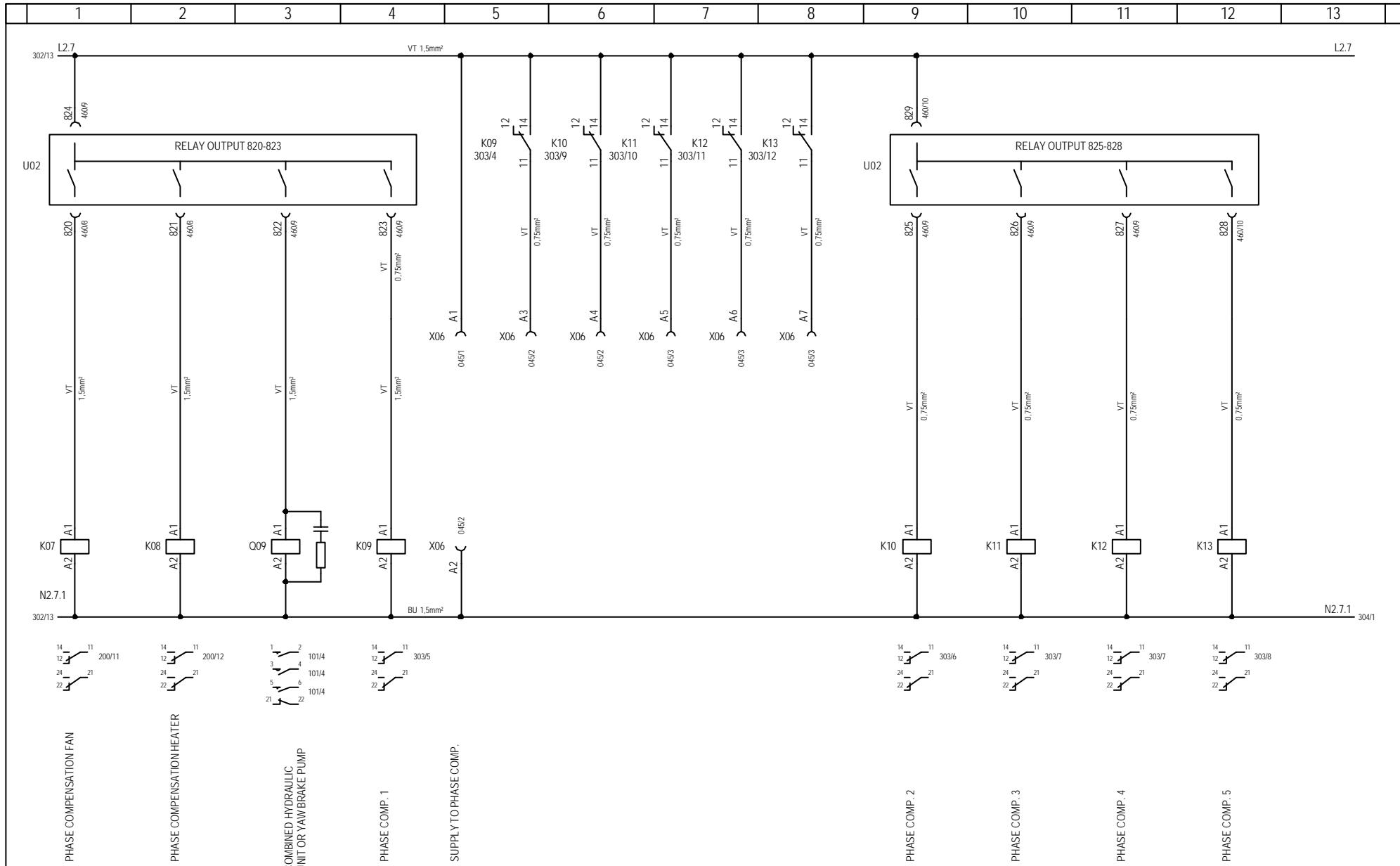
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	Date	Initials	Function	TAC Output P4.1 - P4.5 trigger cable
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	031006	CHO	Rev. -	Drawing no. 6012290
			Cont. sheet	Sheet 301 300



	Date	Initials	Function	TOI Output 800 - 808		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	302	Sheet	301



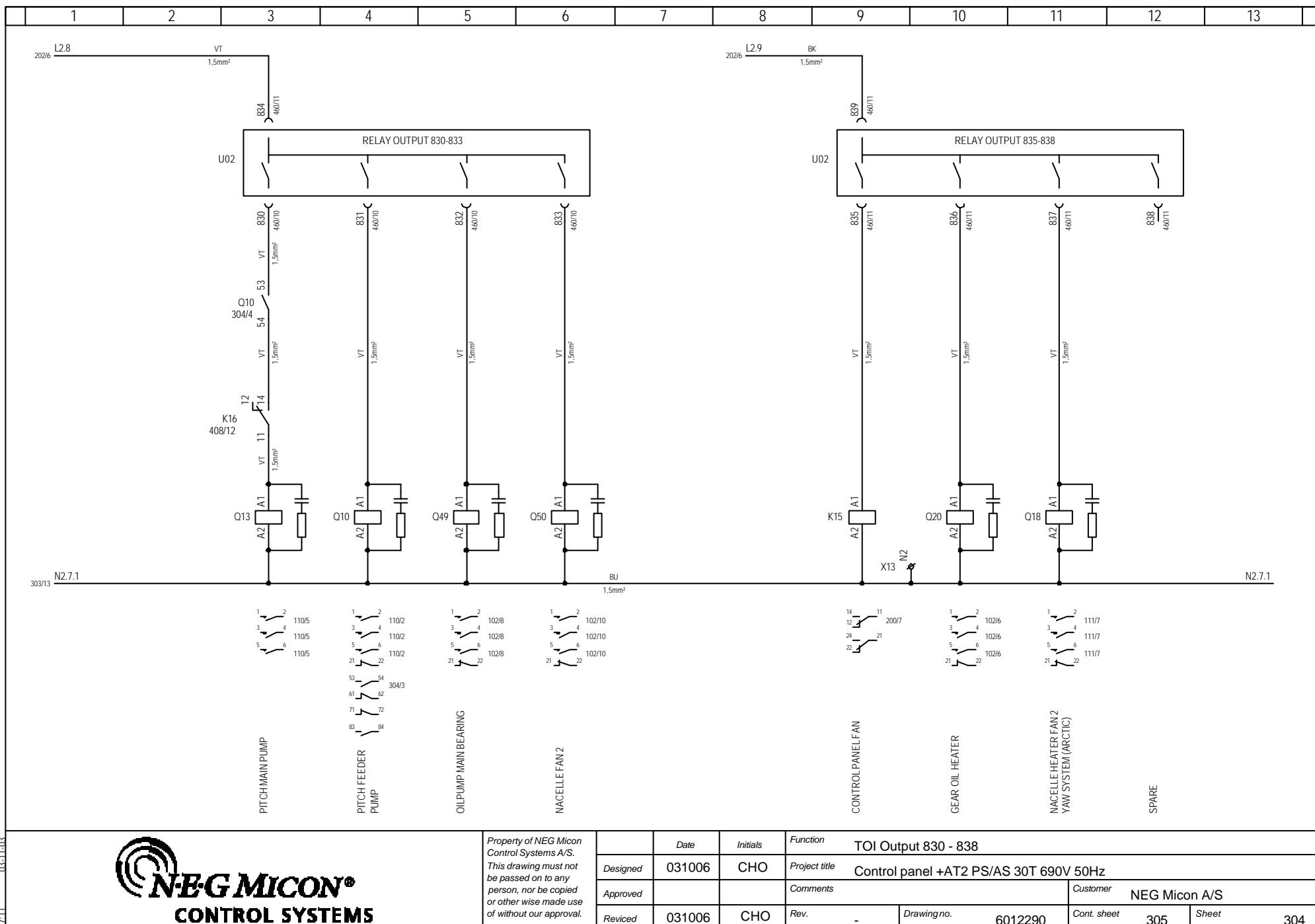


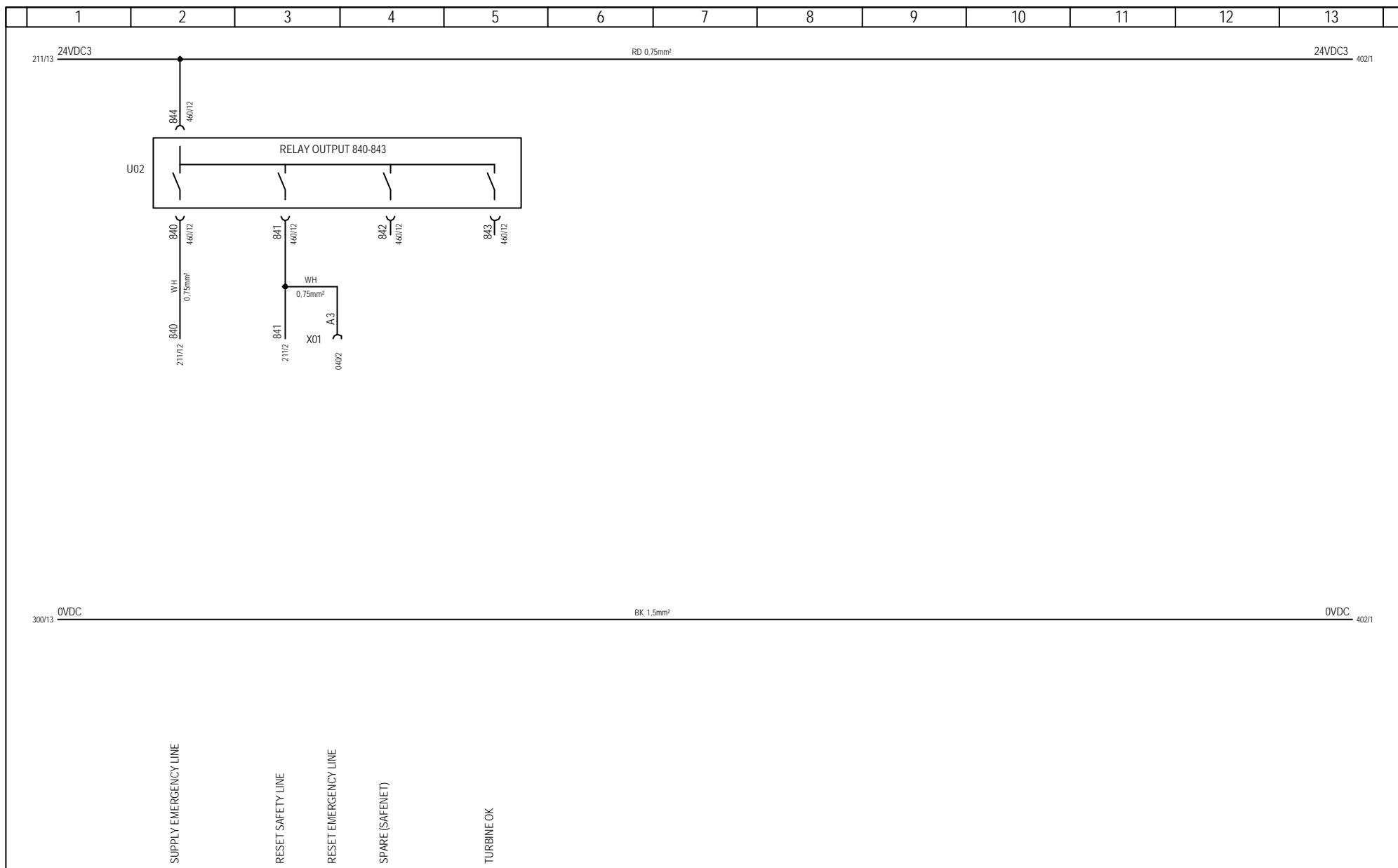
03-11-03
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	Date	Initials	Function TOI Output 820 - 828							
Designed	031006	CHO	Project title Control panel +AT2 PS/AS 30T 690V 50Hz							
Approved			Comments			Customer	NEG Micon A/S			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	304	Sheet	303

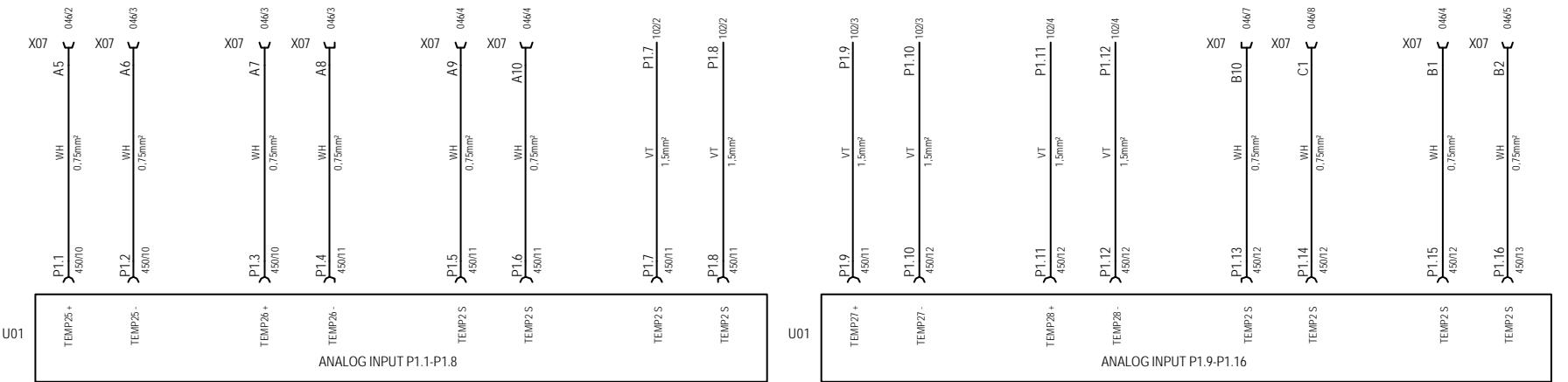




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7-11

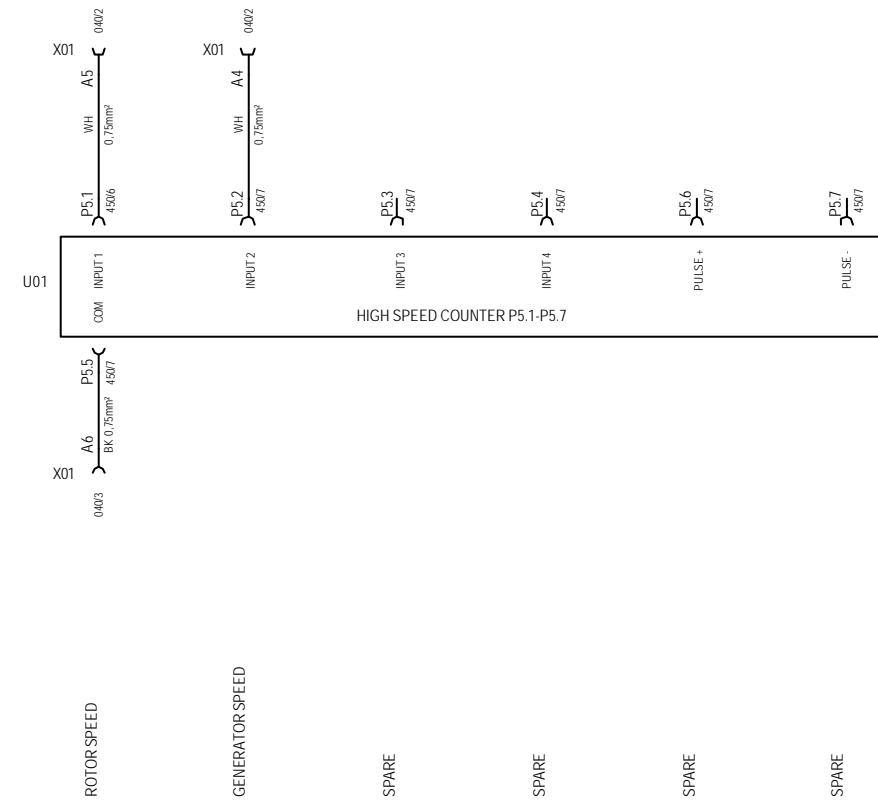
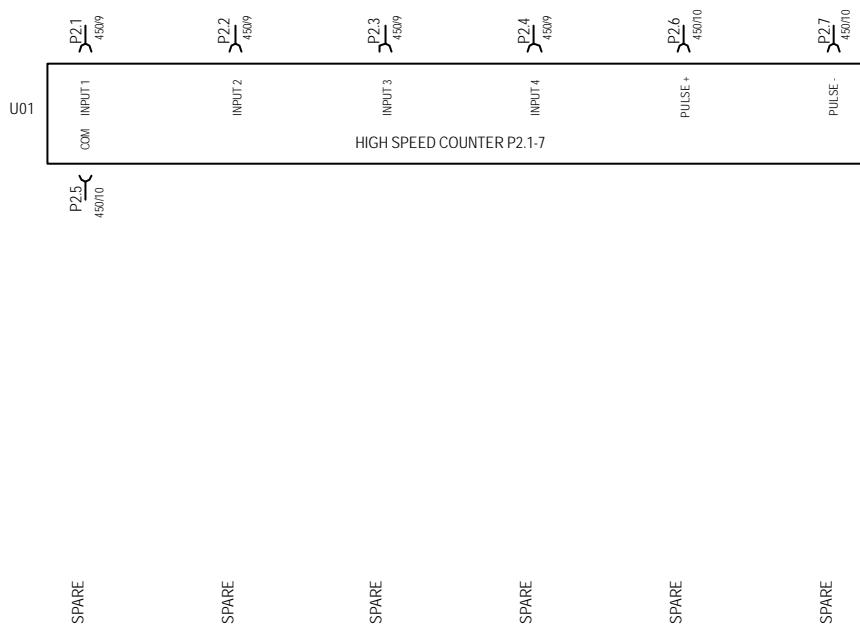
		Date	Initials	Function	TOI Output 840 - 843						
This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.	Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
	Approved			Comments							
	Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	400	Sheet	305

1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	TAC Input P1.1 - P1.16			
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz			
Approved			Comments				
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Customer NEG Micon A/S
				Cont. sheet	401	Sheet	400

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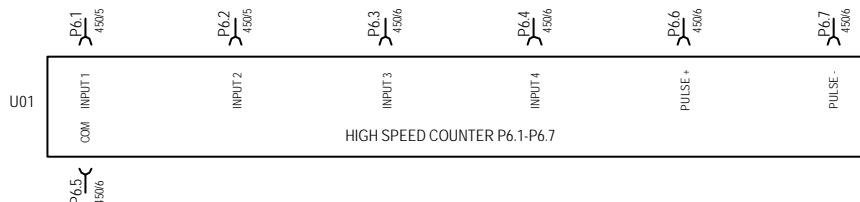
	Date	Initials	Function	TAC Input P2.1-7 and P5.1-7			
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz			
Approved			Comments				
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet 402 Sheet 401

1	2	3	4	5	6	7	8	9	10	11	12	13
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305/13 24VDC3

RD 0,75mm²

24VDC3 403/1



305/13 0VDC

BK 1,5mm²

0VDC 403/1

SPARE

SPARE

SPARE

SPARE

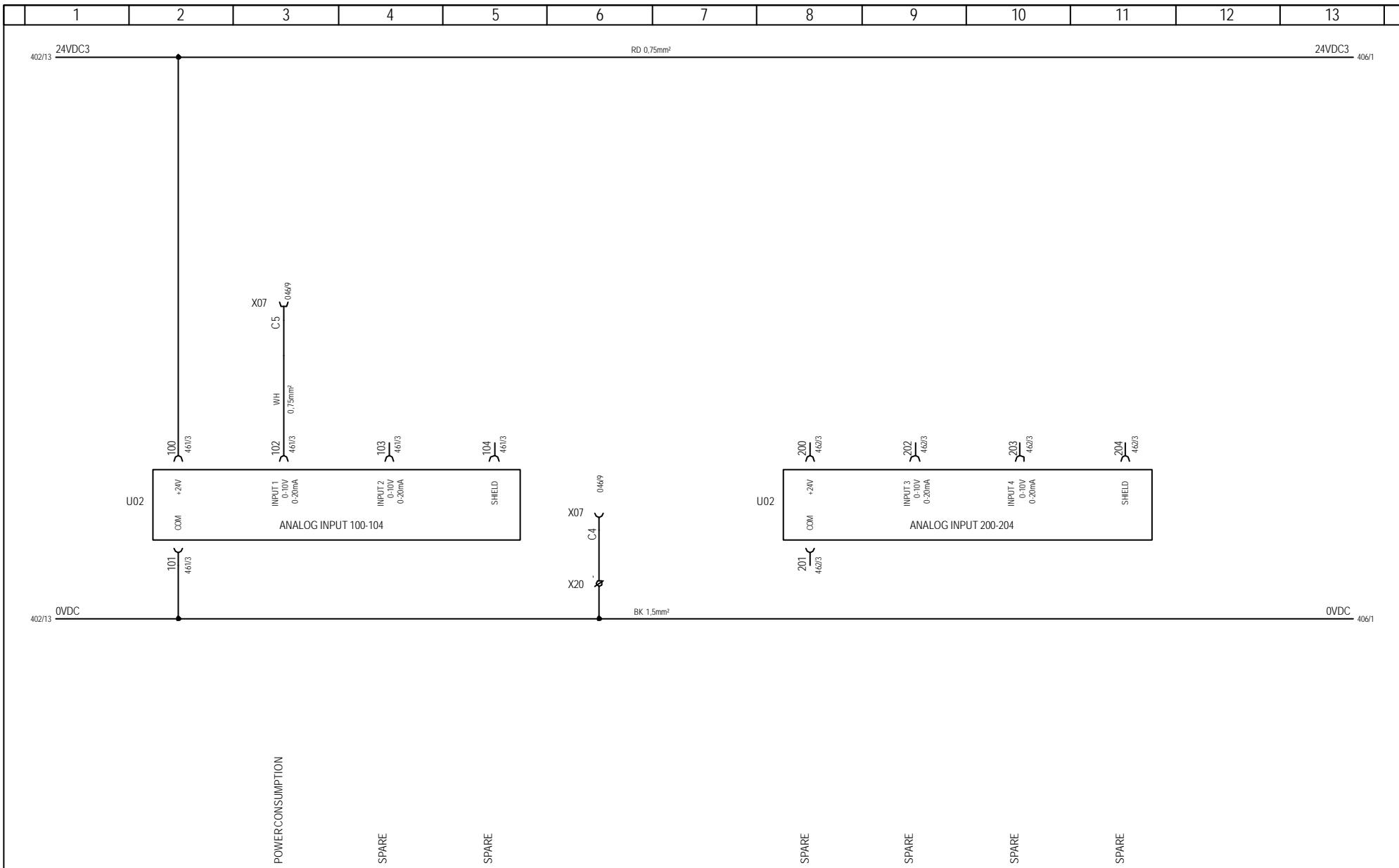
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	Date	Initials	Function	TAC Input P6.1 - P6.7		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	403	Sheet	402

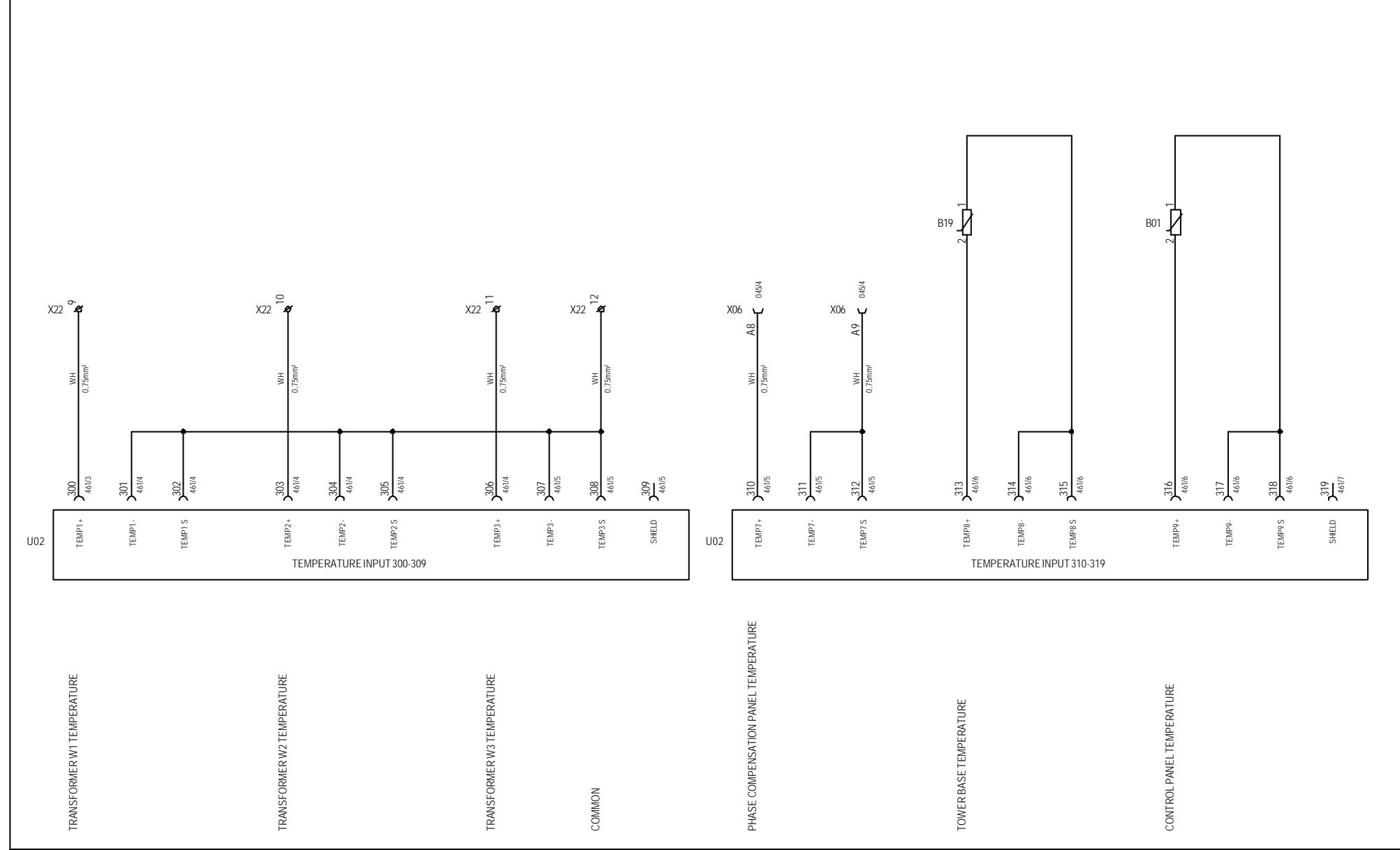


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	Date	Initials	Function	TOI Input 100 - 204				
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz				
Approved			Comments			Customer	NEG Micon A/S	
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	404
							Sheet	403

1	2	3	4	5	6	7	8	9	10	11	12	13
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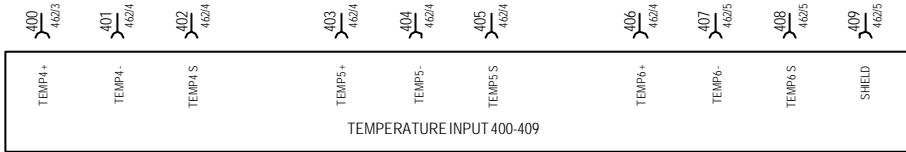


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	Date	Initials	Function	TOI Input 300 - 319		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	405	Sheet	404

	1	2	3	4	5	6	7	8	9	10	11	12	13
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U02



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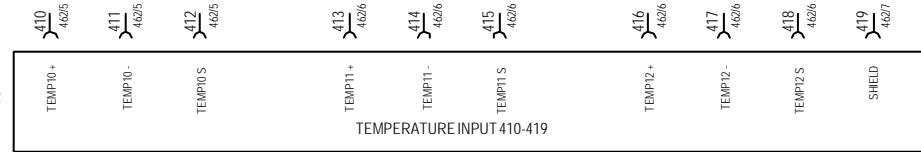
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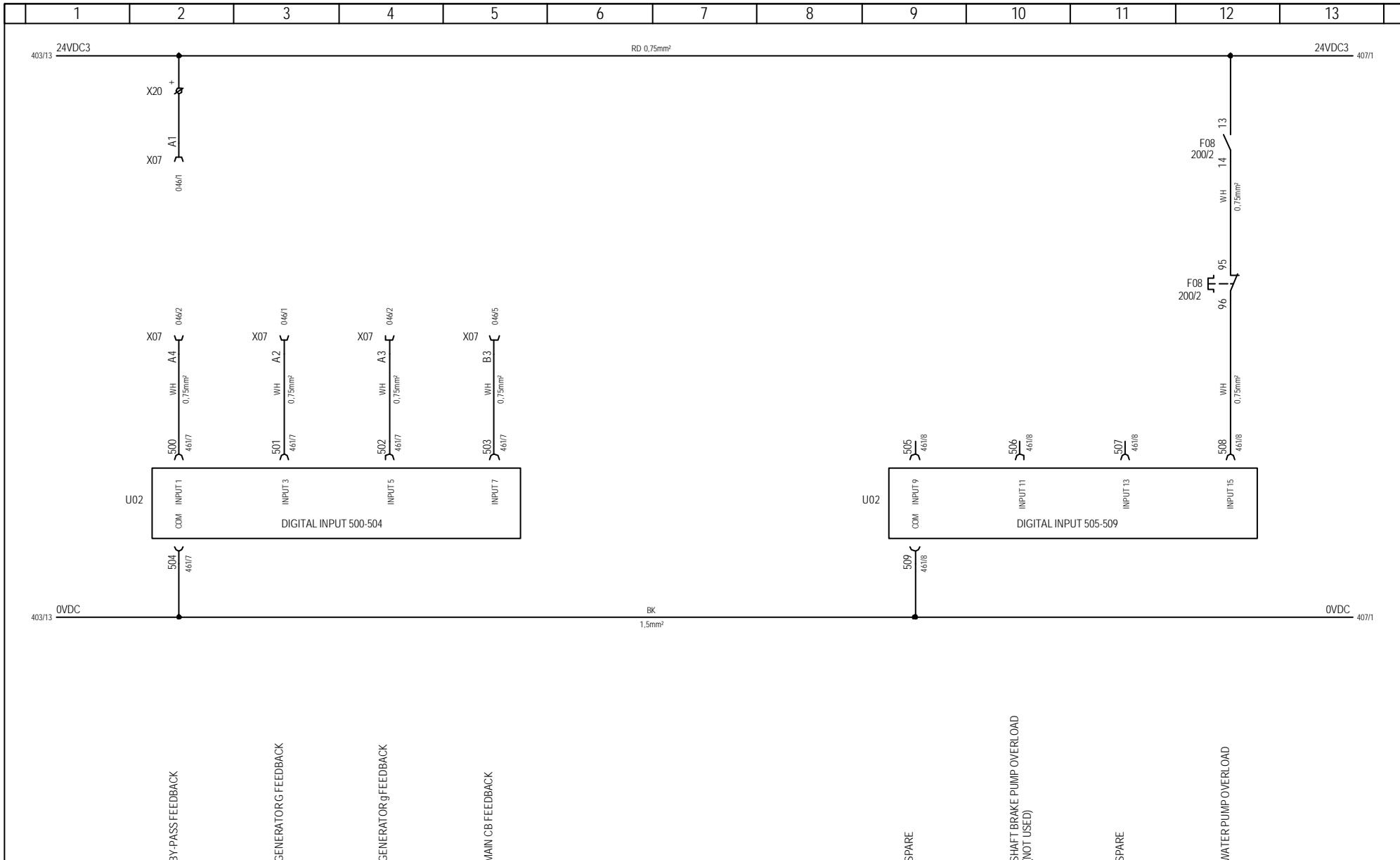
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Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	406	Sheet	405

U02



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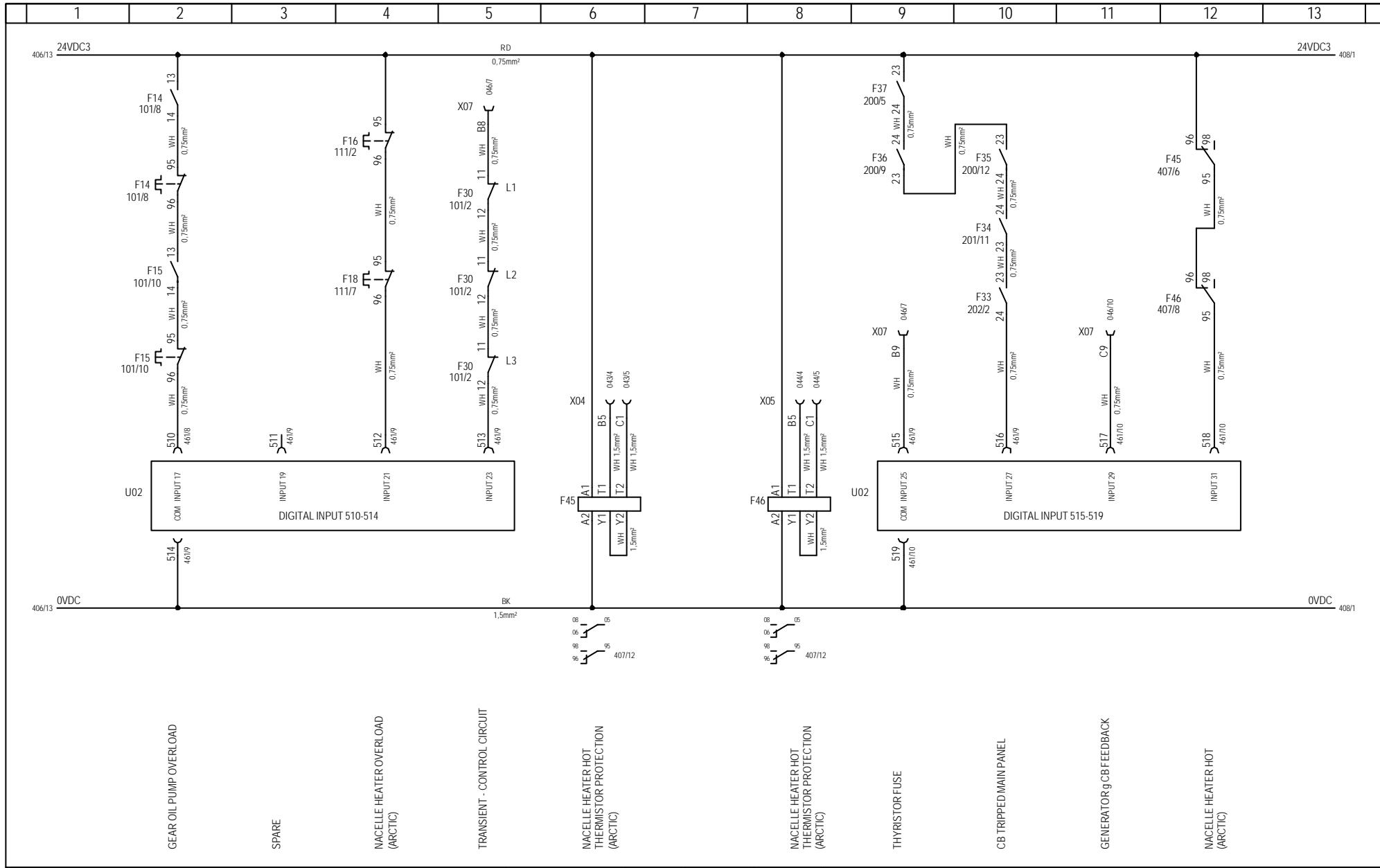


17-11 03.11.03



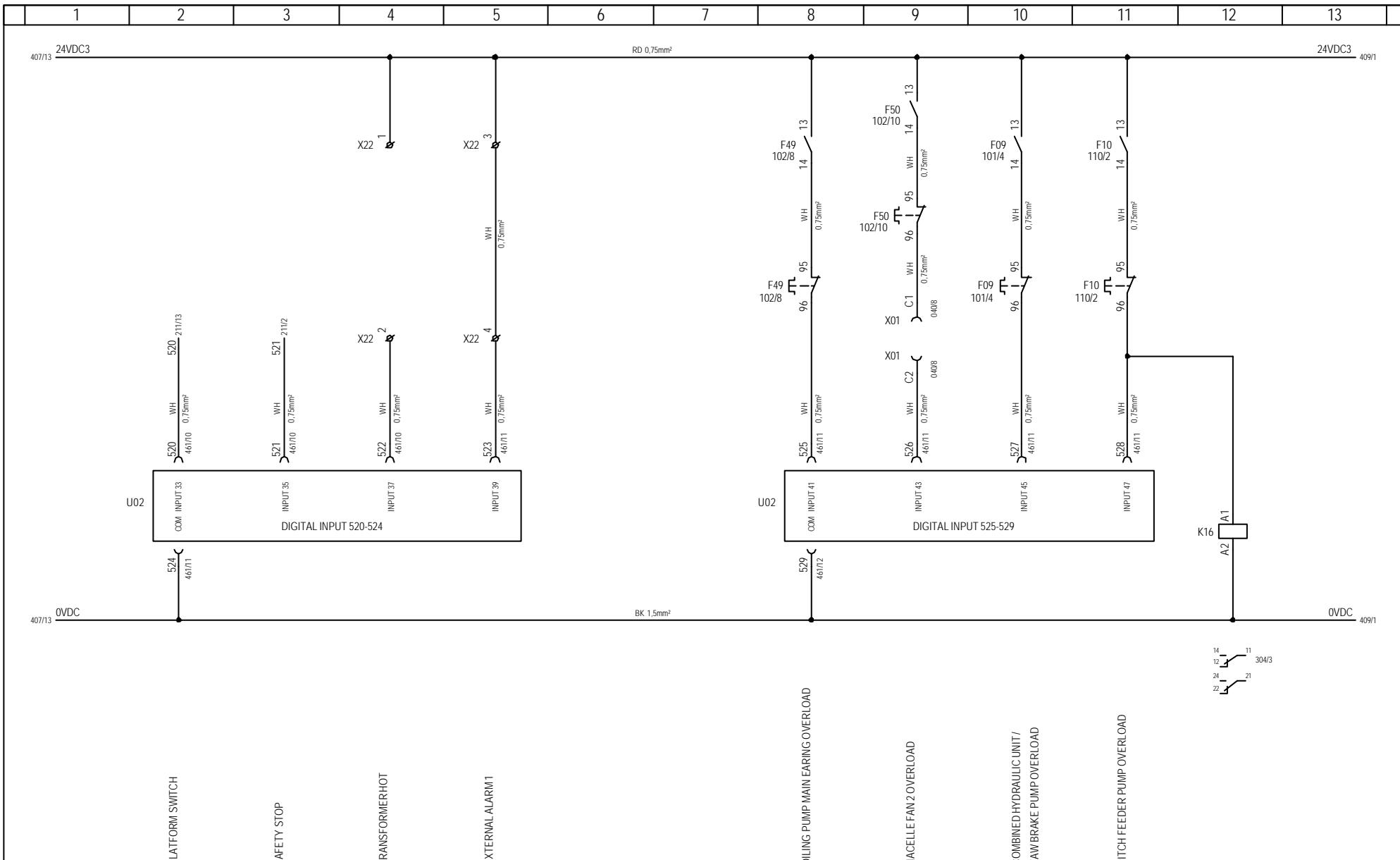
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	Date	Initials	Function	TOI Input 500 - 508		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	407	Sheet	406



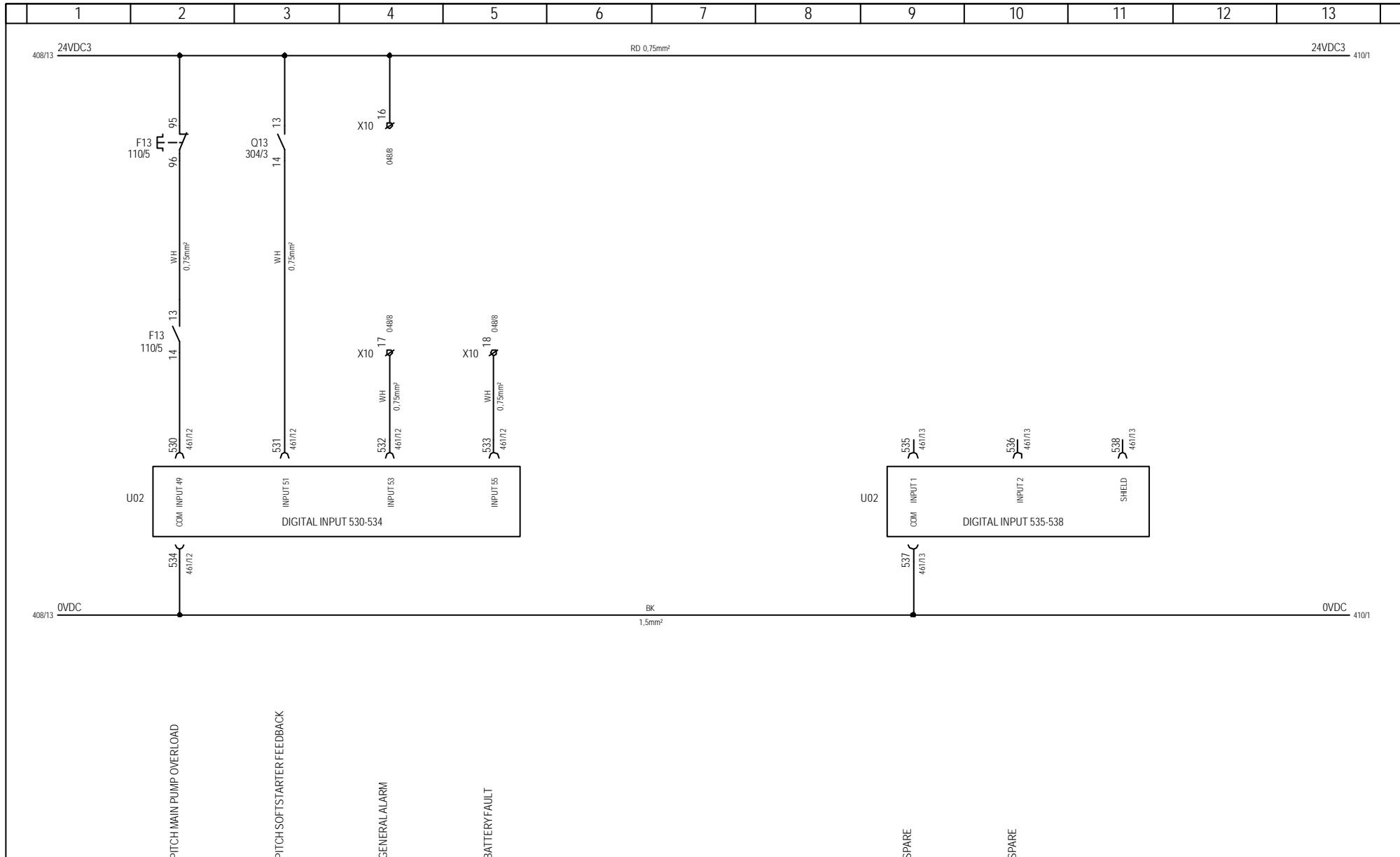
17.11.03
03.11.03

	Date	Initials	Function	TOI Input 510 - 518		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	408	Sheet	407



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	Date	Initials	Function TOI Input 520 - 528							
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	409	Sheet	408

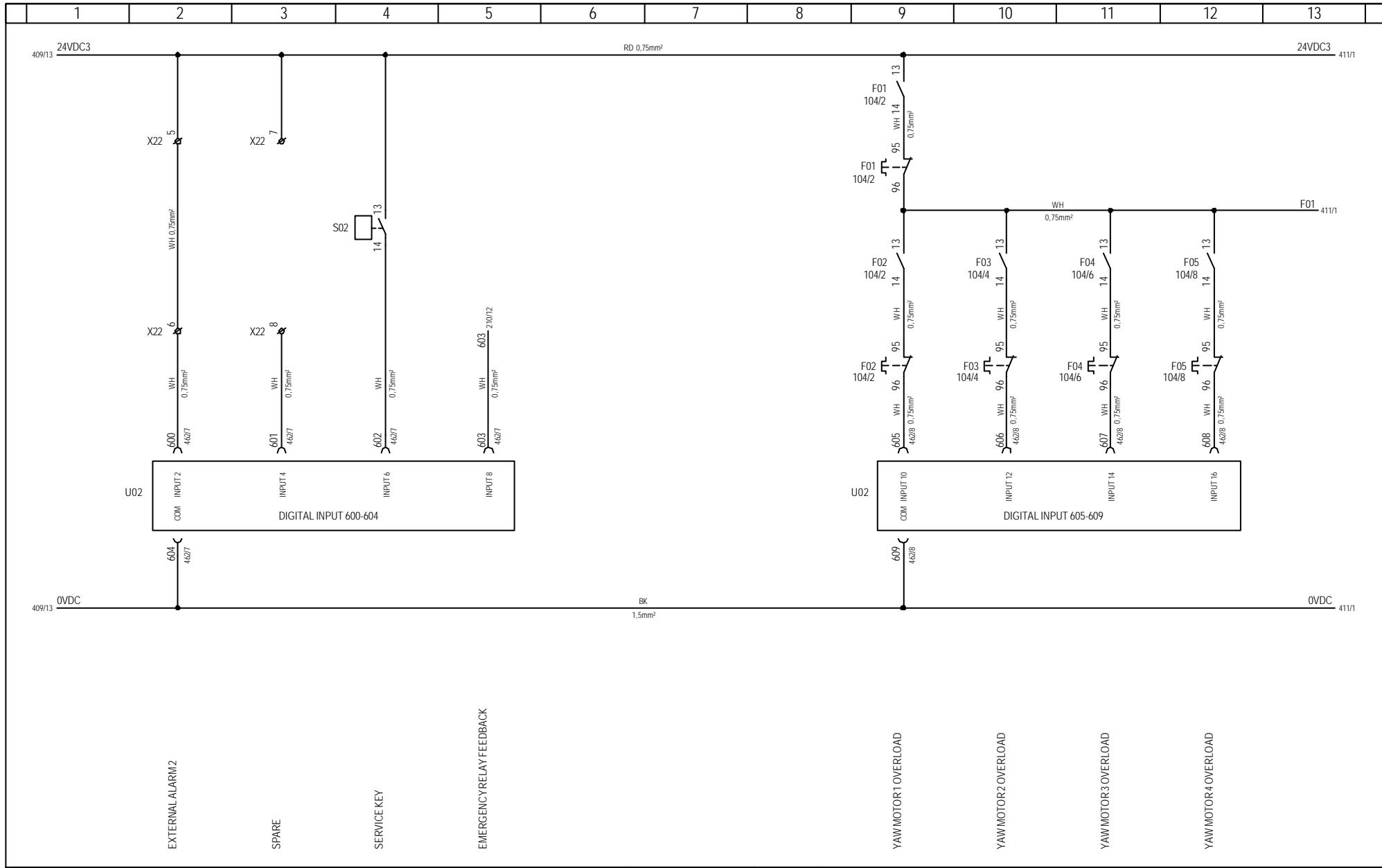


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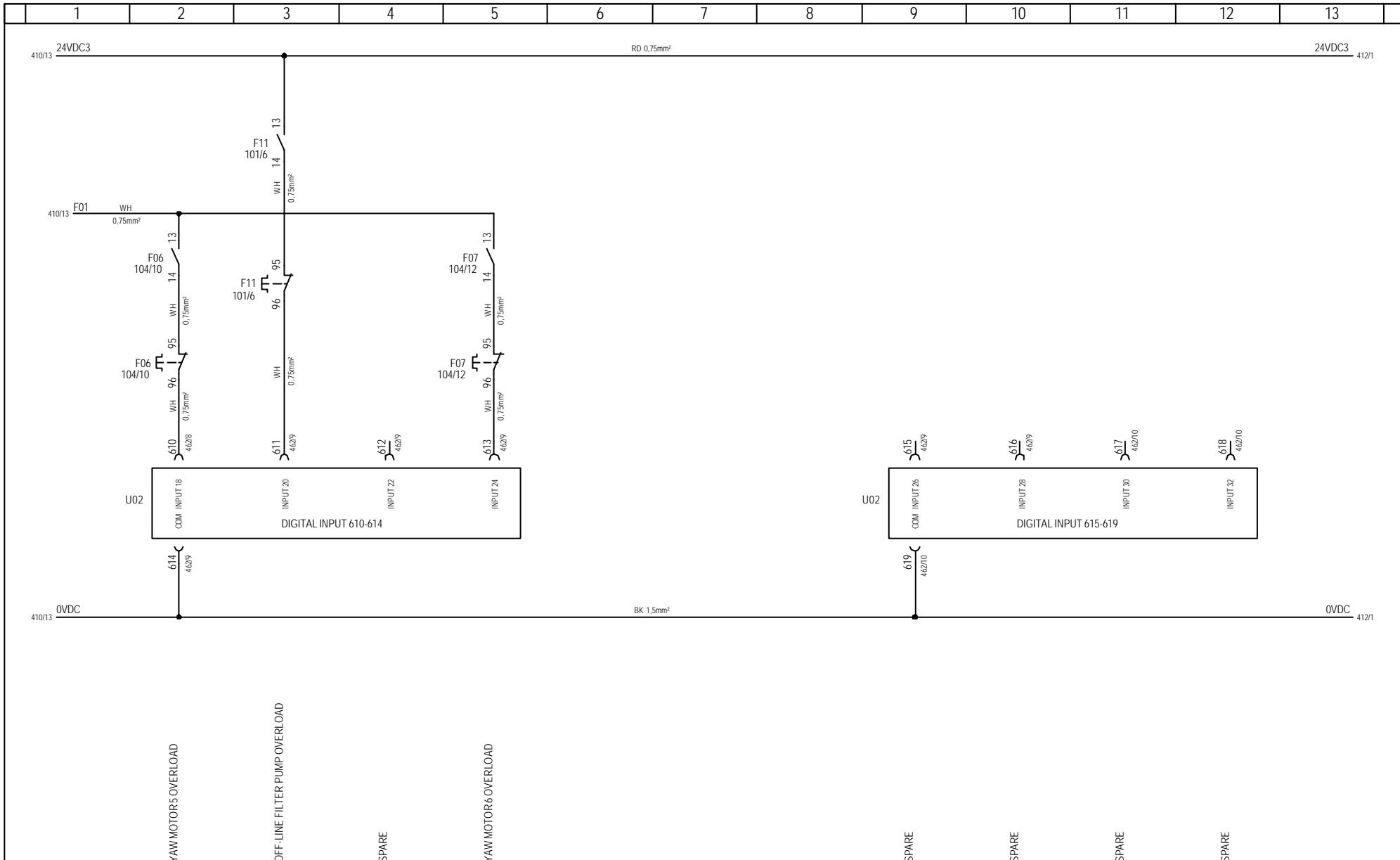


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	Date	Initials	Function	TOI Input 530 - 538		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	410	Sheet	409



	Date	Initials	Function	TOI Input 600 - 608		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	411	Sheet	410



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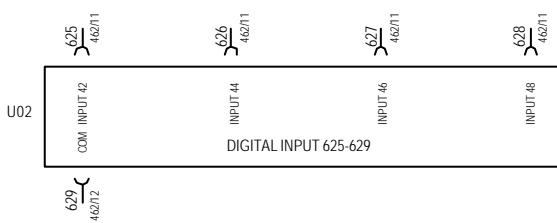
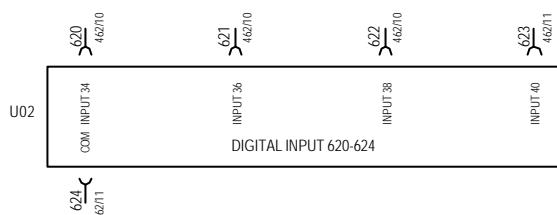
	Date	Initials	Function	TOI Input 610 - 618				
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz				
Approved			Comments	Customer NEG Micon A/S				
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	412

1	2	3	4	5	6	7	8	9	10	11	12	13
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411/13 24VDC3

RD 0,75mm²

24VDC3 413/1



411/13 0VDC

BK 1,5mm²

0VDC 413/1

03.11.03
17.11.11

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	Date	Initials	Function	TOI Input 620 - 628		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments	Customer		
Revised	031006	CHO	Rev. -	Drawing no.	6012290	Cont. sheet 413 Sheet 412

1	2	3	4	5	6	7	8	9	10	11	12	13
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413/13 24VDC3 RD 0.75mm² 451/10

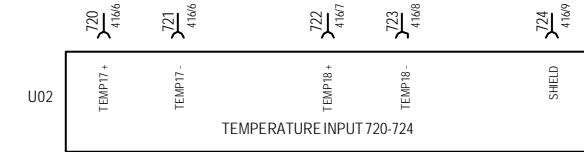
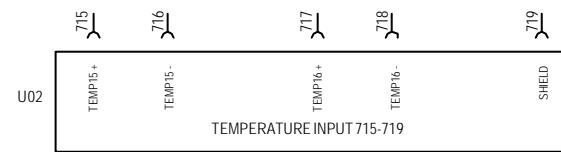
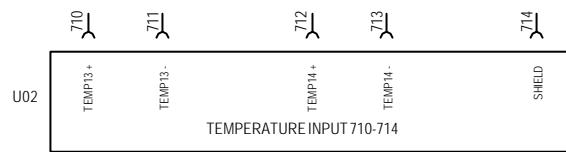
413/13 0VDC BK 1.5mm² 451/10



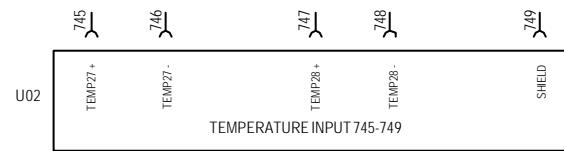
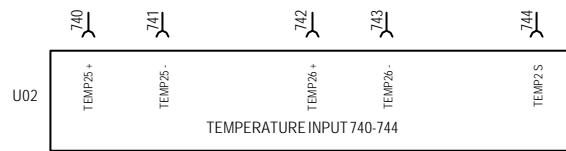
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	Date	Initials	Function	TOI Input 700 - 709						
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	415	Sheet	414

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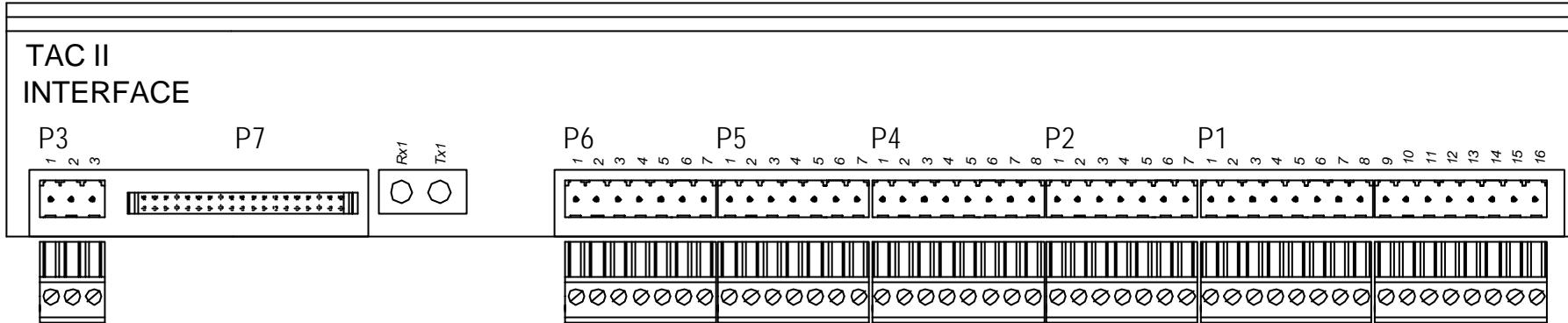


1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	TOI Input 740 - 748		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	450	Sheet	417

TAC II INTERFACE



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401/2	401/3	401/4	401/5	401/2	401/6	401/7	400/2	400/2	400/3	400/4	400/5	400/6	400/7	400/8	400/8	400/9	400/10	400/11	400/11	400/12	400/13
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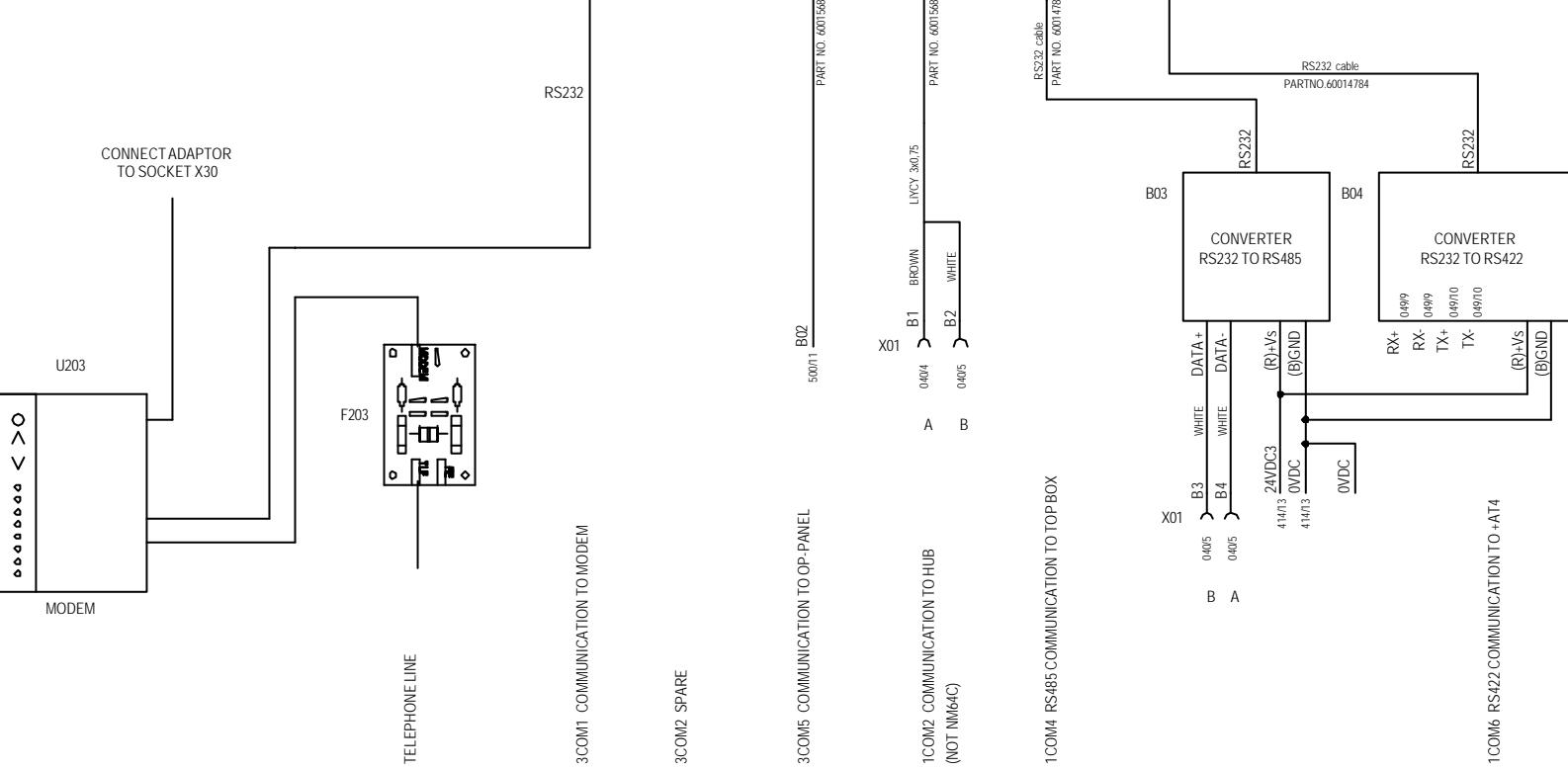
SUPPLY

COMMUNICATION TOI

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Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz					
Approved			Comments						Customer NEG Micon A/S
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	451	Sheet 450

1	2	3	4	5	6	7	8	9	10	11	12	13
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TAC II INTERFACE



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	Date	Initials	Function	TAC outline	
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz	
Approved			Comments	Customer NEG Micon A/S	
Revised	031006	CHO	Rev. -	Drawing no.	6012290
				Cont. sheet	460
				Sheet	451

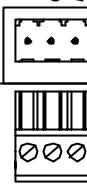
TOI 2 OUTPUT INTERFACE

PAGE

SUPPLY
SUPPLY
PE

2109
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18VAC
0VAC
PE



COMMUNICATION TO TAC

COMMUNICATION TO TAC

COMMUNICATION TO TOIN TOPBOX

COMMUNICATION TO TOIN TOPBOX

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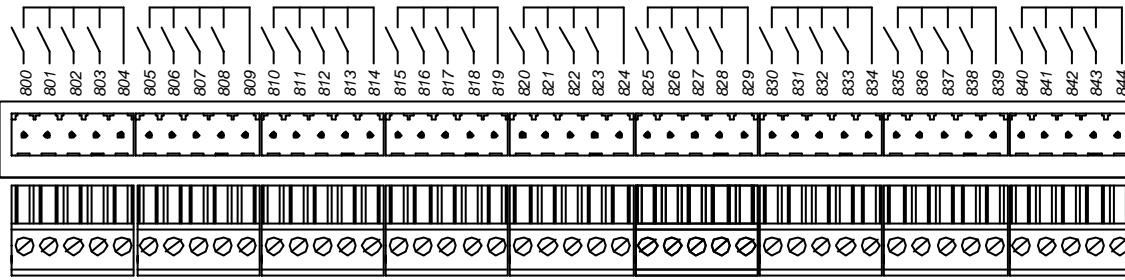
500/7

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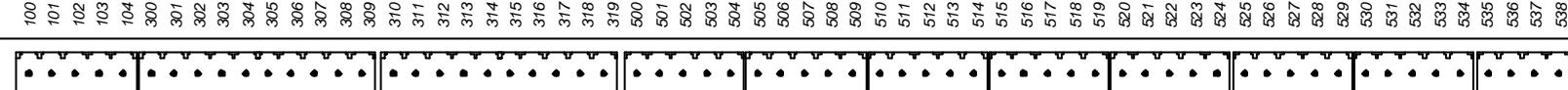
BY-PASSCONTACTOR
GENERATORG CONTACTOR
GENERATORG CONTACTOR
TRIP MAIN CB
230V SUPPLY
YAW/CW
YAW/CW
SHAFTBRAKE PUMP
OFF-LINE FILTERPUMP
230V SUPPLY
WATER PUMP
GEAR OIL PUMP HIGH SPEED
GEAR OIL PUMP LOW SPEED
NACELLE HEATER FAN GEAR BOX
230V SUPPLY
NACELLE HEATER GEARBOX
NACELLE HEATER YAW
MAIN PANEL HEATER
THYRISTOR FAN
230V SUPPLY
PHASE COMPENSATION FAN

PHASE COMPENSATION HEATER
COMBINED HYDRAULIC UNIT OR YAW/BRAKE PUMP
PHASE COMP. 1
230V SUPPLY
PHASE COMP. 2
PHASE COMP. 3
PHASE COMP. 4
PHASE COMP. 5
230V SUPPLY
PITCH MAIN PUMP
PITCH FEEDER PUMP
OIL PUMP MAIN BEARING
NACELLE FAN 2
230V SUPPLY
CONTROL PANEL FAN
GEAR OIL HEATER
NACELLE HEATER FAN YAW
SPARE
230V SUPPLY
SUPPLY SAFETY LINE
RESET EMERGENCY LINE
SAFE NET
SPARE
24V DC SUPPLY



	Date	Initials	Function	TOI outline output		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments			
Revised	031006	CHO	Rev.	-	Drawing no.	6012290
			Cont. sheet	461	Sheet	460

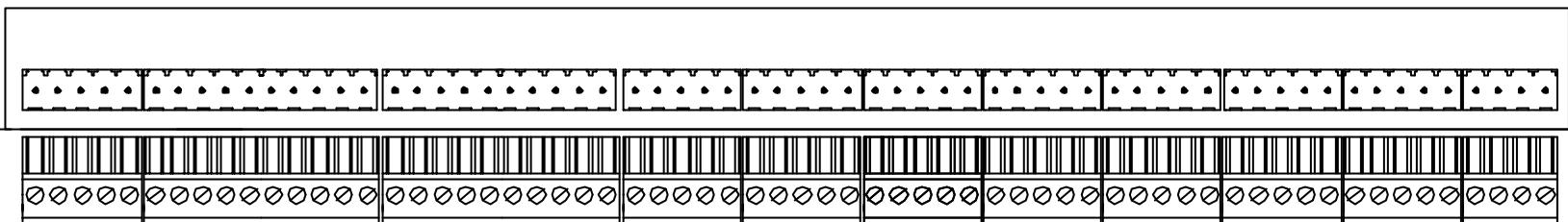
TOI 2 INPUT INTERFACE



PAGE	40382	100
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POWERCONSUMPTION	40383	102
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SHIELD	40385	104
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TRANSFORMER W1 TEMPERATURE	40412	301
TRANSFORMER W1 TEMPERATURE	40412	302
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SPARE	40919	534
SPARE	40910	535
SPARE	40919	536
0VDC	40911	537
	40911	538

	Date	Initials	Function	TOI outline input		
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz		
Approved			Comments	Customer		
Revised	031006	CHO	Rev. -	Drawing no.	6012290	Cont. sheet 462 Sheet 461

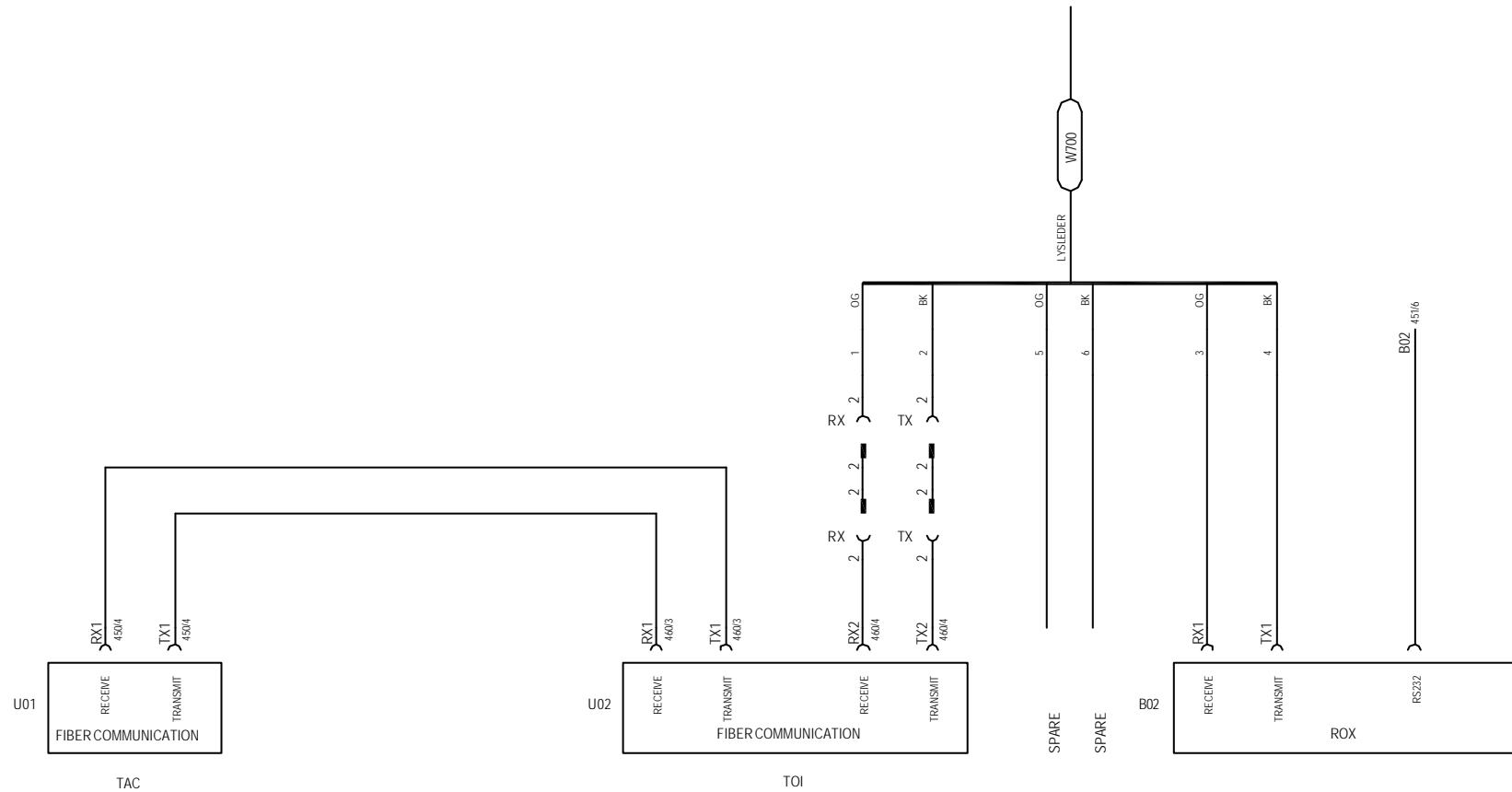
TOI 2 INPUT INTERFACE



PAGE	24VDC	4038
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SPARE	SPARE	405/1
SPARE	SPARE	405/2
SPARE	SPARE	405/3
SPARE	SPARE	405/4
SPARE	SPARE	405/4
SPARE	SPARE	405/5
SPARE	SPARE	405/6
SPARE	SPARE	405/6
SPARE	SHIELD	405/7
SPARE	SPARE	405/8
SPARE	SPARE	405/8
SPARE	SPARE	405/9
SPARE	SPARE	405/10
SPARE	SPARE	405/10
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SPARE	SPARE	405/12
SPARE	SPARE	405/12
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	LOW PRODUCTION	4103
	SERVICE KEY	4104
	EMERGENCY RELAY FEEDBACK	4105
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	YAW/MOTOR2 OVERLOAD	410/10
	YAW/MOTOR3 OVERLOAD	410/11
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	SPARE	412/11
	SPARE	412/12
	(VDC)	412/9
	SPARE	413/2
	SPARE	413/3
	SPARE	413/4
	SPARE	413/5
	SPARE	413/2
	SPARE	413/9

	Date	Initials	Function	TOI outline input						
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Cont. sheet	500	Sheet	462

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	Date	Initials	Function	Fibre optic communication			
Designed	031006	CHO	Project title	Control panel +AT2 PS/AS 30T 690V 50Hz			
Approved			Comments				
Revised	031006	CHO	Rev.	-	Drawing no.	6012290	Customer NEG Micon A/S
			Cont. sheet	-	Sheet	500	

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LST: 21000075
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Material 60096681
Description CONTROL PANEL +AT2 PS/AS 30t 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60092825	CABINET TS8 1200*2200*600mm 2DOOR w.WORK	1	PC					
60010525	MOUNTING PLATE TS8 1099x2096mm w. WORK	1	PC					
60096909	SUPPORT RAIL TS8 4396.000 600mm	2	PC					
60010560	ATTACHMENT f.MOUNTING PLATE TS 8800.050	2	PC					
60010550	PUNCH SECTION 8612.160 600x73mm OUTER	5	PC					
60010453	WIRING PLAN POCKET 455*260*90mm STEEL	1	PC					
60010481	UTILITY LECTERN 4638.600 413x400mm	1	PC					
60014021	LASER LABEL +AT2 NM72/1500C	1	PC					
60013704	CABLE ENTRY PLATE 520x100 CPU PANEL 30t	1	PC					
60002320	STICKER GENERAL USE NEGM CONTROL SYSTEMS	1	PC					
60097575	TYPE SIGN +AT2 PS/AS 30t 50Hz	1	PC					
60002572	THERMOLABEL "Computer panel +AT2"	1	PC					
60002421	THERMOLABEL "Service 0 1"	1	PC					
60002681	Label "Warning Disconnect F01"	1	PC					
60002670	THERMO."Rotate cable plate..during inst"	2	PC					
60010699	CONDENSATION PROTECTION DRY BAG 500g	2	PC					
60007240	BUSBAR HOLDER 8US1923 12x5-10x30mm	10	PC					
60013719	SPACER ALU 5x20x220mm for BUSBAR HOLDER	2	PC					
60098112	BUSBAR ADAPTOR 8US12 61 -5FM08 55mm	2	PC					
60007263	BUSBAR ADAPTOR 8US19 98-2BM00 13.5mm	38	PC					
60007258	BUSBAR ADAPTOR 8US12 50-5RM07 45mm	25	PC					
60007262	BUSBAR ADAPTOR 32 214 108mm	1	PC					
60007242	END COVER 8US1922 for BUSBAR HOLDER	7	PC					
60007283	BUSBAR COVER 78 393 12-30x10mm	3	M					
60013339	CU BUSBAR 10x30x565 NM82/72/64/1500 CPU	3	PC					
60098312	CU BUSBAR 10x30x955 PS/AS 30t	6	PC					
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B01				
60015671	ST-ROX RS232/50u CONVERTER	1	PC	B02				
60013722	PLATE ALU 2x76x76mm for ST-ROX	1	PC	B02				
60006058	END STOP 105900 for TERMINALS WEW35/1	1	PC	B02				
60015684	CABLE for SIF-TAC-II RS485	1	PC					
60015685	CABLE for ROX-TAC-II RS232 3M	1	PC	B02				
60004927	RS232/RS485 CONVERTER I-7520 ICP	1	PC	B03				
60014784	RS232 CABLE EXTENSION 9-9-POLED 3m	1	PC	B03				
60005009	DATA CONVERTER RS232/RS485 M485-CNV232	1	PC	B04 EON				
60014784	RS232 CABLE EXTENSION 9-9-POLED 3m	1	PC	B04 EON				
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B19				
60014729	HEATER FAN CRO 27 230V 350W UL	1	PC	E01				
60014729	HEATER FAN CRO 27 230V 350W UL	1	PC	E02				
60004755	CIRCUIT BREAKER 3RV1121-1KA10 9.0-12.5A	1	PC	F01				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F01				
60004797	LINK MODULE 3RA1921-1AA00 S0-S0	1	PC	F01				
60004746	CIRCUIT BREAKER 3RV1121-1AA10 1.1-1.6A	1	PC	F02				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F02				
60004746	CIRCUIT BREAKER 3RV1121-1AA10 1.1-1.6A	1	PC	F03				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F03				
60004746	CIRCUIT BREAKER 3RV1121-1AA10 1.1-1.6A	1	PC	F04				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F04				
60004746	CIRCUIT BREAKER 3RV1121-1AA10 1.1-1.6A	1	PC	F05				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F05				
60004746	CIRCUIT BREAKER 3RV1121-1AA10 1.1-1.6A	1	PC	F06				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F06				
60004746	CIRCUIT BREAKER 3RV1121-1AA10 1.1-1.6A	1	PC	F07				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F07				
60004750	CIRCUIT BREAKER 3RV1121-1EA10 2.8-4.0A	1	PC	F08				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F08				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F08				
60004743	CIRCUIT BREAKER 3RV1121-0HA10 0.55-0.8A	1	PC	F09				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F09				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F09				
60004752	CIRCUIT BREAKER 3RV1121-1GA10 4.5-6.3A	1	PC	F10				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F10				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F10				
60004745	CIRCUIT BREAKER 3RV1121-0KA10 0.9-1.25A	1	PC	F11				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F11				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F11				
60004762	CIRCUIT BREAKER 3RV1131-4DA10 18.0-25.0A	1	PC	F13				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F13				

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Version 01

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Material 60096681
Description CONTROL PANEL +AT2 PS/AS 30t 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60097802	LINK MODULE 3RA1931-1AA00 S2-S2	1	PC	F13				
60004751	CIRCUIT BREAKER 3RV1121-1FA10 3.5-5.0A	1	PC	F14				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F14				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F14				
60004753	CIRCUIT BREAKER 3RV1121-1HA10 5.5-8.0A	1	PC	F15				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F15				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F15				
60014160	MARKER CARD RC610 NACELLE HEATER 1/2	1,000	SH	F16-F19				
60005983	TERMINAL STANDARD M4/6 115116.07	5	PC	F16				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	F16				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F16				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	F16				
60005983	TERMINAL STANDARD M4/6 115116.07	8	PC	F17				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	F17				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F17				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	F17				
60005983	TERMINAL STANDARD M4/6 115116.07	5	PC	F18				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	F18				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F18				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	F18				
60005983	TERMINAL STANDARD M4/6 115116.07	8	PC	F19				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	F19				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F19				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	F19				
60005983	TERMINAL STANDARD M4/6 115116.07	3	PC	F20				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	F20				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F20				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	F20				
60014159	MARKER CARD RC610 GEAR OIL HEATER	1,000	SH	F20				
60005996	TERMINAL STANDARD M6/8 GREY 115118.11	7	PC	F21				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	F21				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	F21				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	F21				
60014161	MARKER CARD RC610 SERVICE LIFT	1,000	SH	F21				
60004712	CIRCUIT BREAKER 3RV1421-1GA10 4.5-6.3A	1	PC	F22				
60004712	CIRCUIT BREAKER 3RV1421-1GA10 4.5-6.3A	1	PC	F23				
60005071	FUSE SWITCH NH00 33198 3-POLED	1	PC	F24				
60004712	CIRCUIT BREAKER 3RV1421-1GA10 4.5-6.3A	1	PC	F25				
60005759	RCCB 5SM1312-6 2-POLED 25A 500VAC	1	PC	F27				
60005154	MCB 5SX2204-7 C 2-POL. 4.0A 440VAC-60VDC	1	PC	F28				
60005071	FUSE SWITCH NH00 33198 3-POLED	1	PC	F29				
60005097	FUSE NH00 3NA3820-6 gL/gG 50A 690V	3	PC	F29				
60000674	OVERVOLTAGE PROTECTOR 600FM	3	PC	F30				
60000675	BUSBAR for 3 OVERVOLTAGE PROTECTORS	1	PC	F30				
60013281	CU BUSBAR 3x15x75mm FISHPLATE f.DEHNGUAR	1	PC	F30				
60004648	CIRCUIT BREAKER 3RV1021-0AA10 0.11-0.16A	1	PC	F31				
60005071	FUSE SWITCH NH00 33198 3-POLED	1	PC	F32				
60005098	FUSE NH00 3NA3822-6 gL/gG 63A 690V	3	PC	F32				
60005157	MCB 5SX2206-7 C 2-POL. 6.0A 440VAC-60VDC	1	PC	F33				
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F33				
60005157	MCB 5SX2206-7 C 2-POL. 6.0A 440VAC-60VDC	1	PC	F34				
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F34				
60005157	MCB 5SX2206-7 C 2-POL. 6.0A 440VAC-60VDC	1	PC	F35				
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F35				
60005157	MCB 5SX2206-7 C 2-POL. 6.0A 440VAC-60VDC	1	PC	F36				
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F36				
60005159	MCB 5SX2208-7 C 2-POL. 8.0A 440VAC-60VDC	1	PC	F37				
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F37				
60005162	MCB 5SX2213-7 C 2-POL. 13.0A 440VAC-60VDC	1	PC	F38				F38 If EVOI Hub
60005158	MCB 5SX2206-8 D 2-POL. 6.0A 440VAC-60VDC	1	PC	F39				
60005136	MCB 5SX2104-7 C 1-POL. 4.0A 440VAC-60VDC	1	PC	F40				
60004744	CIRCUIT BREAKER 3RV1121-0JA10 0.7-1.0A	1	PC	F49				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F49				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F49				
60004742	CIRCUIT BREAKER 3RV1121-0GA10 0.45-0.63A	1	PC	F50				
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F50				
60004778	AUX. CONTACT 3RV1901-1E 1NO+1NC 0.5A	1	PC	F50				
60004996	EMERGENCY RELAY 3TK2806OBB4 5NO+1NC 400V	1	PC	K01				

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Material 60096681
Description CONTROL PANEL +AT2 PS/AS 30t 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	K02				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	K02				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	K03				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	K03				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K04				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K04				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K04				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K04				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K05				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K05				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K05				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K05				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K06				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K06				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K06				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K06				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K07				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K07				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K07				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K07				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K08				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K08				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K08				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K08				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K09				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K09				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K09				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K09				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K10				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K10				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K10				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K10				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K11				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K11				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K11				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K11				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K12				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K12				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K12				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K12				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K13				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K13				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K13				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K13				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K14				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K14				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K14				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K14				
60004512	INTERFACE RELAY RT424730 8A 2-POL.230V	1	PC	K15				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K15				
60004519	DIODE MODULE RPMG0730 110-230V	1	PC	K15				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K15				
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V	1	PC	K16				
60004520	DIODE MODULE RPML0024 12-24V	1	PC	K16				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K16				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K16				
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V	1	PC	K17				
60004520	DIODE MODULE RPML0024 12-24V	1	PC	K17				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K17				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K17				
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V	1	PC	K18				
60004520	DIODE MODULE RPML0024 12-24V	1	PC	K18				
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K18				
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K18				
60014655	FAN 1-PHASE 230V 500m³/h 64W 323x323x125	1	PC	M01				
60014678	SEALING FRAME IP54 for 500-700m³/h FAN	2	PC	M01				
60014687	FILTER PAD 3183.100 FINE f.500-700m³/h F	2	PC	M01				
60014668	EXHAUST FILT. 3326.200 f.500-700m³/h FAN	1	PC					

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Material 60096681
Description CONTROL PANEL +AT2 PS/AS 30t 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60004407	CONTACTOR 3RT1026-1AP00 230V 50Hz	1	PC	Q01				
60004451	RC UNIT 3RT1926-1CD00 127-240VAC	1	PC	Q01				
60004407	CONTACTOR 3RT1026-1AP00 230V 50Hz	1	PC	Q02				
60004451	RC UNIT 3RT1926-1CD00 127-240VAC	1	PC	Q02				
60004439	Mechanical interlock Sirius 3R	1	PC	Q02/Q03				
60004407	CONTACTOR 3RT1026-1AP00 230V 50Hz	1	PC	Q03				
60004451	RC UNIT 3RT1926-1CD00 127-240VAC	1	PC	Q03				
60004459	REVERSING ASSEMBLIES 3RA1923-2A	1	PAA	Q03				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q08				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q08				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q09				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q09				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q10				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q10				
60004433	AUX. CONTACT 3RH1911-1FA22 2NO+2NC SNAP	1	PC	Q10				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q11				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q11				
60004413	CONTACTOR 3RT1034-1AL20 230V 50/60Hz	1	PC	Q13				
60004456	RC UNIT 3RT1936-1CD00 127-240VAC	1	PC	Q13				
60004444	AUX. CONTACT 3RH1921-1FA22 2NO+2NC SNAP	1	PC	Q13				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q14				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q14				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q15				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q15				
60005983	TERMINAL STANDARD M4/6 115116.07	5	PC	Q16				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	Q16				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	Q16				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	Q16				
60005983	TERMINAL STANDARD M4/6 115116.07	8	PC	Q17				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	Q17				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	Q17				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	Q17				
60005983	TERMINAL STANDARD M4/6 115116.07	5	PC	Q18				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	Q18				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	Q18				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	Q18				
60005983	TERMINAL STANDARD M4/6 115116.07	8	PC	Q19				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	Q19				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	Q19				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	Q19				
60005983	TERMINAL STANDARD M4/6 115116.07	6	PC	Q20				
60005998	END SECTION FEM6 GREY 118368.16	1	PC	Q20				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	Q20				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	Q20				
60005608	LOAD BREAK SWITCH OETL200K3 3-POLED 160A	1	PC	Q21				
60005611	ROTARY HANDLE OHB80J8 for OETL 200K3	1	PC	Q21				
60005614	SHAFT OETL ZA86 for OETL 200 K3 8x500mm	2	PC	Q21				
60095653	TERMINAL SHROUD OETLZX 128	3	PC	Q21				
60093008	THERMO."Q21 main disconnector for Main"	1	PC	Q21				
60005604	LOAD BREAK SWITCH OT32 E4 4-POLED 32A	1	PC	Q22				
60005612	ROTARY HANDLE OHB65J6 for OT125-160	1	PC	Q22				
60005617	SHAFT OXP5X400 for OETL 200 K3 400mm	2	PC	Q22				
60094268	ALU BRACKET, SHAFT-MAIN SWITCH, CPU 1650	1	PC	Q22				
60005622	SHAFT EXTENSION OETLZX31 for 5-6mm SHAFT	1	PC	Q22				
60093009	THERMO."Q22 DISCONNECTOR FOR 230V UPS"	1	PC	Q22				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q49				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q49				
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q50				
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q50				
60005824	MUSHROOM BUTTON ISAF616510R1001 RED	1	PC	S01				
60005871	SIGN SK615546-2 "EMERGENCY STOP" YELLOW	1	PC	S01				
60005849	SAFETY HOLDER f.3 ELEMENTS 1SFA616605R1100	1	PC	S01				
60005846	CONTACT ELEMENT SK616 001-B 1NC	2	PC	S01				
60005836	SELECT SWITCH ISFA616280R100 2-POS.w.KEY	1	PC	S02				
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S02				
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S02				
60015639	TAC-II/F NEGM NM1500C/72/82 w. 5X RS232	1	PC	U01				
6000824	PATCH CABLE DUPLEX MULTIMODE 62.5/125 2m	1	PC	U01				

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Material 60096681
Description CONTROL PANEL +AT2 PS/AS 30t 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60001918	BLA3 12818.6 FEMALE TERMINAL SCREW 180°	1	PC	U01				
60001950	BLA7 12822.6 FEMALE TERMINAL SCREW 180°	3	PC	U01				
60001957	BLA8 12823.6 FEMALE TERMINAL SCREW 180°	3	PC	U01				
60015642	TOII INTERFACE NM1500 TOWER	1	PC	U02				
60001918	BLA3 12818.6 FEMALE TERMINAL SCREW 180°	1	PC	U02				
60001934	BLA5 12820.6 FEMALE TERMINAL SCREW 180°	6	PC	U02				
60001965	BLA10 12825.6 FEMALE TERMINAL SCREW 180°	4	PC	U02				
60001927	BLA4 12819.6 FEMALE TERMINAL SCREW 180°	2	PC	U02				
60000717	BATTERY CHARGER 115-230/24V 5A ADC5183	1	PC	U03				
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	U03				
60091319	ISOLA.TRAFO UI180/757376 600-690/2x115V	1	PC	T01				
60006925	VOLT.TRAFO EI66/25-6251 520/24VAC 30VA	1	PC	T02				
60006925	VOLT.TRAFO EI66/25-6251 520/24VAC 30VA	1	PC	T03				
60006925	VOLT.TRAFO EI66/25-6251 520/24VAC 30VA	1	PC	T04				
60091319	ISOLA.TRAFO UI180/757376 600-690/2x115V	1	PC	T05				
60000604	VDR SIOV-S10K40 40V	1	PC	V01				
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X01				
60002503	THERMOLABEL "-X01"	1	PC	X01				
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X02				
60002504	THERMOLABEL "-X02"	1	PC	X02				
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X03				
60002505	THERMOLABEL "-X03"	1	PC	X03				
60006571	HOUSING C14610F0160001 32P BULKHEAD	1	PC	X04				
60002506	THERMOLABEL "-X04"	1	PC	X04				
60007419	WIRE HOSE BLACK 15mm	0,300	M					
60006571	HOUSING C14610F0160001 32P BULKHEAD	1	PC	X05				
60002507	THERMOLABEL "-X05"	1	PC	X05				
60007419	WIRE HOSE BLACK 15mm	0,300	M					
60006571	HOUSING C14610F0160001 32P BULKHEAD	1	PC	X06				
60002508	THERMOLABEL "-X06"	1	PC	X06				
60007419	WIRE HOSE BLACK 15mm	0,300	M					
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X07				
60002509	THERMOLABEL "-X07"	1	PC	X07				
60006571	HOUSING C14610F0160001 32P BULKHEAD	1	PC	X08				
60002525	THERMOLABEL "-X08"	1	PC	X08				
60007419	WIRE HOSE BLACK 15mm	0,300	M					
60011436	SOCKET 216RU6 2P+E 250V 16A CEE	1	PC	X16				
60011441	CEE outlet 3P+PE 200-250V 16A 316RU9	1	PC	X17				
60011324	SOCKET ABB E1175 for DIN-RAIL 16A	1	PC	X30				
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X30				
60096685	TERMINAL WAGO 281-901 1-LEV. 0.08-4.0mm²	18	PC	X10				
60006073	TERMINAL WAGO 282-901 1-LEVEL 0.2-6.0mm²	2	PC	X10				
60097064	END SECTION 281-328 GREY	1	PC	X10				
60006085	END SECTION 282-325 1-LEVEL GREY	1	PC	X10				
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X10				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X10				
60096685	TERMINAL WAGO 281-901 1-LEV. 0.08-4.0mm²	3	PC	X11				
60097064	END SECTION 281-328 GREY	1	PC	X11				
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X11				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X11				
60006073	TERMINAL WAGO 282-901 1-LEVEL 0.2-6.0mm²	3	PC	X12				
60006085	END SECTION 282-325 1-LEVEL GREY	1	PC	X12				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	X12				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X12				
60006075	TERMINAL WAGO 870-681 0.08-2.5mm²	7	PC	X13				
60006080	END SECTION 870-933 1-LEVEL GREY	3	PC	X13				
60006087	PUSH-IN JUMPER BAR 870-403 3-POLED	1	PC	X13				
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED	2	PC	X13				
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X13				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X13				
60006075	TERMINAL WAGO 870-681 0.08-2.5mm²	10	PC	X20				
60006080	END SECTION 870-933 1-LEVEL GREY	3	PC	X20				
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	X20				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X20				
60006088	PUSH-IN JUMPER BAR 870-404 4-POLED	1	PC	X20				
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED	1	PC	X20				
60006075	TERMINAL WAGO 870-681 0.08-2.5mm²	12	PC	X22				
60006080	END SECTION 870-933 1-LEVEL GREY	1	PC	X22				

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Material 60096681
Description CONTROL PANEL +AT2 PS/AS 30t 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X22				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X22				
60098043	MARKER CARD WAGO 1 +AT2 PS/AS 30t WMB	1	PC					
60013723	ANGLE ALU 2x50x80mm for 2xST-COUPLER	1	PC	RX/TX				
60006058	END STOP 105900 for TERMINALS WEW35/1	1	PC	RX/TX				
60008794	FIBRE PLUG ST-COUPLER AMP 05-504021-1	2	PC	RX/TX				
60008829	PATCH CABLE DUPLEX MULTIMODE 62.5/125 3m	1	PC	RX/TX				
60014164	MARKER CARD RC610 Nos 1-10 VERTICAL	1,000	SH					
60014165	MARKER CARD RC610 Nos 11-20 VERTICAL	1,000	SH					
60014157	MARKER CARD RC610 X13 X20 CPU PANEL 30t	1,000	SH					
60007201	EARTH BAR 01130 9x6.5x1000mm	0,470	M	PE				
60007201	EARTH BAR 01130 9x6.5x1000mm	0,200	M	PE				
60007353	CABLE CONDUIT 21151 25x25mm	0,490	M					
60007367	CABLE CONDUIT 21152 40x25mm	0,450	M					
60007358	CABLE CONDUIT 21155 40x40mm	1,950	M					
60007360	CABLE CONDUIT 21166 40x80mm	6,640	M					
60007366	CABLE CONDUIT 21167 60x80mm	3,960	M					
60007182	DIN RAIL PP0735H 7x35mm	3,210	M					
60007539	CABLE GLAND BS12 PG9 NYLON	1	PC					
60007553	LOCKNUT BLN12 PG9 PA 6	1	PC					
60007629	CABLE GLAND BMBC01 M16 BRASS	2	PC					
60007638	LOCKNUT BMBL-02 M16 BRASS	2	PC					
60007630	CABLE GLAND BMBC02 M20 BRASS	7	PC					
60007639	LOCKNUT BMBL-03 M20 BRASS	7	PC					
60007631	CABLE GLAND BMBC03 M25 BRASS	4	PC					
60007640	LOCKNUT BMBL-04 M25 BRASS	4	PC					
60007632	CABLE GLAND BMBC04 M32 BRASS	3	PC					
60007641	LOCKNUT BMBL-05 M32 BRASS	3	PC					
60007633	CABLE GLAND BMBC05 M40 BRASS	3	PC					
60007642	LOCKNUT BMBL-06 M40 BRASS	3	PC					
60007635	CABLE GLAND BMBC07 M63 BRASS	1	PC					
60007644	LOCKNUT BMBL-08 M63 BRASS	1	PC					
60098140	Cable -W592 FOR PS/AS 30t (1650)	1	PC	-W592				Trigger cable
60006565	HOUSING C14610G0106008 42P TOP ENTR.P	1	PC	-W592				
60007657	REDUCTION ADAPTER PG21-PG16	1	PC	-W592				
60006476	FRAME f. 3 MOD. C14610S0100608 FEM. 2+PE	1	PC	-W592				
60006496	ADAPTER f.STAMP. C14610B0100008 FEM. 10P	1	PC	-W592				
60006484	MODULE BLIND C146B00001E8 FEMALE	2	PC	-W592				
60007676	CABLE GLAND BSEM-05 PG16 BRASS EMC	1	PC	-W592				
60098349	WIRING F31,F25 +AT2 NM72/82 IEC I/III	1	PC					
60098356	WIRING 0VDC +AT2 NM72/82 IEC I/III	1	PC					
60098359	WIRING 230VAC +AT2 NM72/82 IEC I/III	1	PC					
60098360	WIRING Earth +AT2 NM72/82 IEC I/III	1	PC					
60098361	WIRING T01,T05 +AT2 NM72/82 IEC I/III	1	PC					
60098362	WIRING U02.300 +AT2 NM72/82 IEC I/III	1	PC					
60098364	WIRING U02.600 +AT2 NM72/82 IEC I/III	1	PC					
60098366	WIRING U02.800 +AT2 NM72/82 IEC I/III	1	PC					
60098367	WIRING U02.500 +AT2 NM72/82 IEC I/III	1	PC					
60098368	WIRING X03 +AT2 NM72/82 IEC I/III	1	PC					
60098369	WIRING X04 +AT2 NM72/82 IEC I/III	1	PC					
60098370	WIRING X05 +AT2 NM72/82 IEC I/III	1	PC					
60098371	WIRING X08 +AT2 NM72/82 IEC I/III	1	PC					
60098372	WIRING X07 +AT2 NM72/82 IEC I/III	1	PC					
60098373	WIRING 24VDC3 +AT2 NM72/82 IEC I/III	1	PC					
60098374	WIRING 690VAC +AT2 NM72/82 IEC I/III	1	PC					
60098375	WIRING X01 +AT2 NM72/82 IEC I/III	1	PC					
60098376	WIRING X02 +AT2 NM72/82 IEC I/III	1	PC					
60012624	WIRING YAW MOTOR +AT2 NM64-82/1500	1	PC					
60098050	PACKING BOX f. PS/AS 30T (1650) IEC	1	PC					
60007829	TINNED CU WIRE 1x16mm ² 150mm Ø8 IEC/UL	1	PC					
60007420	WIRE HOSE BLACK 20mm	0,410	M					
60007421	WIRE HOSE BLACK 25mm	0,410	M					

Change Info

Item no. **Item text:**
None Arctic Comp. for Control Panel +AT2 Passive Stall/Active Stall 30T 50Hz

Active revision for production

Drawing number: xxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: 21000076

Version	Date	Init./App.	Description of change since last revision
01	02.10.2003	CHO/CHO	First version

Old revisions for service

Drawing number: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

Material BOM number: 60097145

Description of change since last revision
First version

Material BOM number: xxxxxxxx

Description of change since last revision
Write the change

11/3/2003 8:30 AM
LST: 21000076
Version: 01

1 / 1

Material	60097145				
Description	ARCTIC COMPONENTS for +AT2 30t AS/PS				
Obj	Object description	Quantity	Un	SortStrng	Item text
60004745	CIRCUIT BREAKER 3RV1121-0KA10 0.9-1.25A	2	PC	F16/F18	
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	2	PC	F16/F18	
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	2	PC	Q16/Q18	
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	2	PC	Q16/Q18	
60004717	CIRCUIT BREAKER 3RV1421-4BA10 14.0-20.0A	2	PC	F17/F19	
60004797	LINK MODULE 3RA1921-1AA00 S0-S0	2	PC	F17/F19	
60004407	CONTACTOR 3RT1026-1AP00 230V 50Hz	2	PC	Q17/Q19	
60004451	RC UNIT 3RT1926-1CD00 127-240VAC	2	PC	Q17/Q19	
60004663	CIRCUIT BREAKER 3RV1021-1FA10 3.5-5.0A	1	PC	F20	
60004796	LINK MODULE 3RA1921-1DA00 S00-S0	1	PC	F20	
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	Q20	
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	Q20	
60004712	CIRCUIT BREAKER 3RV1421-1GA10 4.5-6.3A	1	PC	F25	
60005001	THERMISTOR RELAY 3RN10131BWO1 2CO 24V	2	PC	F45/F46	

Change Info

Item no. **Item text:**
None Kit for Service Lift Active Stall 30T

Active revision for production

Drawing number: xxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: 21000077

Version	Date	Init./App.	Description of change since last revision
01	04.10.2003	CHO/CHO	First version

Material BOM number: 60097149

Description of change since last revision
First version

Old revisions for service

Drawing number: xxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

Material BOM number: xxxxxxxx

Description of change since last revision
Write the change

11/4/2003 3:55 PM

1/1

LST: 21000077

Version: 01

Material 60097149

Description KIT f. Service Lift AS 30t

Obj	Object description	Quantity	Un SortStrng	Item text
------------	---------------------------	-----------------	---------------------	------------------

60005764	RCCB F504C-16/0.03 4-POLED 16A 440VAC	1	PC	
60005092	FUSE NH00 3NA3805-6 gL/gG 16A 690V	3	PC	

Change Info

Item no. 60019676 **Item text:** Kit for Modem 600mm Panel

Active revision for production

Drawing number: None

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

LST number: 21000012

Version	Date	Init./App.	Description of change since last revision
02	30.10.2003	INI / FLT	Description text changed.

BOM number: 60017352

			Description of change since last revision
			Description text changed.

Old revisions for service

Drawing number: None

Version	Date	Init./App.	Description of change since last revision
xx	yymmdd	xxx	Write the change

LST number: 21000012

Version	Date	Init./App.	Description of change since last revision
01	26.08.2002	FLT/FLT	First version in SAP no. system

BOM number: 60017352

			Description of change since last revision
			First version in SAP no. system

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 00020861

10/30/2003 1:20 PM

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LST: 2100012

Version: 02

Material	60017352			
Description	KIT for MODEM, 600mm PANEL			
Obj	Object description	Quantity	Un Sort	Strng Item text
60013684	PLATE ALU for MODEM NM92/2750	1	PC	
60010553	PUNCHED RAIL 8612.260 600x38x18mm	2	PC	
60009939	SPACER IN/OUT Ø10mm 6x10mm BRASS/NICKEL	4	PC	
60009793	WASHER ISO 7092 6 - FZB	4	PC	
60015719	MODEM EXTERNAL LASAT 56kB VOICE DK	1	PC	
60013682	BRACKET w. FOAM BAND for EXT.LASAT MODEM	1	PC	
60009627	SCREW ISO 4017 M 6 x 20 - 8.8 - FZB	2	PC	
60009795	SPRING WASHER DIN 6796 6.4 - FZB	2	PC	
60015738	TRANSIENT PROTECTION TELEPHONE w. CONN.	1	PC	
60009933	SPACER IN/OUT Ø5.5mm 3x15mm BRASS/NICKEL	4	PC	
60009837	LOCK WASHER DIN 6798 3 - 350-425HV - FZB	4	PC	
60009578	SCREW ISO 7045 M 3 x 8 FZB H	4	PC	
60014787	TELEPHONE CABLE RJ11/RJ11 2m	1	PC	
60011417	BASE BOX 503D5610 FUGA 1m GREY	1	PC	
60011419	TELEPHONE OUTLET MD82B 3/6- POLED	1	PC	
60011418	FRAME 500D5810 FUGA 50 1m GREY	1	PC	
60009580	SCREW ISO 7045 M 4 x 10 FZB H	2	PC	

Change Info

Item no. 60092032 **Item text:** Kit for CSL110, 600mm Panel

Active revision for production

Drawing number: xxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy		Writhe the change

LST number: 21000020

Revision	Date	Init./App.	SAP part list number:
02	17.09.2003	ABJ /	60092032

SAP part list number: 60092032

Description of change since last revision
Punched rail & fiber plug added.

Old revisions for service

Drawing number: xxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	yymmdd	xxx	Write the change

LST number: 21000020

Revision	Valid from	Init./App.	SAP part list number:
01	20.06.2003	ABJ /	60092032

SAP part list number: 60092032

Description of change since last revision
First version

10/30/2003 1:56 PM

1/1

LST: 21000020

Version: 02

Material 60092032

Description KIT for CSL110, 600mm PANEL

Obj	Object description	Quantity	Un Sort	Strng Item	text
60092988	FIBRE PLATE PAINTED F. CSL/ROX	1		PC	
60013679	FIBRE PLATE COVER f.SWING FRAME CSL MOD.	1		PC	
60013681	BRACKET for TWO SC/SC DUPLEX COUPLERS	1		PC	
60009944	SPACER IN/OUT Ø10mm 6x20mm BRASS/NICKEL	4		PC	
60009946	SPACER IN/OUT Ø10mm 6x40mm BRASS/NICKEL	4		PC	
60009793	WASHER ISO 7092 6 - FZB	8		PC	
60007482	CABLE RACK TK 10-14	6		PC	
60009580	SCREW ISO 7045 M 4 x 10 FZB H	6		PC	
60007476	FLAT CABLE CLIP BN31334 w. ADHESIVE FOOT	18		PC	
60009747	SCREW ISO 7050 M 2.9 x 9.5 - FZB	18		PC	
60002649	THERMO."CAUTION! Fibre optic cable..."	1		PC	
60009609	SCREW ISO 7045 M 6 x 10 4.8 FZB Z	4		PC	
60096978	PUNCHED RAIL 8612.260 600x38x18mm	2		PC	
60015721	CSL-110 FIBRE MODULE 2*MULTIMODE	1		PC	
60012766	DIN RAIL with HOLES 180x7x35mm	1		PC	
60009751	SCREW HFC 208 M 4.8 x 9.5 - FZB	2		PC	
60014784	RS232 CABLE EXTENSION 9-9-POLED 3m	1		PC	
60009578	SCREW ISO 7045 M 3 x 8 FZB H	3		PC	
60009580	SCREW ISO 7045 M 4 x 10 FZB H	6		PC	
60008795	FIBRE PLUG SC COUPLER DUP AMP 502776-9	1		PC	

Change Info

Item no. 60097570 **Item text:** PFC Panel +AT3 No Load, NM72-NM82/1650 690V 50 Hz

Active revision for production

Drawing number: 6011999

Version	Date	Init./App.	Description of change since last revision
01	15.09.2003	CHO/CHO	First version

LST number: 21000078

Version	Date	Init./App.	Material BOM number: 60096112
02	06.11.2003	CHO/CHO	Description of change since last revision +AT3 label and separation plate added.

LST number: 21000080

Version	Date	Init./App.	Material BOM number: 60016660
02	02.10.2003	CHO/CHO	Description of change since last revision Capacitor contact added.

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: 21000078

Version	Date	Init./App.	Material BOM number: 60096112
01	30.09.2003	CHO/CHO	Description of change since last revision First version

LST number: 21000080

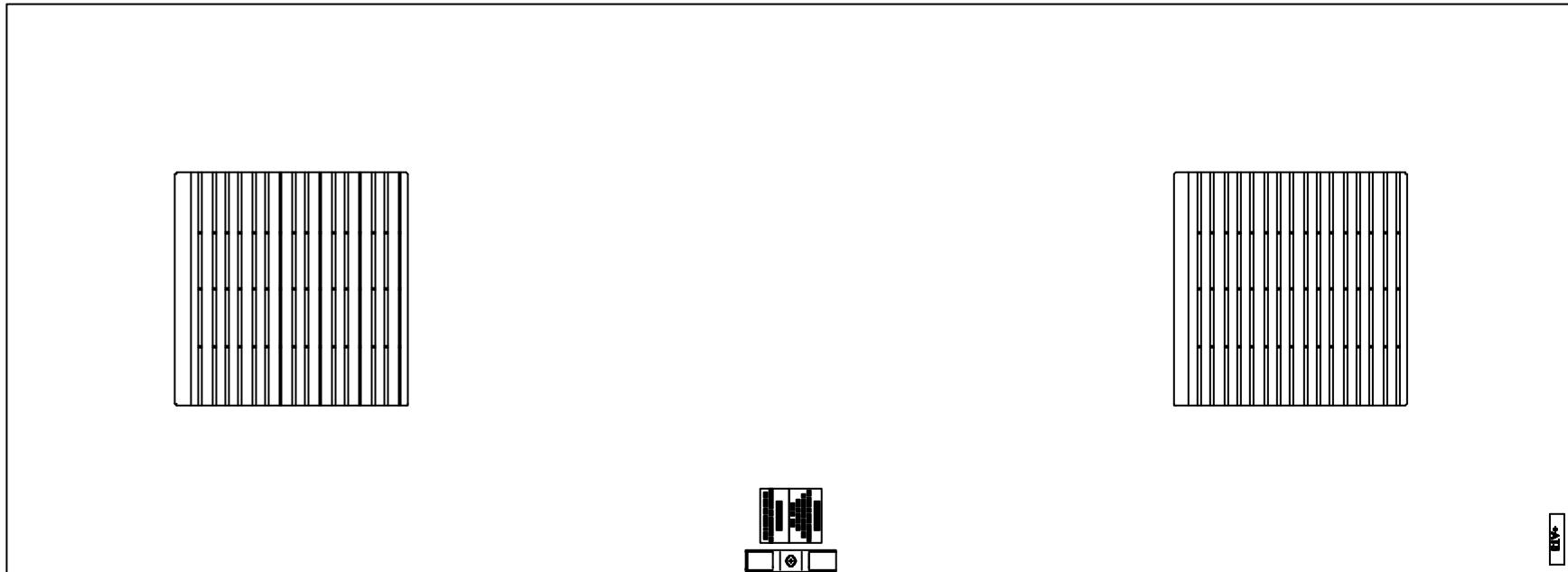
Version	Date	Init./App.	Material BOM number: 60016660
01	13.05.2002	CHO/CHO	Description of change since last revision First version in SAP no. system.



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	Date	Initials	Function	Table of Contents						
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	030915	CHO	Rev.	01	Drawing no.	6011999	Cont. sheet	030	Sheet	001

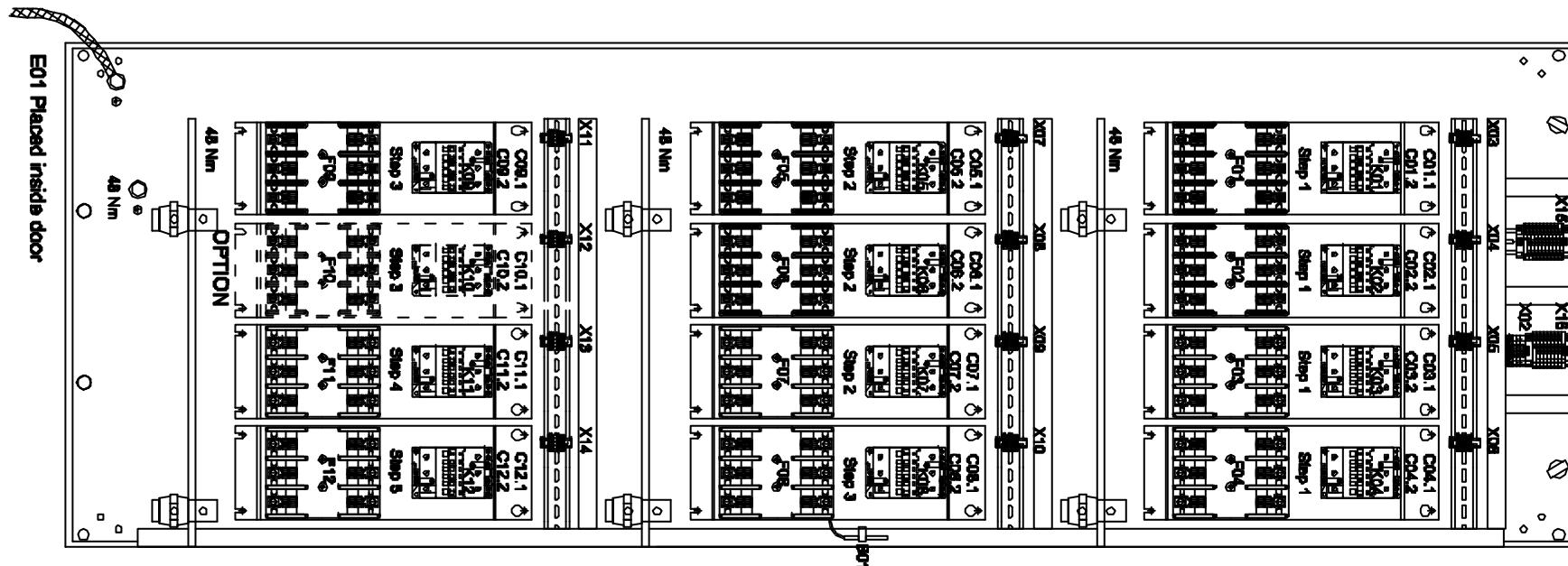
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Panel Dimension: 800 x 2200 x 600 mm (WxHxD)

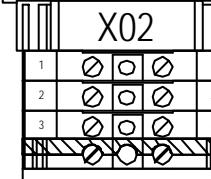
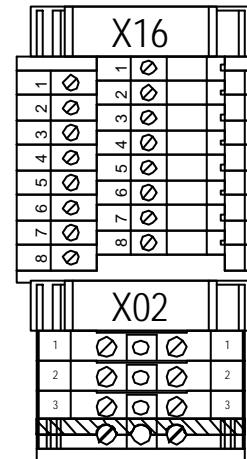
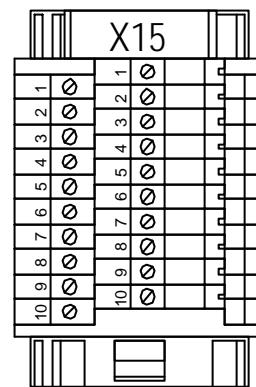
Panel Weight: 285 kg.

	Date	Initials	Function	Panel Front		
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz		
Approved			Comments		Customer	NEG Micon A/S
Revised	030915	CHO	Rev. -	Drawing no. 6011999	Cont. sheet 031	Sheet 030

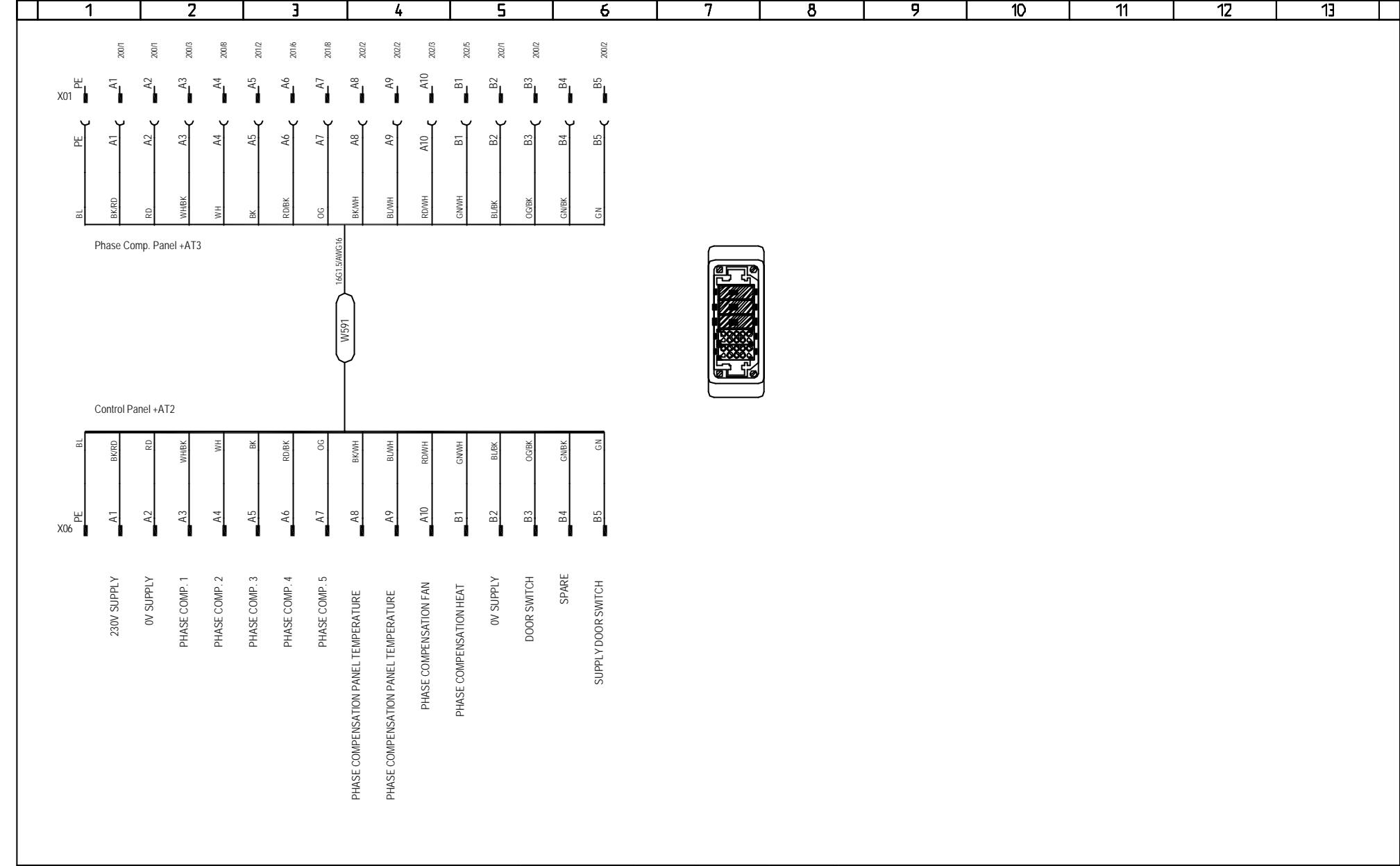


	Date	Initials	Function	Panel Outline						
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Reviced	030915	CHO	Rev.	-	Drawing no.	6011999	Cont. sheet	032	Sheet	031

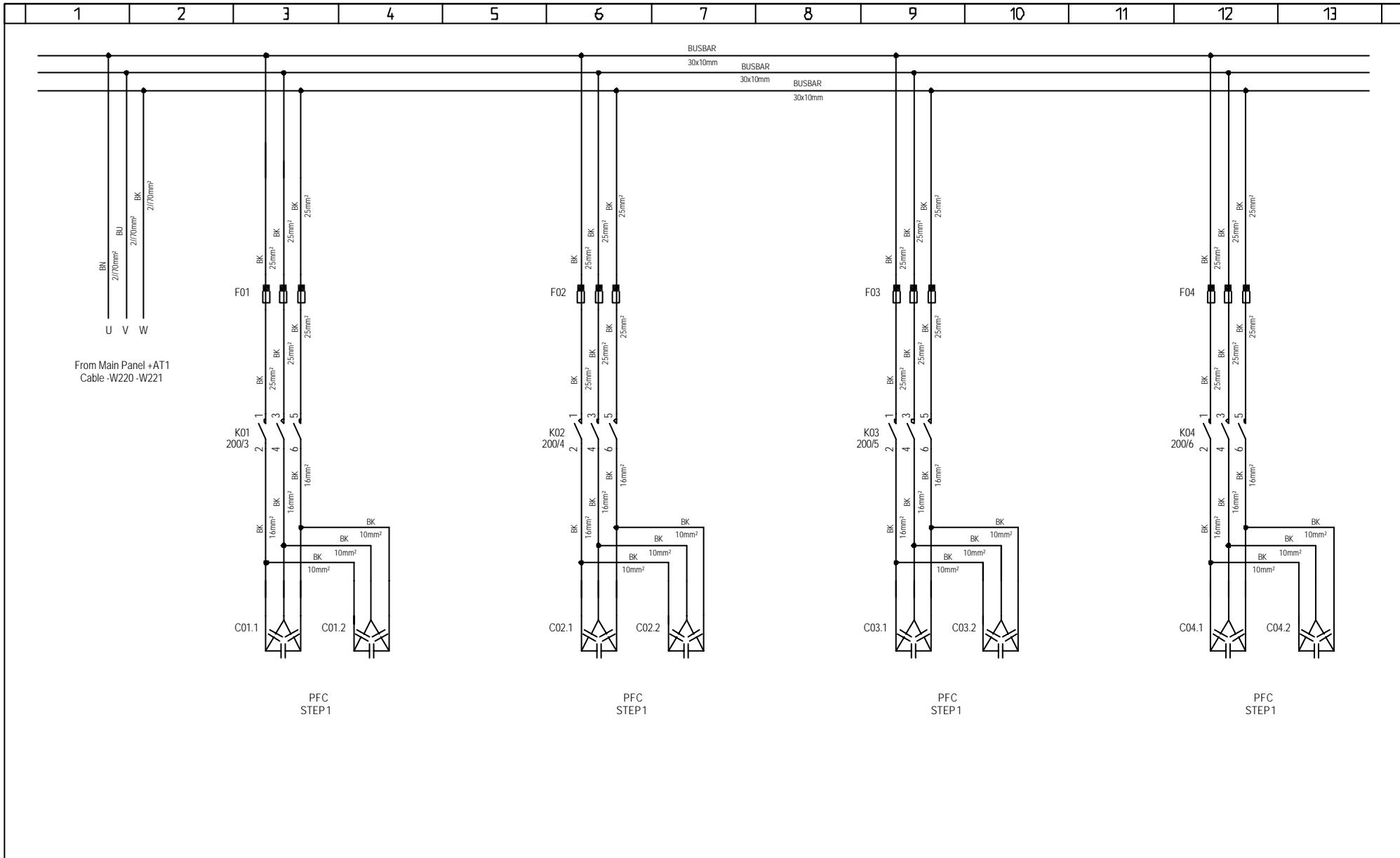
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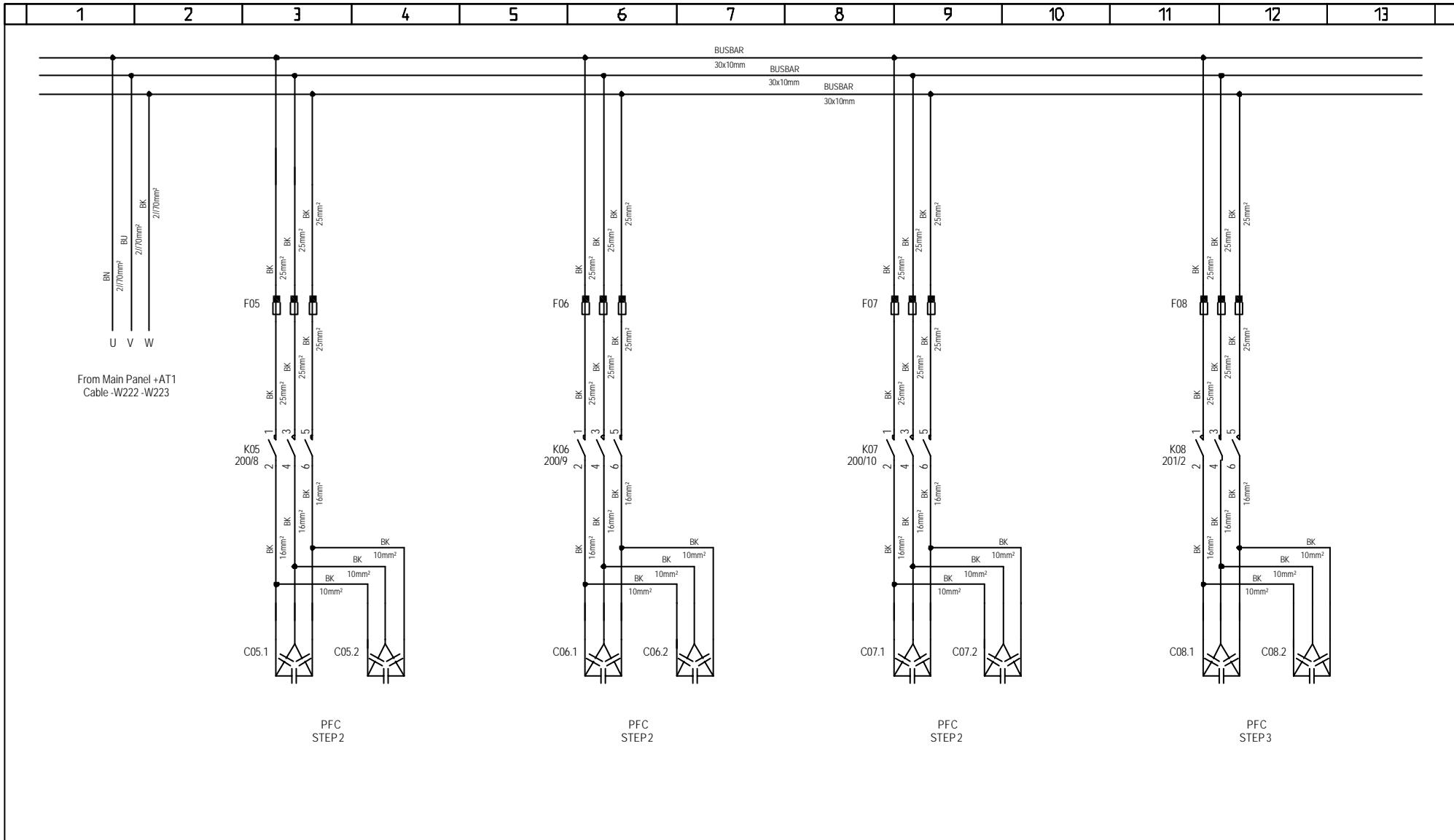
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Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz		
Approved			Comments		Customer	NEG Micon A/S
Revised	030915	CHO	Rev. -	Drawing no. 6011999	Cont. sheet 040	Sheet 032



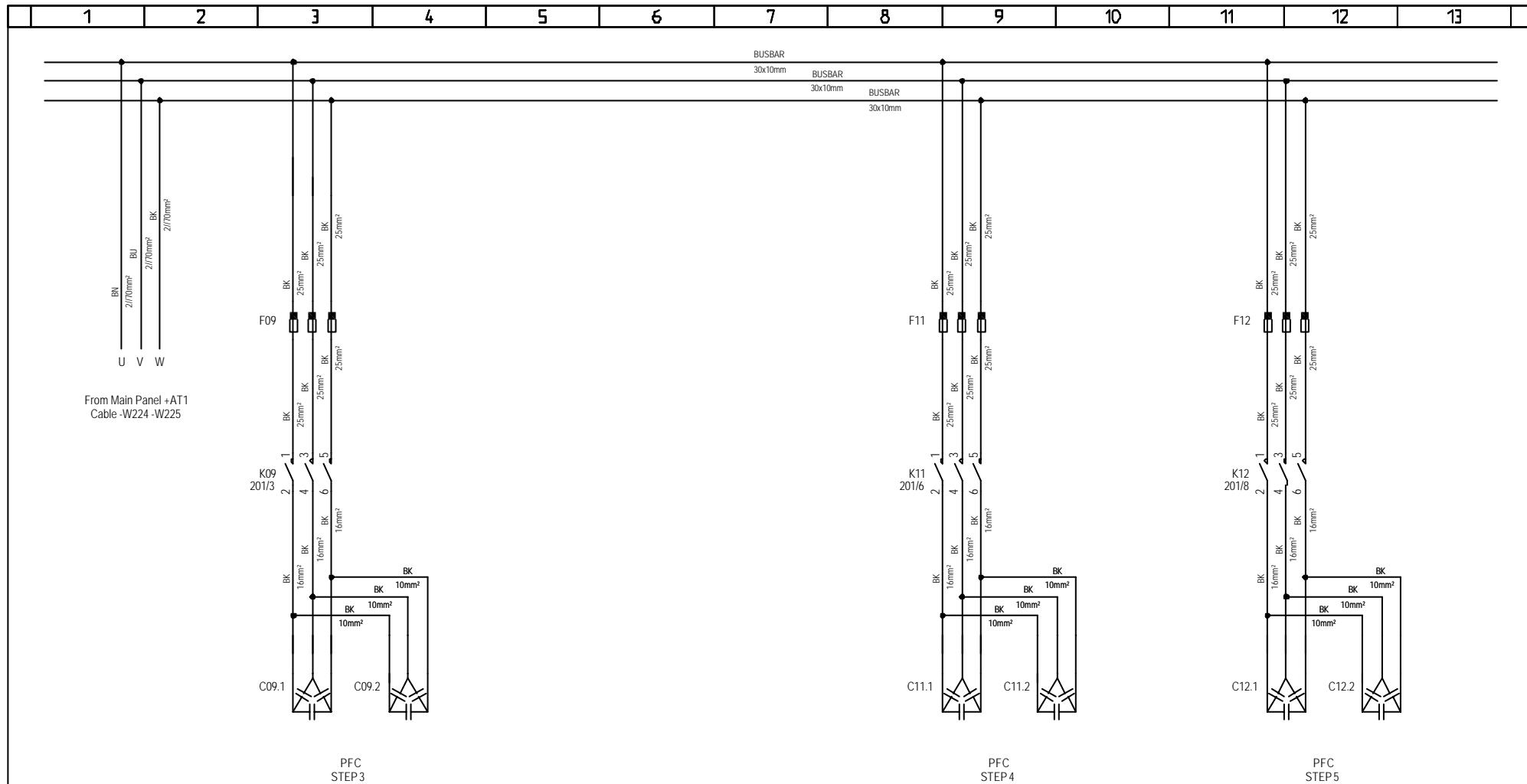
	Date	Initials	Function	Terminal X01		
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz		
Approved			Comments			
Revised	030915	CHO	Rev.	-	Drawing no.	6011999
			Cont. sheet	100	Sheet	040



	Date	Initials	Function	Main Circuits Step 1
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	030915	CHO	Rev. -	Drawing no. 6011999 Cont. sheet 101 Sheet 100

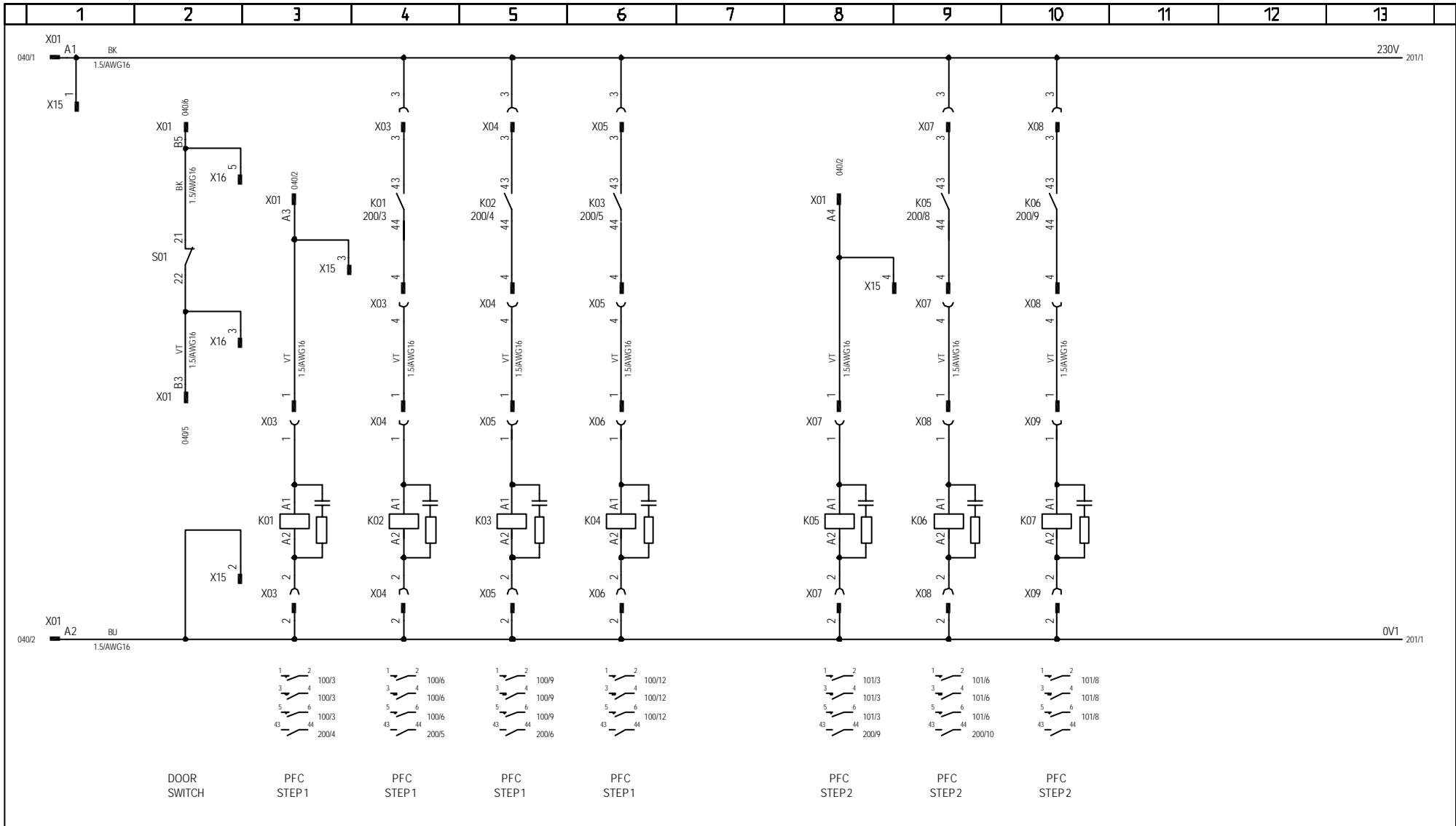


	Date	Initials	Function	Main Circuits Step 2
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	030915	CHO	Rev. -	Drawing no. 6011999 Cont. sheet 102 Sheet 101



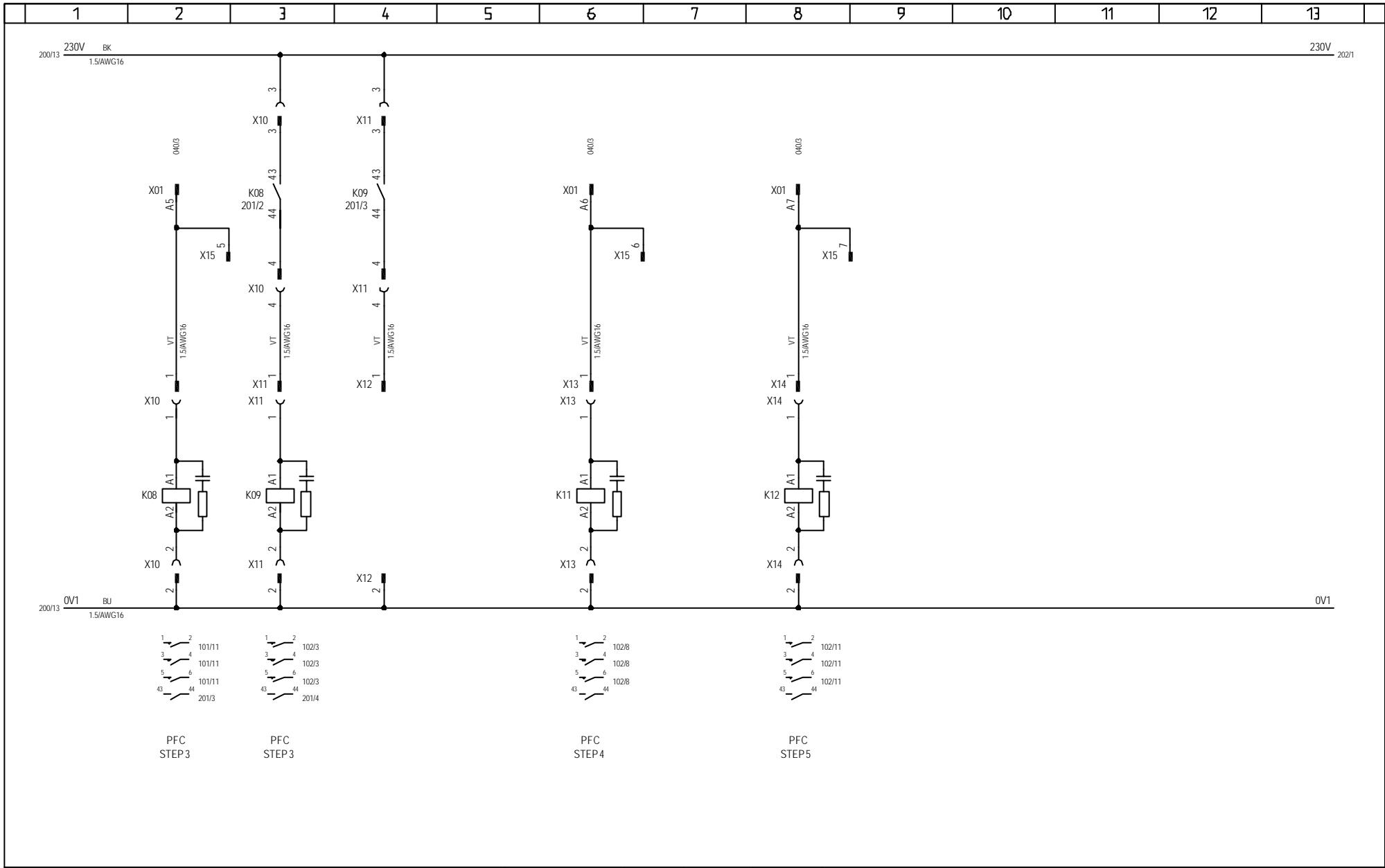
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	Date	Initials	Function	Main Circuits Step 3 - 5						
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	030915	CHO	Rev.	-	Drawing no.	6011999	Cont. sheet	200	Sheet	102

30.10.03
10:09

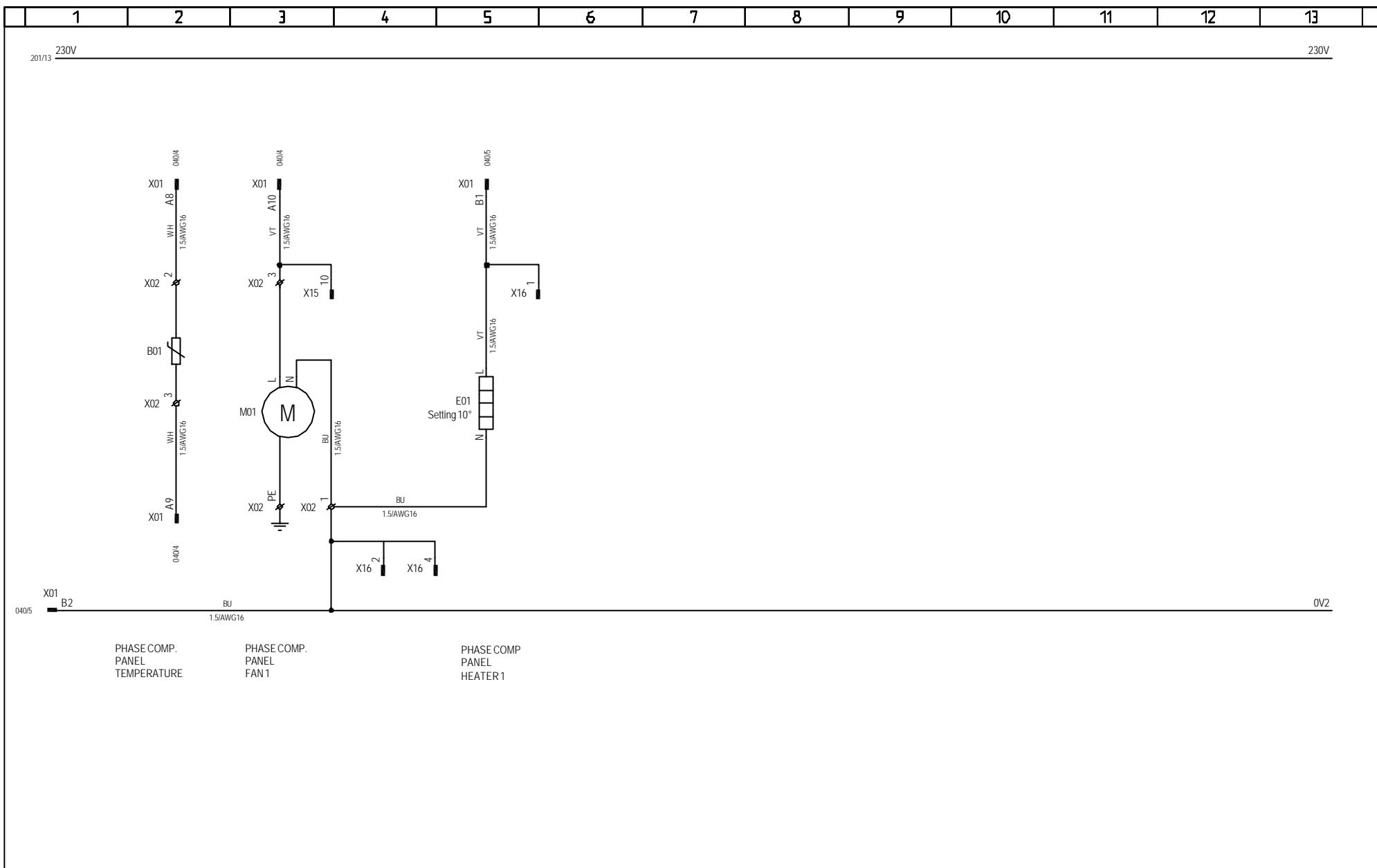
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	Date	Initials	Function	Relays		
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz		
Approved			Comments		Customer	NEG Micon A/S
Revised	030915	CHO	Rev.	-	Drawing no.	6011999
			Cont. sheet	201	Sheet	200

30.10.03
10:09

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	Date	Initials	Function	Relays		
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz		
Approved			Comments		Customer	NEG Micon A/S
Revised	030915	CHO	Rev.	-	Drawing no.	6011999
			Cont. sheet	202	Sheet	201



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	Date	Initials	Function Ventilation / Heating							
Designed	030915	CHO	Project title	PFC Panel +AT3 No Load, NM72-82/1650 690V 50Hz						
Approved			Comments			Customer	NEG Micon A/S			
Revised	030915	CHO	Rev.	-	Drawing no.	6011999	Cont. sheet	-	Sheet	202

12/1/2003 12:20 PM
LST: 21000078
Version: 02

1/1

Material	60096112	Quantity	Un	SortStrng	Item	text
Description	PFC PANEL +AT3 NM72/82 IECI/III NL 50 Hz					
Obj	Object description					
60096260	CABINET TS8 800x2200x600mm 1 DOOR w.WORK	1	PC			
60010593	MOUNTING PLATE TS8 699x2096mm w. WORK	1	PC			
60010560	ATTACHMENT f.MOUNTING PLATE TS 8800.050	4	PC			
60010316	BASE PLATE CLAMP for MOUNTING PLATE TS8	1	PC			
60013925	PFC MODULE 50kvar 690V	11	PC			
60007330	ISOLATOR 15850201 8x40 for BUSBAR	12	PC			
60013713	FITTINGS for BUSBAR HOLDER	6	PC			
60007437	BRAIDED SLEEVE BLACK 10-17mm	1,650	M	M01		
60014655	FAN 1-PHASE 230V 500m³/h 64W 323x323x125	1	PC	M01		
60014668	EXHAUST FILT. 3326.200 f.500-700m³/h FAN	1	PC			
60014678	SEALING FRAME IP54 for 500-700m³/h FAN	2	PC			
60007182	DIN RAIL PP0735H 7x35mm	2	M			
60007354	CABLE CONDUIT 21154 25x40mm	4,500	M			
60001870	UMSTBVK 2.5/4-G-5.08 FEM/MALE f.DIN RAI	12	PC			
60006036	TERMINAL UKK3-MSTB-5.08-2	18	PC			
60006038	SPACER PLATE DG-UKK3-MSTB-5.08 RIGHT	2	PC			
60006040	SEPARATION PLATE D-UKK3-MSTB-5.08 LEFT	2	PC			
60006039	SPACER PLATE DP-UKK3-MSTB-5.08 LEFT	2	PC			
60006042	SIGN for TERMINAL ZB-5LGS 1-10	2	PC			
60007437	BRAIDED SLEEVE BLACK 10-17mm	0,770	M	S01		
60010456	DOOR-OPERATED SWITCH PS4127.000	1	PC	S01		
60007829	TINNED CU WIRE 1x16mm² 150mm Ø8 IEC/UL	1	PC			
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B01		
60007481	CABLE RACK TK 5-7	1	PC			
60097576	TYPE SIGN +AT3 NM72/82 IECI/III NL 50 Hz	1	PC			NM72C/NM82
60002667	THERMO."CAUTION! Risk of elec..F01..Q21"	1	PC			
60002621	THERMO."CAUTION! Ensure that capacitors"	1	PC			
60002576	THERMOLABEL "Phase comp. +AT3"	1	PC			
60002430	THERMOLABEL "48 Nm"	4	PC			
60007437	BRAIDED SLEEVE BLACK 10-17mm	2,050	M	E01		
60014729	HEATER FAN CR0 27 230V 350W UL	1	PC	E01		
60006571	HOUSING C14610F0160001 32P BULKHEAD	1	PC			
60007635	CABLE GLAND BMBC07 M63 BRASS	6	PC			
60007644	LOCKNUT BMBL-08 M63 BRASS	6	PC			
60097485	CU Busbar PFC NM72/82 IEC I/III	9	PC			
60007633	CABLE GLAND BMBC05 M40 BRASS	1	PC			
60007642	LOCKNUT BMBL-06 M40 BRASS	1	PC			
60002503	THERMOLABEL "-X01"	1	PC			
60005983	TERMINAL STANDARD M4/6 115116.07	3	PC			
60005984	TERMINAL GROUND M4/6P	1	PC			
60005998	END SECTION FEM6 GREY 118368.16	1	PC			
60014138	MARKER CARD RC610 Nos 1-10	2,000	SH			
60014148	MARKER CARD RC610 GROUND	2,000	SH			
60091902	END STOP WAGO 249-116 6mm TS35	4	PC			
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	3	PC			
60006621	TERMINAL LABEL 1-10 5.08 mm	1	PC			
60006819	STICKER "JORD" 14mm	3,000	SH			
60007194	DIN RAIL PP0153HZ 15x35mm	0,700	M			
60006812	STICKER "U" 14mm	3,000	SH			
60006813	STICKER "V" 14mm	3,000	SH			
60006814	STICKER "W" 14mm	3,000	SH			
60002320	STICKER GENERAL USE NEGM CONTROL SYSTEMS	1	PC			
60007420	WIRE HOSE BLACK 20mm	0,280	M	X01		
60097503	WIRING PFC NL NM72/82 IEC I/III	1	PC			
60098494	LASER LABEL +AT3 NL NM72 IEC I & NM82	1	PC			

11/21/2003 11:32 AM

1 / 1

LST: 2100080

Version: 02

Material 60016660
Description PFC MODULE 50kvar 690V

Obj	Object description	Quantity	Un SortStrng	Item	text
60013647	BRACKET for CAPACITOR 2x25kvar	1		PC	
60000931	CAPACITOR 25kvar 690V 50Hz VISHAY	2		PC	
60096832	CAPACITOR CONTAC. K3-50K10 230 w RC-UNIT	1		PC	
60005074	FUSE SWITCH NH00 3NP40700 3-P. 160A 690V	1		PC	
60005100	FUSE NH00 3NA3830-6 gL/gG 100A 690V	3		PC	
60009974	TOP CLAMP for CAPACITOR 25kvar	2		PC	
60007471	CABLE TIE with PLUG 584-095 5x150mm	2		PC	
60012598	WIRING IEC POWER FACTOR CORR. MODULE	1		PC	
60012530	WIRING BRIDGE POW.FACT.CORR. MODULE UL	1		PC	
60002597	THERMOLABEL "Phase compensation"2*25kvar	1		PC	

Change Info

<i>Item no.</i>	<i>Item text:</i>
60097568	PFC Panel +AT3 Full Load, NM72-NM82/1650 690V 50 Hz

Active revision for production

Drawing number: 6012008

Version	Date	Init./App.	Description of change since last revision
01	21.09.2003	CHO/CHO	First version

LST number: 21000079

Version	Date	Init./App.	Material BOM number: 60097541
02	12.11.2003	CHO/CHO	Description of change since last revision Type sign label, +AT3 label and CU-busbar added.

LST number: 21000080

Version	Date	Init./App.	Material BOM number: 60016660
02	02.10.2003	CHO/CHO	Description of change since last revision Capacitor contact changed.

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: 21000079

Version	Date	Init./App.	Material BOM number: 60097541
01	01.10.2003	CHO/CHO	Description of change since last revision First version

LST number: 21000080

Version	Date	Init./App.	Material BOM number: 60016660
01	16.05.2002	CHO/CHO	Description of change since last revision First version in SAP no. system.

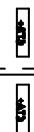
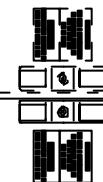
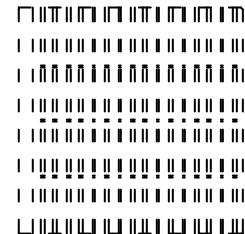
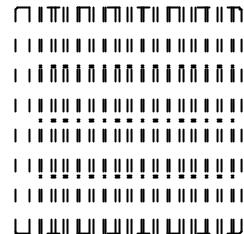


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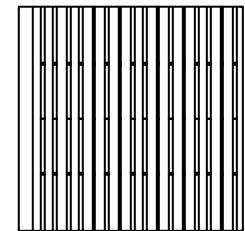
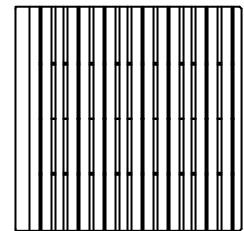
	Date	Initials	Function	Table of Contents						
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	030921	CHO	Rev.	01	Drawing no.	6012008	Cont. sheet	030	Sheet	001

1	2	3	4	5	6	7	8	9	10	11	12	13
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No Load

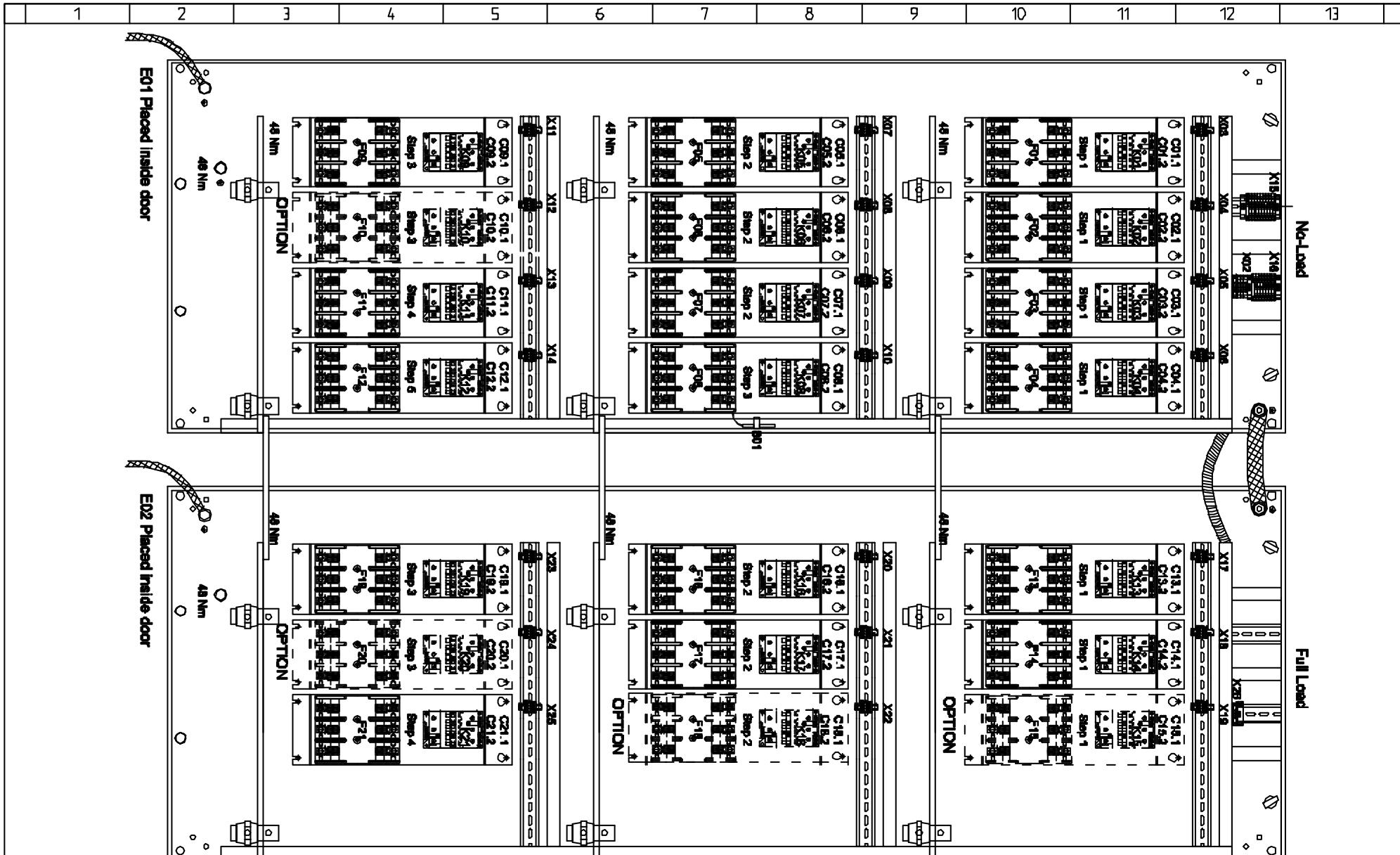


Full Load



Panel Dimension: 1600 x 2200 x 600 mm (WxHxD)
Panel Weight: 513 kg.

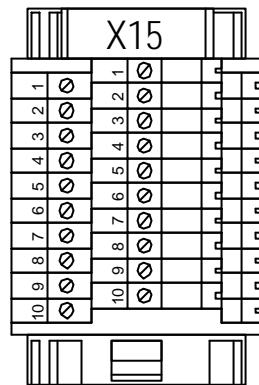
	Date	Initials	Function	Panel Front				
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz				
Approved			Comments				Customer	NEG Micon A/S
Revised	030921	CHO	Rev.	-	Drawing no.	6012008	Cont. sheet	031
							Sheet	030



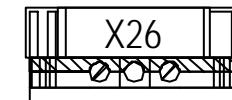
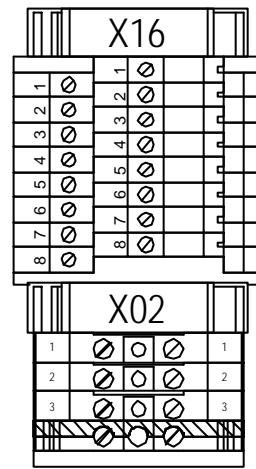
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	Date	Initials	Function	Panel Outline						
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	030921	CHO	Rev.	-	Drawing no.	6012008	Cont. sheet	032	Sheet	031

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Terminal Rows X15, X16 and X02 are placed in No Load Panel



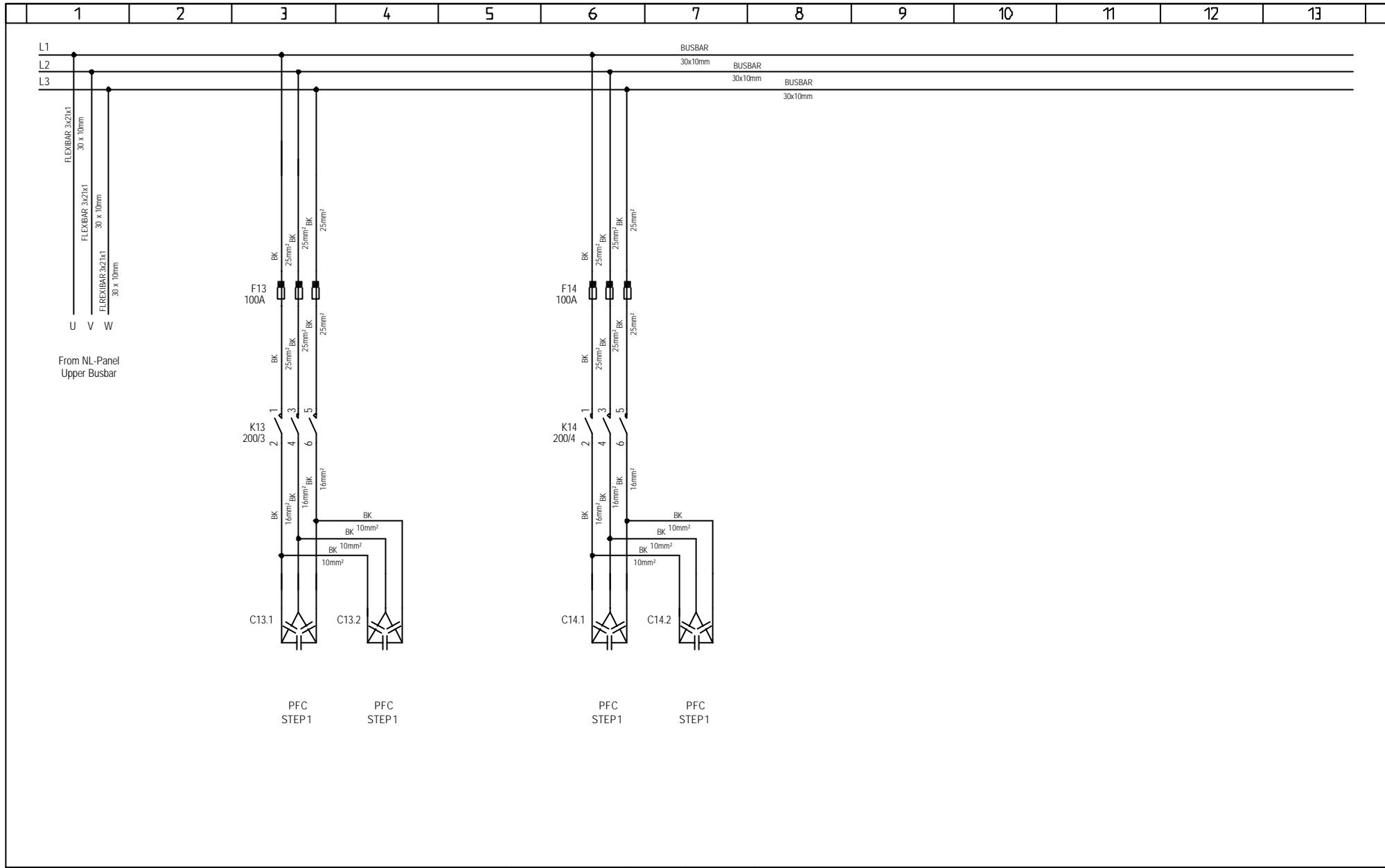
Terminal Row X26 is placed in Full Load Panel

	Date	Initials	Function	Terminal Rows		
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz		
Approved			Comments			
Revised	030921	CHO	Rev. -	Drawing no.	6012008	Cont. sheet 040 Sheet 032

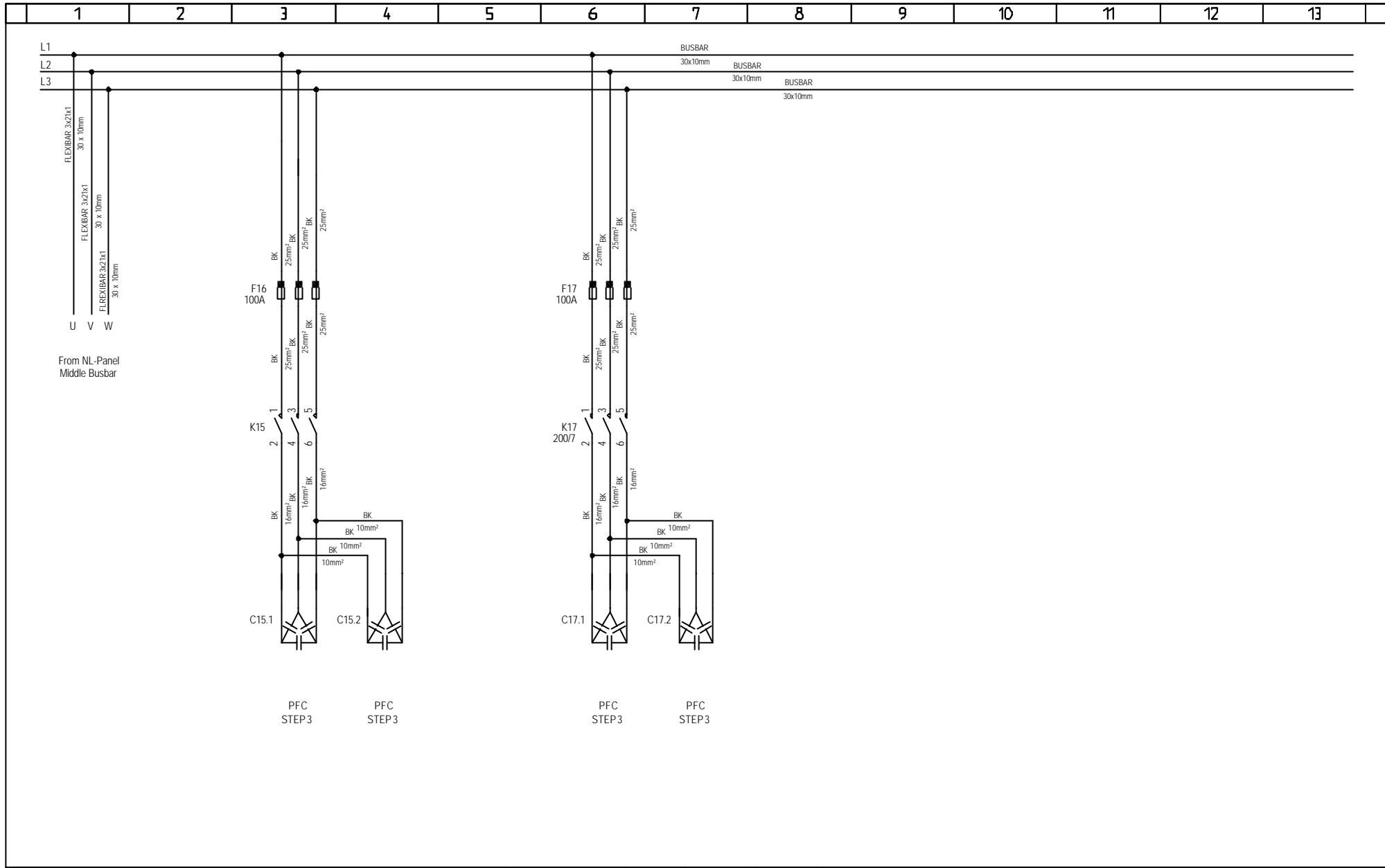
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PFC Panel +AT3 NO LOAD

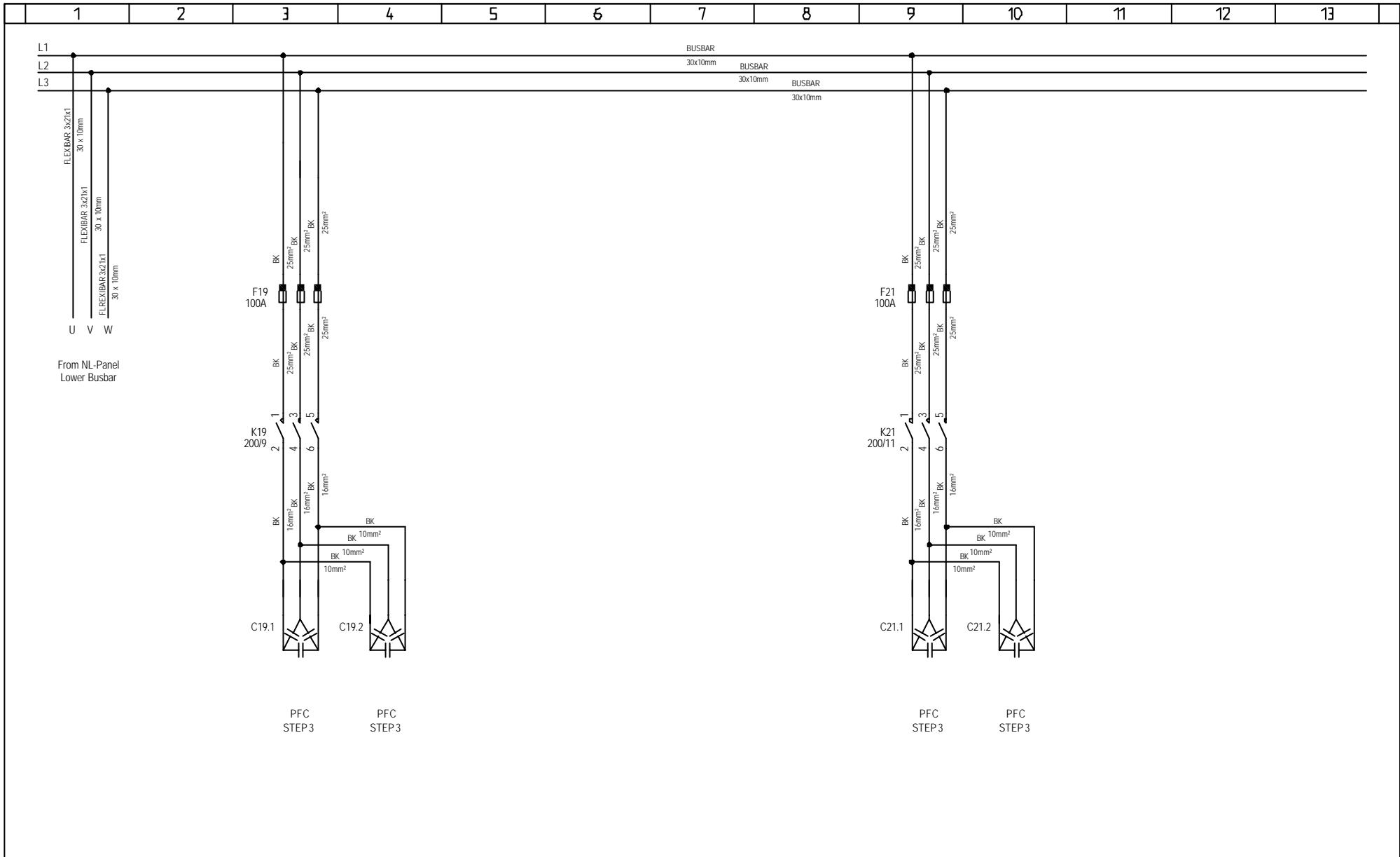
X15	1	2	3	4	5	6	7	8	9	10	11	12	13	
230V SUPPLY	X15	1	2	3	4	5	6	7	8	9	10	11	12	13
0V SUPPLY		2	3	4	5	6	7	8	9	10	11	12	13	
PFC STEP1		3	4	5	6	7	8	9	10	11	12	13	14	
PFC STEP2		4	5	6	7	8	9	10	11	12	13	14	15	
PFC STEP3		5	6	7	8	9	10	11	12	13	14	15	16	
PFC STEP4		6	7	8	9	10	11	12	13	14	15	16	17	
PFC STEP5		7	8	9	10	11	12	13	14	15	16	17	18	
PFC PANEL TEMPERATURE		8	9	10	11	12	13	14	15	16	17	18	19	
PFC PANEL TEMPERATURE		9	10	11	12	13	14	15	16	17	18	19	20	
PFC PANEL FAN		10	11	12	13	14	15	16	17	18	19	20	21	
PFC PANEL HEAT		11	12	13	14	15	16	17	18	19	20	21	22	
0V SUPPLY FAN/HEAT		12	13	14	15	16	17	18	19	20	21	22	23	
DOOR SWITCH		13	14	15	16	17	18	19	20	21	22	23	24	
SUPPLY DOOR SWITCH		14	15	16	17	18	19	20	21	22	23	24	25	



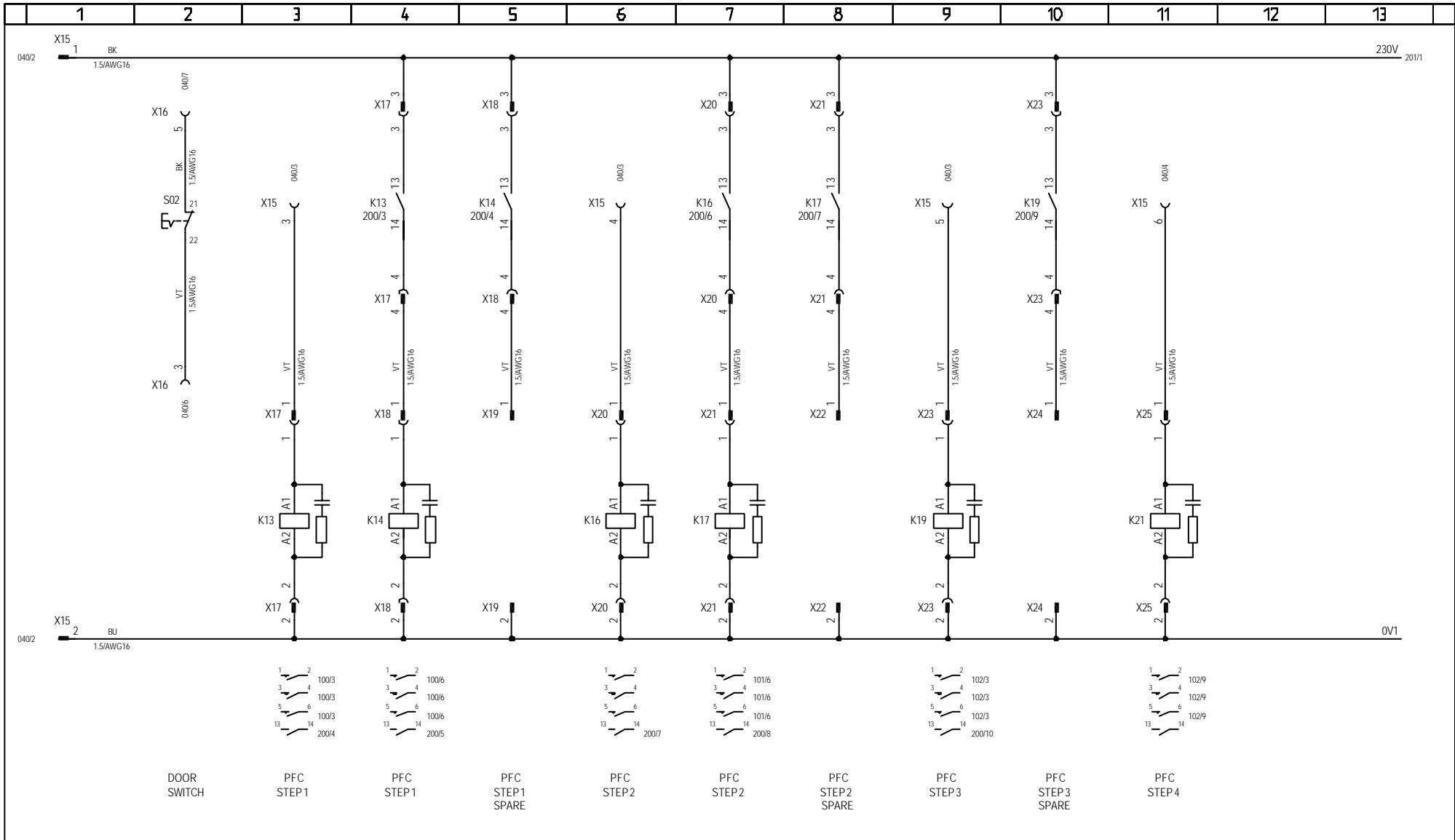
	Date	Initials	Function	Main Circuits step 1-2
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	030921	CHO	Rev. -	Drawing no. 6012008 Cont. sheet 101 Sheet 100



	Date	Initials	Function	Main Circuits step 3-5
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	030921	CHO	Rev. -	Drawing no. 6012008 Cont. sheet 102 Sheet 101



	Date	Initials	Function	Main Circuits step 3-4			
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz			
Approved			Comments		Customer	NEG Micon A/S	
Revised	030921	CHO	Rev.	-	Drawing no.	6012008	Cont. sheet 200 Sheet 102



0856 30.10.03



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	Date	Initials	Function	Control Circuits		
Designed	030921	CHO	Project title	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz		
Approved			Comments		Customer	NEG Micon A/S
Revised	030921	CHO	Rev.	-	Drawing no.	6012008
			Cont. sheet	201	Sheet	200

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200/13 230V 230V

The diagram illustrates the electrical connections for a motor and a heater. Power enters from terminal 13 (230V) and splits into two paths. The top path goes through terminal 7 (VT), a 15AWG16 wire, terminal 10 (X15), a 040/5 relay, terminal 1 (X16), a 15AWG16 wire, terminal 2 (X16), a 15AWG16 wire, terminal 040/6, and terminal M02, which connects to a motor (M). The bottom path goes through terminal 4 (X16), a 15AWG16 wire, terminal 040/7, a 15AWG16 wire, terminal E02 (SETTING 10°C), a 15AWG16 wire, terminal 1 (X16), a 040/6 relay, terminal 16 (X16), a 15AWG16 wire, terminal VT, and terminal 1 (X15). A ground connection (PE) is shown at terminal X03.

PFC
PANEL
FAN2

PFC
PANEL
HEATER2



30-10-03

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<i>Designed</i>	030921	CHO	<i>Project title</i>	PFC Panel +AT3 Full Load, NM72-82/1650 690V 50Hz						
<i>Approved</i>			<i>Comments</i>			<i>Customer</i>	NEG Micon A/S			
<i>Revised</i>	030921	CHO	<i>Rev.</i>	-	<i>Drawing no.</i>	6012008	<i>Cont. sheet</i>	-	<i>Sheet</i>	201

12/1/2003 12:00 PM
LST: 21000079
Version: 02

1/1

Material 60097541

Description PFC PANEL FL ADD ON NM72/82 50 Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text
60096430	CABINET TS8 800x2200x600mm 1 DOOR w.WORK	1			PC	
60010560	ATTACHMENT f.MOUNTING PLATE TS 8800.050	4			PC	
60010593	MOUNTING PLATE TS8 699x2096mm w. WORK	1			PC	
60010569	ANGULAR BAYING BRACKET TS 8800.430	4			PC	
60010573	QUICK FIT BAYING CLAMP TS 8800.500	6			PC	
60010474	BAYING BRACKET 4582.500	2			PC	
60010570	COVER for BAYING TS 8800.460 600mm	1			PC	
60010316	BASE PLATE CLAMP for MOUNTING PLATE TS8	1			PC	
60013925	PFC MODULE 50kvar 690V	6			PC	
60007330	ISOLATOR 15850201 8x40 for BUSBAR	12			PC	
60013713	FITTINGS for BUSBAR HOLDER	6			PC	
60007437	BRAIDED SLEEVE BLACK 10-17mm	1,050	M	M02		
60014655	FAN 1-PHASE 230V 500m³/h 64W 323x323x125	1	PC	M02		
60014668	EXHAUST FILT. 3326.200 f.500-700m³/h FAN	1			PC	
60014678	SEALING FRAME IP54 for 500-700m³/h FAN	2			PC	
60007182	DIN RAIL PP0735H 7x35mm	2			M	
60007354	CABLE CONDUIT 21154 25x40mm	4,500			M	
60001870	UMSTBVK 2.5/4-G-5.08 FEM/MALE f.DIN RAI	9			PC	
60007437	BRAIDED SLEEVE BLACK 10-17mm	0,770	M	S02		
60010456	DOOR-OPERATED SWITCH PS4127.000	1	PC	S02		
60007829	TINNED CU WIRE 1x16mm² 150mm Ø8 IEC/UL	1			PC	
60002667	THERMO."CAUTION! Risk of elec..F01..Q21"	1			PC	
60002621	THERMO."CAUTION! Ensure that capacitors"	1			PC	
60002576	THERMOLABEL "Phase comp. +AT3"	1			PC	
60002430	THERMOLABEL "48 Nm"	3			PC	
60007437	BRAIDED SLEEVE BLACK 10-17mm	1,300	M	E02		
60014729	HEATER FAN CR0 27 230V 350W UL	1	PC	E02		
60007838	TINNED CU WIRE 1x50mm² 200mm Ø10 IEC/UL	1			PC	
60097472	FLEXIBAR 3x24x1 PFC NM72/82 IEC I/III	9			PC	
60006621	TERMINAL LABEL 1-10 5.08 mm	1			PC	
60006819	STICKER "JORD" 14mm	3,000			SH	
60005984	TERMINAL GROUND M4/6P	1			PC	
60005998	END SECTION FEM6 GREY 118368.16	1			PC	
60091902	END STOP WAGO 249-116 6mm TS35	1			PC	
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1			PC	
60014148	MARKER CARD RC610 GROUND	1,000			SH	
60007194	DIN RAIL PP0153HZ 15x35mm	0,700			M	
60007420	WIRE HOSE BLACK 20mm	0,280	M	X15-X16		
60097504	WIRING PFC FL NM72/82 IEC I/III	1			PC	
60097577	TYPE SIGN +AT3 NM72/82 IECI/III FL 50 Hz	1			PC	
60098493	LASER LABEL +AT3 FL NM72 IEC I & NM82	1			PC	
60097485	CU Busbar PFC NM72/82 IEC I/III	9			PC	

11/21/2003 11:32 AM

1 / 1

LST: 2100080

Version: 02

Material 60016660
Description PFC MODULE 50kvar 690V

Obj	Object description	Quantity	Un SortStrng	Item	text
60013647	BRACKET for CAPACITOR 2x25kvar	1		PC	
60000931	CAPACITOR 25kvar 690V 50Hz VISHAY	2		PC	
60096832	CAPACITOR CONTAC. K3-50K10 230 w RC-UNIT	1		PC	
60005074	FUSE SWITCH NH00 3NP40700 3-P. 160A 690V	1		PC	
60005100	FUSE NH00 3NA3830-6 gL/gG 100A 690V	3		PC	
60009974	TOP CLAMP for CAPACITOR 25kvar	2		PC	
60007471	CABLE TIE with PLUG 584-095 5x150mm	2		PC	
60012598	WIRING IEC POWER FACTOR CORR. MODULE	1		PC	
60012530	WIRING BRIDGE POW.FACT.CORR. MODULE UL	1		PC	
60002597	THERMOLABEL "Phase compensation"2*25kvar	1		PC	

Change Info

Item no.	Item text:
60091121	Top Panel +AN1, NM72/NM82 30T 690V 50Hz IEC and 600V 60Hz UL

Active revision for production

Drawing number: 6010123

Version	Date	Init./App.	Description of change since last revision
03	29.10.2003	ATM/ATM	Page 001 and 002: Updated. Page 030: Front layout updated. Page 041 and 080: Updated refer to new slip rings connections. Page 056, 057 and 058: New pages added.

LST no.: 21000010 BOM number: 60091122

Version	Date	Init./App.	Description of change since last revision
03	03.11.2003	INI/ATM	Description text changed.

Old revisions for service

Drawing number: 6010123

Version	Date	Init./App.	Description of change since last revision
02	11.07.2003	ATM / ATM	Page 001 and 002: All pages updated. Page 051: W400 corrected to W405, if present added to B31 and B32
01	29.04.2003	ATM / ATM	First version in the new SAP no. system.

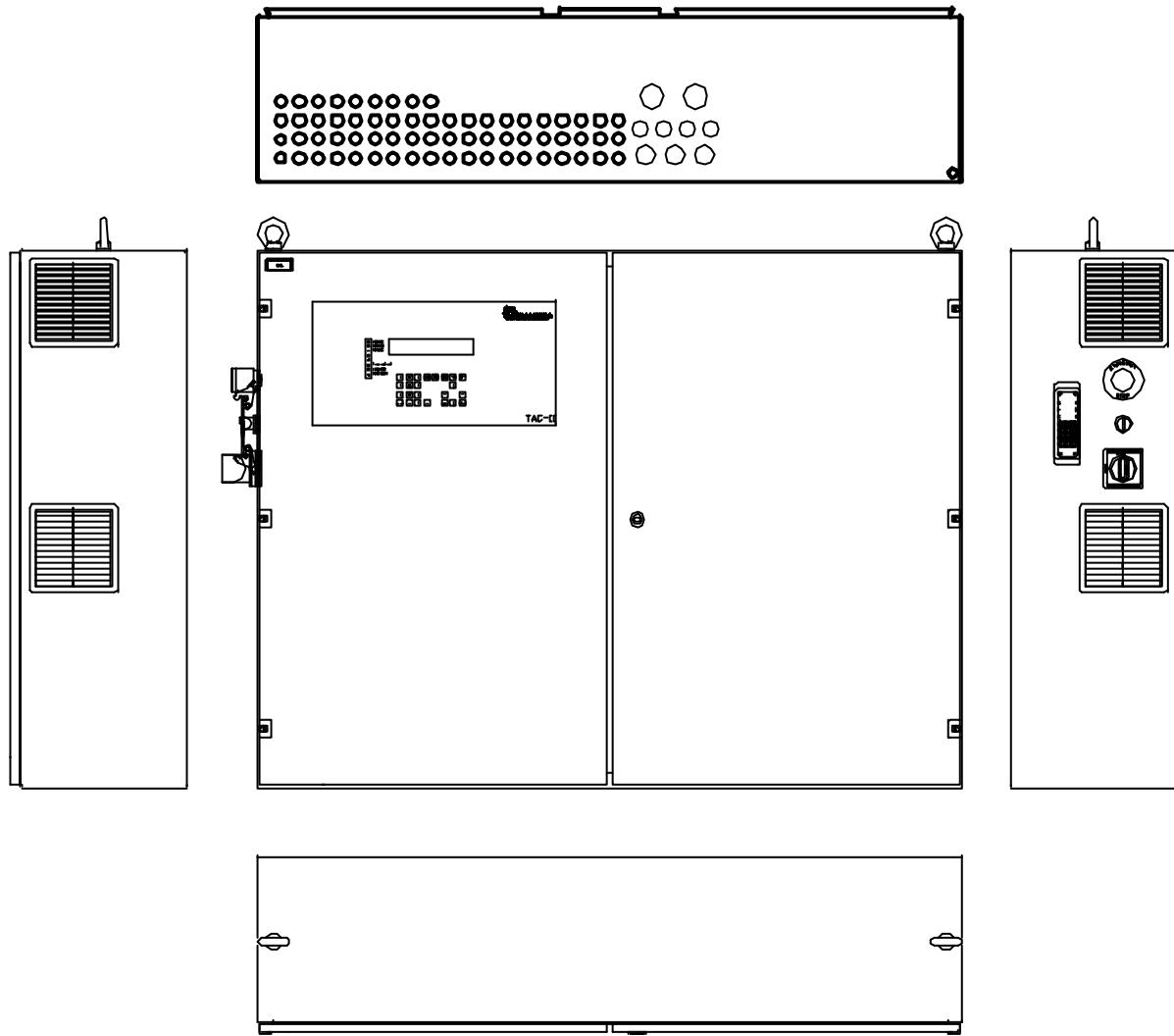
LST no.: 21000010 BOM number: 60091122

Version	Date	Init./App.	Description of change since last revision
02	11.09.2003	ATM / ATM	Gland and locknut for multi cable added.
01	26.03.2003	ATM / ATM	First version in the new SAP no. system.

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PAGE	CONTENT							DATE		REVISION		
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002	Table of contents							031029		03		
030	Panel front layout							031029		03		
031	Panel outline							031029		03		
032	Terminal row X02							031029		03		
033	Terminal row X05 and X08							031029		03		
040	Socket X01							031029		03		
041	Connections f. Sliprings							031029		03		
042	Terminal row XD2							031029		03		
043	Terminal row XD2 if senso							031029		03		
044	Terminal row XD2 if encod							031029		03		
045	Terminal row XD2							031029		03		
046	Terminal row XD2							031029		03		
047	Terminal row XD2							031029		03		
048	Terminal row X02							031029		03		
049	Terminal row X02							031029		03		
050	Terminal row X02							031029		03		
051	Terminal row X02 & F28-F2							031029		03		
052	Varistor box F06-F07							031029		03		
053	Varistor box F06-F09							031029		03		
054	Varistor box F10-F13							031029		03		
055	Varistor box F27							031029		03		
056	Connection to Junction bo							031029		03		
057	Connections to Junction b							031029		03		
058	Connections to Junction b							031029		03		
080	Connections f. Sliprings							031029		03		
200	Supply							031029		03		
201	Hub supply							031029		03		
202	Connections to sliprings							031029		03		
203	SUPPLY 230 VAC							031029		03		
204	24VDC supply							031029		03		
205	24VDC supply							031029		03		
206	Internal connections							031029		03		
207	Internal connections							031029		03		
208	Internal connections							031029		03		
209	Internal connections							031029		03		

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PAGE	CONTENT							DATE		REVISION		
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211	Internal connections							031029		03		
212	Internal connections							031029		03		
213	Internal connections							031029		03		
214	Varistor box F06-F07							031029		03		
215	Varistor box F08-F09							031029		03		
216	Varistor box F10-F11							031029		03		
217	Varistor box F12-F13							031029		03		
218	Varistor box F27							031029		03		
219	Windsensors 24Vdc supply							031029		03		
301	Output 800-809							031029		03		
302	Output 810-819							031029		03		
303	Output 820-829							031029		03		
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404	Input 530-604							031029		03		
405	Input 605-614							031029		03		
406	Input 615-624							031029		03		
407	Input 625-634							031029		03		
408	Input 300-319							031029		03		
409	Input 400-419							031029		03		
410	Input 710-724							031029		03		
411	Input 725-739							031029		03		
412	Input 740-749							031029		03		
413	Input 100-204							031029		03		
414	Input 535-638							031029		03		
415	Supply for TOI & OP-panel							031029		03		
451	TOI outline output							031029		03		
452	TOI outline output ext.							031029		03		
453	TOI outline input							031029		03		
454	TOI outline input							031029		03		
455	TOI outline input ext.							031029		03		
501	Communication							031029		03		

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1200x915x300mm (WxHxD)

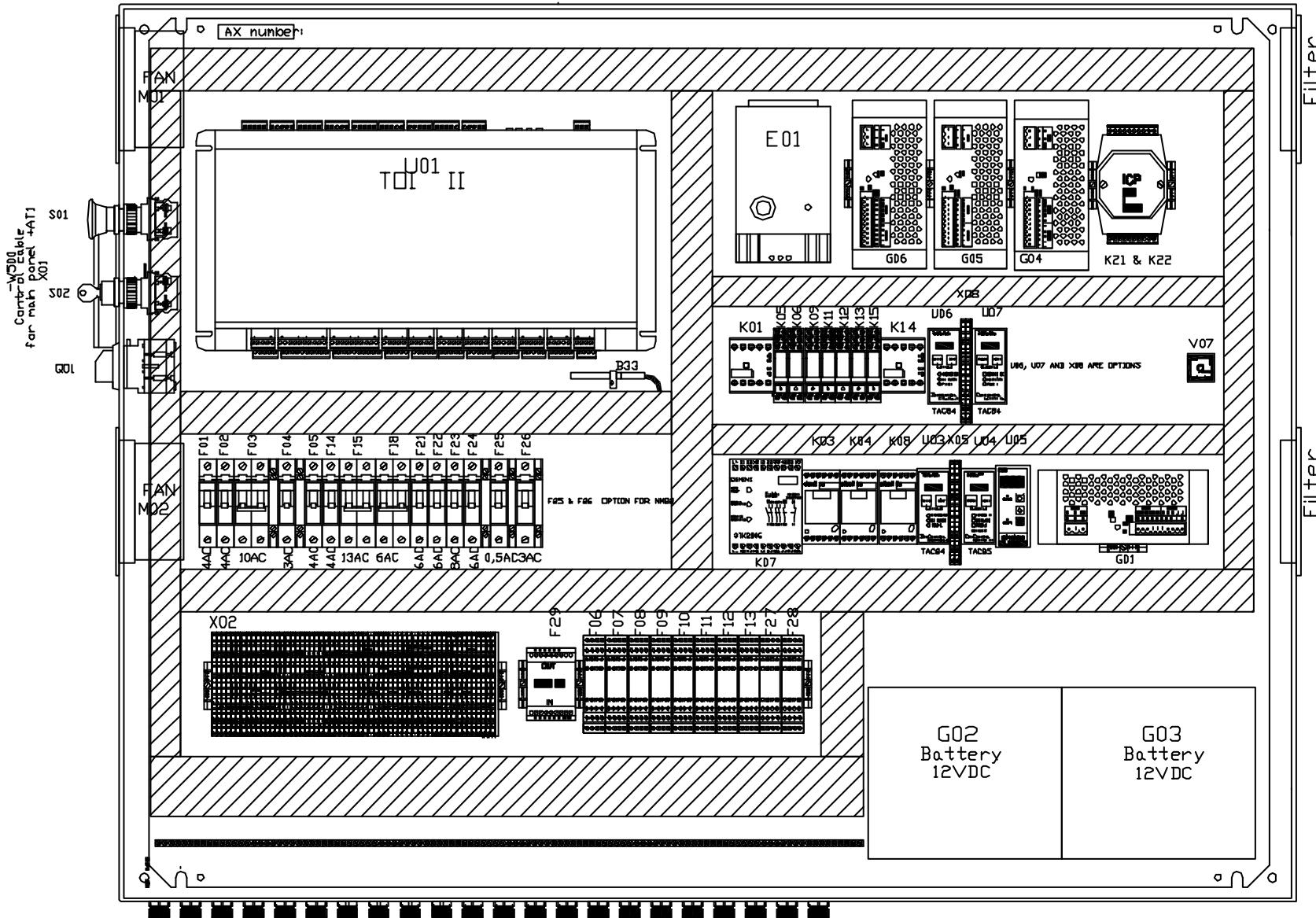
03.11.13
03.11.13

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	Date	Initials	Function	Panel front layout		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	031	Sheet	030

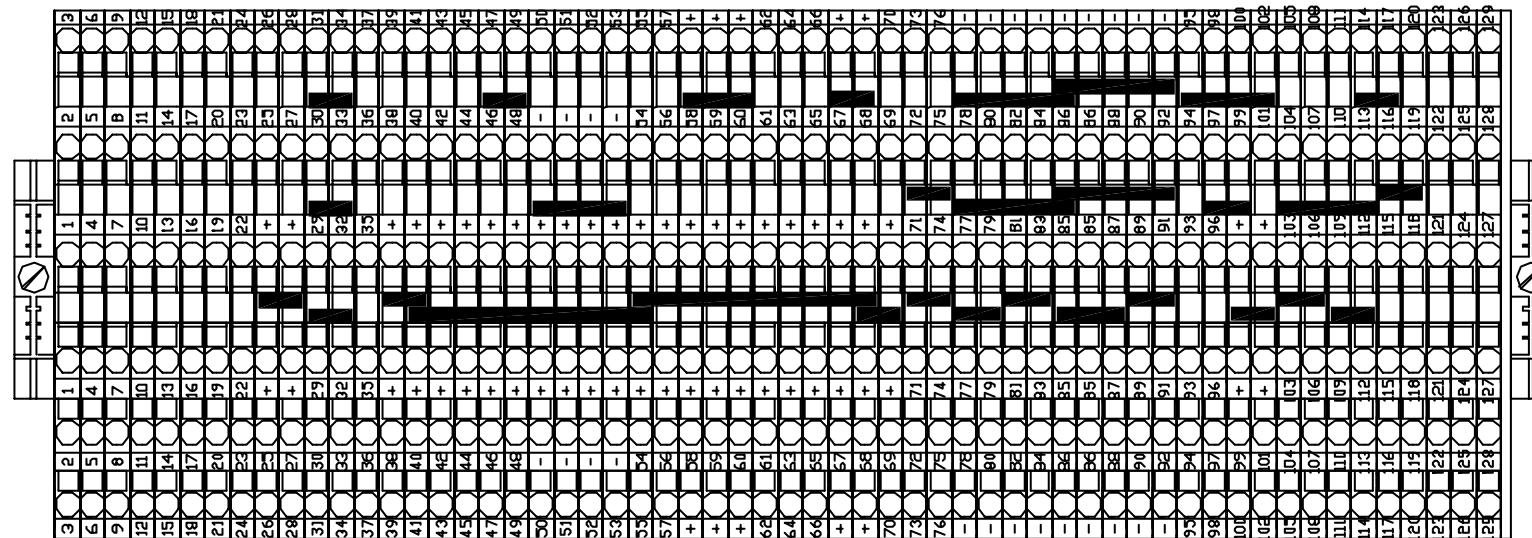
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	Date	Initials	Function	Panel outline
Designed	030429	ATM	Project title	Top Panel +AN1
Approved			Comments	NM72 IEC I & NM82 IEC III
Revised	031029	ATM	Rev.	03 Drawing no. 6010123 Cont. sheet 032 Sheet 031

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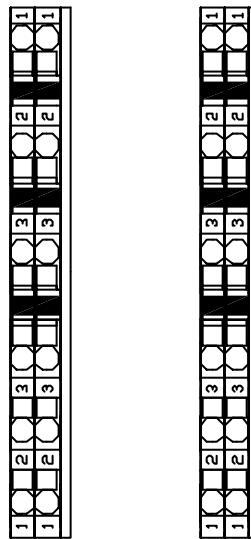
X02



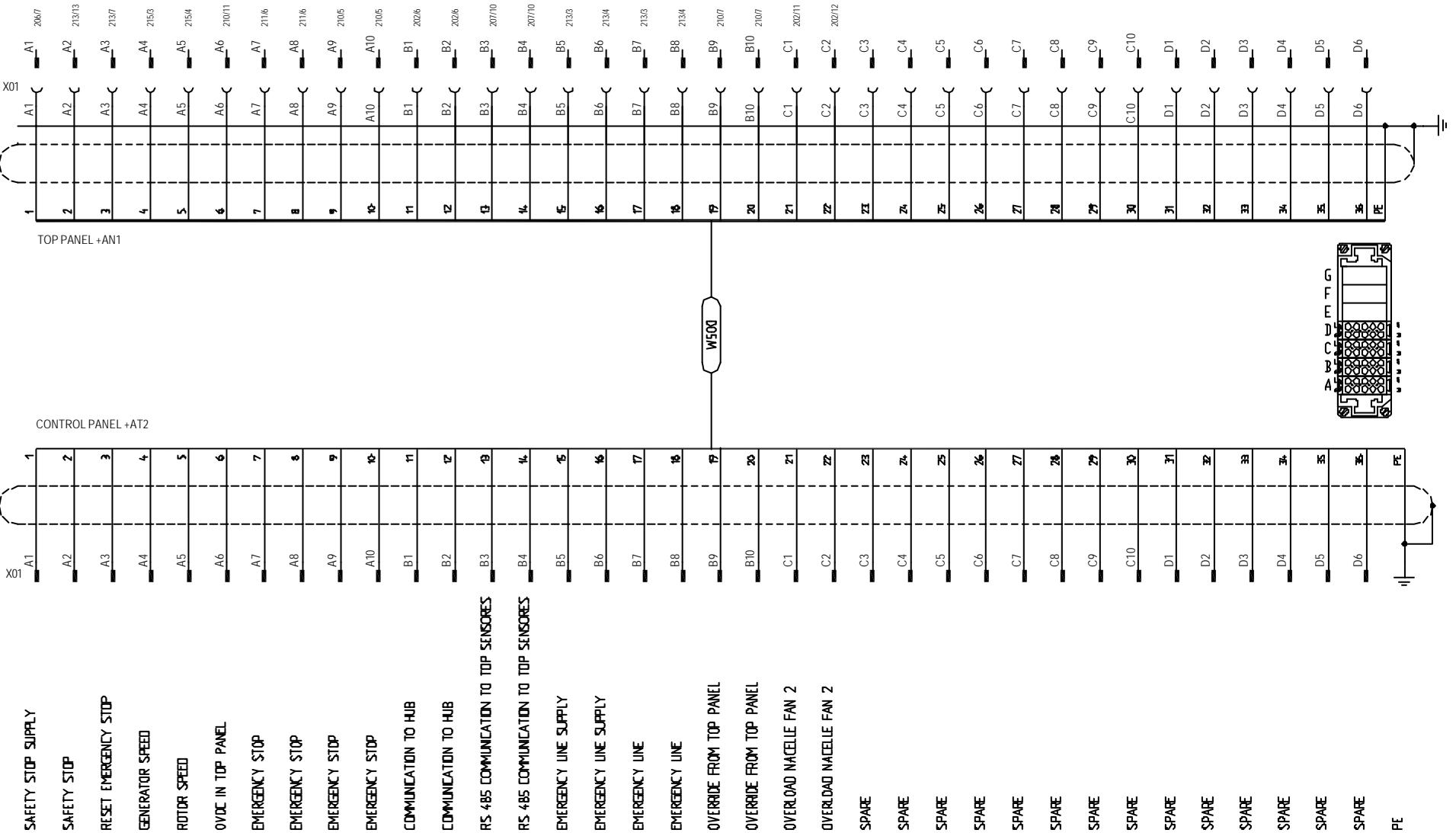
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Designed	030429	ATM	Project title	Top Panel +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet 033 Sheet 032

1	2	3	4	5	6	7	8	9	10	11	12	13
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X05 X08

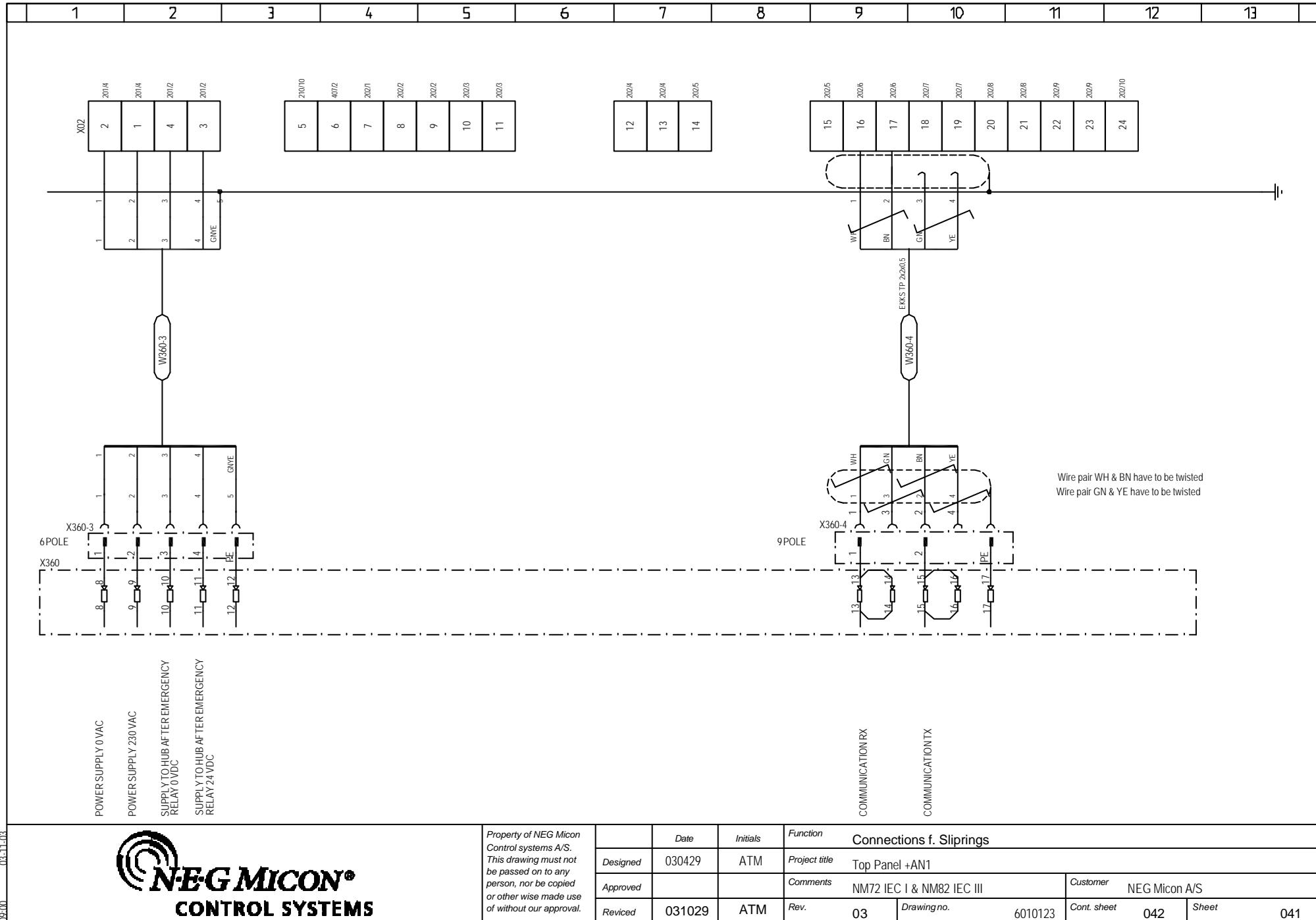


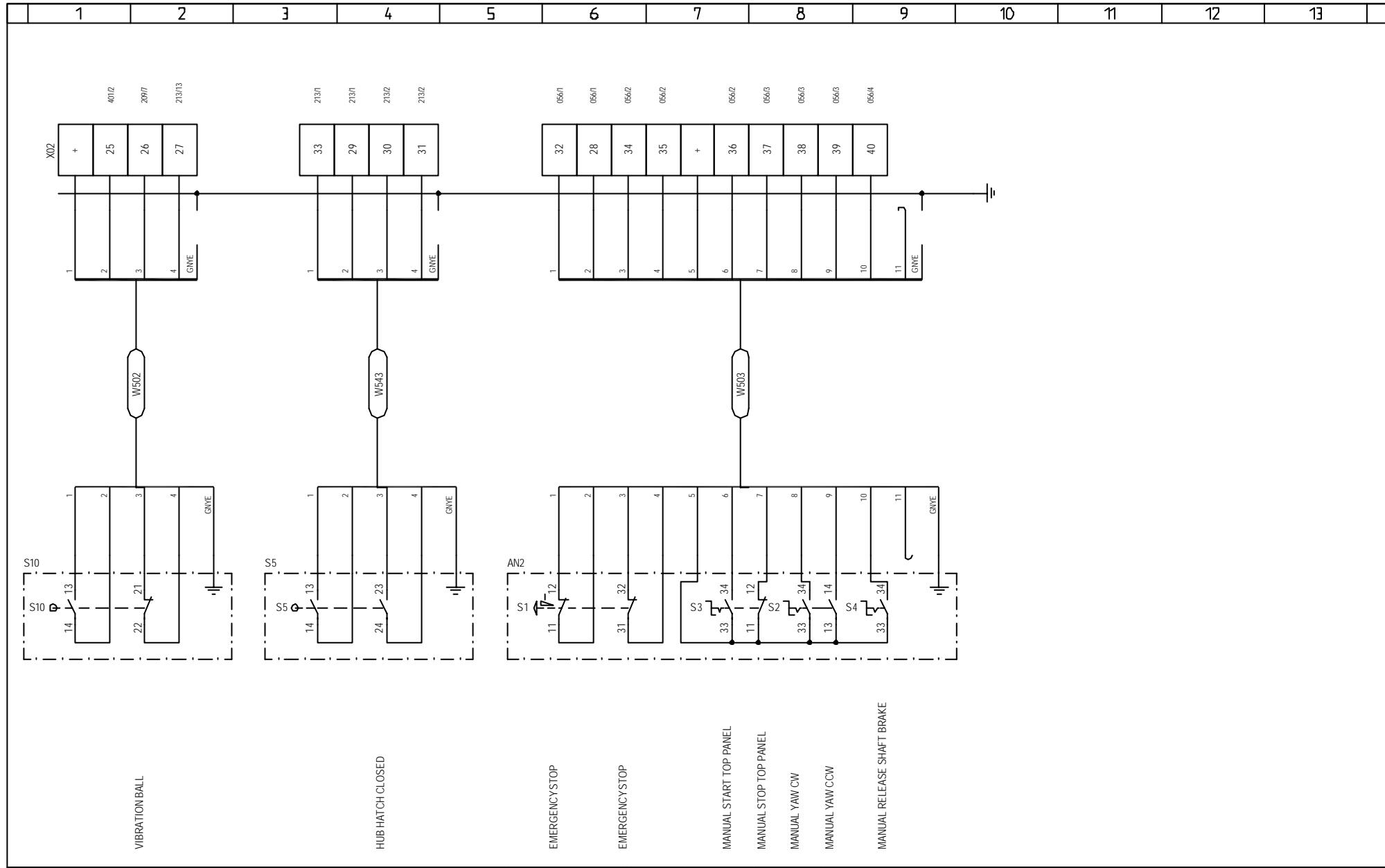
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Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III	Customer NEG Micon A/S	
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	040	Sheet	033



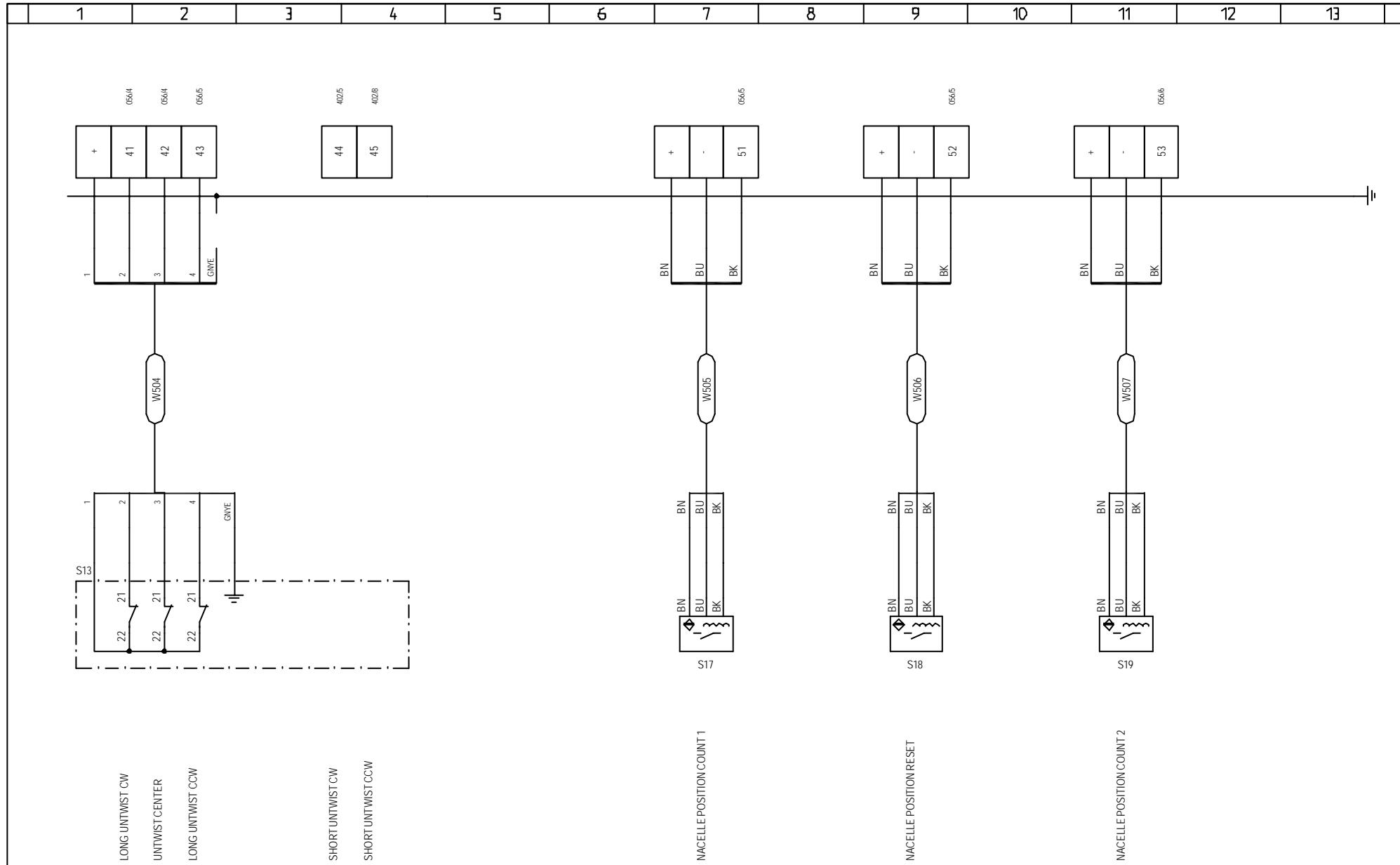
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	Date	Initials	Function	Socket X01		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	041	Sheet	040

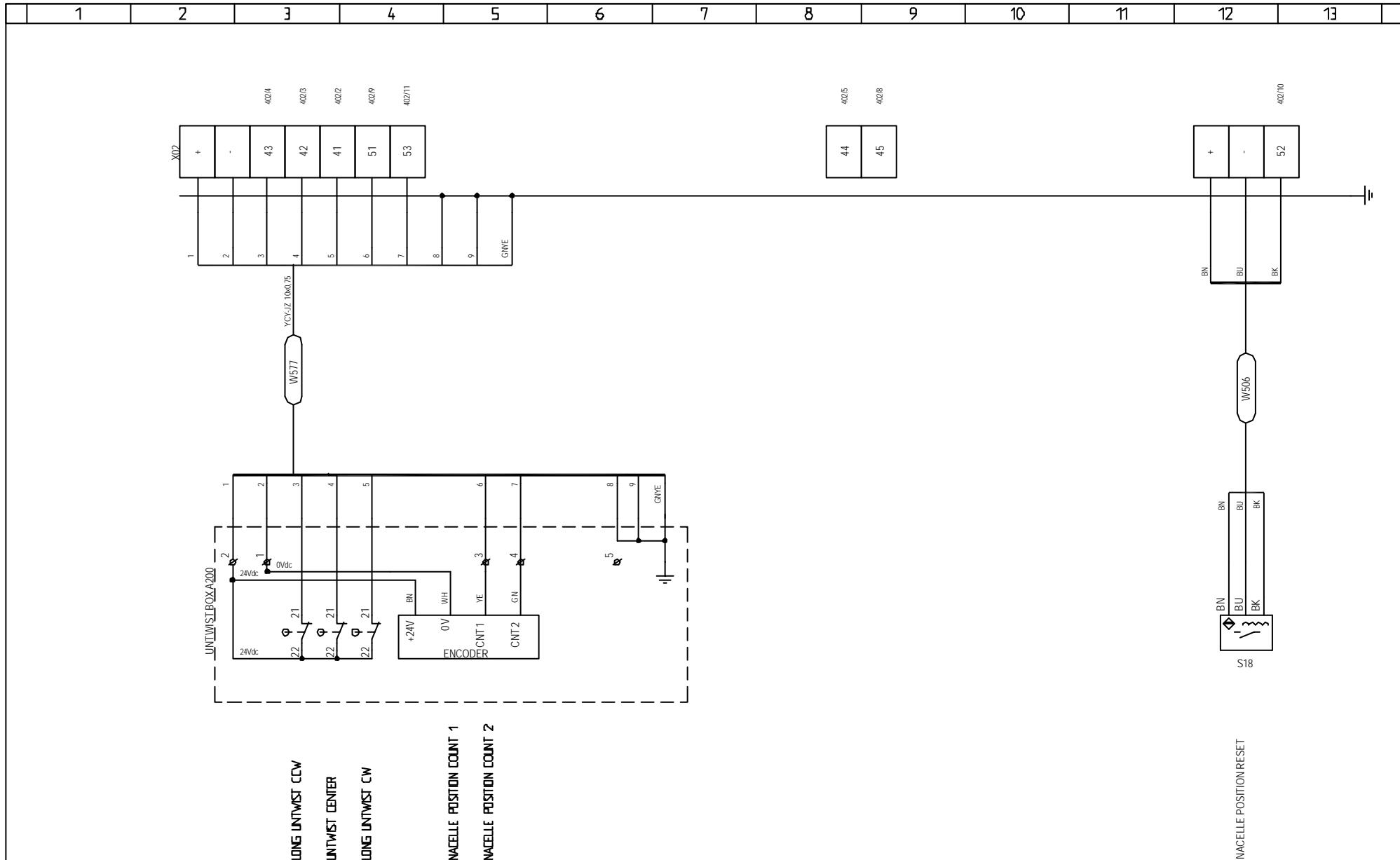


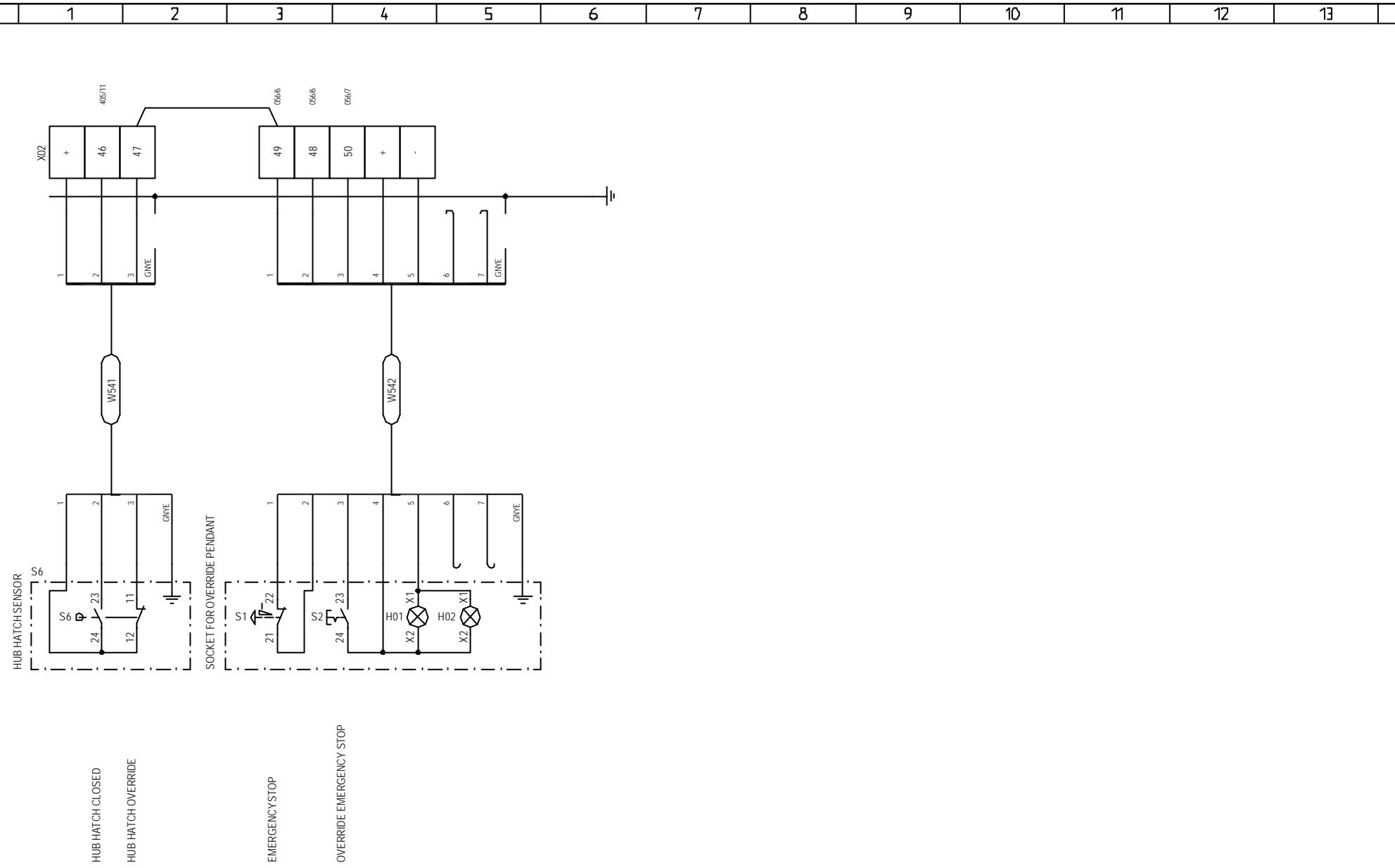


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Designed	030429	ATM	Project title Top Panel +AN1
Approved			Comments NM72 IEC I & NM82 IEC III
Revised	031029	ATM	Rev. 03 Drawing no. 6010123 Cont. sheet 043 Sheet 042



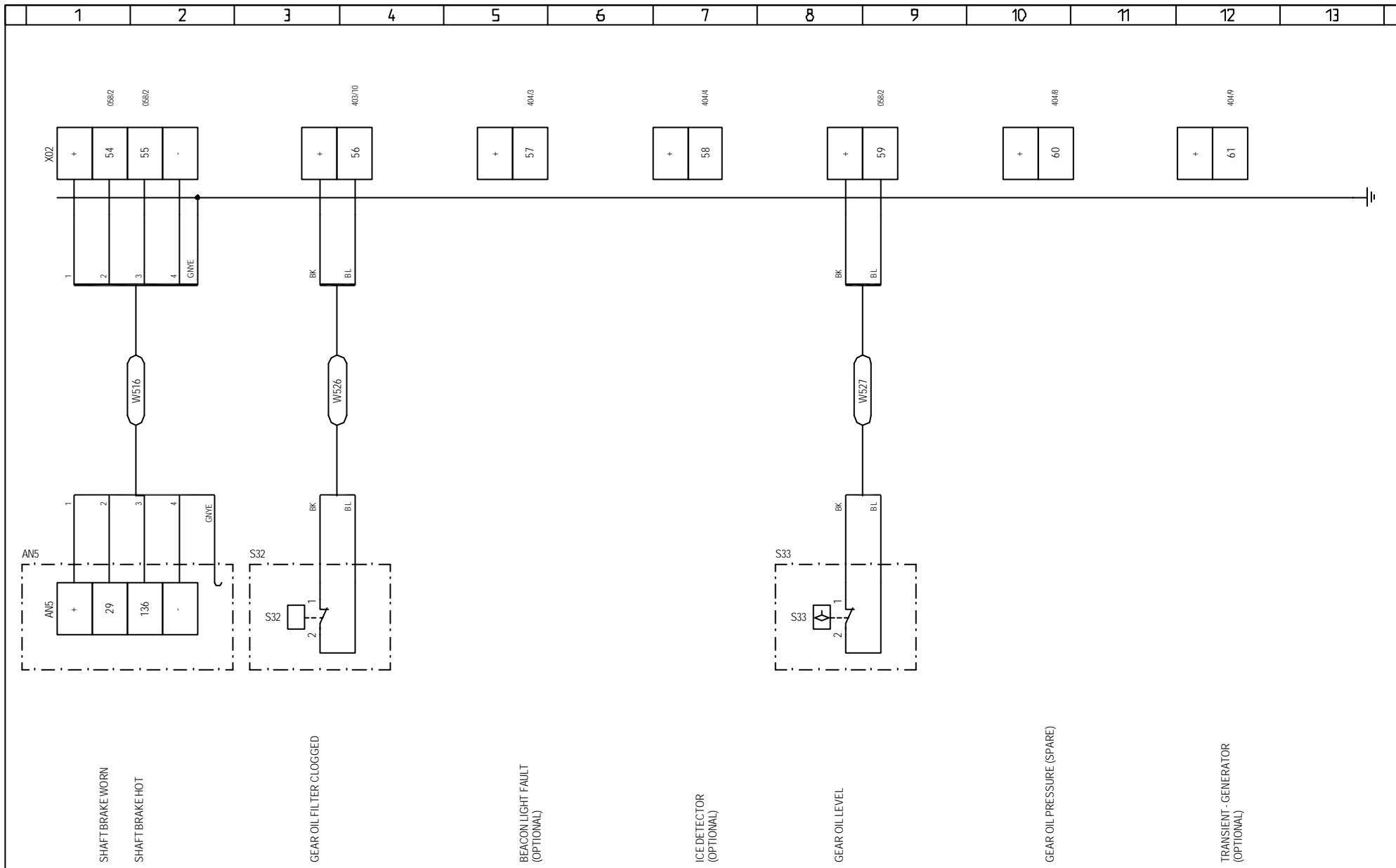
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Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no. 6010123	Cont. sheet 044 Sheet 043





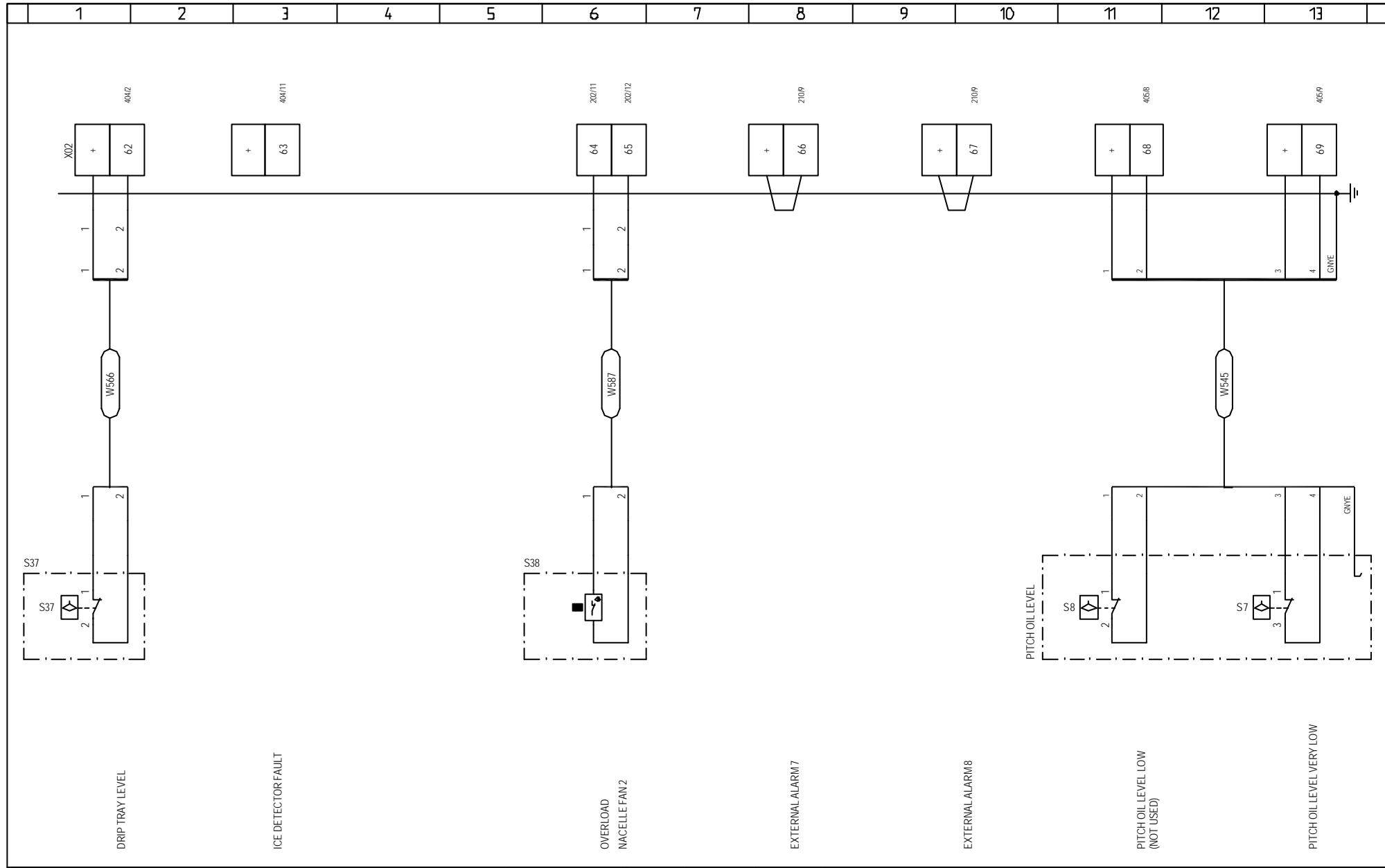
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	Date	Initials	Function	Terminal row X02						
Designed	030429	ATM	Project title	Top Panel +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer	NEG Micon A/S			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	046	Sheet	045

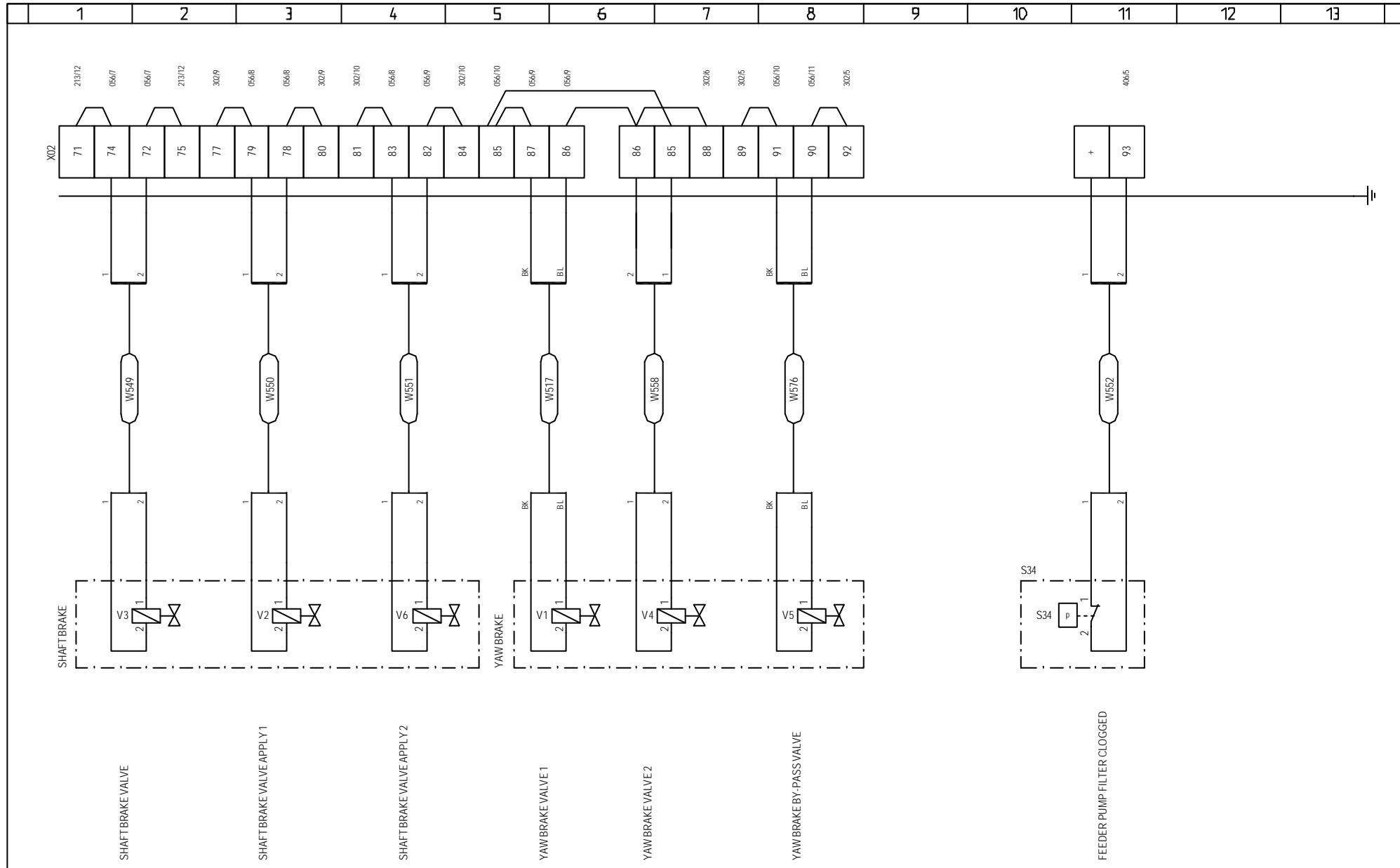


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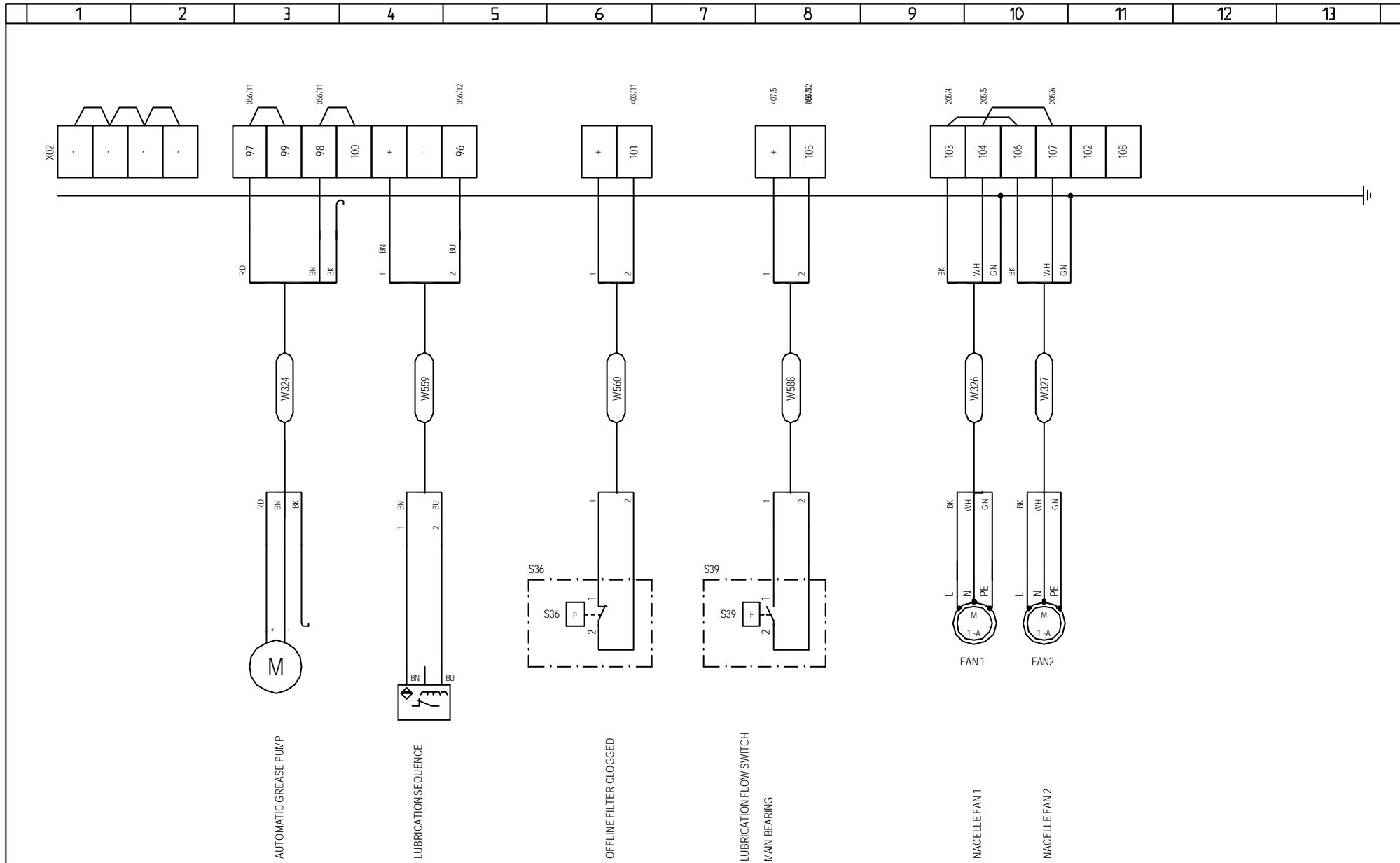
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Designed	030429	ATM	Project title	Top Panel +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	047	Sheet	046



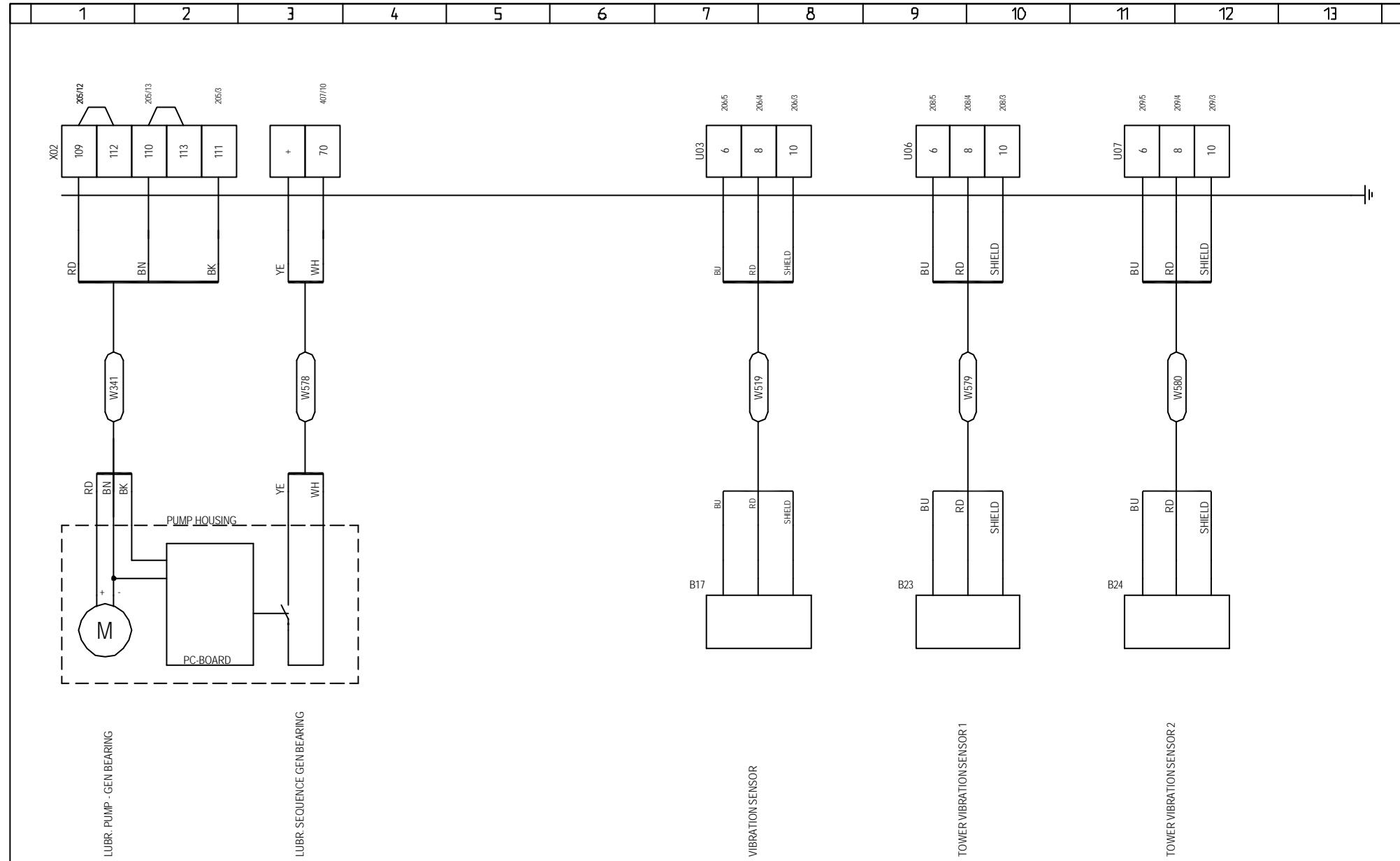
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Designed	030429	ATM	Project title	Top Panel +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet 048 Sheet 047



	Date	Initials	Function	Terminal row X02		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	049	Sheet	048



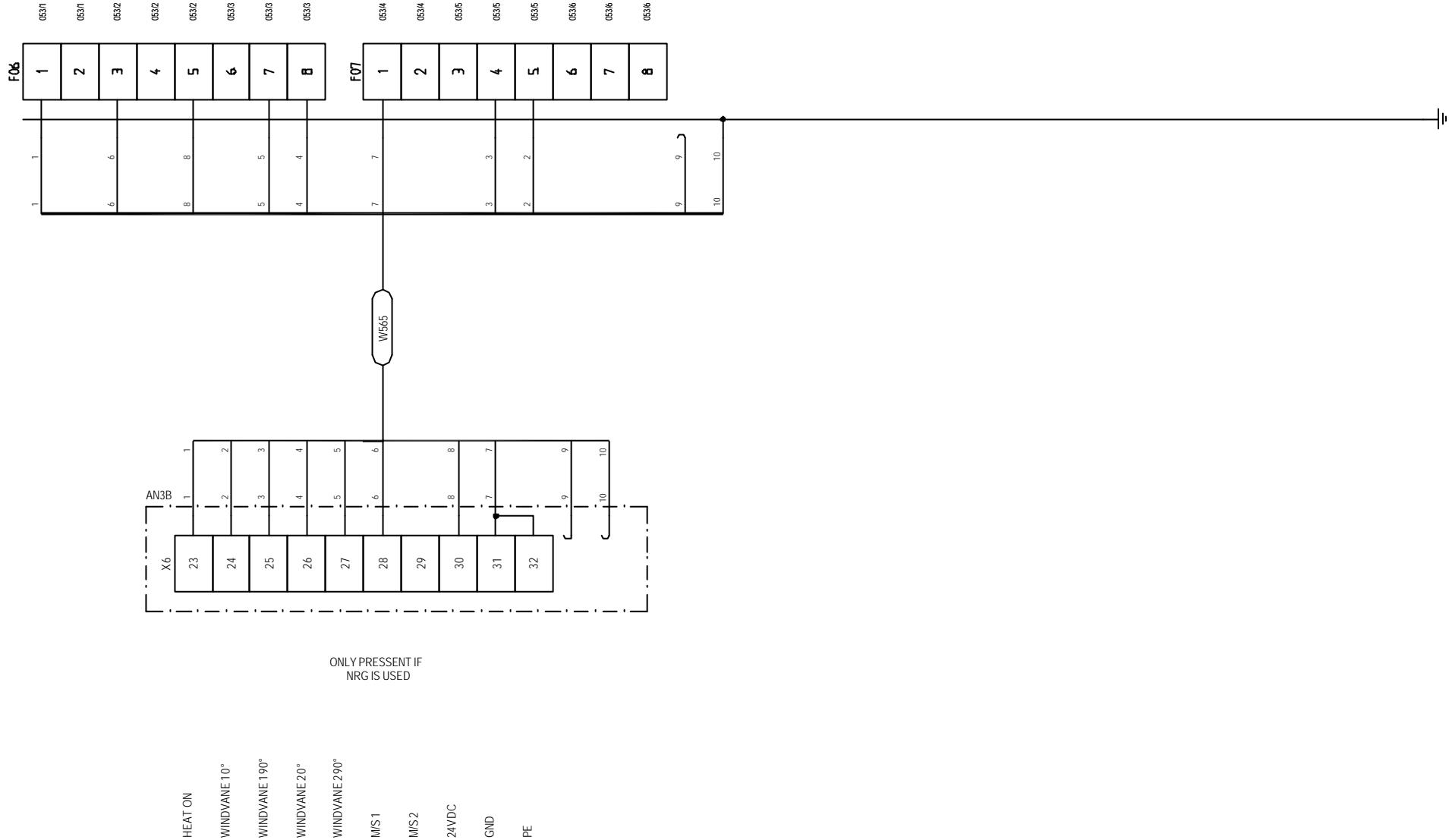
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Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	050	Sheet	049



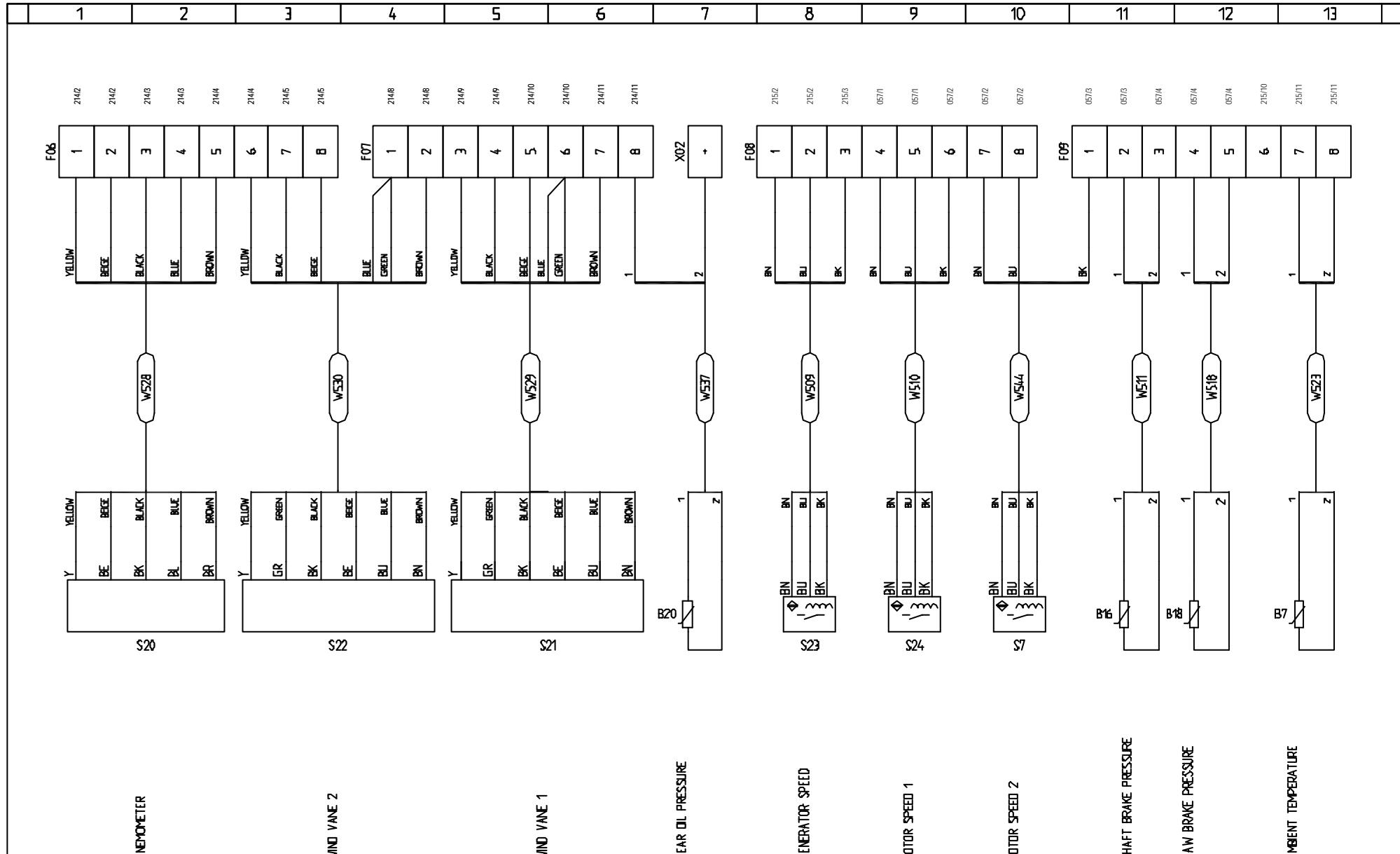
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	Date	Initials	Function	Terminal row X02						
Designed	030429	ATM	Project title	Top Panel +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	051	Sheet	050

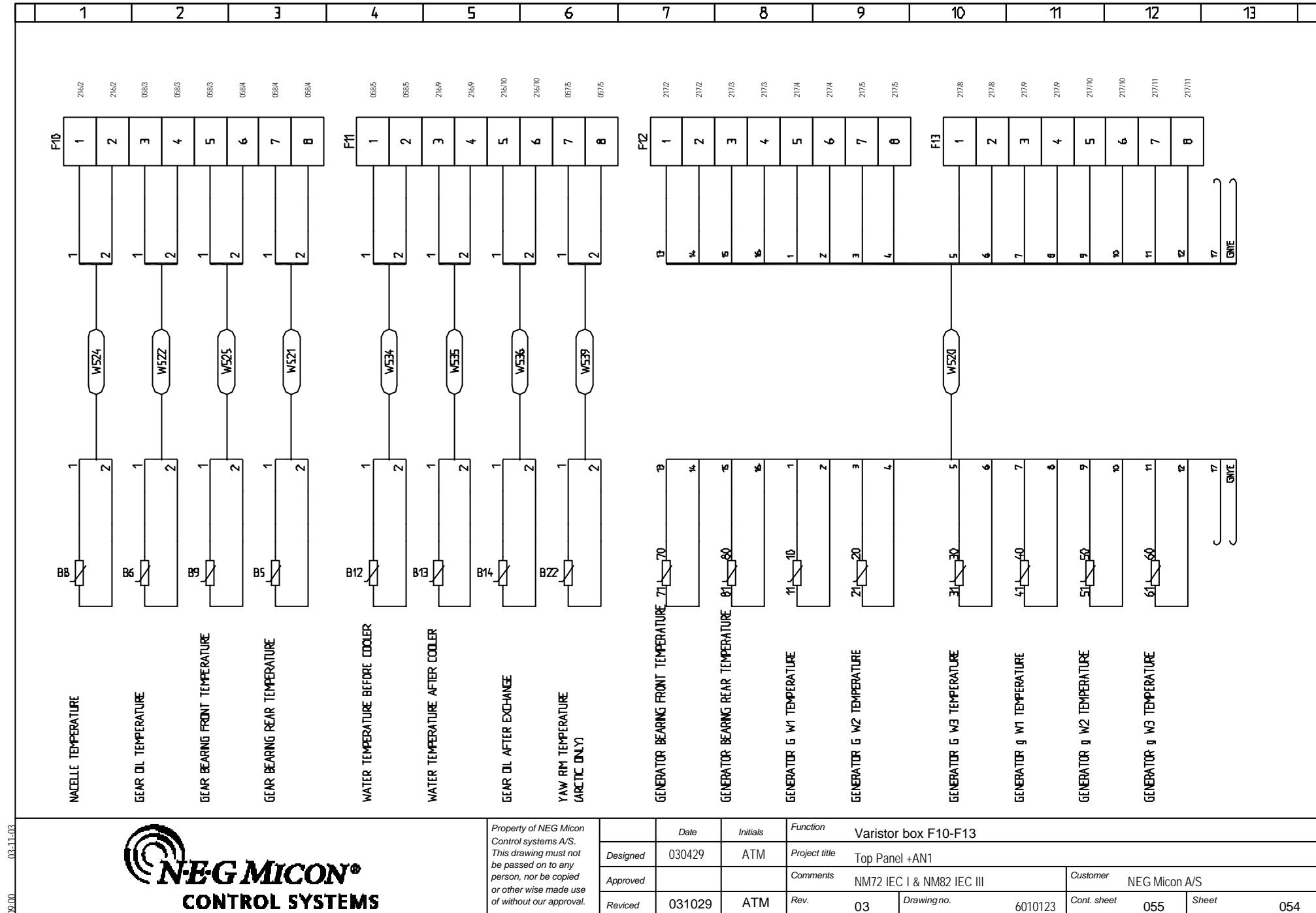
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	Date	Initials	Function	Varistor box F06-F07		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	053	Sheet	052

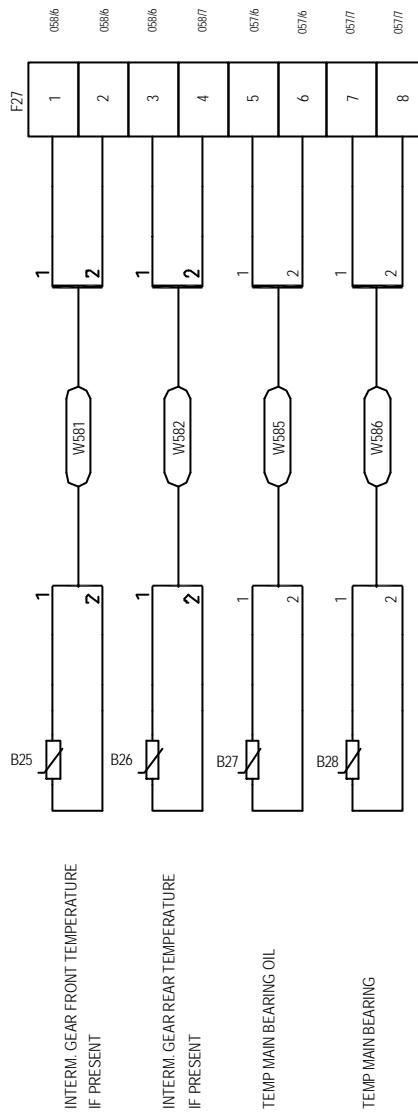


	Date	Initials	Function	Varistor box F06-F09		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	054	Sheet	053



	Date	Initials	Function	Varistor box F10-F13			
Designed	030429	ATM	Project title	Top Panel +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer	NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet 055 Sheet 054

	1	2	3	4	5	6	7	8	9	10	11	12	13	
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	Date	Initials	Function	Varistor box F27				
Designed	030429	ATM	Project title	Top Panel +AN1				
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer	NEG Micon A/S	
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	056
							Sheet	055

	1	2	3	4	5	6	7	8	9	10	11	12	13
X02	1 1					32							
EMERGENCY STOP	A2 2					2 2							
EMERGENCY STOP	A3 3					3 3							
MANUAL START TOP PANEL	A4 4					4 4							
MANUAL YAW CCW	A5 5					5 5							
MANUAL RELEASE SHAFT BRAKE	A6 6					6 6							
LONG UNTWIST CW	A7 7					7 7							
UNTWIST CENTER	A8 8					8 8							
LONG UNTWIST CCW	A9 9					9 9							
NACELLE POSITION COUNT 1	A10 10					10 10							
NACELLE POSITION RESET	B1 11					11 11							
NACELLE POSITION COUNT 2	B2 12					12 12							
EMERGENCY STOP	B3 13					13 13							
OVERRIDE EMERGENCY STOP	B4 14					14 14							
SHAFT BRAKE VALVE	B5 15					15 15							
SHAFT BRAKE VALVE APPLY 1	B6 16					16 16							
YAW BRAKE VALVE 1	B7 17					17 17							
YAW BRAKE VALVE 2	B8 18					18 18							
SHAFT BRAKE BY-PASS VALVE	B9 19					19 19							
SHAFT BRAKE VALVE APPLY 2	B10 20					20 20							
C1 21						21 21							
C2 22						22 22							
C3 23						23 23							
C4 24						24 24							
C5 25						25 25							
C6 26						26 26							
C7 27						27 27							
C8 28						28 28							
C9 29						29 29							
C10 30						30 30							
D1 31						31 31							
D2 32						32 32							
D3 33						33 33							
D4 34						34 34							
D5 35						35 35							
D6 36						36 36							
GNE 37													



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Shaft Brake Valve Apply 1

Shaft Brake Valve

Shaft Brake Valve Apply 2

Yaw Brake Valve 1

Yaw Brake Valve 2

Shaft Brake By-Pass Valve

Automatic Grease Pump

Lubrication Sequence

Lubrication Flow Switch

Main Bearing

Main Bearing Oil Heater

USE CONNECTIONS IN THIS
PAGE IF +AN8 PRESENTS

TOP PANEL +AN1

1	1	1	4	053/9
	2	2	5	053/9
	3	3	6	053/9
	4	4	7	053/10
	5	5	8	053/10

JUNCTION BOX +AN8

X02	A1	1	1	F08
X02	A2	2	2	
X02	A3	3	3	
X02	A4	4	4	
X02	A5	5	5	
X02	A6	6	6	
X02	A7	7	6	F09
X02	A8	8	7	
X02	A9	9	8	
X02	A10	10	9	
X02	B1	11	10	
X02	B2	12	10	
X02	B3	13	11	F11
X02	B4	14	12	
X02	B5	15	11	
X02	B6	16	12	
X02	B7	17	13	F27
X02	B8	18	14	
X02	B9	19	15	
X02	B10	20	16	
X02	C1	21	17	X02
X02	C2	22	17	
X02	C3	23	18	
X02	C4	24	18	
X02	C5	25	19	
X02	C6	26	19	
X02	C7	27	20	
X02	C8	28	20	
X02	C9	29	21	
X02	C10	30	22	
X02	D1	31	23	
X02	D2	32	23	
X02	D3	33	24	
X02	D4	34	24	
X02	D5	35	25	
X02	D6	36	26	
X02	GND	37	35	
X02	GNVE	38	36	
X02	GNVE	39	37	

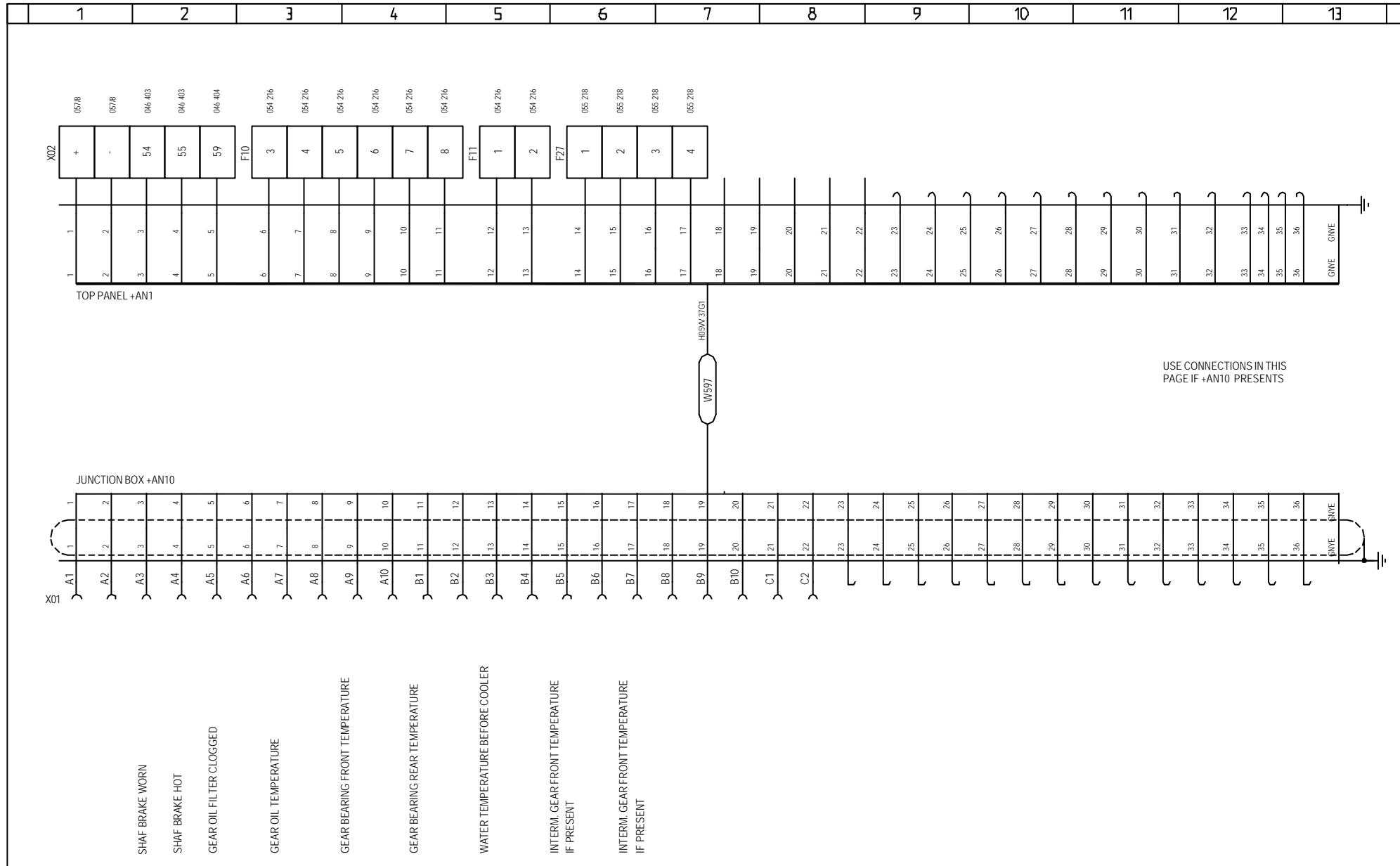
USE CONNECTIONS IN THIS PAGE IF +AN8 PRESENTS

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	Date	Initials	Function	Connections to Junction box +AN8		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III	Customer	NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	058	Sheet	057

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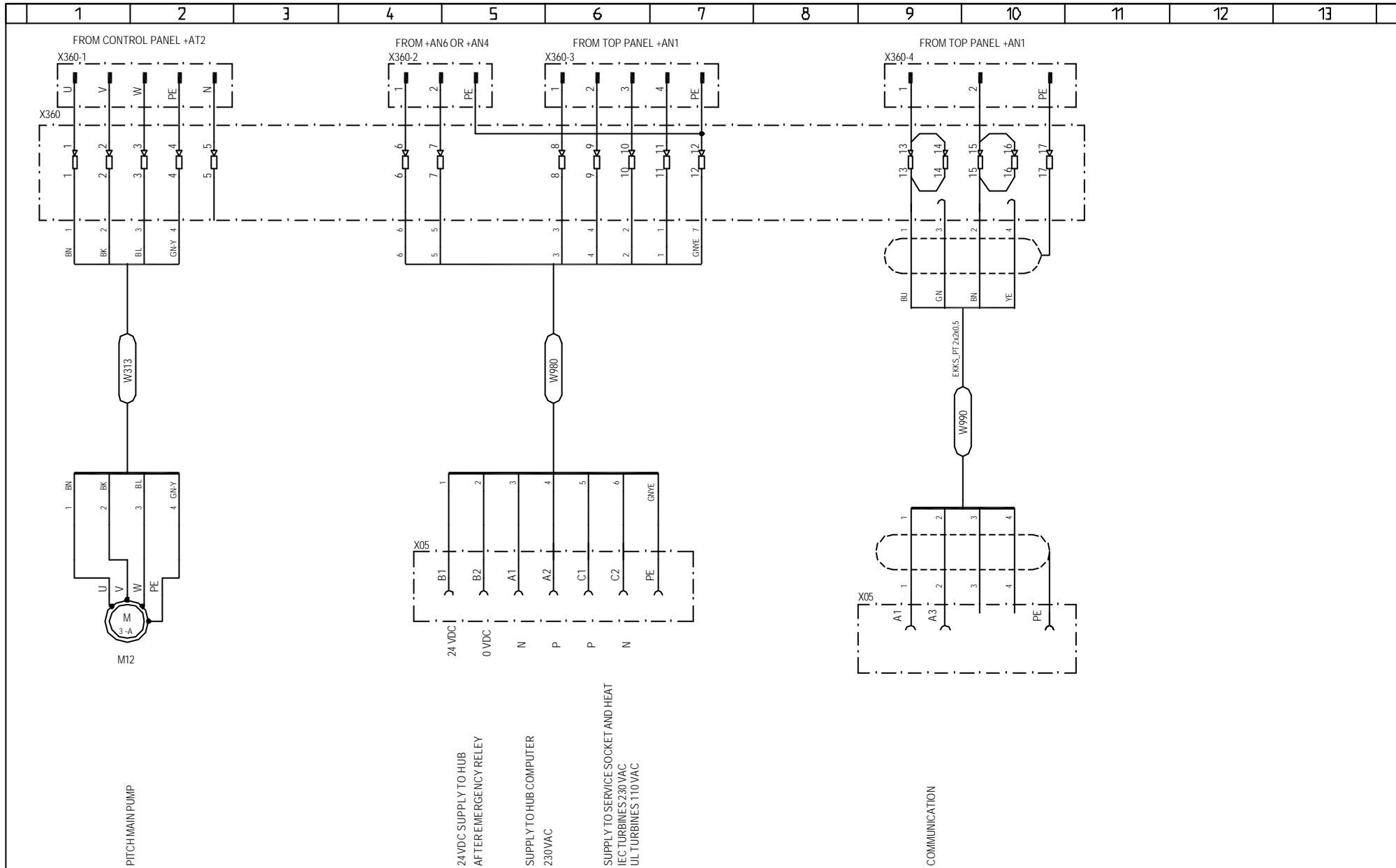


03-11-03

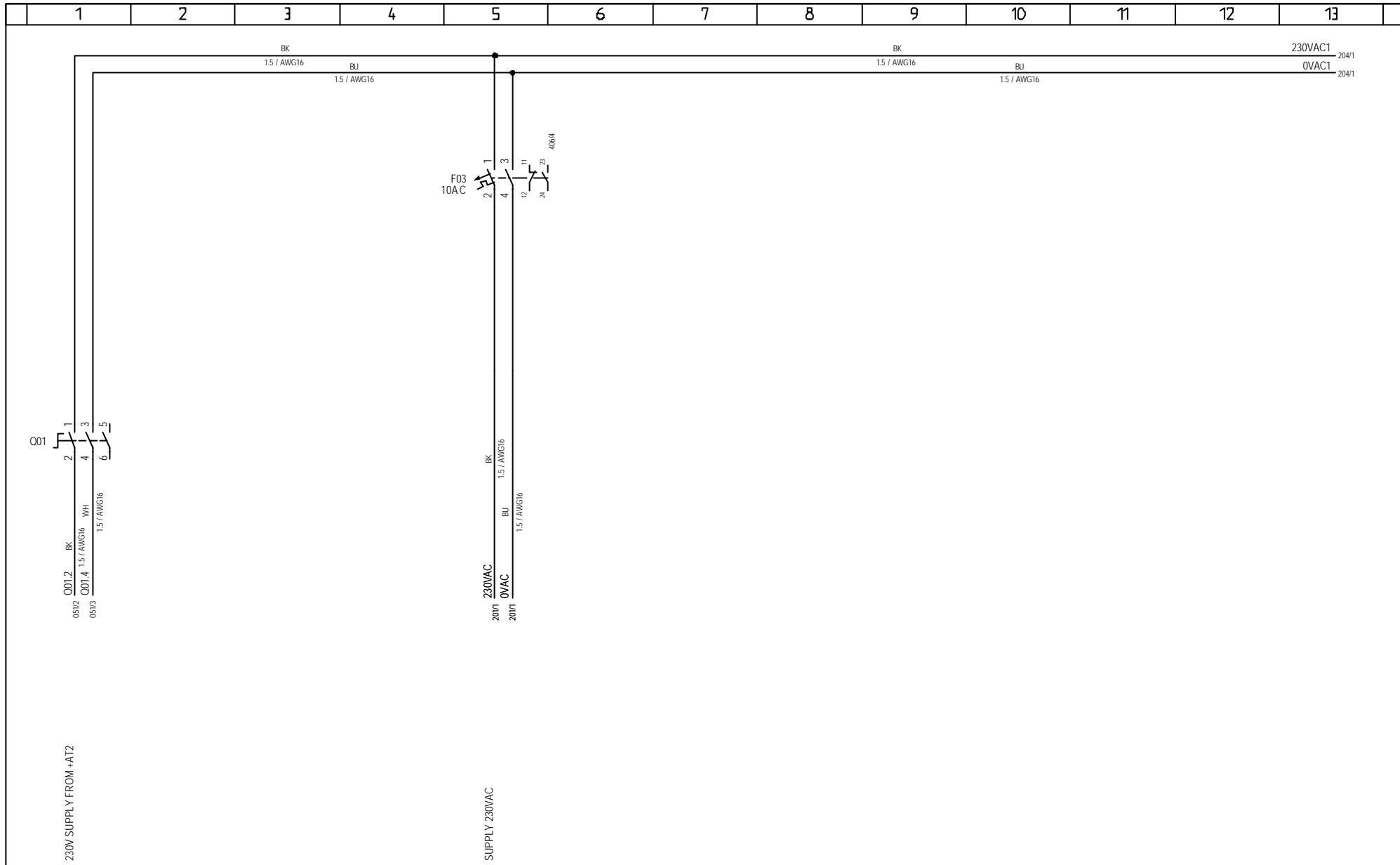


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	Date	Initials	Function	Connections to Junction box +AN10						
Designed	030429	ATM	Project title	Top Panel +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer	NEG Micon A/S			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	080	Sheet	058



	Date	Initials	Function	Connections f. Sliprings		
Designed	030429	ATM	Project title	Top Panel +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	200	Sheet	080

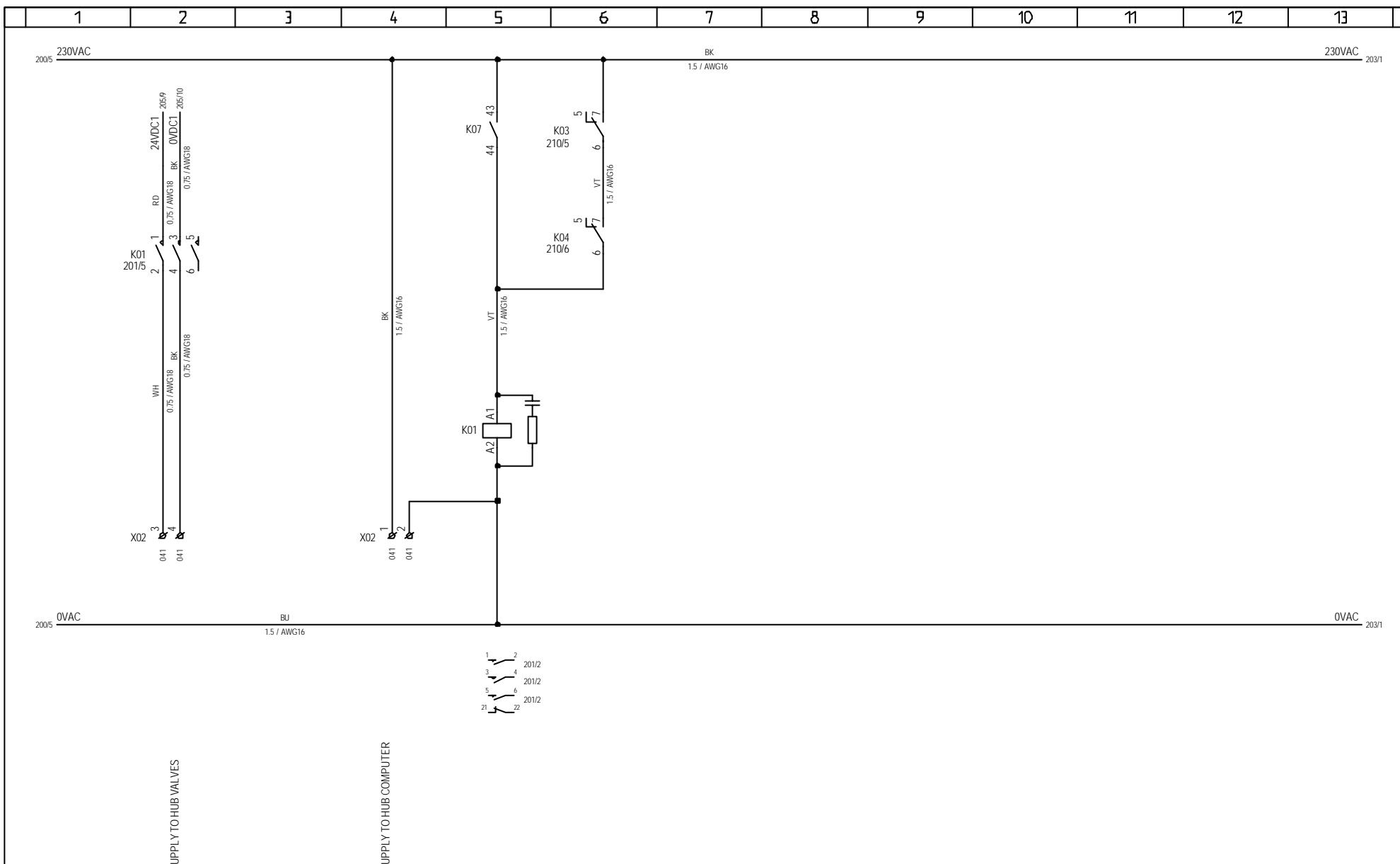


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	Date	Initials	Function	Supply
Designed	030429	ATM	Project title	Top Box +AN1
Approved			Comments	NM72 IEC I & NM82 IEC III
Revised	031029	ATM	Rev.	03 Drawing no. 6010123
			Cont. sheet	201 Sheet 200



09-10-03

SUPPLY TO HUB VALUES

SUPPLY TO HIB COMPUTER

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	Date	Initials	Function	Hub supply						
Designed	030429	ATM	Project title	Top Box +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	202	Sheet	201

1	2	3	4	5	6	7	8	9	10	11	12	13
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X02 7
041

041 8
X

041 9
X

041 10
X

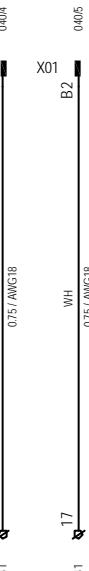
041 11
X

041 12
X

041 13
X

041 14
X

041 15
X



COMMUNICATION TO HUB(A)

COMMUNICATION TO HUB(B)

041 16
X

041 17
X

041 18
X

041 19
X

041 20
X

041 21
X

041 22
X

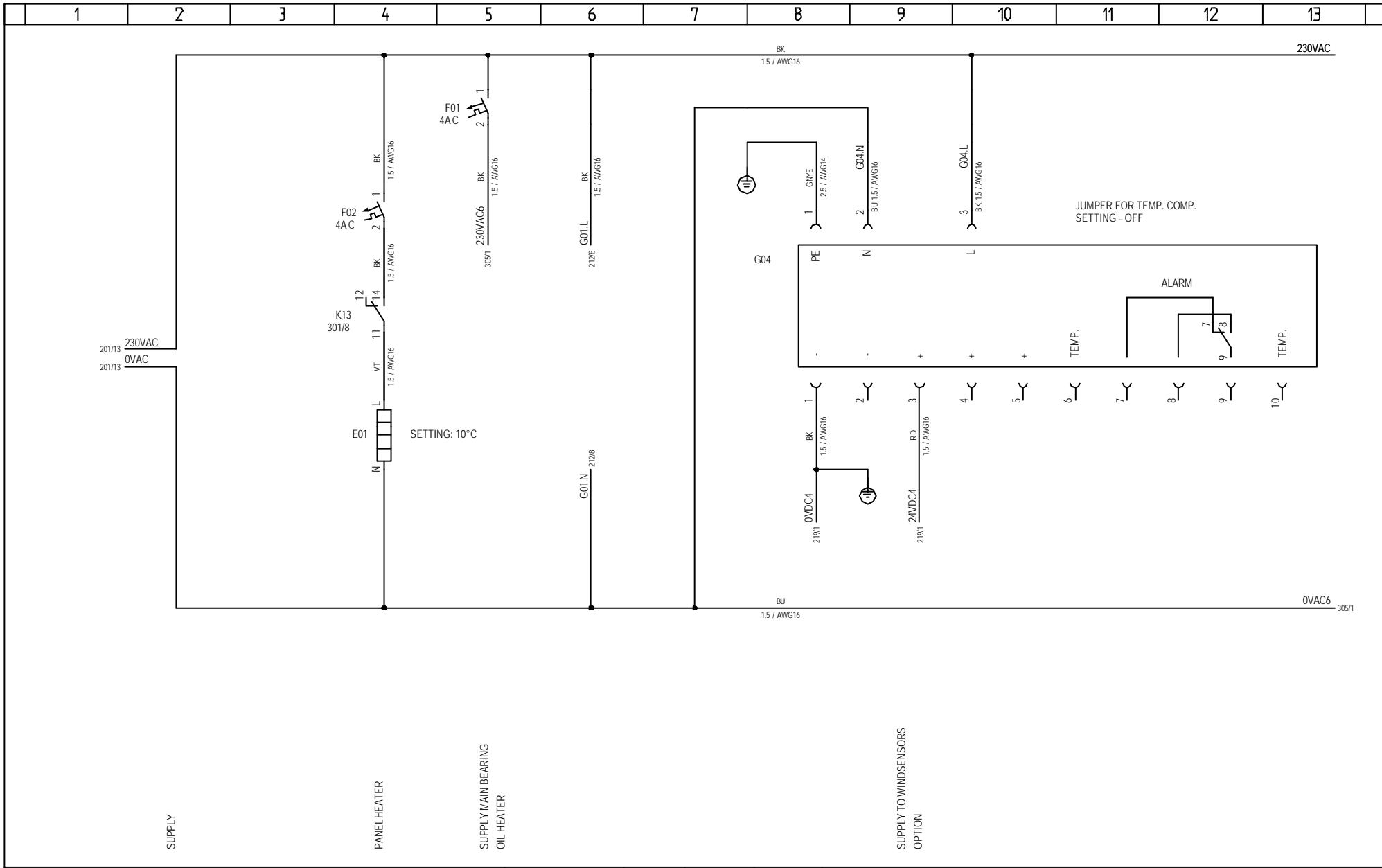
041 23
X

041 24
X

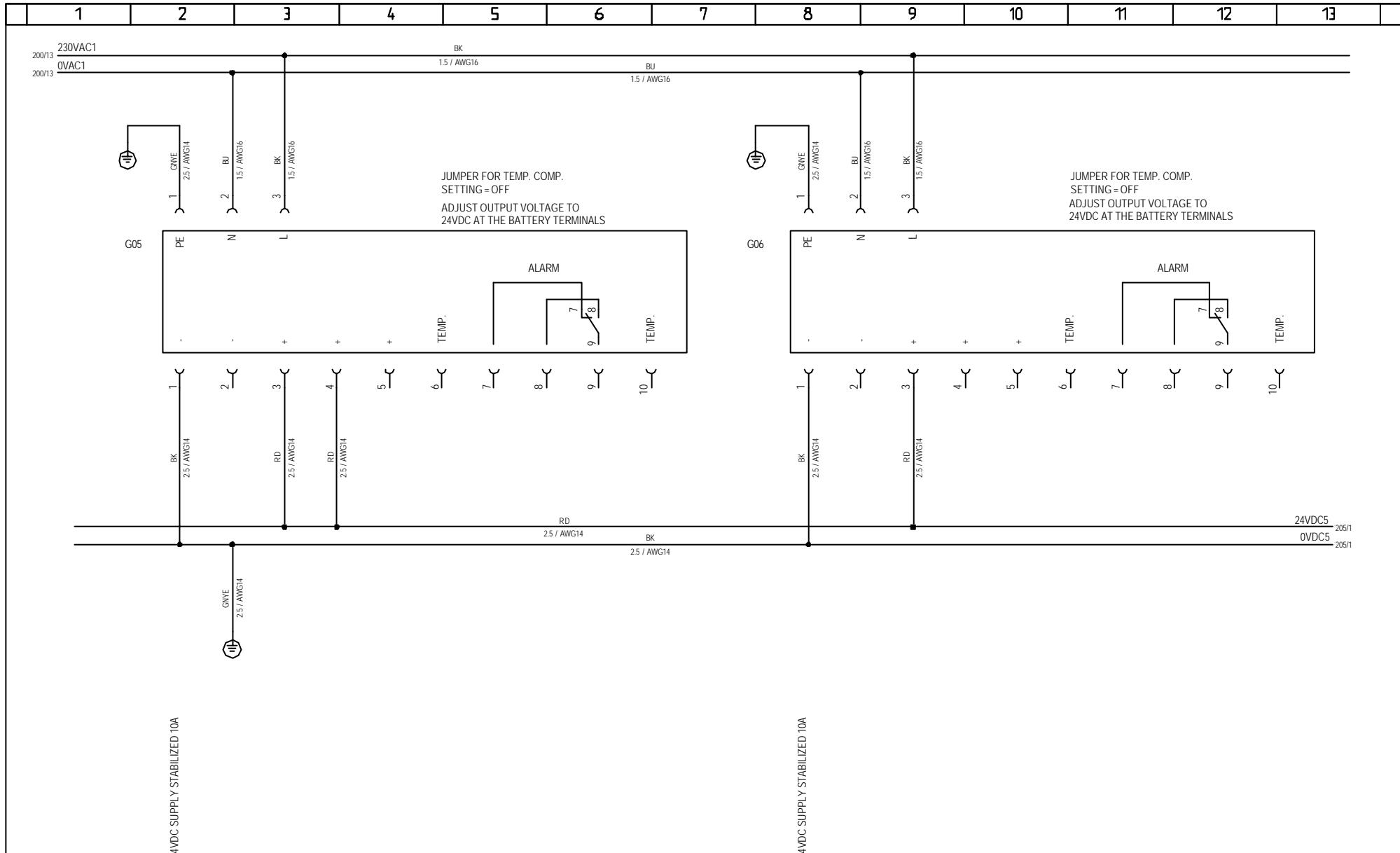


OVERLOAD NACELLE FAN 2

	Date	Initials	Function	Connections to sliprings		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	203	Sheet	202



29.10.03



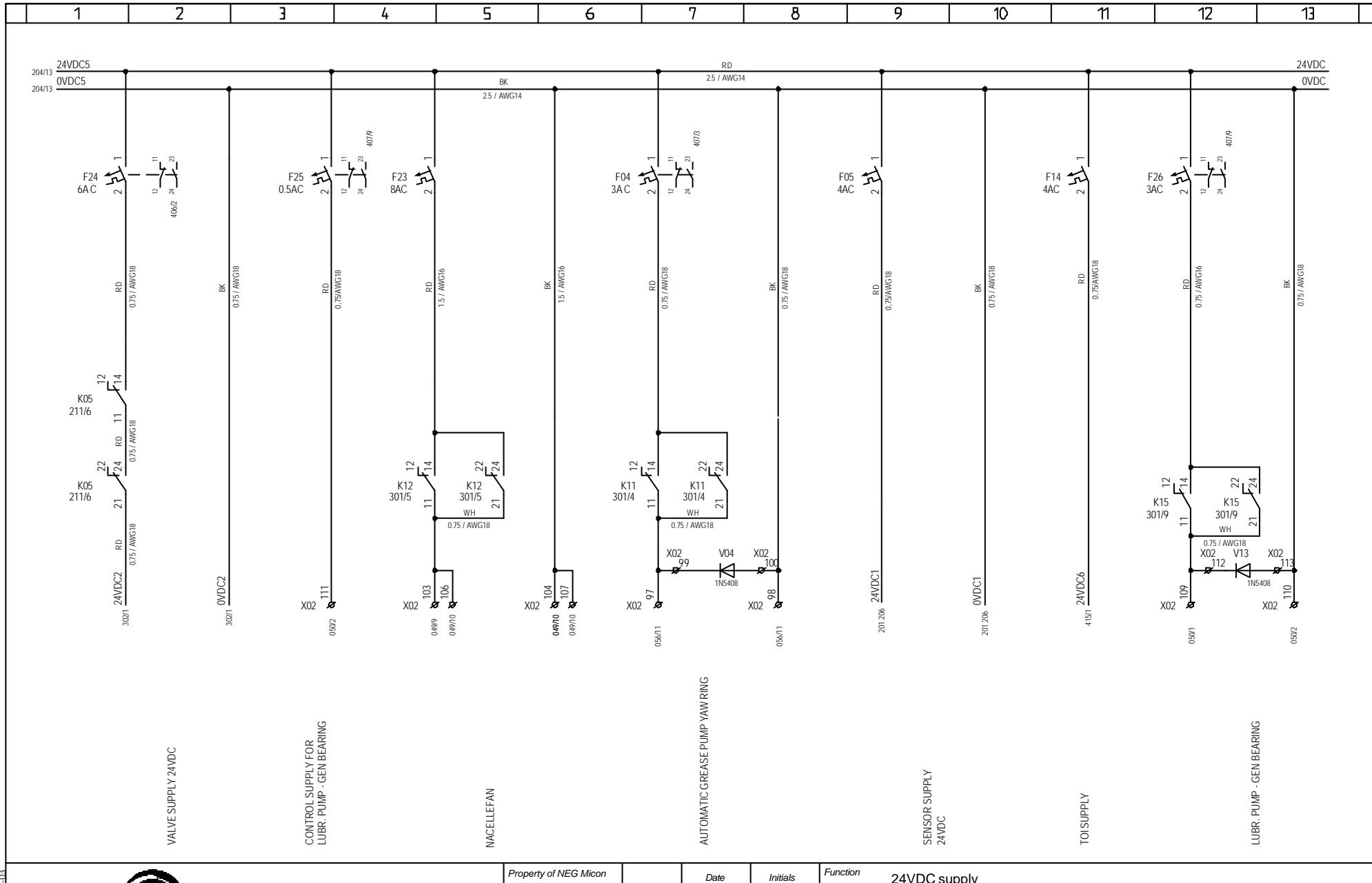
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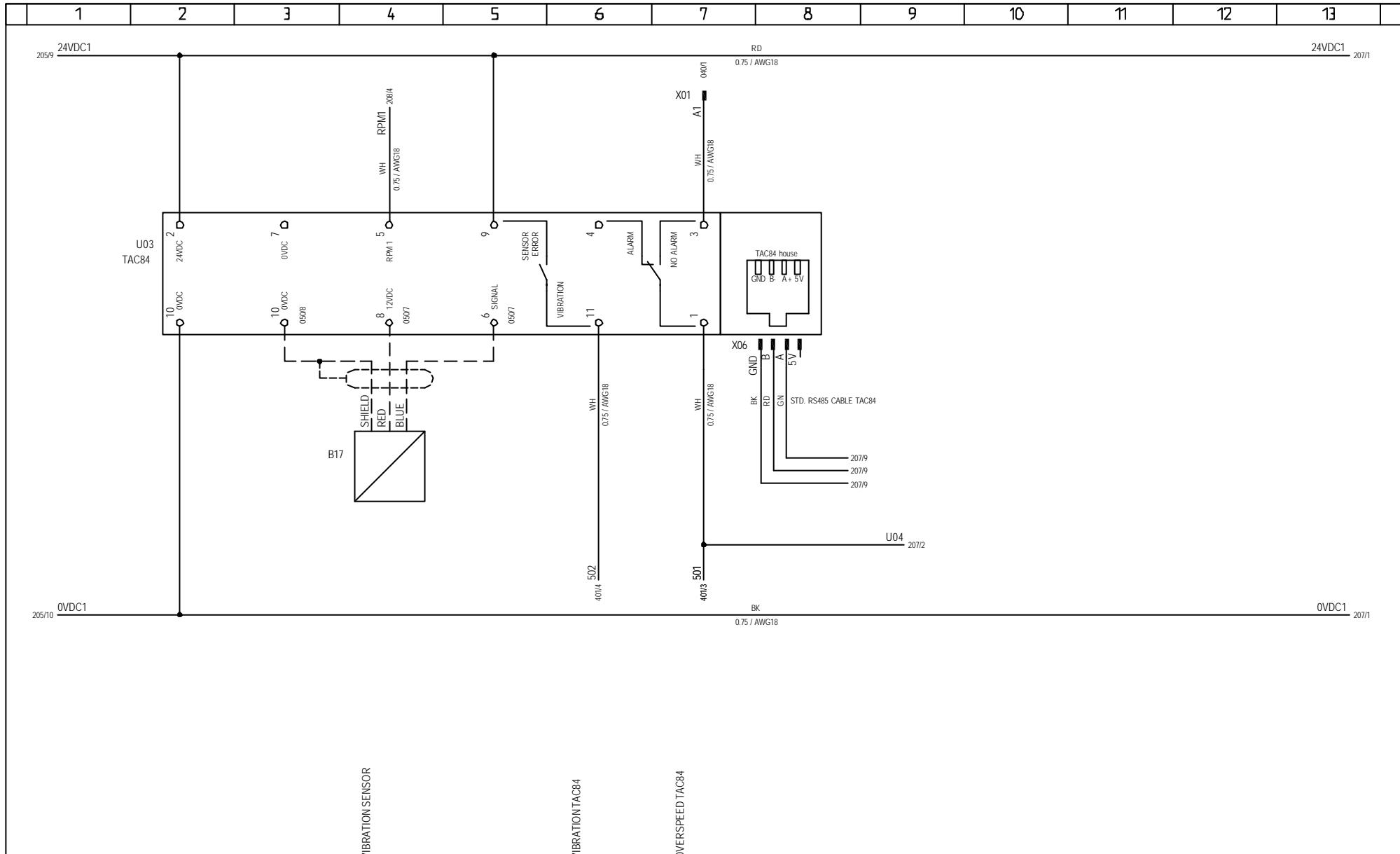
24VDC SUPPLY STABILIZED 10A

	Date	Initials	Function	24VDC supply		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	205	Sheet	204



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	Designed	030429	ATM	Project title	Top Box +AN1					
	Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S	
	Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	206	Sheet



29.10.03



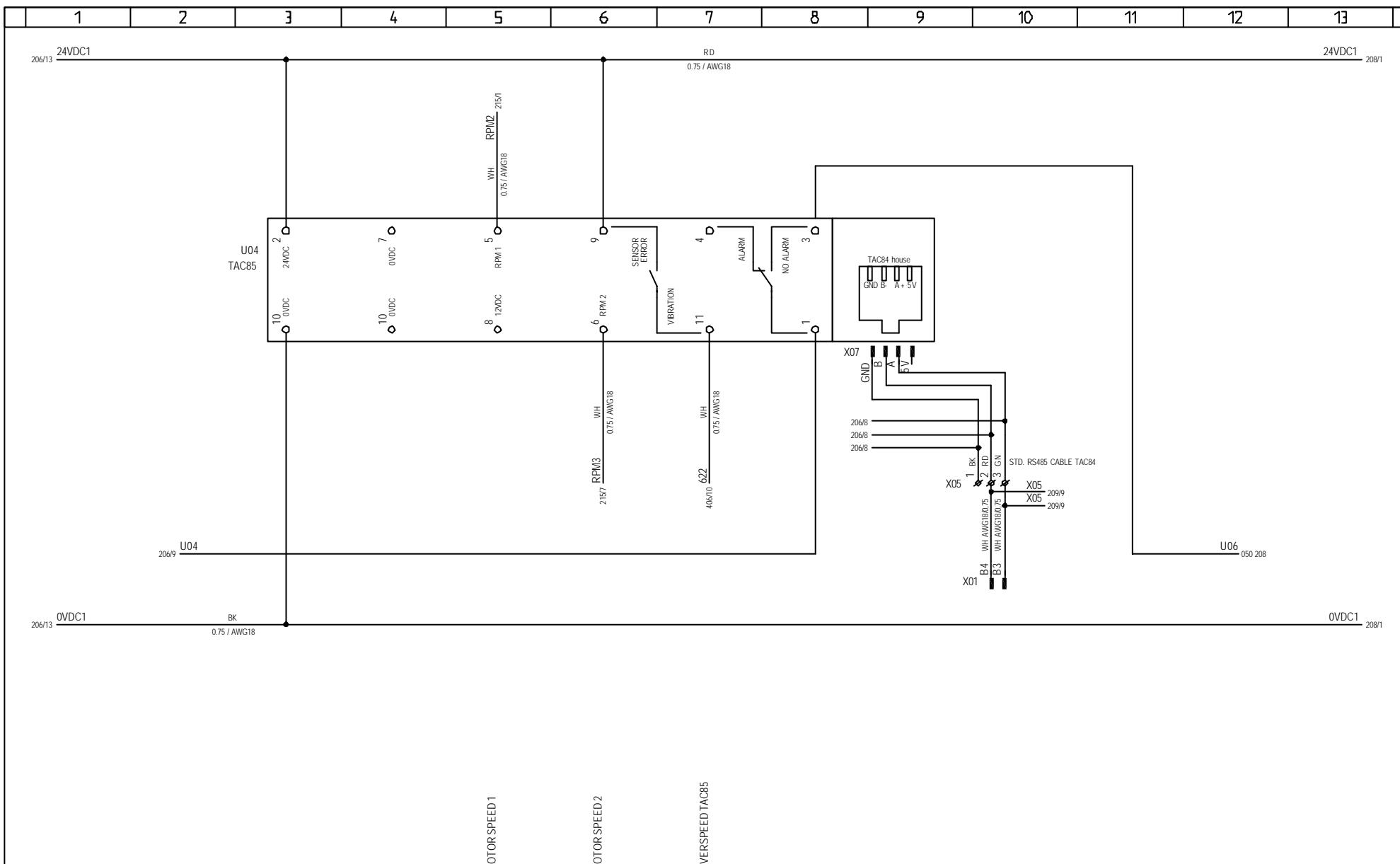
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OVERSPEED TAC84

VIBRATION TAC84

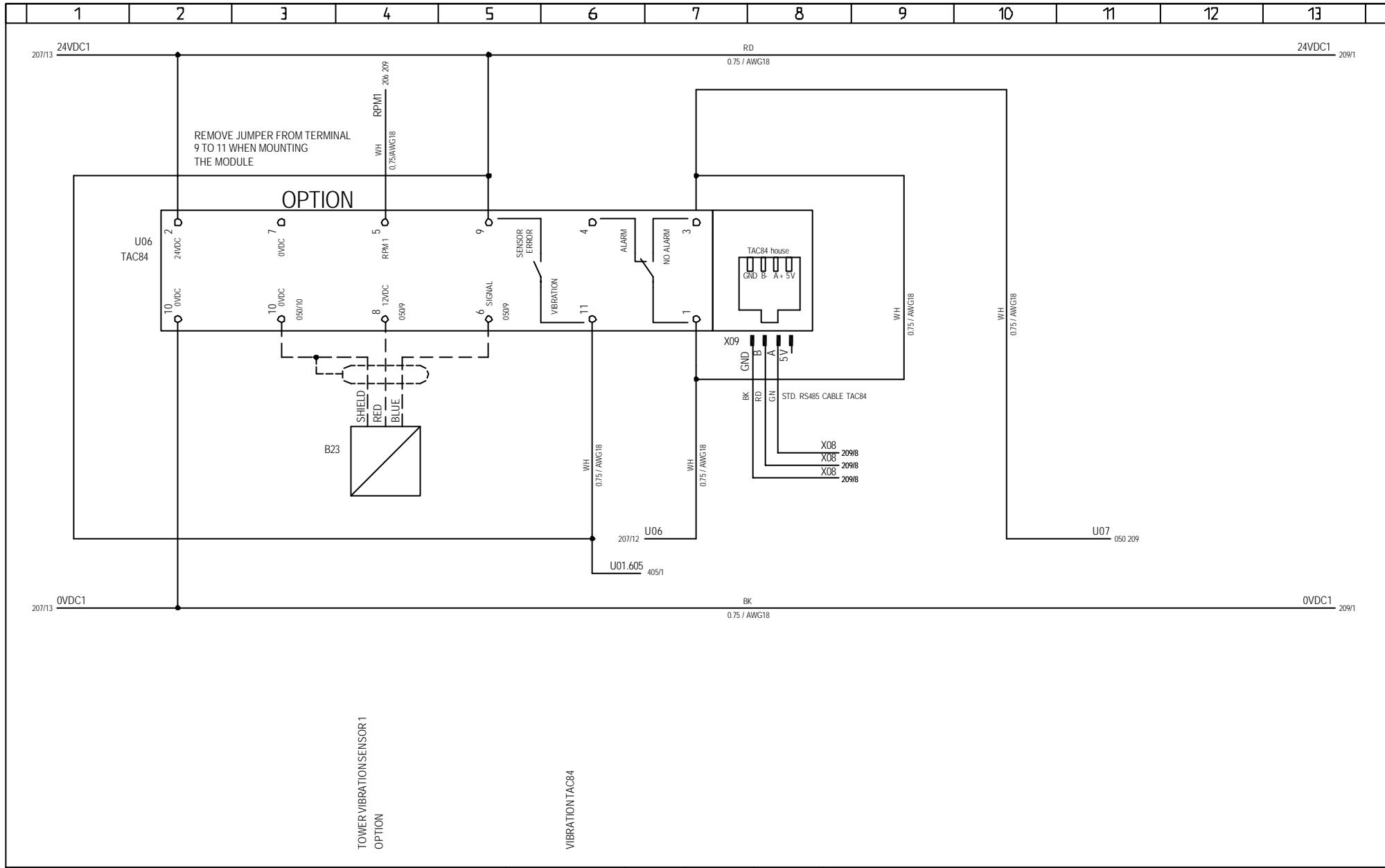
VIBRATION SENSOR

	Date	Initials	Function	Internal connections		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	207	Sheet	206



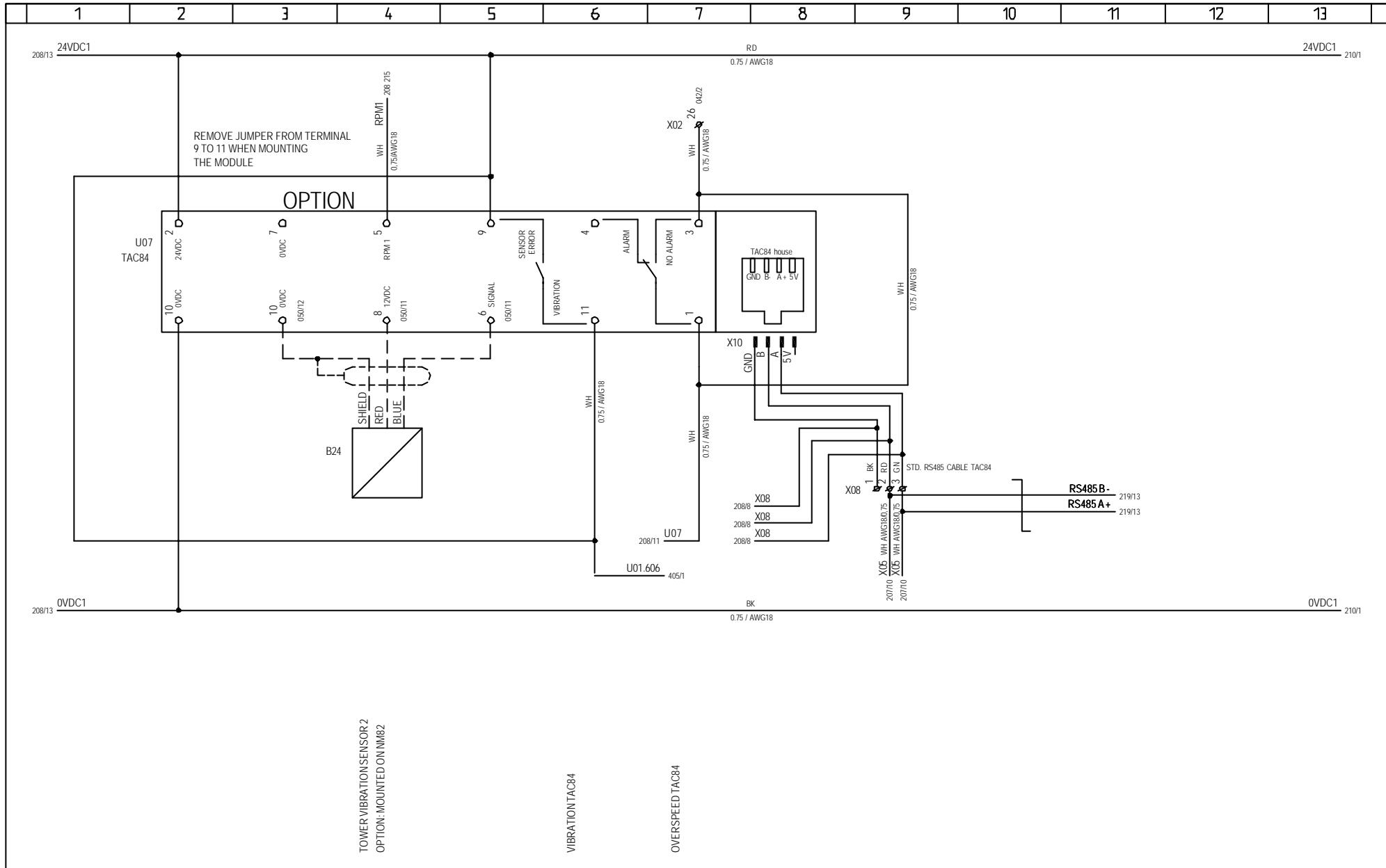
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	Date	Initials	Function	Internal connections						
Designed	030429	ATM	Project title	Top Box +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	208	Sheet	207



29.10.03

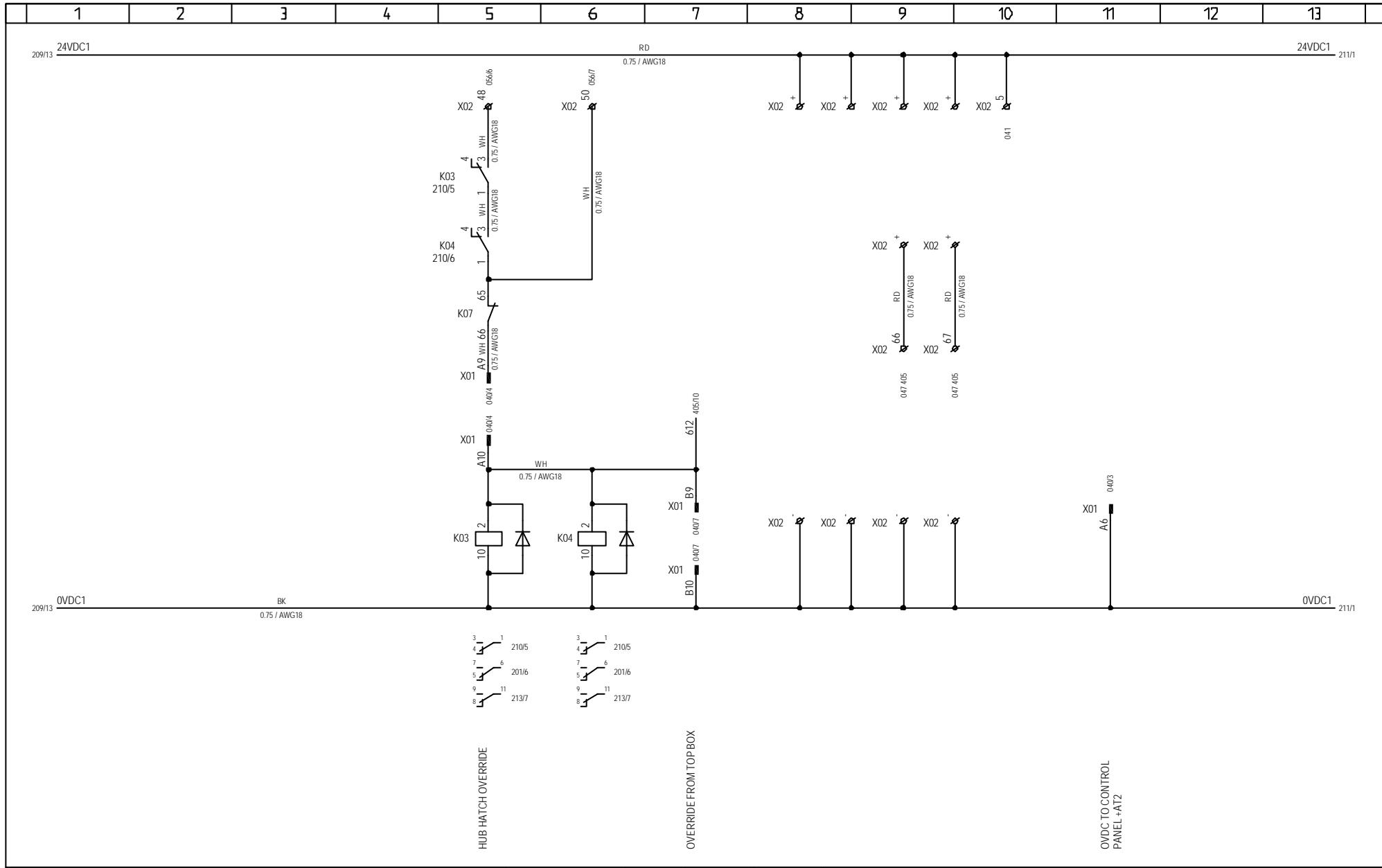
	Date	Initials	Function	Internal connections		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	209	Sheet	208



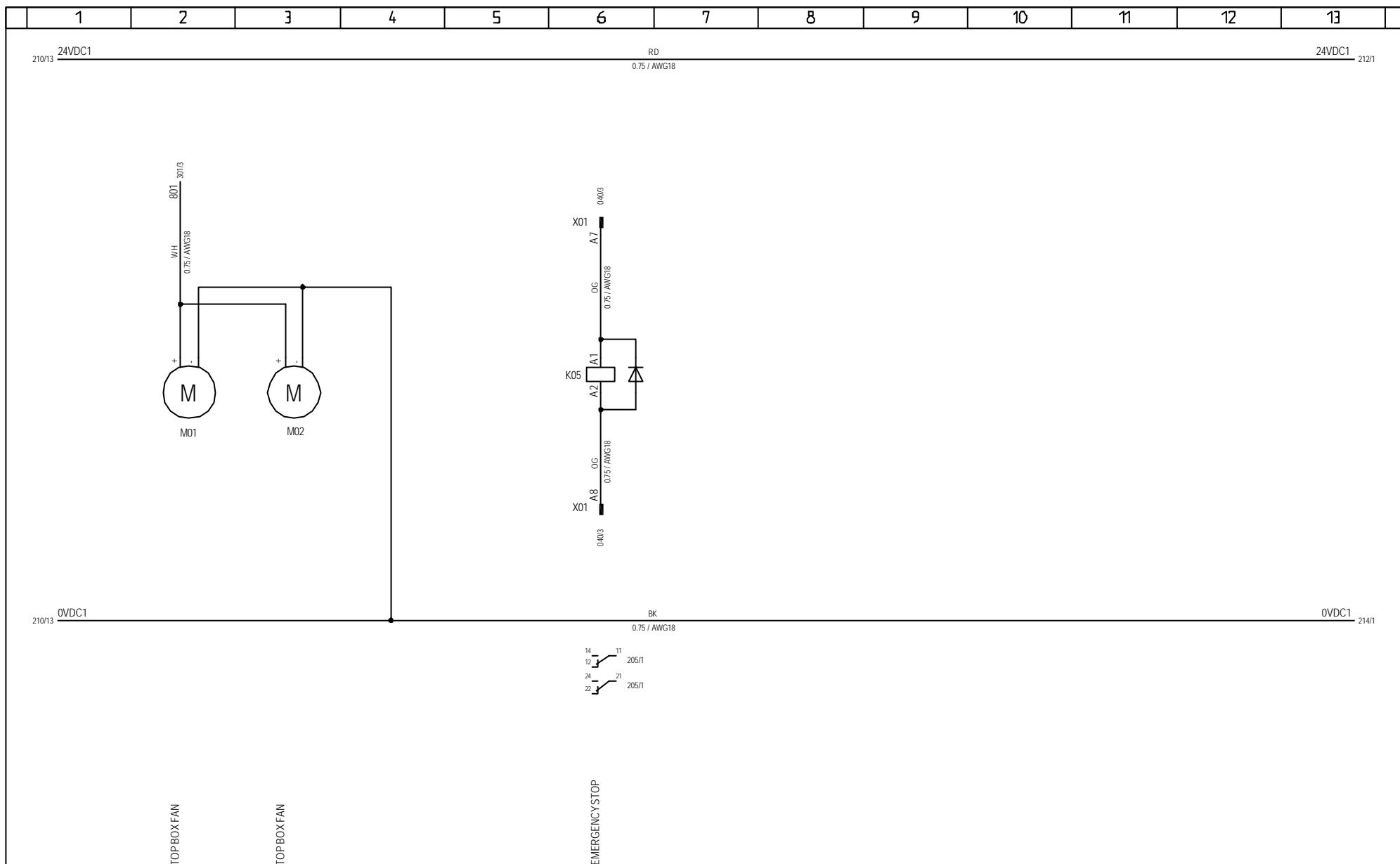
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	Date	Initials	Function	Internal connections				
designed	030429	ATM	Project title	Top Box +AN1				
approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S
eviced	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	210
							Sheet	209



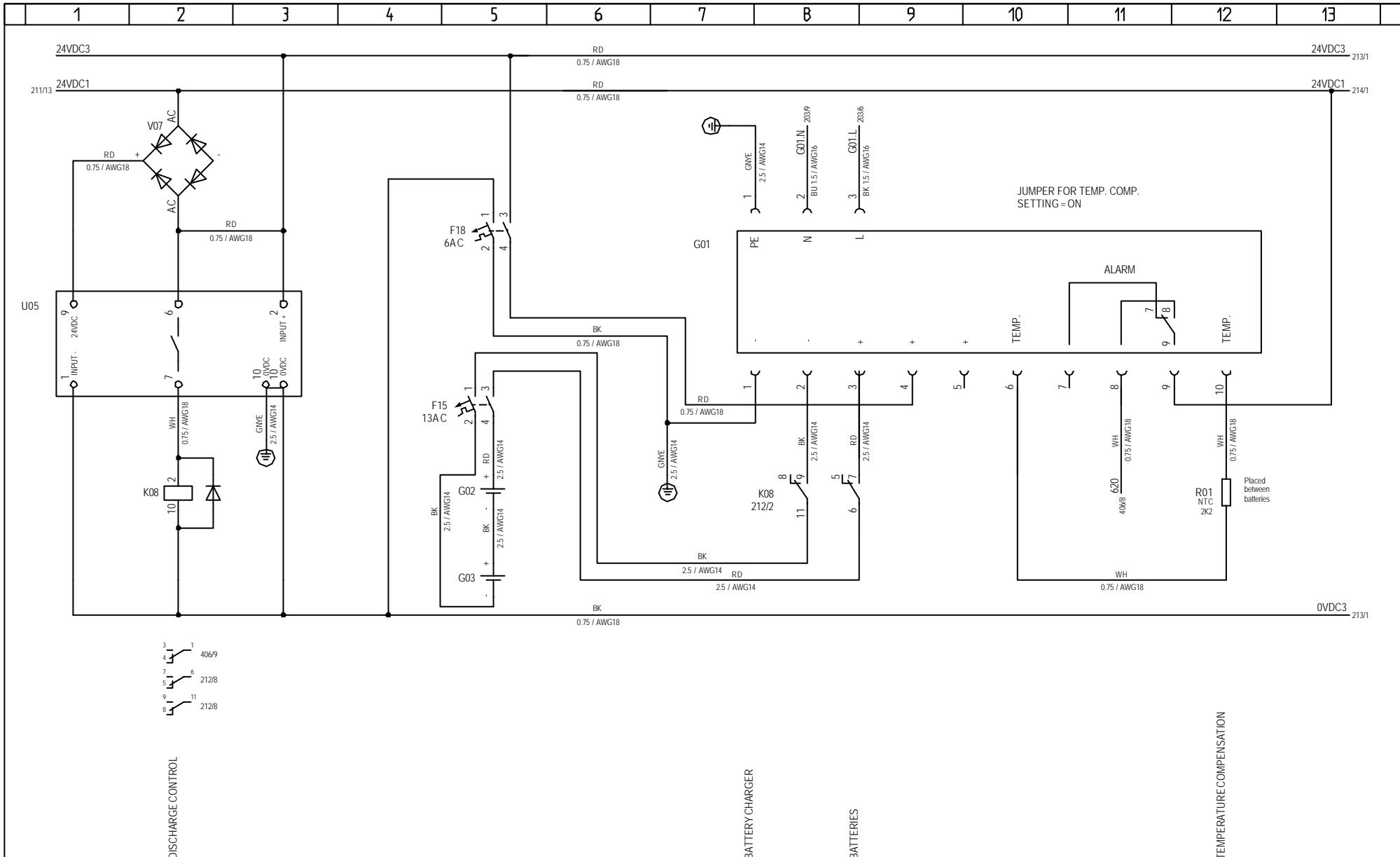
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Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	211	Sheet	210



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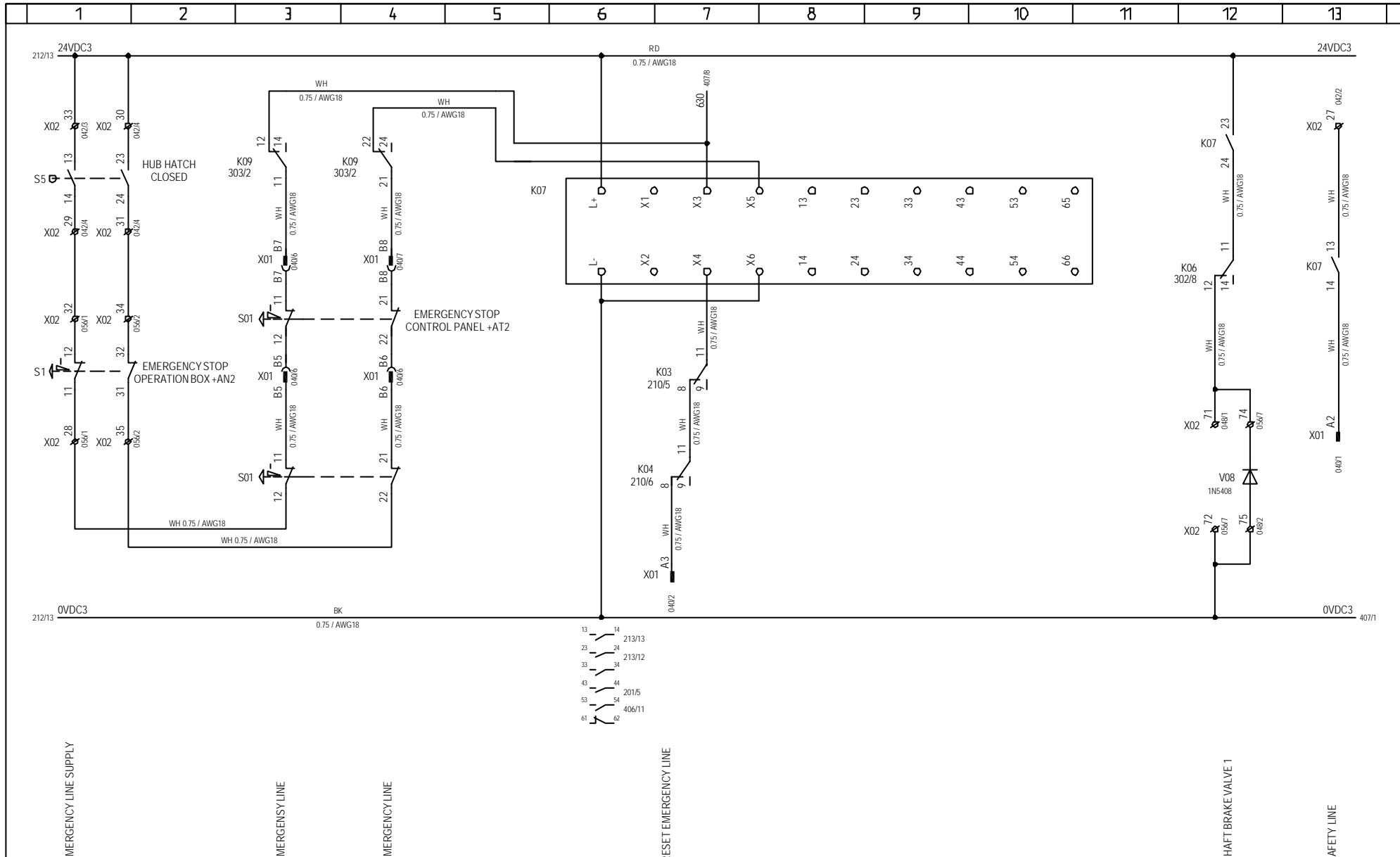
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Designed	030429	ATM	Project title	Top Box +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer	NEG Micon A/S			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	212	Sheet	211



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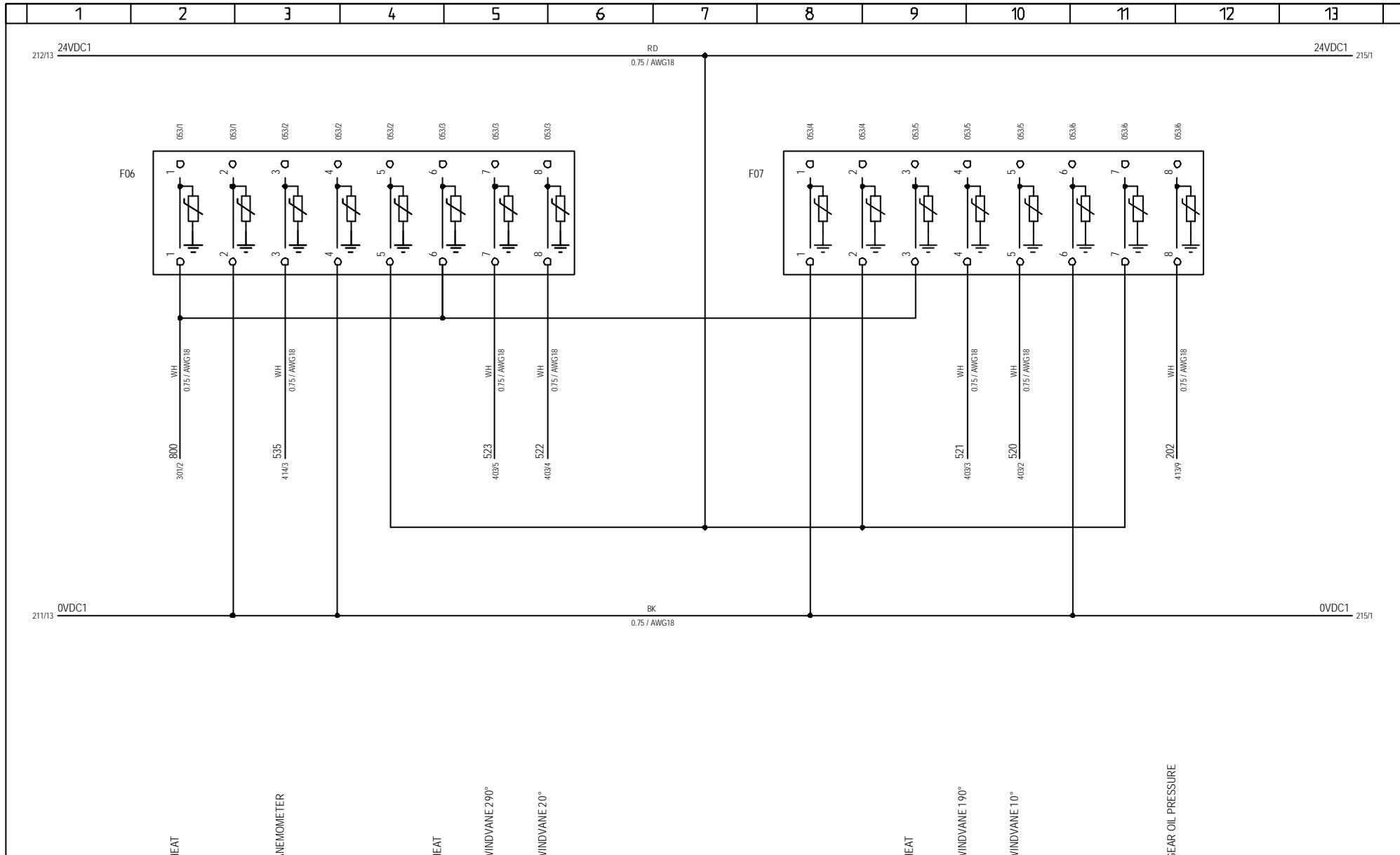
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	Date	Initials	Function	Internal connections	
Designed	030429	ATM	Project title	Top Box +AN1	
Approved			Comments	NM72 IEC I & NM82 IEC III	Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no. 6010123
			Cont. sheet	213	Sheet 212



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	Date	Initials	Function	Internal connections						
Designed	030429	ATM	Project title	Top Box +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	214	Sheet	213

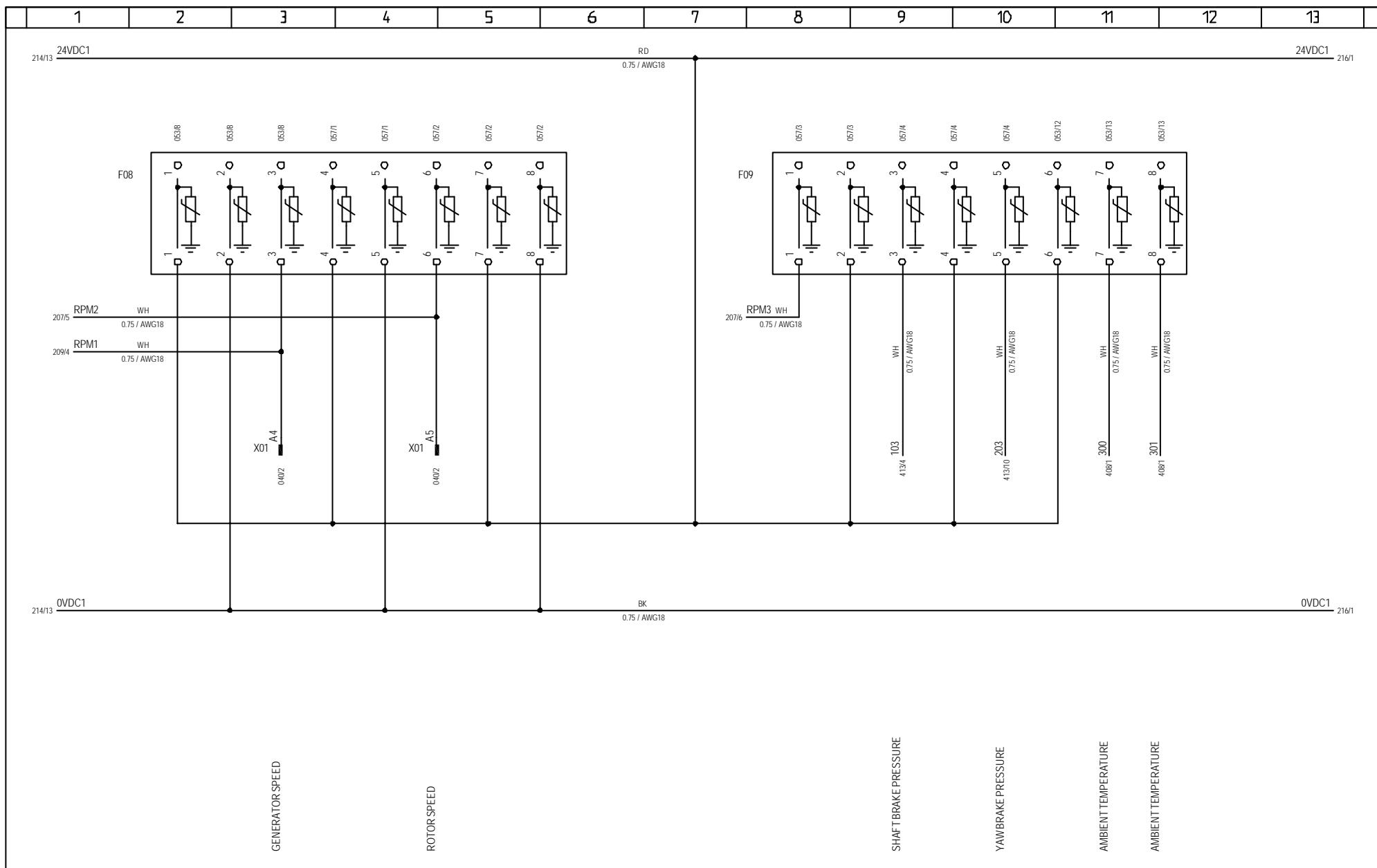


29.10.03



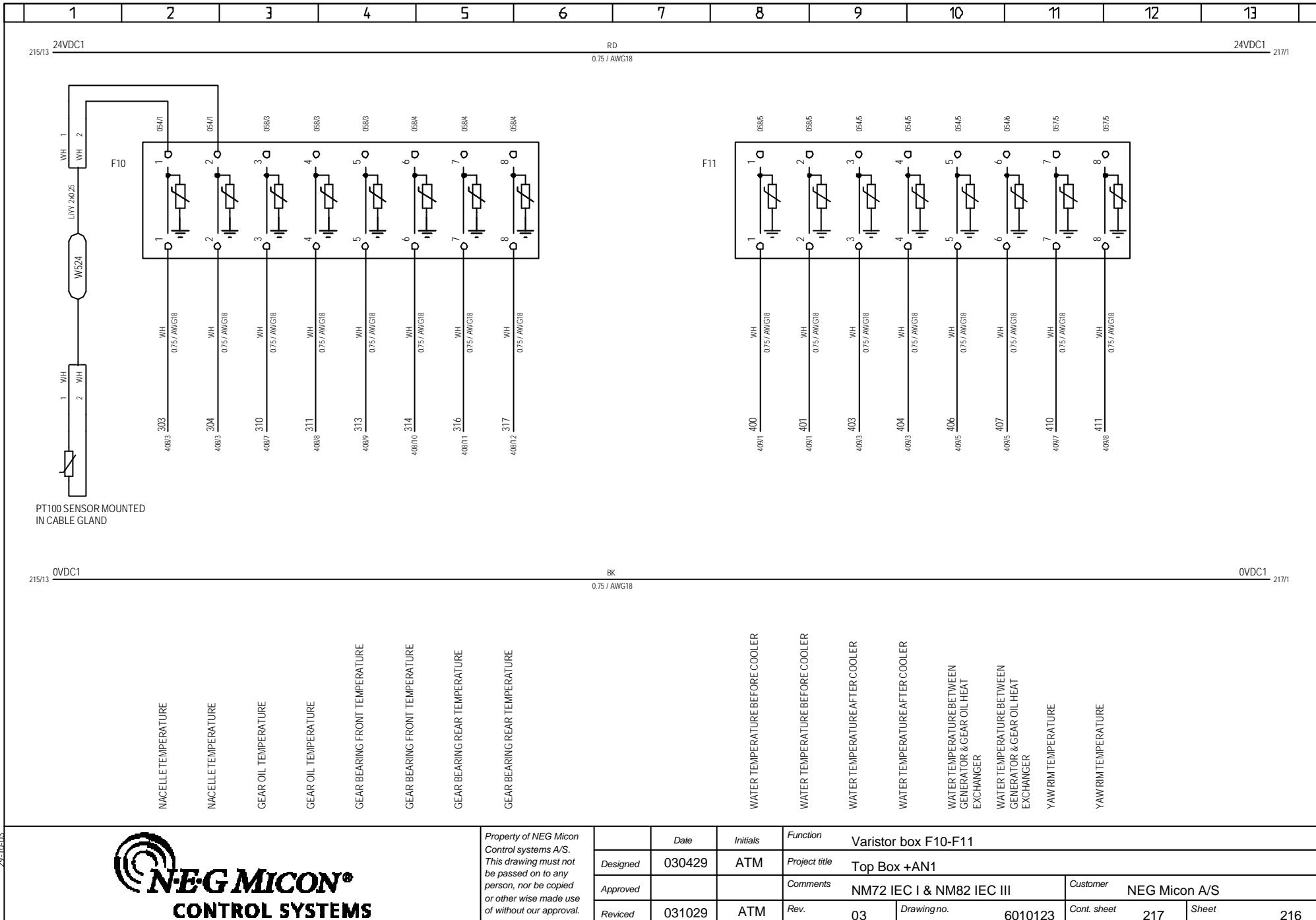
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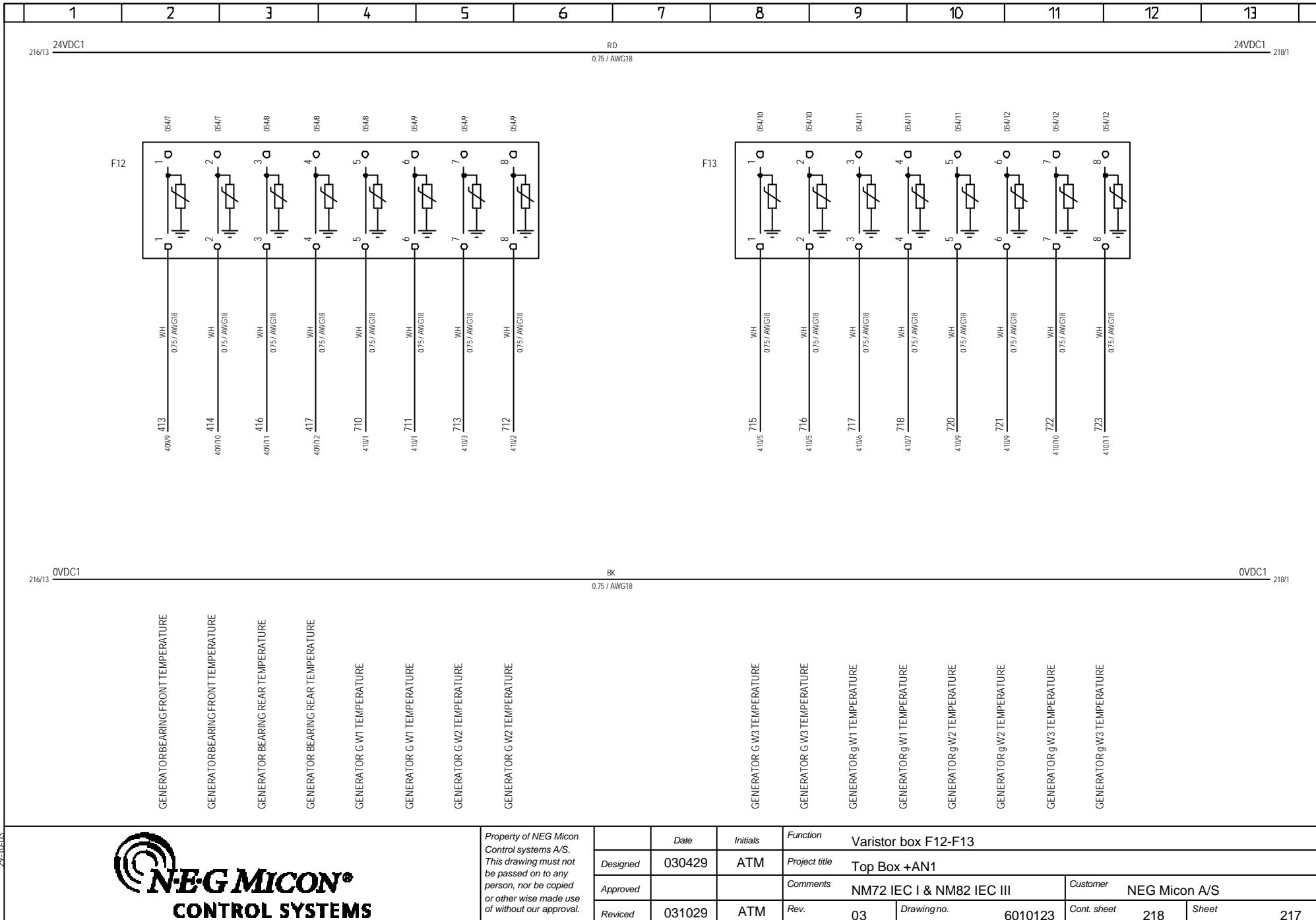
	Date	Initials	Function	Varistor box F06-F07			
Designed	030429	ATM	Project title	Top Box +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Customer NEG Micon A/S
			Cont. sheet	215	Sheet	214	



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	Designed	030429	ATM	Project title Top Box +AN1						
	Approved			Comments NM72 IEC I & NM82 IEC III			Customer NEG Micon A/S			
	Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	216	Sheet



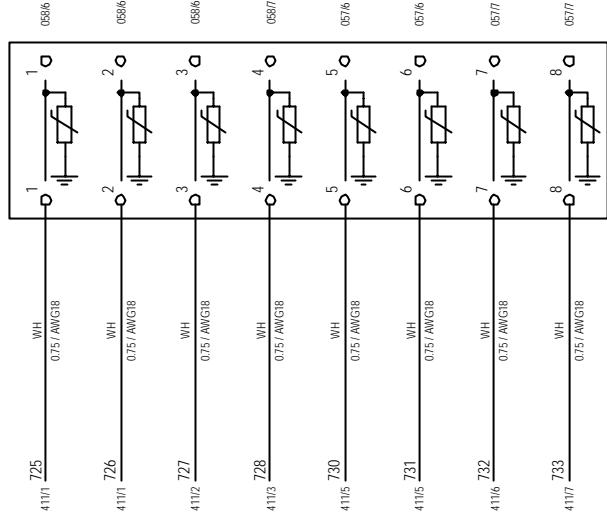


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217/13 24VDC1

24VDC1 301/1

F27



217/13 0VDC1

0VDC1 301/1

INTERM GEAR FRONT TEMPERATURE

INTERM GEAR FRONT TEMPERATURE

INTERM GEAR REAR TEMPERATURE

INTERM GEAR REAR TEMPERATURE

TEMP - MAIN BEARING OIL

TEMP - MAIN BEARING OIL

TEMP - MAIN BEARING

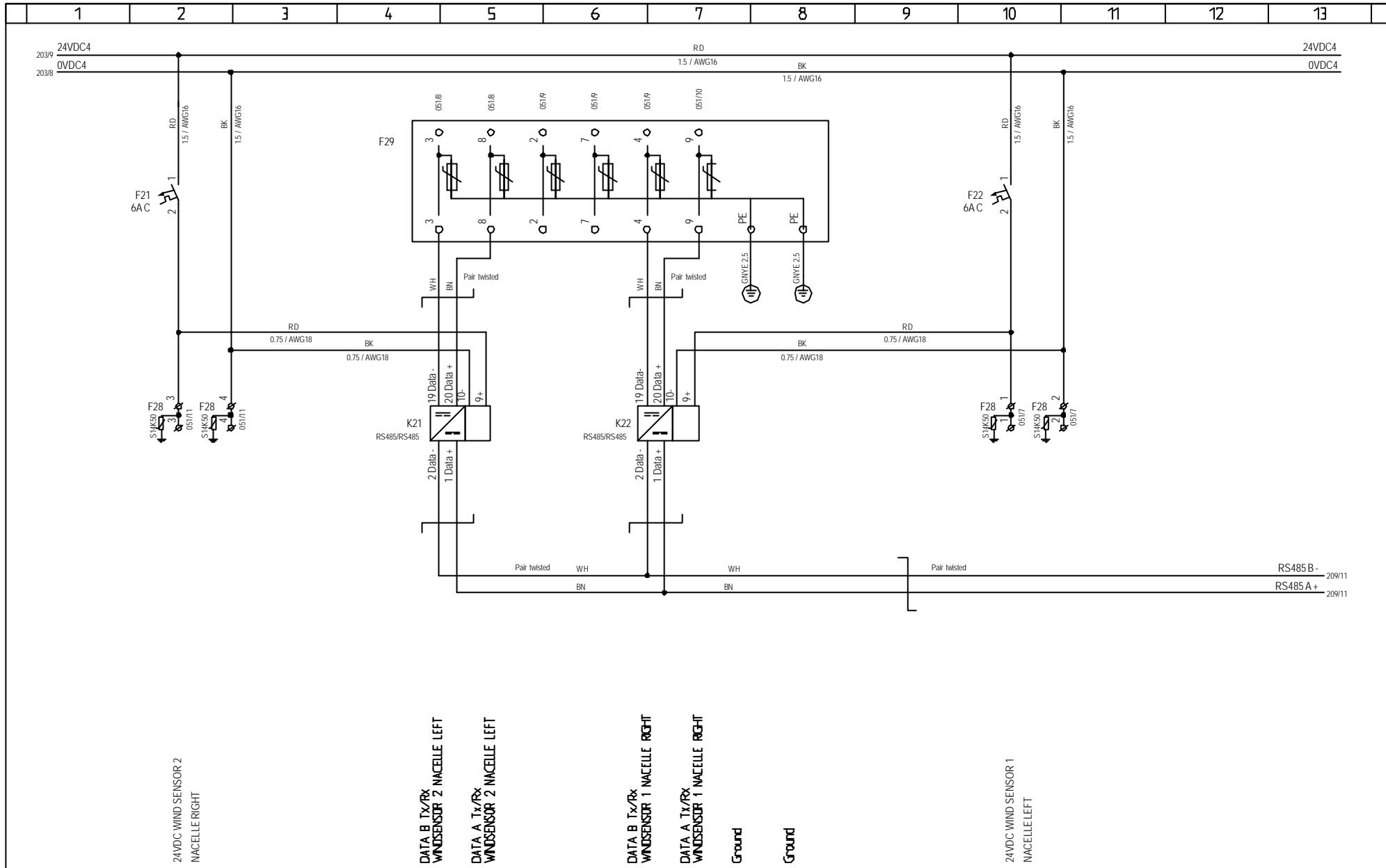
TEMP - MAIN BEARING

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	Date	Initials	Function	Varistor box F27		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	219	Sheet	218

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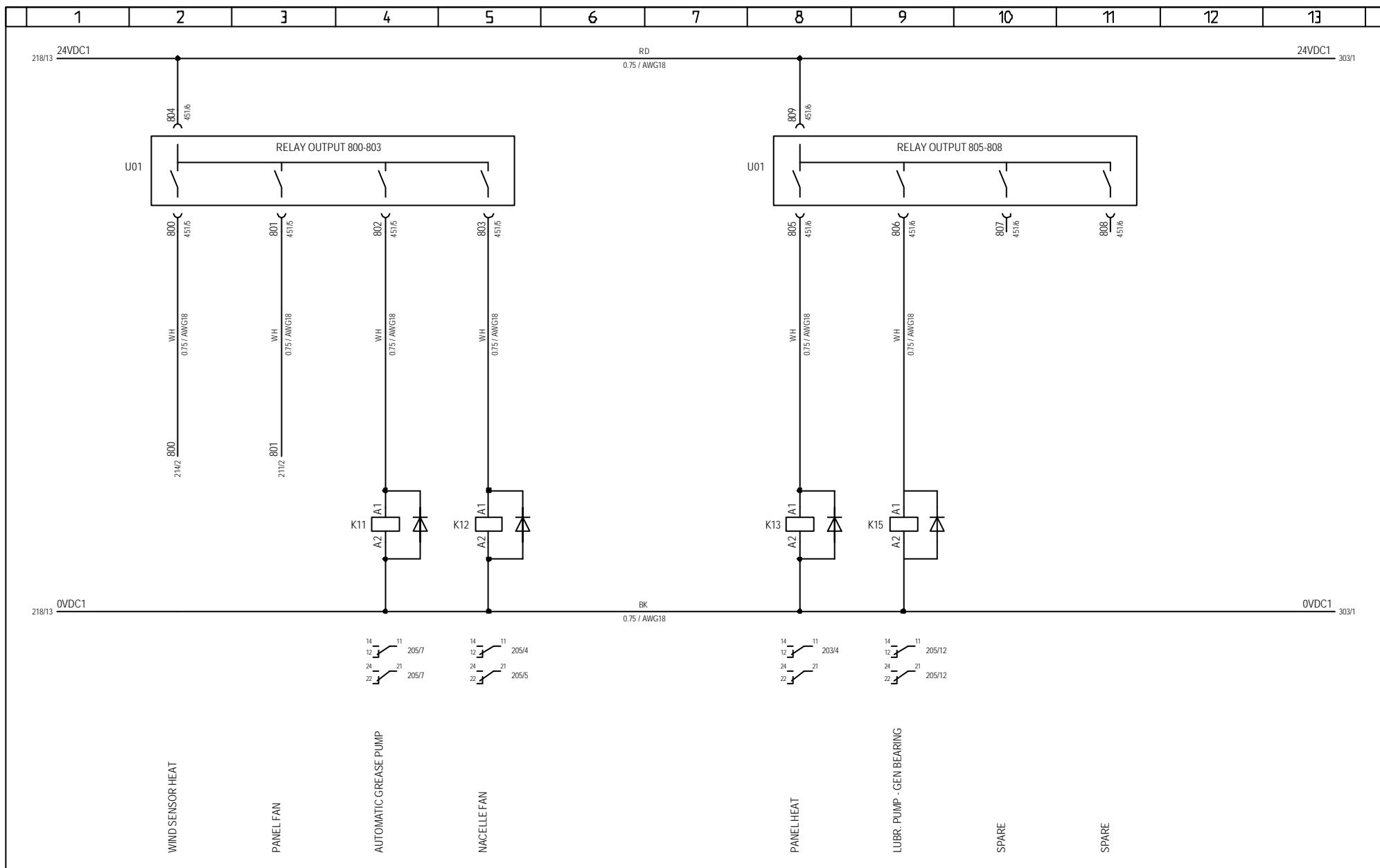




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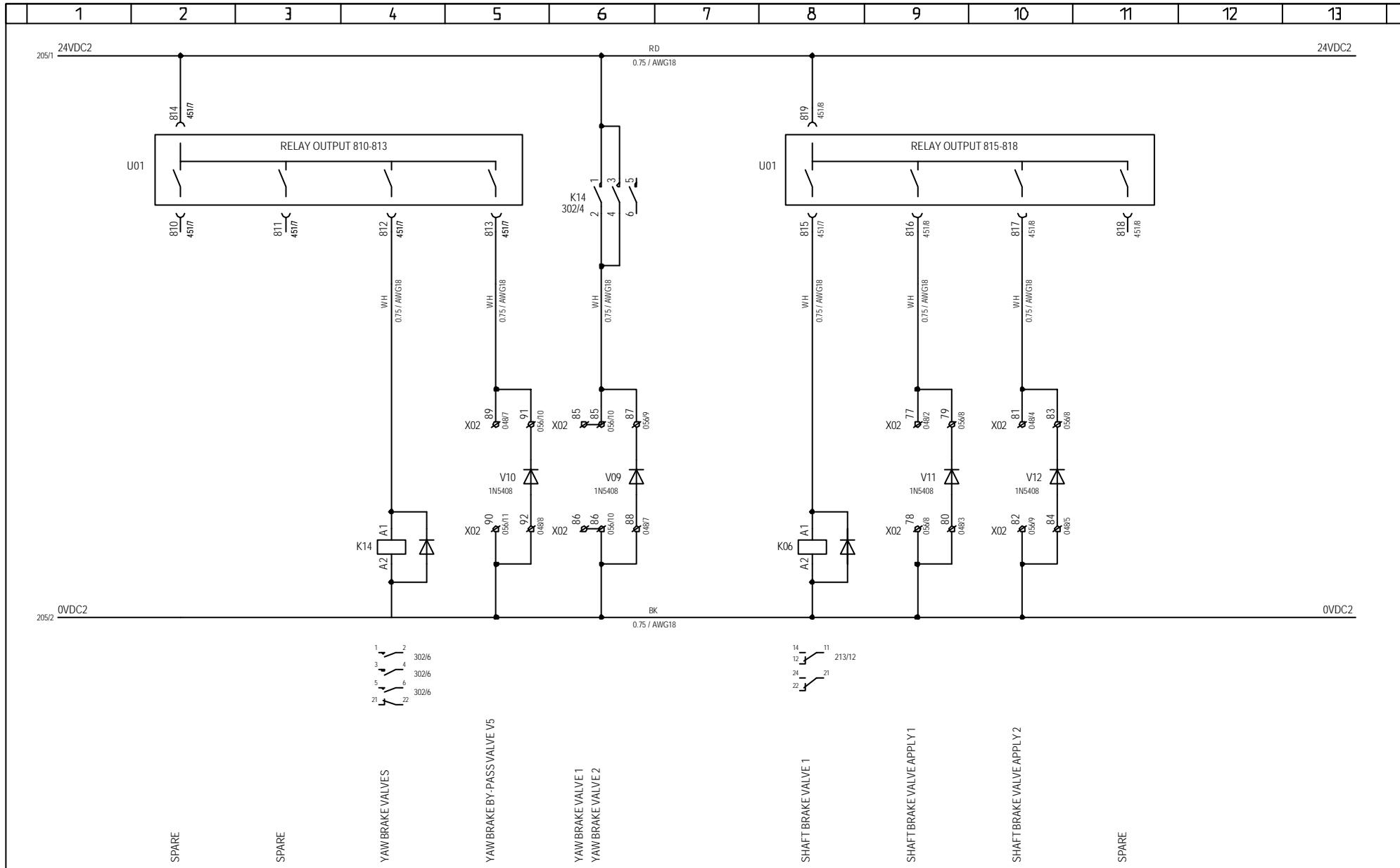
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Designed	030429	ATM	Project title Top Box +AN1							
Approved			Comments NM72 IEC I & NM82 IEC III			Customer NEG Micon A/S				
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	301	Sheet	219



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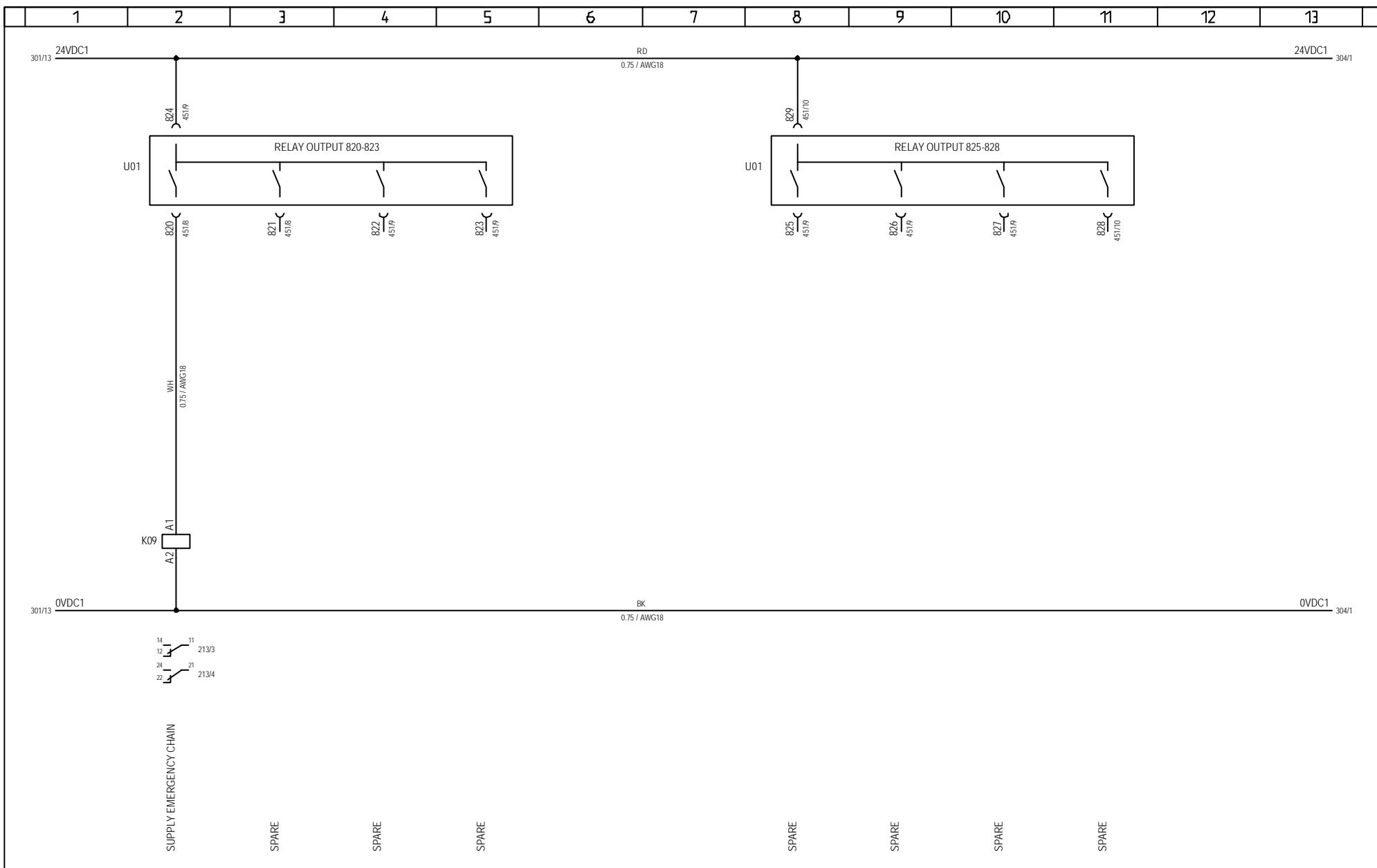
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	Date	Initials	Function	Output 800-809						
Designed	030429	ATM	Project title	Top Box +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Reviced	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	302	Sheet	301



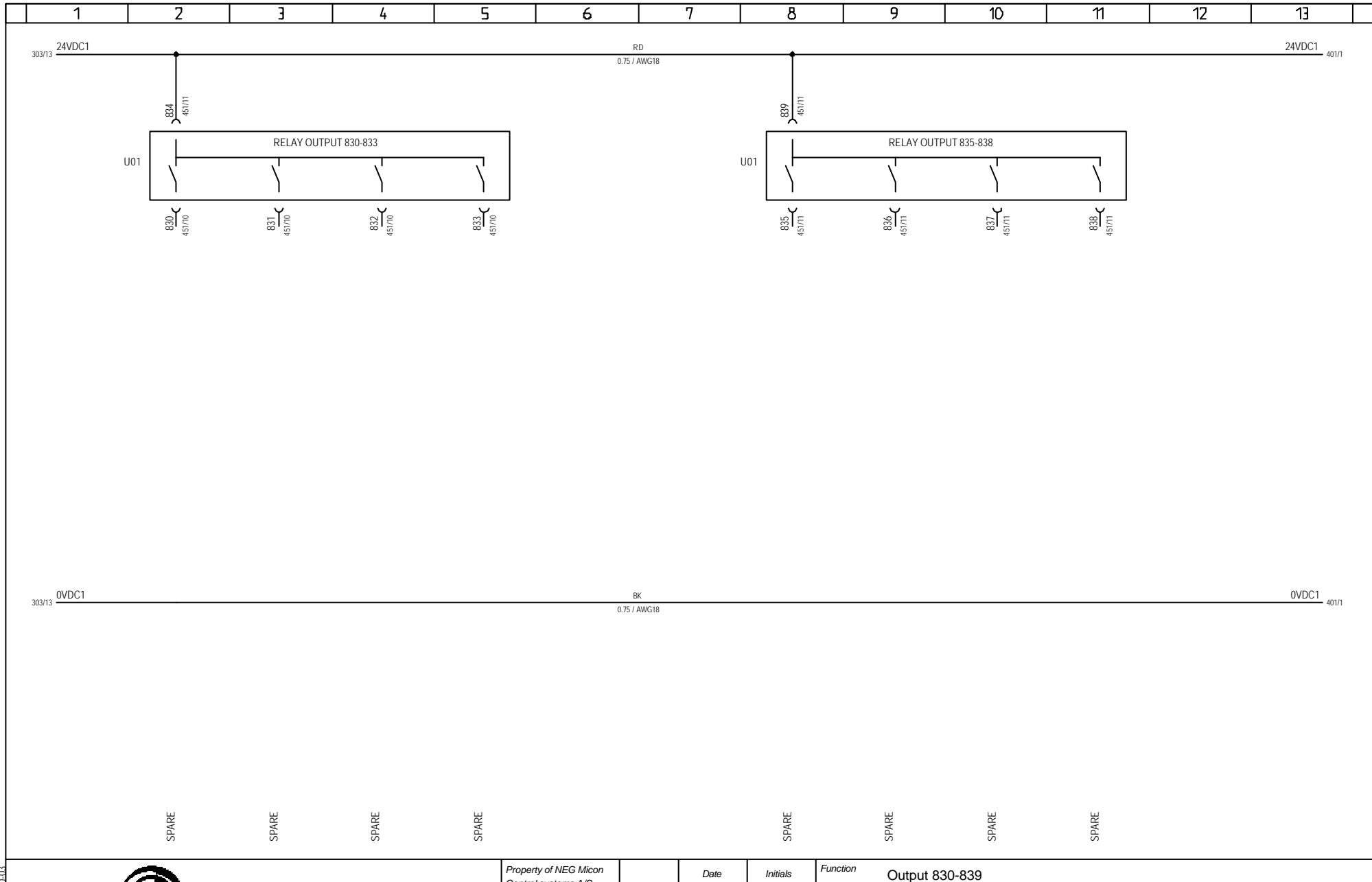
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	Designed	030429	ATM	Project title	Top Box +AN1					
	Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S	
	Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	303	Sheet



09-10-03

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	Designed	030429	ATM	Project title	Top Box +AN1					
	Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S	
	Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	304	Sheet

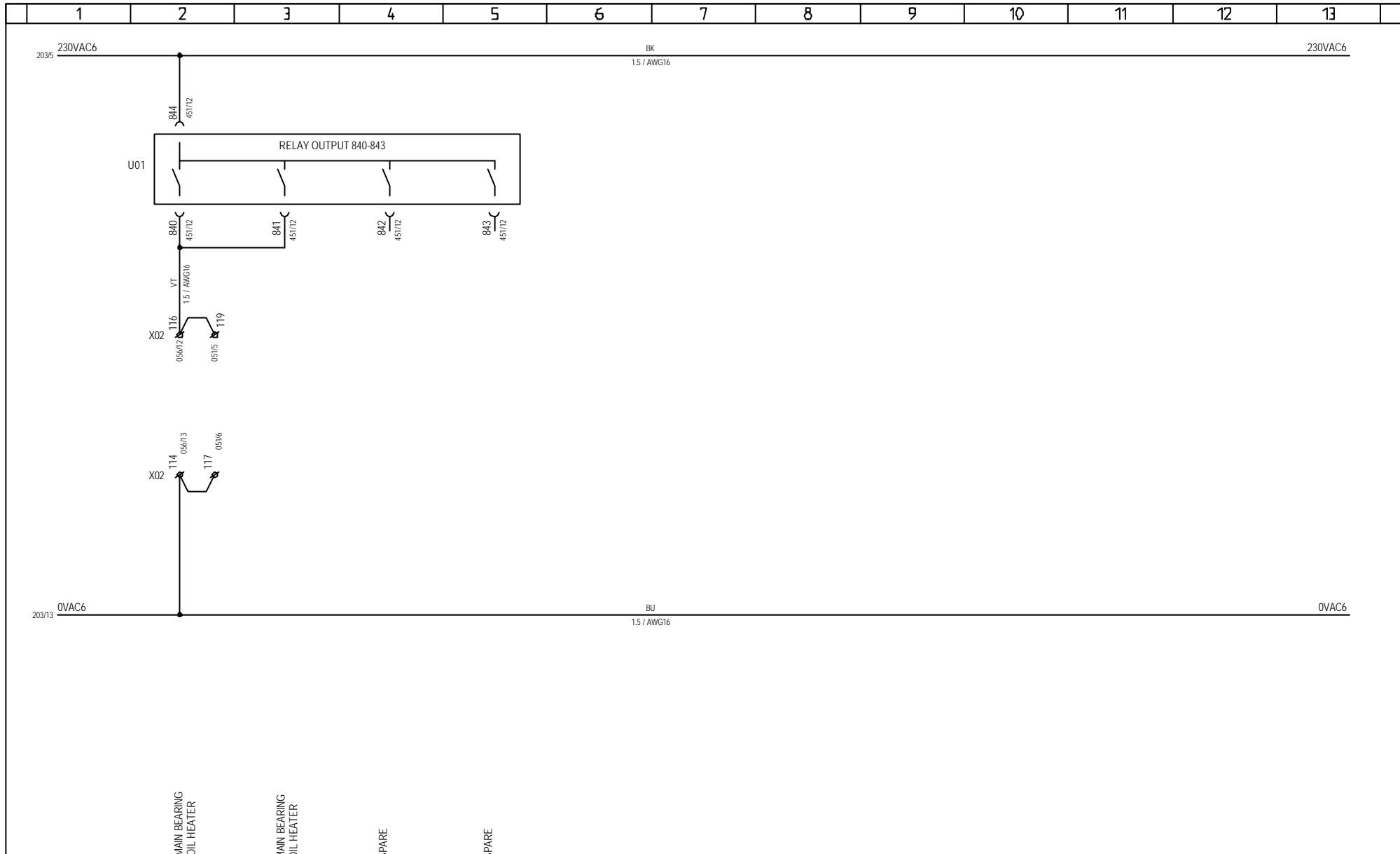


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	Date	Initials	Function	Output 830-839		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	305	Sheet	304

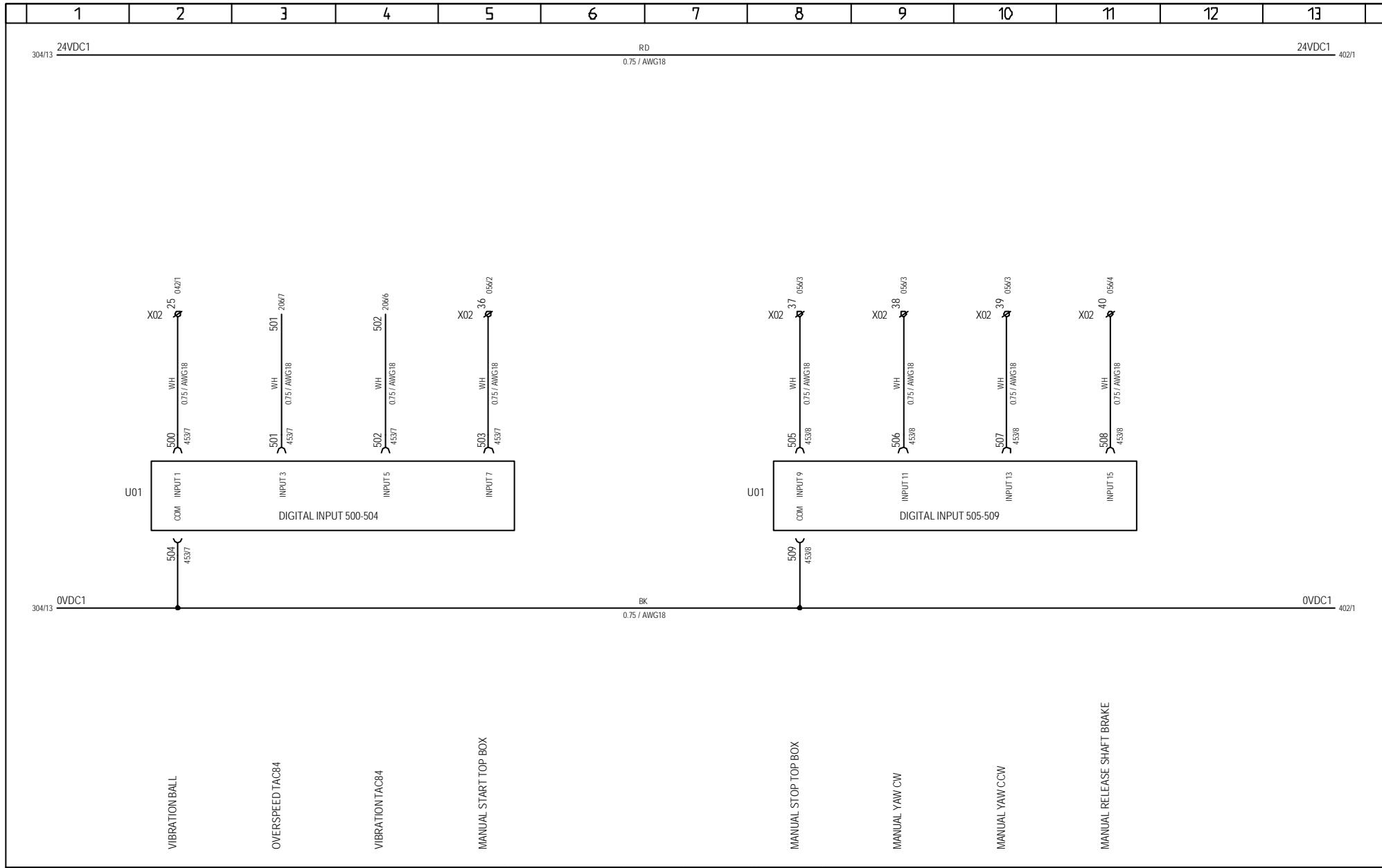


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Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	401	Sheet	305

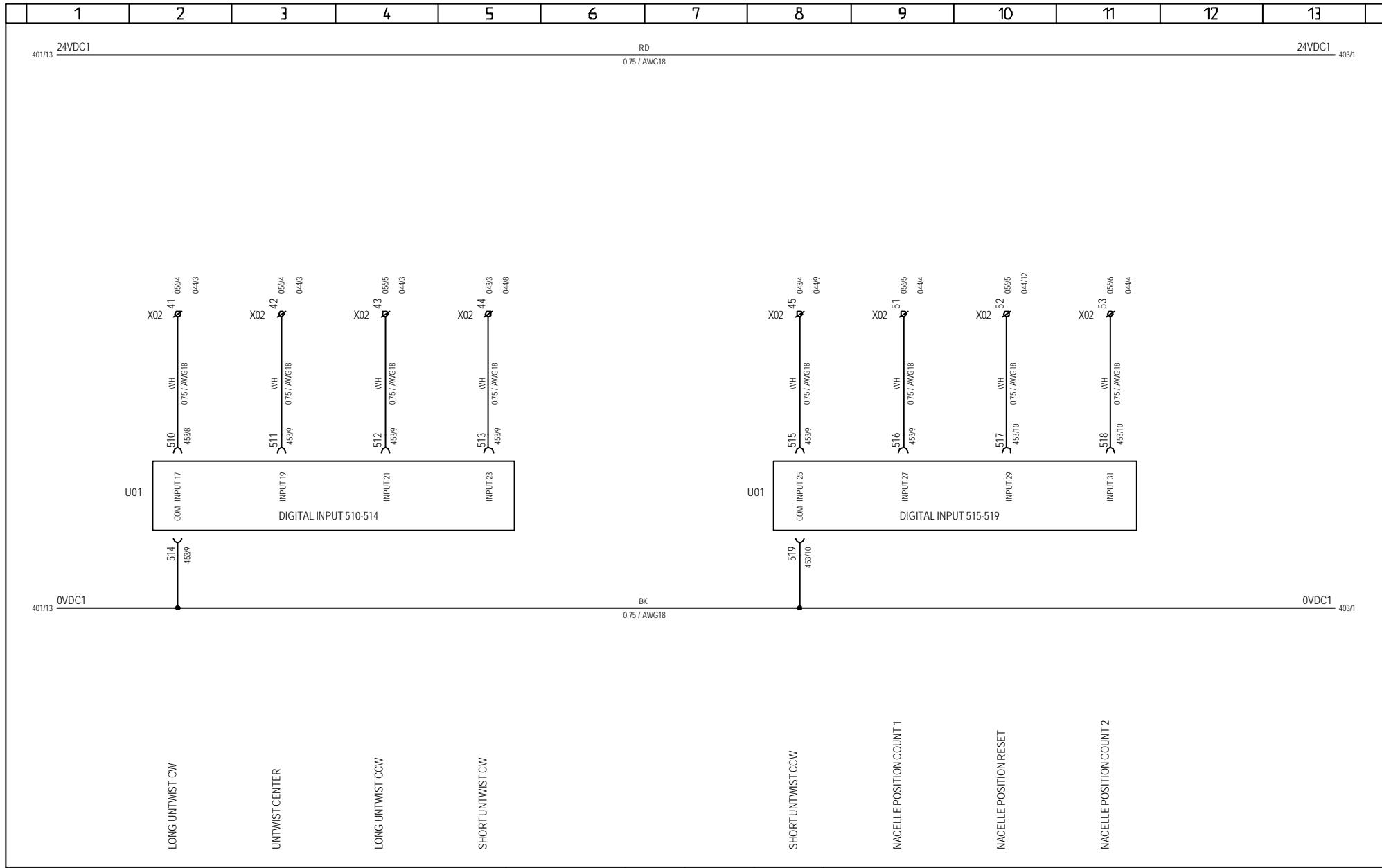


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	Date	Initials	Function	Input 500-509			
Designed	030429	ATM	Project title	Top Box +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet 402 Sheet 401

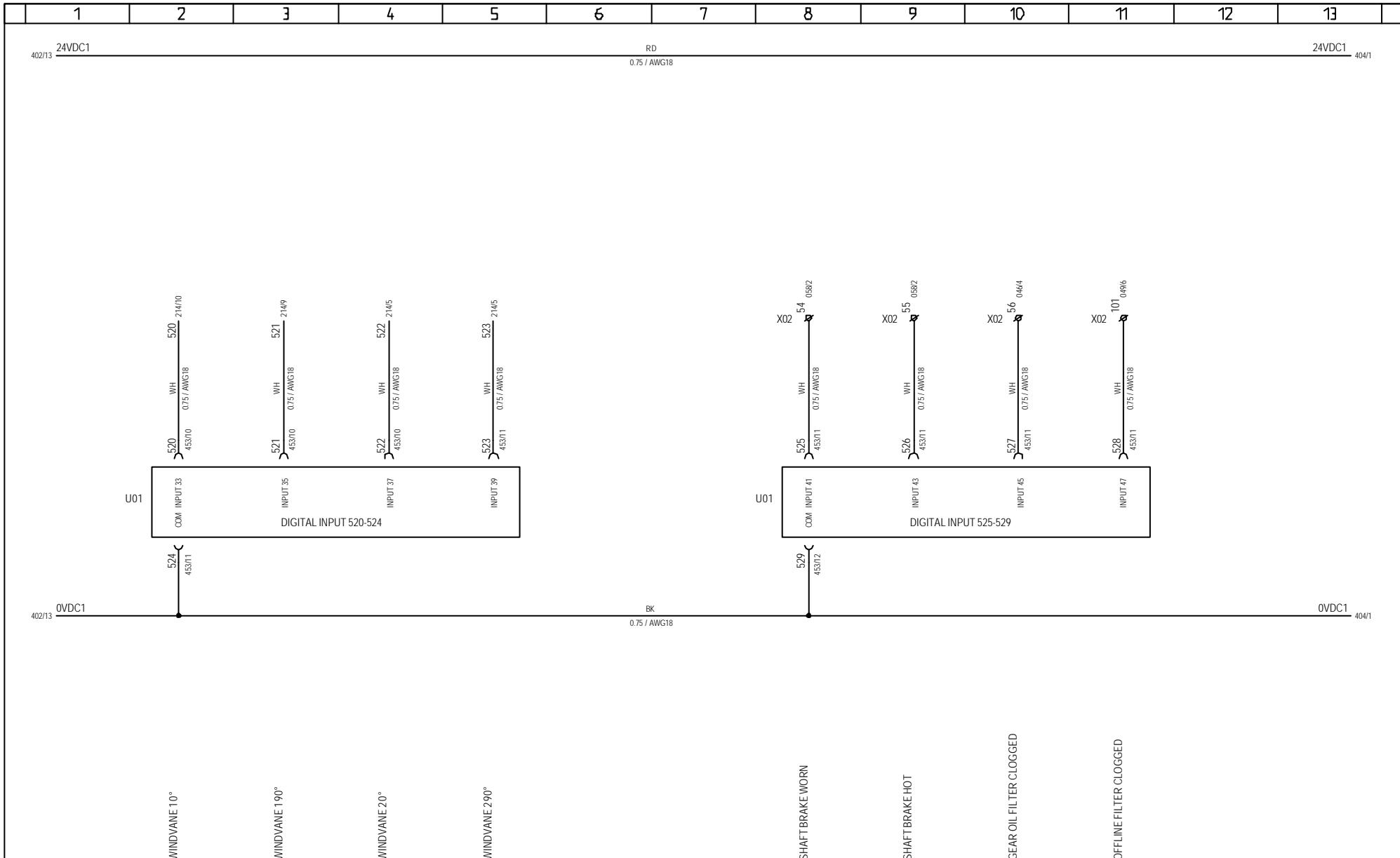


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Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
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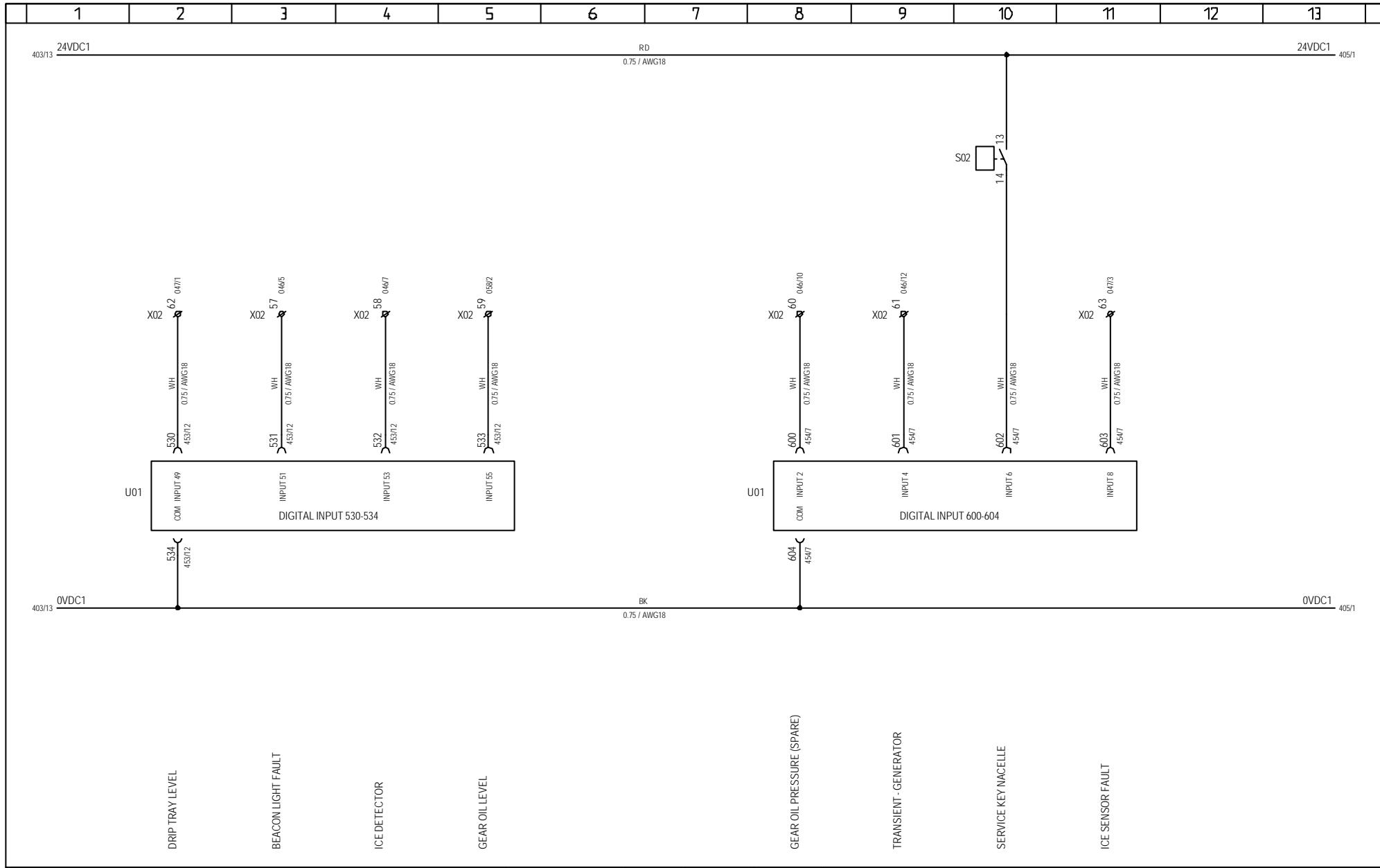


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	Date	Initials	Function	Input 520-529		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	404	Sheet	403

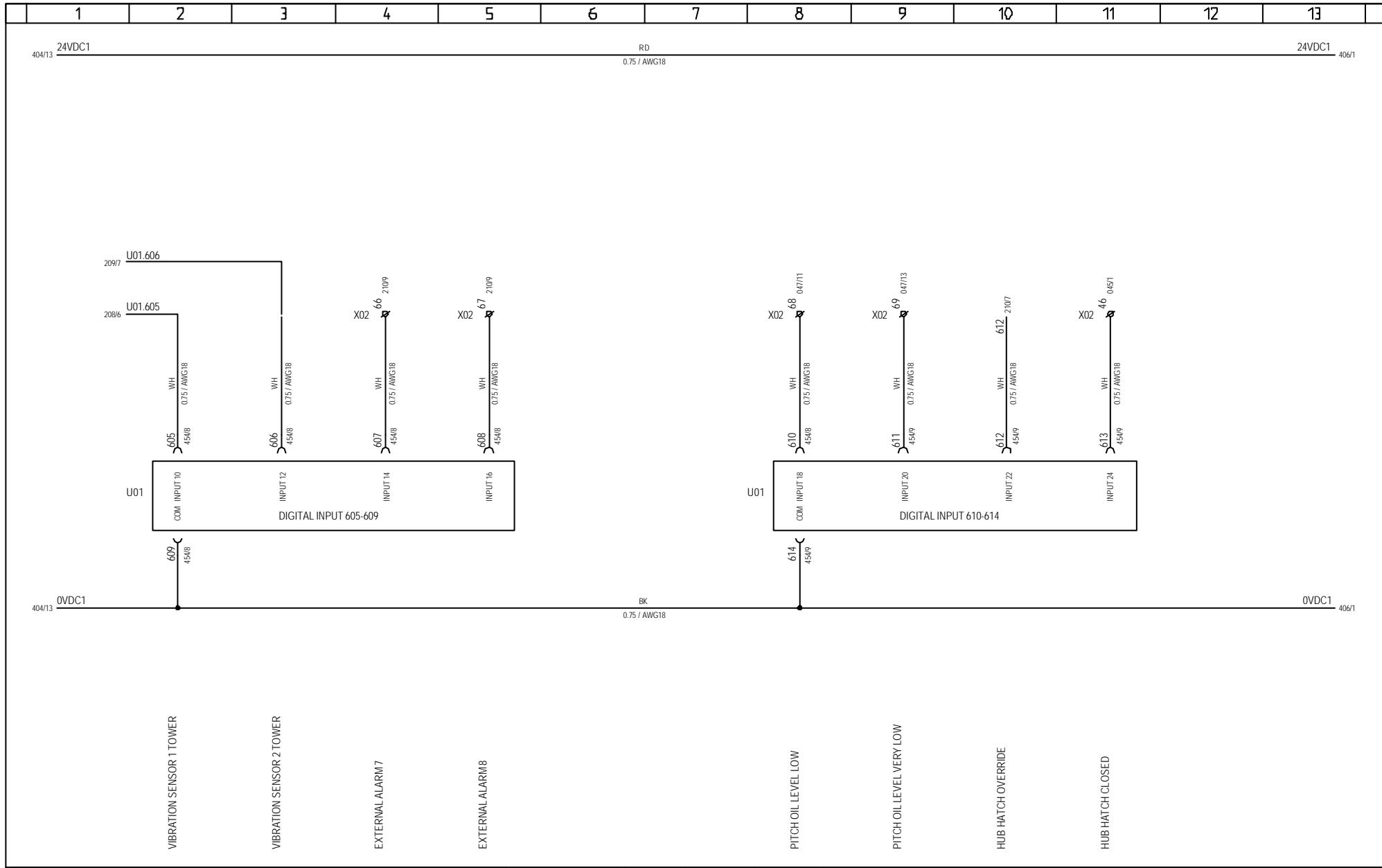


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	Date	Initials	Function	Input 530-604			
Designed	030429	ATM	Project title	Top Box +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III			
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Customer NEG Micon A/S Cont. sheet 405 Sheet 404

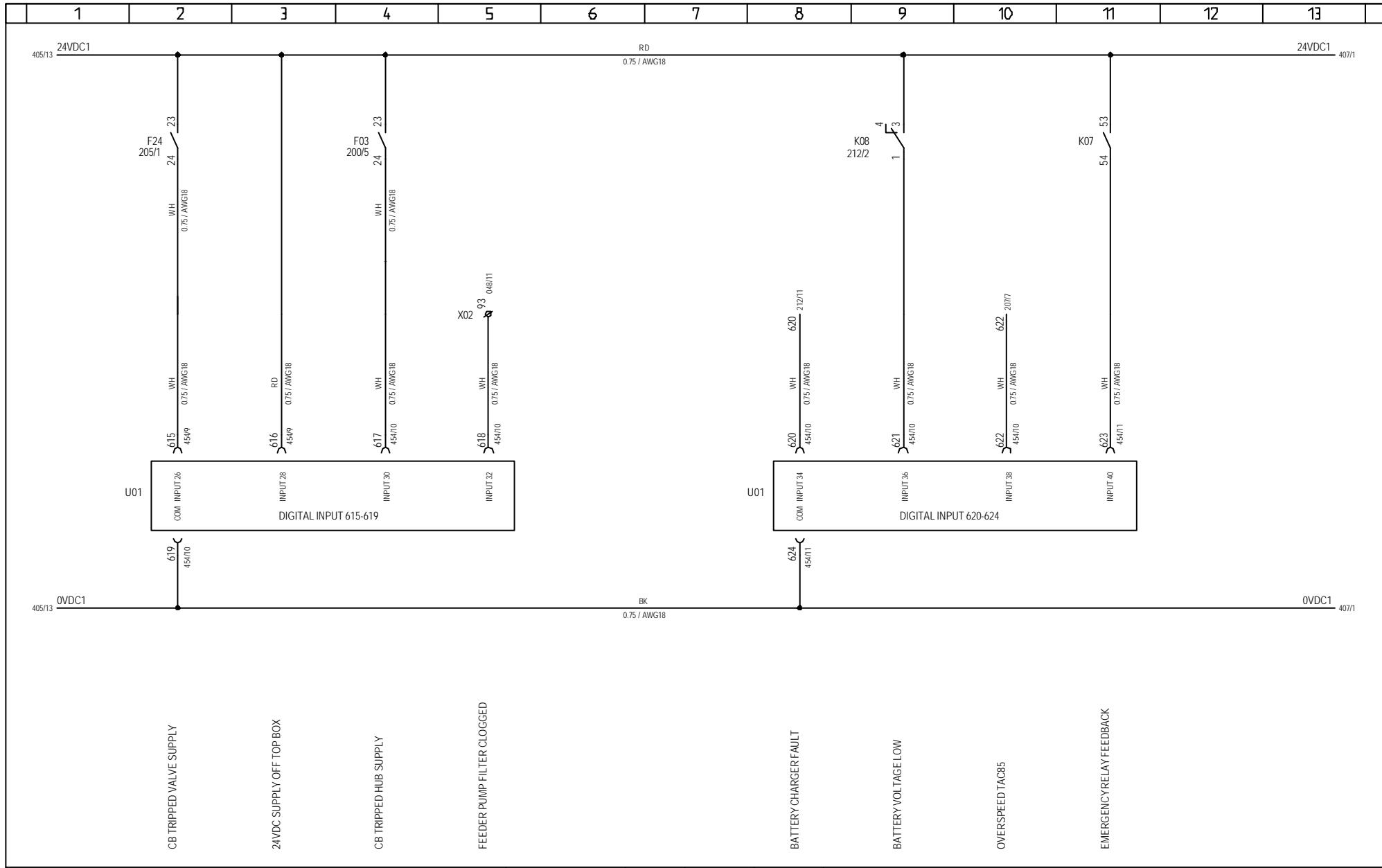


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Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	406	Sheet	405

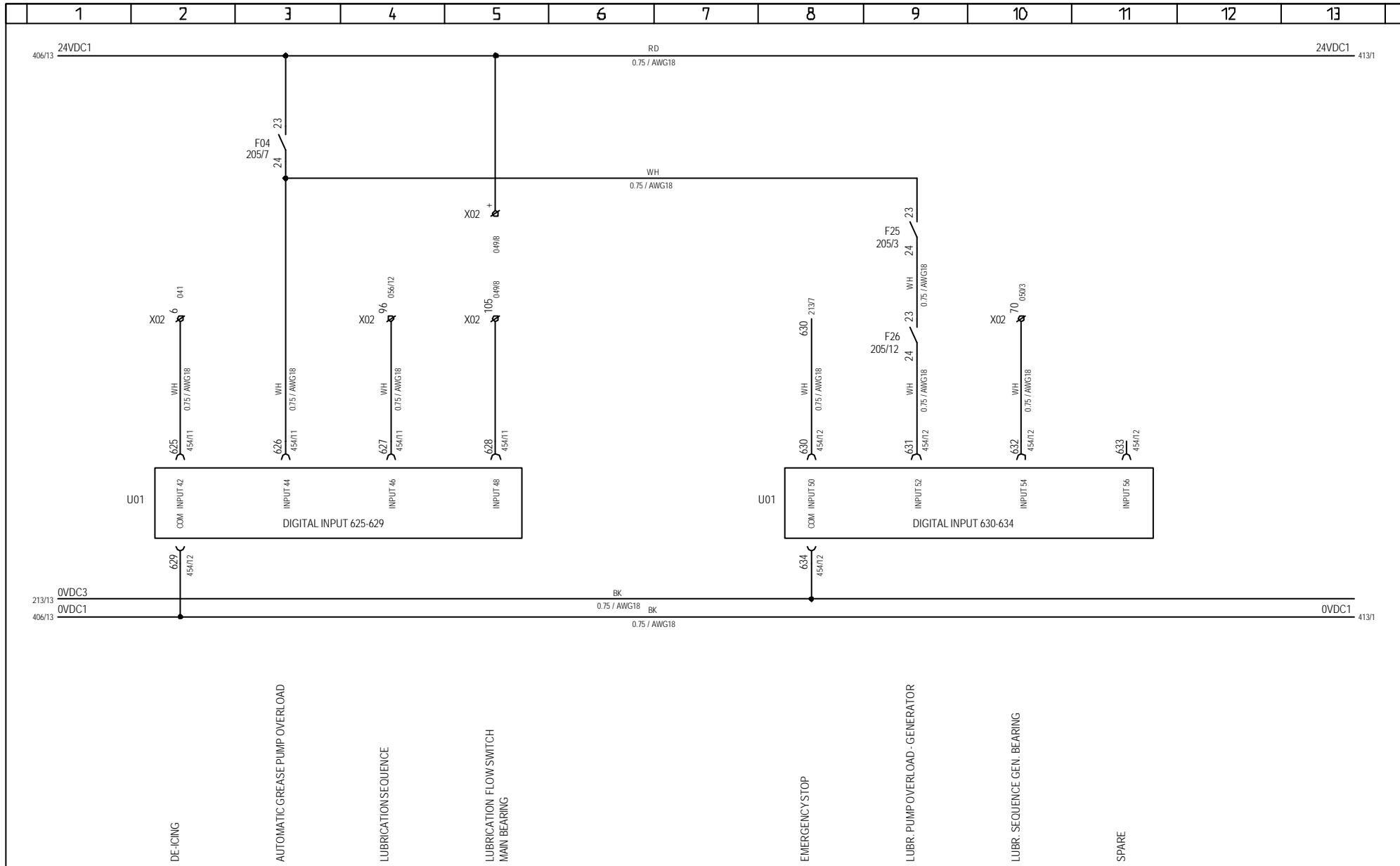


29.10.03



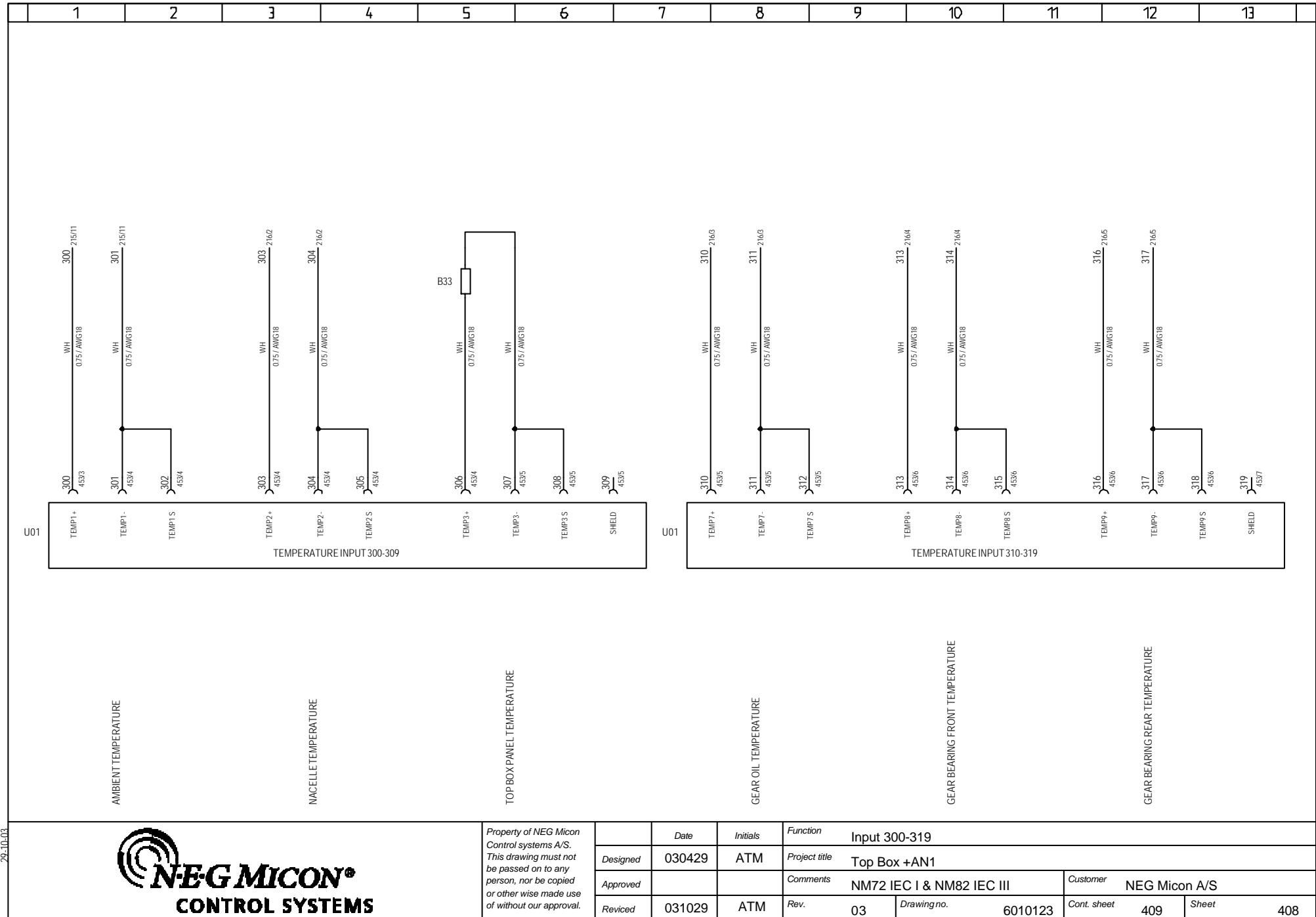
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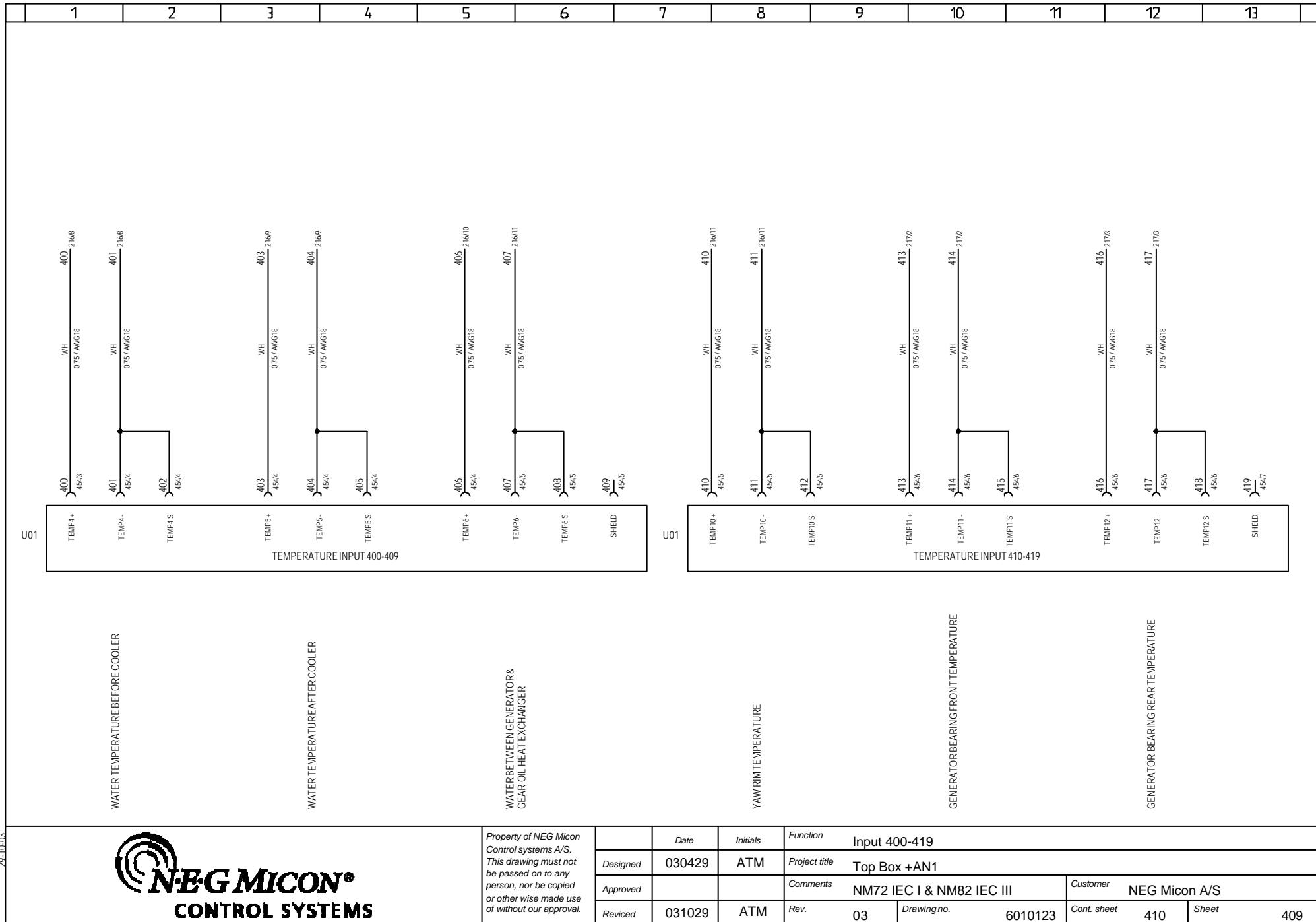
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Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	407	Sheet	406



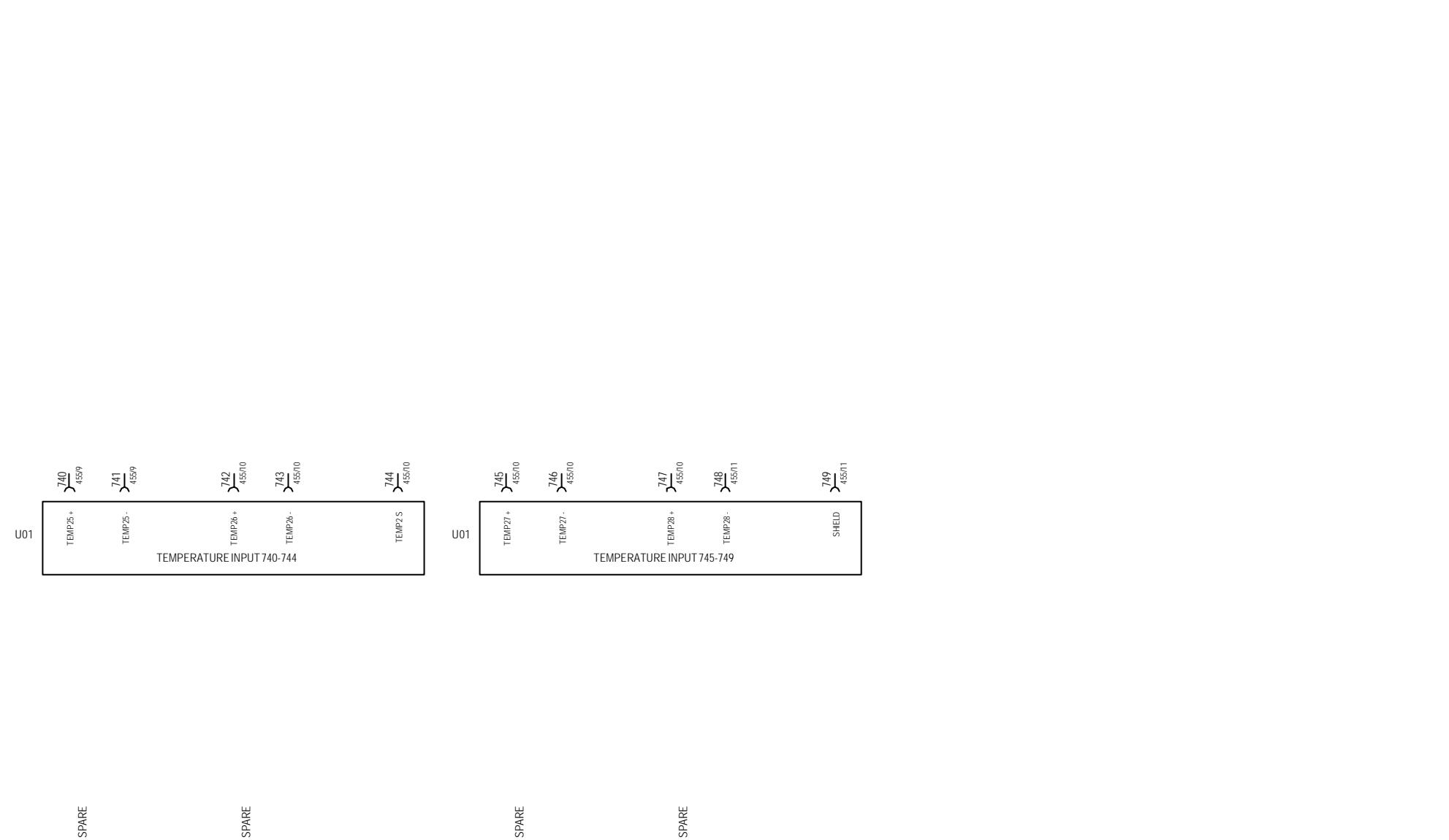
29-1003

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	Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S	
	Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	408	Sheet





1	2	3	4	5	6	7	8	9	10	11	12	13
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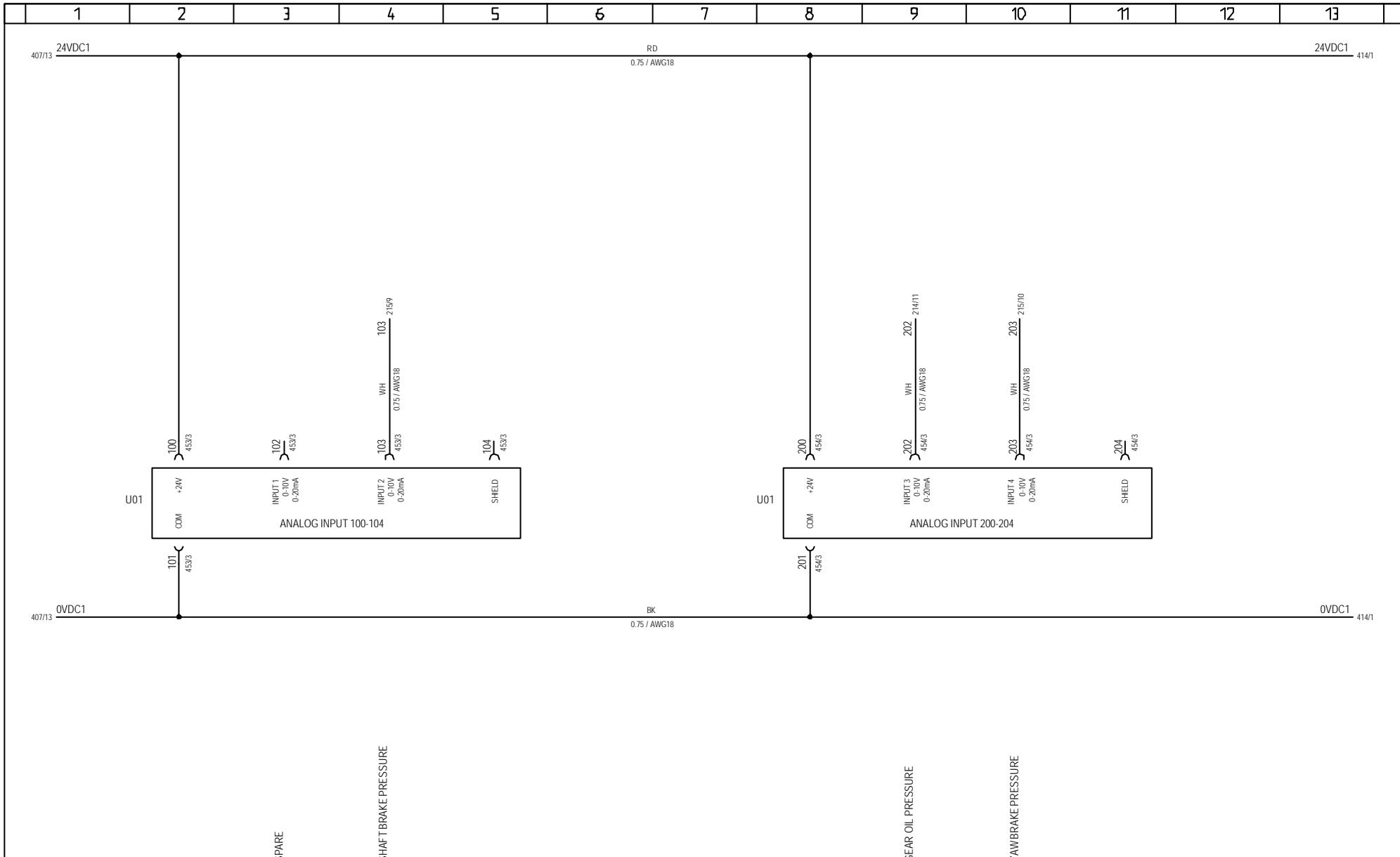


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	Date	Initials	Function	Input 740-749		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	413	Sheet	412

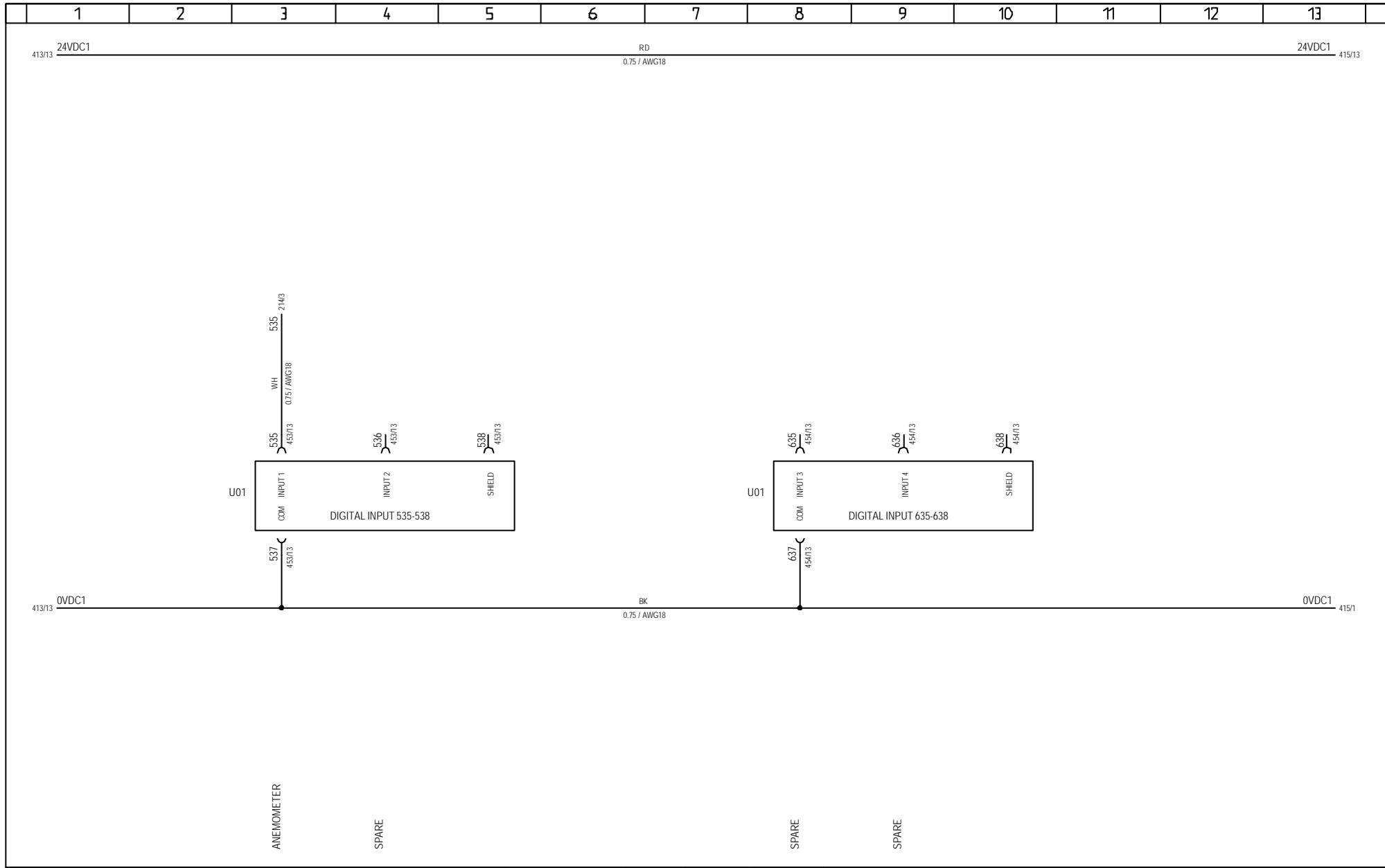


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	Date	Initials	Function	Input 100-204			
Designed	030429	ATM	Project title	Top Box +AN1			
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet 414 Sheet 413

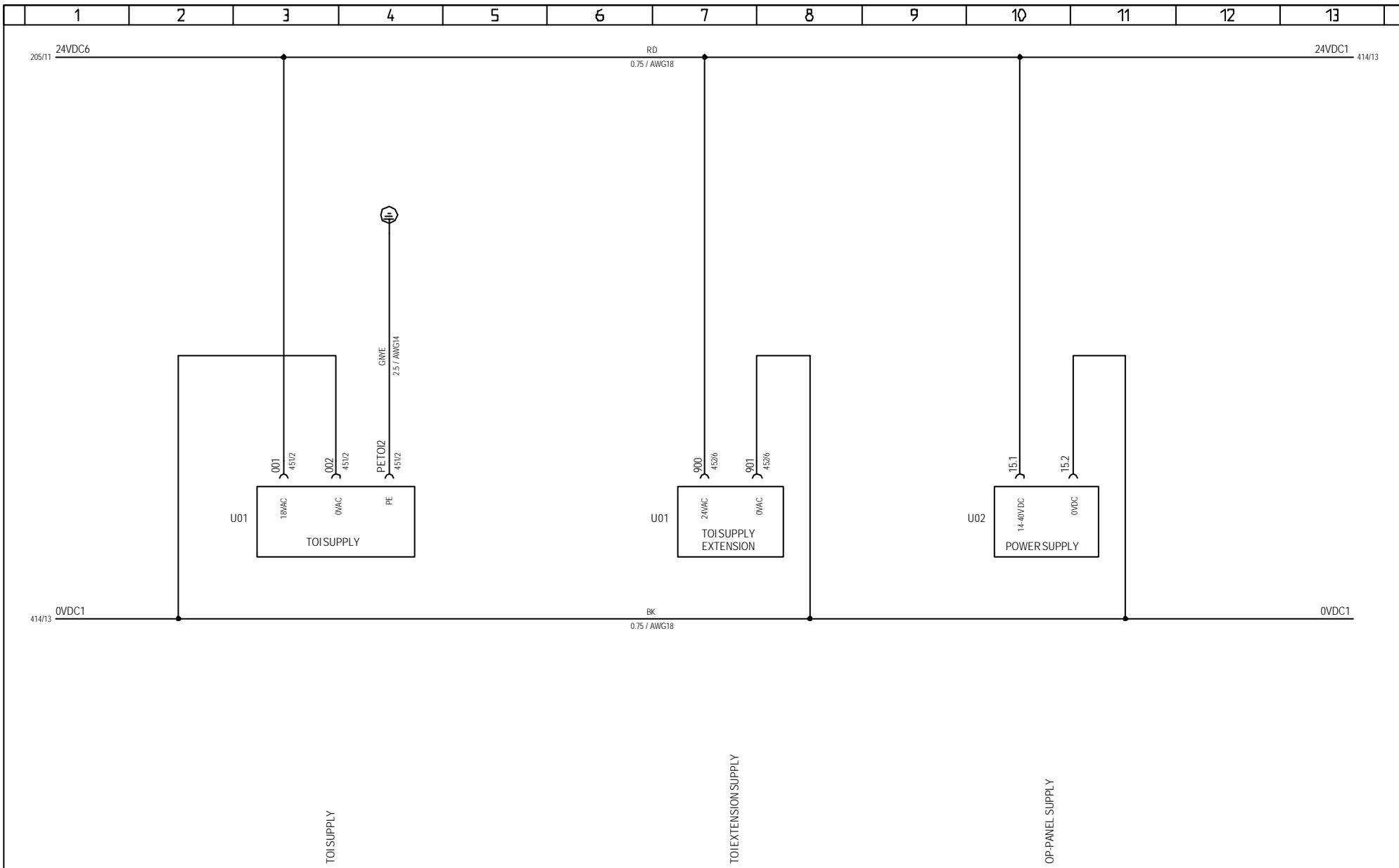


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	Date	Initials	Function	Input 535-638		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	415	Sheet	414

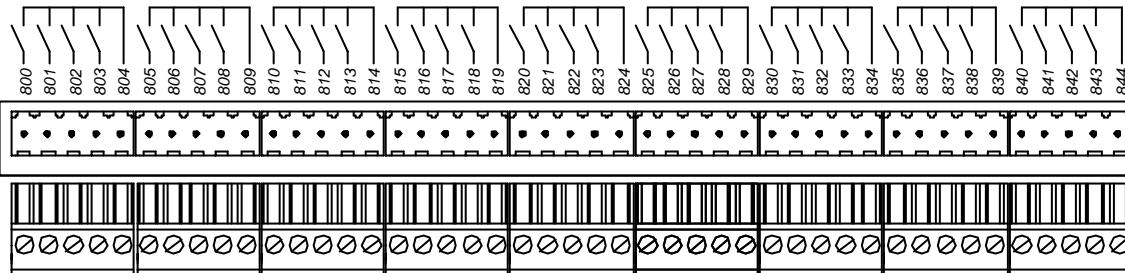
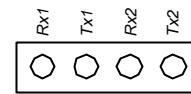
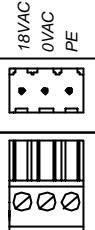


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	Date	Initials	Function	Supply for TOI & OP-panel						
Designed	030429	ATM	Project title	Top Box +AN1						
Approved			Comments	NM72 IEC I & NM82 IEC III			Customer	NEG Micon A/S		
Reviced	031029	ATM	Rev.	03	Drawing no.	6010123	Cont. sheet	451	Sheet	415

TOI 2 OUTPUT INTERFACE



PAGE

4153

4154

4154

RX1

TX2

RX2

TX2

WIND SENSOR/HEAT

PANEL FAN

AUTOMATIC GREASE PUMP

NACELLE FAN

24VDC1

PANEL HEAT

LUBR. PUMP GEN BEARING

SPARE

SPARE

SPARE

SPARE

YAW BRAKE VALVE

YAW BRAKE BY-PASS VALVE V5

24VDC2

SHAFT BRAKE VALVE

SHAFT BRAKE VALVE APPLY1

SHAFT BRAKE VALVE APPLY2

SPARE

24VDC2

SUPPLY EMERGENCY LINE

SPARE

SPARE

SPARE

24VDC1

SPARE

SPARE

SPARE

24VDC1

SPARE

SPARE

SPARE

24VDC1

MAIN BEARING OIL HEATER

MAIN BEARING OIL HEATER

SPARE

SPARE

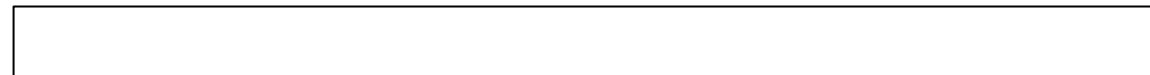
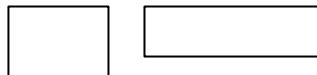
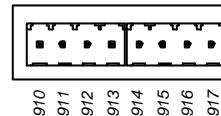
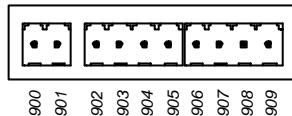
SPARE

SPARE

230VAC6

	Date	Initials	Function	TOI outline output		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	452	Sheet	451

TOI 2 OUTPUT INTERFACE



PAGE
415/7
415/8

TO EXTENSION SUPPLY

SPARE
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	Date	Initials	Function	TOI outline output ext.		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		Customer NEG Micon A/S
Revised	031029	ATM	Rev.	03	Drawing no.	6010123
			Cont. sheet	453	Sheet	452

TOI 2 INPUT INTERFACE

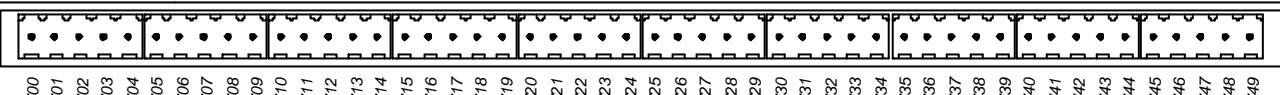
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	0VDC1	4132	101
	SPARE	4133	102
	SHAFT BRAKE PRESSURE	4134	103
	SPARE	4135	104
	AMBIENT TEMPERATURE	4081	300
	AMBIENT TEMPERATURE	4082	301
	AMBIENT TEMPERATURE	4082	302
	NACELLE TEMPERATURE	4083	303
	NACELLE TEMPERATURE	4084	304
	NACELLE TEMPERATURE	4084	305
	TOP BOX PANEL TEMPERATURE	4085	306
	TOP BOX PANEL TEMPERATURE	4086	307
	TOP BOX PANEL TEMPERATURE	4086	308
	SHIELD	4087	309
	GEAR OIL TEMPERATURE	4088	310
	GEAR OIL TEMPERATURE	4088	311
	GEAR OIL TEMPERATURE	4089	312
	GEAR BEARING FRONT TEMPERATURE	4089/10	313
	GEAR BEARING FRONT TEMPERATURE	4089/10	314
	GEAR BEARING FRONT TEMPERATURE	4089/11	315
	GEAR BEARING REAR TEMPERATURE	4089/12	316
	GEAR BEARING REAR TEMPERATURE	4089/13	317
	GEAR BEARING REAR TEMPERATURE	4089/13	318
	SHIELD	40112	319
	VIBRATION BALL	40113	500
	OVERSPEED TAC34	40114	501
	VIBRATION TAC84	40115	502
	MANUAL START TOP BOX	40112	503
	0VDC1	40118	504
	MANUAL STOP TOP BOX	40119	505
	MANUAL YAW CCW	40110	506
	MANUAL YAW CCW	40111	507
	MANUAL RELEASE SHAFT BRAKE	40118	508
	0VDC1	40222	509
	LONG UNTWIST CW	40223	510
	UNTWIST CENTER	40224	511
	LONG UNTWIST CCW	40225	512
	SHORT UNTWIST CW	40222	513
	0VDC1	40228	514
	SHORT UNTWIST CCW	40228	515
	NACELLE POSITION COUNT 1	40229	516
	NACELLE POSITION RESET	40210	517
	NACELLE POSITION COUNT 2	40211	518
	0VDC1	40228	519
	WINDYANE10°	4032	520
	WINDYANE190°	4033	521
	WINDYANE20°	4034	522
	WINDYANE290°	4035	523
	0VDC1	4032	524
	SHAFT BRAKE WORN	4038	525
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	Date	Initials	Function	TOI outline input		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
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	Designed	030429	ATM	Project title Top Box +AN1				
	Approved			Comments NM72 IEC I & NM82 IEC III			Customer NEG Micon A/S	
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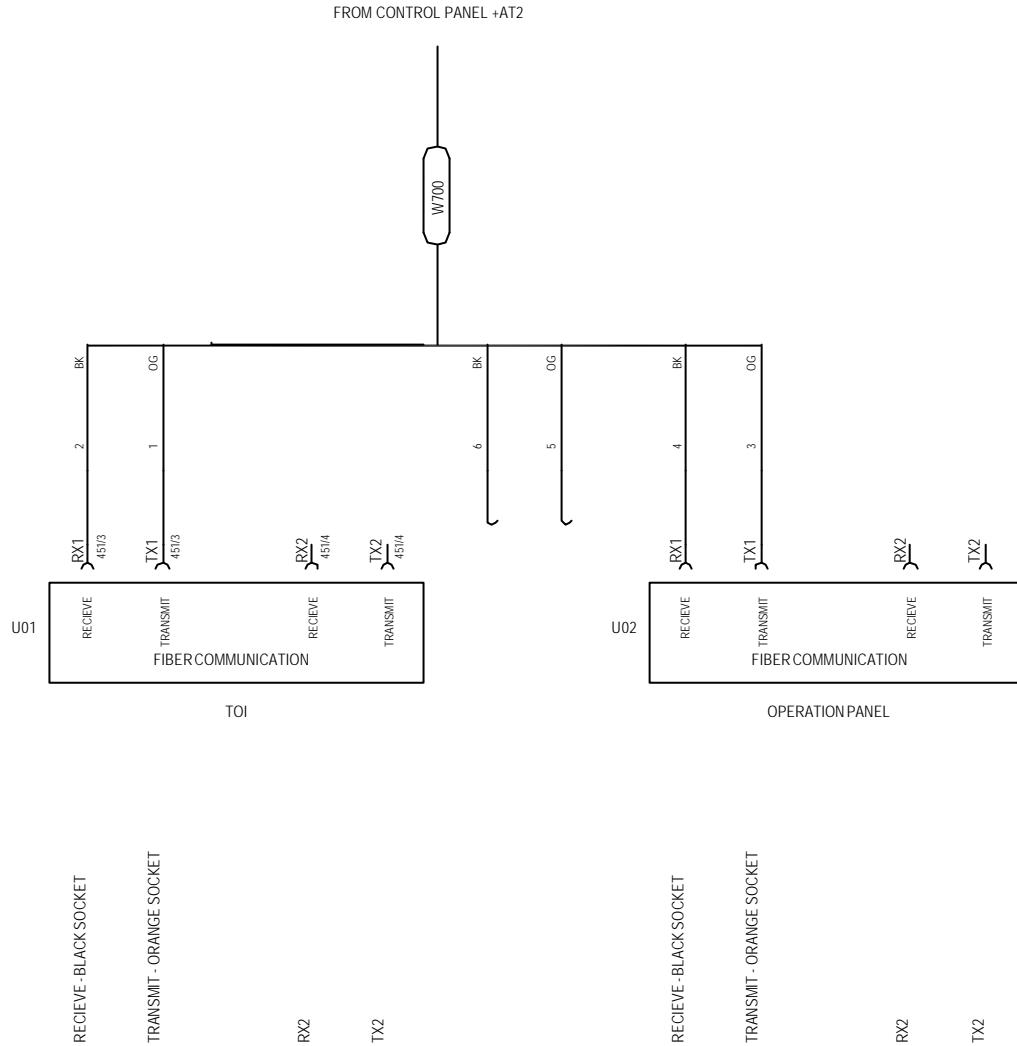


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SPARE	GENERATOR G W1 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	GENERATOR G W2 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	GENERATOR G W2 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD
SPARE	GENERATOR G W3 TEMPERATURE	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SPARE
SPARE	GENERATOR G W3 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	GENERATOR G W1 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	GENERATOR G W1 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD
SPARE	GENERATOR G W2 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	GENERATOR G W2 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD
SPARE	GENERATOR G W3 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	GENERATOR G W3 TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD
SPARE	INTERM. GEAR FRONT TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	INTERM. GEAR REAR TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD
SPARE	INTERM. GEAR REAR TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD
SPARE	INTERM. GEAR REAR TEMPERATURE	INTERM. GEAR REAR TEMPERATURE	MAIN BEARING TEMPERATURE	SPARE
SPARE	SHIELD	INTERM. GEAR FRONT TEMPERATURE	MAIN BEARING OIL TEMPERATURE	SHIELD

	Date	Initials	Function	TOI outline input ext.		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
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	Date	Initials	Function	Communication		
Designed	030429	ATM	Project title	Top Box +AN1		
Approved			Comments	NM72 IEC I & NM82 IEC III		
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Material	60091122	Quantity	Un	SortStrng	Item	text
Description	Top Panel+AN1 AS 30t 230V 50/60Hz IEC/UL					
Obj	Object description					
60092898	Enclosure AE 1200*915*300 2 DOORS w.WORK	1	PC			
60010446	EYE BOLT SZ2509.000	2	PC			
60092939	MOUNTING PLATE AE 1140x870mm w. WORK	1	PC			
60092950	Type sign f. Topbox Panel NM72 IEC I &	1	PC			
60002424	THERMOLABEL "+AN1"	1	PC			
60002503	THERMOLABEL "-X01"	1	PC			
60002589	THERMOLABEL "Main disconnector control "	1	PC			
60002421	THERMOLABEL "Service 0 1"	1	PC			
60002320	STICKER GENERAL USE NEGM CONTROL SYSTEMS	1	PC			
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B8		
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	B33		
60007481	CABLE RACK TK 5-7	1	PC	B33		
60014729	HEATER FAN CR0 27 230V 350W UL	1	PC	E01		
60013760	HOLDER for DIN-RAIL	2	PC			
60005136	MCB 5SX2104-7 C 1-POL. 4.0A 440VAC-60VDC	1	PC	F01		
60005136	MCB 5SX2104-7 C 1-POL. 4.0A 440VAC-60VDC	1	PC	F02		
60005160	MCB 5SX2210-7 C 2-POL.10.0A 440VAC-60VDC	1	PC	F03		
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F03		
60005135	MCB 5SX2103-7 C 1-POL. 3.0A 440VAC-60VDC	1	PC	F04		
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC-15	1	PC	F04		
60005136	MCB 5SX2104-7 C 1-POL. 4.0A 440VAC-60VDC	1	PC	F05		
60015847	VARISTOR BOX X8	1	PC	F06		
60015847	VARISTOR BOX X8	1	PC	F07		
60015847	VARISTOR BOX X8	1	PC	F08		
60015847	VARISTOR BOX X8	1	PC	F09		
60015847	VARISTOR BOX X8	1	PC	F10		
60015847	VARISTOR BOX X8	1	PC	F11		
60015847	VARISTOR BOX X8	1	PC	F12		
60015847	VARISTOR BOX X8	1	PC	F13		
60015847	VARISTOR BOX X8	1	PC	F28		
60015847	VARISTOR BOX X8	1	PC	F27		
60001869	MSTBT 2.5/4-ST FEM. SCREW ANGLE	40	PC	F06-28		F06/F13,27
60005136	MCB 5SX2104-7 C 1-POL. 4.0A 440VAC-60VDC	1	PC	F14		
60005162	MCB 5SX2213-7 C 2-POL.13.0A 440VAC-60VDC	1	PC	F15		
60005157	MCB 5SX2206-7 C 2-POL. 6.0A 440VAC-60VDC	1	PC	F18		
60005138	MCB 5SX2106-7 C 1-POL. 6.0A 440VAC-60VDC	1	PC	F22		
60005138	MCB 5SX2106-7 C 1-POL. 6.0A 440VAC-60VDC	1	PC	F21		
60005139	MCB 5SX2108-7 C 1-POL. 8.0A 440VAC-60VDC	1	PC	F23		
60005138	MCB 5SX2106-7 C 1-POL. 6.0A 440VAC-60VDC	1	PC	F24		
60000693	OVERVOLTAGE PROTECTOR MT RS485	1	PC	F29		
60005131	MCB 5SX2105-7 C 1-POL. 0.5A 440VAC-60VDC	1	PC	F25		
60005135	MCB 5SX2103-7 C 1-POL. 3.0A 440VAC-60VDC	1	PC	F26		
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC 15	1	PC	F26		
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC 15	1	PC	F25		
60005193	AUXILIARY CONTACT 5SX9100 NO+NC 6/AC 15	1	PC	F24		
60000719	BATT CHARGER 115-230/24V 10A ADC5423/83	1	PC	G01		
60000711	BATTERY H4 32Ah 12V	1	PC	G02		
60000711	BATTERY H4 32Ah 12V	1	PC	G03		
60000719	BATT CHARGER 115-230/24V 10A ADC5423/83	1	PC	G06		
60000719	BATT CHARGER 115-230/24V 10A ADC5423/83	1	PC	G05		
60000719	BATT CHARGER 115-230/24V 10A ADC5423/83	1	PC	G04		
60013657	SHELF for TWO H4 BATTERIES	1	PC			
60013658	ANGLE f. SHELF for TWO H4 BATTERIES	2	PC			
60004394	CONTACTOR 3RT1016-1AP02 230V 50/60Hz	1	PC	K01		
60004450	RC UNIT 3RT1916-1CD00 127-240VAC	1	PC	K01		
60004532	RELAY MT3230C4 10A 11-PIN 3-POLED 24V	1	PC	K03		
60005026	SOCKET MT 78740 11-POLED	1	PC	K03		
60005028	FASTENING BRACKET for 3-POLED RELAY	1	PC	K03		
60004532	RELAY MT3230C4 10A 11-PIN 3-POLED 24V	1	PC	K04		
60005026	SOCKET MT 78740 11-POLED	1	PC	K04		
60005028	FASTENING BRACKET for 3-POLED RELAY	1	PC	K04		
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V	1	PC	K05		
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K05		
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K05		
60004520	DIODE MODULE RPML0024 12-24V	1	PC	K05		
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V	1	PC	K06		
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC	1	PC	K06		
60004518	RETAINER FOR RT SOCEKT RT16016	1	PC	K06		

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Material	Description	60091122	Top Panel+AN1 AS 30t 230V 50/60Hz IEC/UL				
Obj	Object description			Quantity	Un	SortStrng	Item text
60004520	DIODE MODULE RPML0024 12-24V			1	PC	K06	
60004996	EMERGENCY RELAY 3TK2806OBB4 5NO+1NC 400V			1	PC	K07	
60004532	RELAY MT3230C4 10A 11-PIN 3-POLED 24V			1	PC	K08	
60005026	SOCKET MT 78740 11-POLED			1	PC	K08	
60005028	FASTENING BRACKET for 3-POLED RELAY			1	PC	K08	
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V			1	PC	K09	
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC			1	PC	K09	
60004518	RETAINER FOR RT SOCEKT RT16016			1	PC	K09	
60004520	DIODE MODULE RPML0024 12-24V			1	PC	K09	
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V			1	PC	K11	
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC			1	PC	K11	
60004518	RETAINER FOR RT SOCEKT RT16016			1	PC	K11	
60004520	DIODE MODULE RPML0024 12-24V			1	PC	K11	
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V			1	PC	K12	
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC			1	PC	K12	
60004518	RETAINER FOR RT SOCEKT RT16016			1	PC	K12	
60004520	DIODE MODULE RPML0024 12-24V			1	PC	K12	
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V			1	PC	K13	
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC			1	PC	K13	
60004518	RETAINER FOR RT SOCEKT RT16016			1	PC	K13	
60004520	DIODE MODULE RPML0024 12-24V			1	PC	K13	
60004391	CONTACTOR 3RT1016-1BB41 24V			1	PC	K14	
60004452	DIODE 3RT1916-1LM00 24-70V			1	PC	K14	
60004513	INTERFACE RELAY RT424024 8A 2-POL. 24V			1	PC	K15	
60004517	RT SOCKET RT78625 2x12A 2-POLED 300VAC			1	PC	K15	
60004518	RETAINER FOR RT SOCEKT RT16016			1	PC	K15	
60004520	DIODE MODULE RPML0024 12-24V			1	PC	K15	
60004933	RS485/RS485 BOOSTER I7510 ICP			1	PC	K21	
60004933	RS485/RS485 BOOSTER I7510 ICP			1	PC	K22	
60014631	FAN 24VDC 55m³/h 3.5W 148x148x57mm			1	PC	M01	
60014664	EXHAUST FILTER 3322.200 for 55m³/h FAN			1	PC	M01	
60014675	SEALING FRAME IP54 for 55m³/h FAN			2	PC	M01	
60014631	FAN 24VDC 55m³/h 3.5W 148x148x57mm			1	PC	M02	
60014664	EXHAUST FILTER 3322.200 for 55m³/h FAN			1	PC	M02	
60014675	SEALING FRAME IP54 for 55m³/h FAN			2	PC	M02	
60005824	MUSHROOM BUTTON ISAF616510R1001 RED			1	PC	S01	
60005871	SIGN SK615546-2 "EMERGENCY STOP" YELLOW			1	PC	S01	
60005846	CONTACT ELEMENT SK616 001-B 1NC			2	PC	S01	
60005849	SAFETY HOLDER f.3 ELEMEN.1SFA61605R1100			1	PC	S01	
60005836	SELECT SWITCH ISFA616280R100 2-POS.w.KEY			1	PC	S02	
60005848	HOLDER for 3 ELEMENTS SK616 013-F			1	PC	S02	
60005844	CONTACT ELEMENT SK616 001-A 1NO			1	PC	S02	
60005768	LOAD BREAK SWITCH OT25ET3 3-POLED			1	PC	Q01	
60005774	HANDLE OHB 2RJ BLACK			1	PC	Q01	
60005776	SWITCH COVER OTS32T3 3-POLED			2	PC	Q01	
60015648	TOII INTERFACE w. EXT. 1 NM1500 TOP			1	PC	U01	
60001911	BLA2 12817.6 FEMALE TERMINAL SCREW 180°			1	PC	U01	
60001918	BLA3 12818.6 FEMALE TERMINAL SCREW 180°			1	PC	U01	
60001927	BLA4 12819.6 FEMALE TERMINAL SCREW 180°			5	PC	U01	
60001934	BLA5 12820.6 FEMALE TERMINAL SCREW 180°			8	PC	U01	
60015605	DISPLAY OP-PANEL 50µ 1.5MW C NEG M			1	PC	U02	
60007437	BRAIDED SLEEVE BLACK 10-17mm			0,350	M		
60008824	PATCH CABLE DUPLEX MULTIMODE 62.5/125 2m			1	PC	U02	
60008794	FIBRE PLUG ST-COUPLER AMP 05-504021-1			2	PC	U02	
60001911	BLA2 12817.6 FEMALE TERMINAL SCREW 180°			1	PC	U02	
60015770	TAC 84C VIBRATION GUARD w.2 FILTERS NMCS			1	PC	U03	
60015832	VS05E ACCELEROMETER 12m			1	PC	U03	
60005026	SOCKET MT 78740 11-POLED			1	PC	U03	
60005027	FASTENING BRACKET for S-SYSTEM			1	PC	U03	
60015773	TAC 85-1 DIRECTION GUARD			1	PC	U04	
60005026	SOCKET MT 78740 11-POLED			1	PC	U04	
60005027	FASTENING BRACKET for S-SYSTEM			1	PC	U04	
60004924	TRIP AMPLIFIER 2231D-1050			1	PC	U05	
60005026	SOCKET MT 78740 11-POLED			1	PC	U05	
60005027	FASTENING BRACKET for S-SYSTEM			1	PC	U05	
60005026	SOCKET MT 78740 11-POLED			1	PC	U06	
60005026	SOCKET MT 78740 11-POLED			1	PC	U07	
60000980	BRIDGE KBPC3506G 35A 600V			1	PC	V07	

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Material	Description	60091122	Top Panel+AN1 AS 30t 230V 50/60Hz IEC/UL	Obj	Object description	Quantity	Un	SortStrng	Item	text
60006576	HOUSING C14610F0240001 46P BULKHEAD					1	PC	X01		
60007419	WIRE HOSE BLACK 15mm	0,140	M							
60006072	TERMINAL WAGO 870-551 3-LEV.0,08-2,5mm ²	55	PC	X02						
60006084	END SECTION 870-568 3-LEVEL GREY	1	PC	X02						
60093115	MARK WAGO +AN1 X02 TOP NM72 IEC I	2,000	SH	X02						
60093116	MARK WAGO +AN1 X02 CENTER NM72 IEC I	2,000	SH	X02						
60093117	MARK WAGO +AN1 X02 BOTTOM NM72 IEC I	2,000	SH	X02						
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED	19	PC	X02						
60006087	PUSH-IN JUMPER BAR 870-403 3-POLED	2	PC	X02						
60006088	PUSH-IN JUMPER BAR 870-404 4-POLED	3	PC	X02						
60006089	PUSH-IN JUMPER BAR 870-405 5-POLED	4	PC	X02						
60006090	PUSH-IN JUMPER BAR 870-410 10-POLED	2	PC	X02						
60007195	DIN RAIL FITTING TST 100mm	3	PC	X02						
60006072	TERMINAL WAGO 870-551 3-LEV.0,08-2,5mm ²	2	PC	X05						
60006084	END SECTION 870-568 3-LEVEL GREY	1	PC	X05						
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED	3	PC	X05						
60014286	MARKER CARD WAGO Nos 1-10 TYPE 870-	1,000	SH	X05						
60006072	TERMINAL WAGO 870-551 3-LEV.0,08-2,5mm ²	2	PC	X08						
60006084	END SECTION 870-568 3-LEVEL GREY	1	PC	X08						
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED	3	PC	X08						
60014286	MARKER CARD WAGO Nos 1-10 TYPE 870-	1,000	SH	X08						
60007584	CABLE GLAND BM-EN-11 M16 PA 6	1	PC							
60007592	LOCKNUT BML-11 M16 PA 6	1	PC							
60007585	CABLE GLAND BM-EN-12 M20 PA 6	64	PC							
60007593	LOCKNUT BML-12 M20 PA 6	64	PC							
60007586	CABLE GLAND BM-EN-13 M25 PA 6	4	PC							
60007594	LOCKNUT BML-13 M25 PA 6	4	PC							
60007587	CABLE GLAND BM-EN-14 M32 PA 6	3	PC							
60007595	LOCKNUT BML-14 M32 PA 6	3	PC							
60007353	CABLE CONDUIT 211151 25x25mm	1,420	M							
60007354	CABLE CONDUIT 211154 25x40mm	0,680	M							
60007356	CABLE CONDUIT 211165 25x80mm	1,530	M							
60007360	CABLE CONDUIT 211166 40x80mm	2,700	M							
60007366	CABLE CONDUIT 211167 60x80mm	1,400	M							
60007182	DIN RAIL PP0735H 7x35mm	2,500	M							
60007201	EARTH BAR 01130 9x6.5x1000mm	0,730	M							
60006819	STICKER "JORD" 14mm	3	PC							
60093130	LASER LABEL +AN1 NM72 IEC I & NM82	1	PC							
60007197	SCREW FKSC M6x12mm	3	PC							
60091902	END STOP WAGO 249-116 6mm TS35	5	PC							
60091912	END STOP WAGO 249-117 10mm TS35	4	PC							
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC							
60012101	WIRING RS485 - TAC84/85	2	PC	U03-04						
60096742	WIRING NM72 IEC I & NM82+AN1 K07	1	PC							
60096754	WIRING NM72 IEC I & NM82+AN1 G01	1	PC							
60096755	WIRING NM72 IEC I & NM82+AN1 0VDC	1	PC							
60096756	WIRING NM72 IEC I & NM82+AN1 230VAC	1	PC							
60096759	WIRING NM72 IEC I & NM82+AN1 24VDC1	1	PC							
60096761	WIRING NM72 IEC I & NM82+AN1 24VDC6	1	PC							
60096765	WIRING NM72 IEC I & NM82+AN1 ASORTED	1	PC							
60096766	WIRING NM72 IEC I & NM82+AN1 EARTHING	1	PC							
60096767	WIRING NM72 IEC I & NM82+AN1 U01.300-	1	PC							
60096769	WIRING NM72 IEC I & NM82+AN1 U01.500	1	PC							
60097076	WIRING NM72 IEC I & NM82+AN1 U01.600	1	PC							
60097072	WIRING NM72 IEC I & NM82+AN1 U01.700	1	PC							
60097077	WIRING NM72 IEC I & NM82+AN1 U01.800	1	PC							
60096778	WIRING NM72 IEC I & NM82+AN1 X01-	1	PC							
60096780	WIRING NM72 IEC I & NM82+AN1 K21-	1	PC							
60007588	CABLE GLAND BM-EN-15 M40 PA 6	2	PC							
60007596	LOCKNUT BML-15 M40 PA 6	2	PC							

Change Info

<i>Item no.</i>	<i>Item text:</i>
None	Emergency Line, NM72 IEC I, NM82 IEC III, 690V 50Hz

Active revision for production

Drawing number: 6012952

Version	Date	Init./App.	Description of change since last revision
01	05.11.2003	CHO/CHO	First version

LST number: None

Version	Date	Init./App.	Material BOM number: None
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

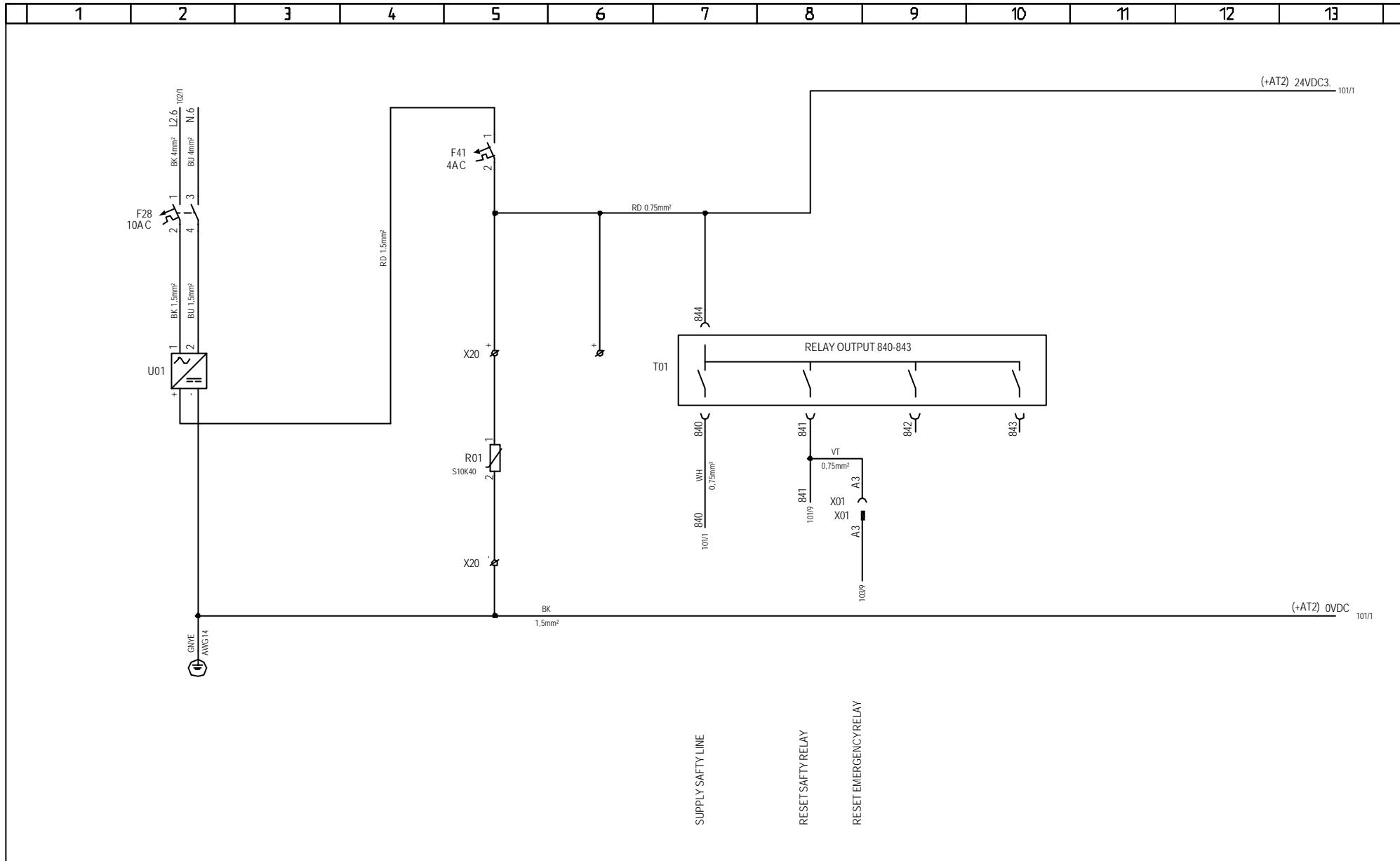
LST number: xxxxxxxx

Version	Date	Init./App.	Material BOM number: xxxxxxxx
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change

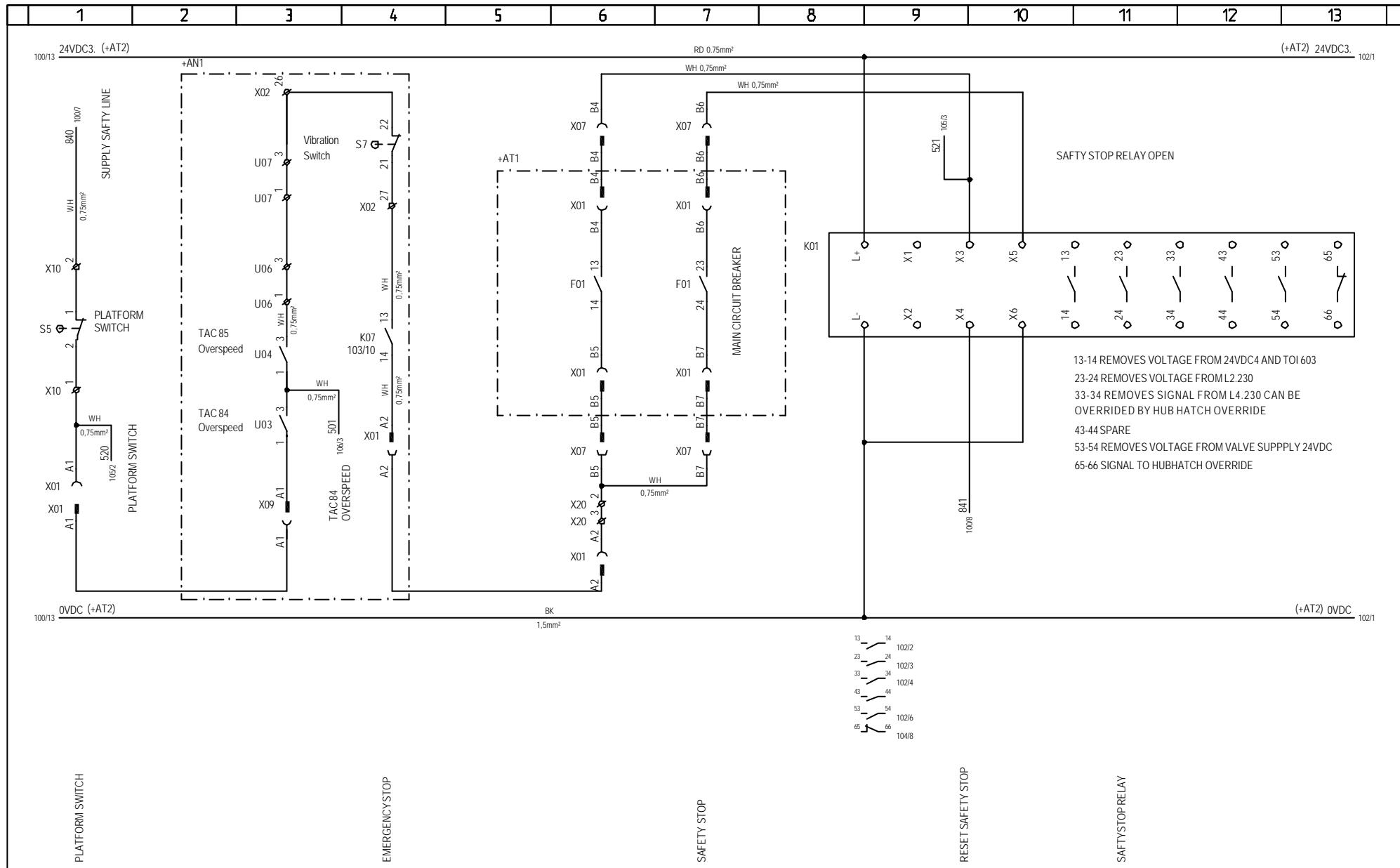


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	Date	Initials	Function	Table of contents						
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031105	CHO	Rev.	01	Drawing no.	6012952	Cont. sheet	100	Sheet	001

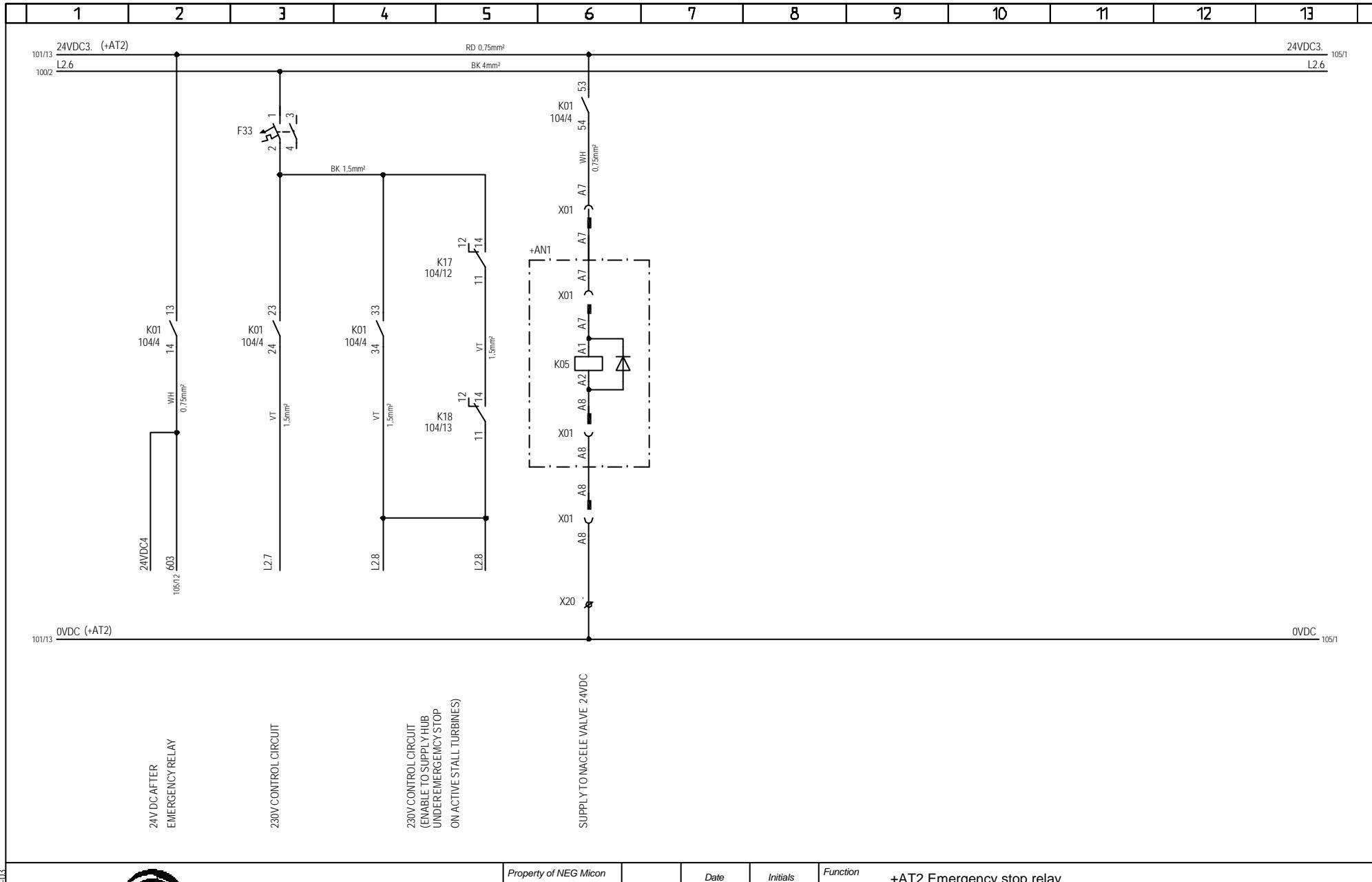


	Date	Initials	Function	+AT2 Emergency stop relay		
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz		
Approved			Comments			
Revised	031105	CHO	Rev.	-	Drawing no.	6012952
			Cont. sheet	101	Sheet	100



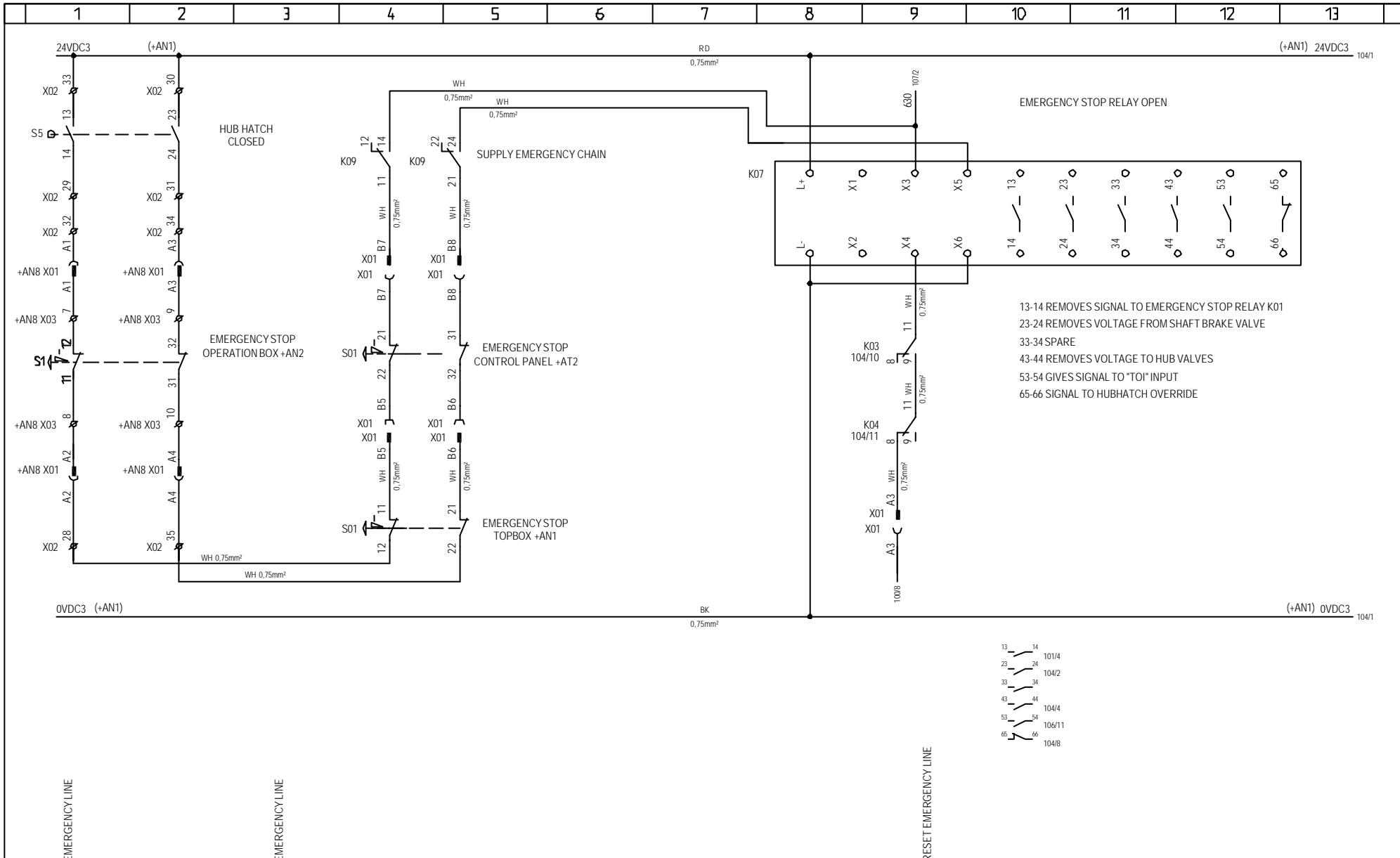
*Property of NEG Micon
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05-11-03	 NEG MICON® CONTROL SYSTEMS	Property of NEG Micon Control systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.	Date	Initials	Function	+AT2 Emergency stop relay						
12-19			Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz					
			Approved			Comments	Customer					
			Revised	031105	CHO	Rev. -	Drawing no.	6012952	Cont. sheet	102	Sheet	101

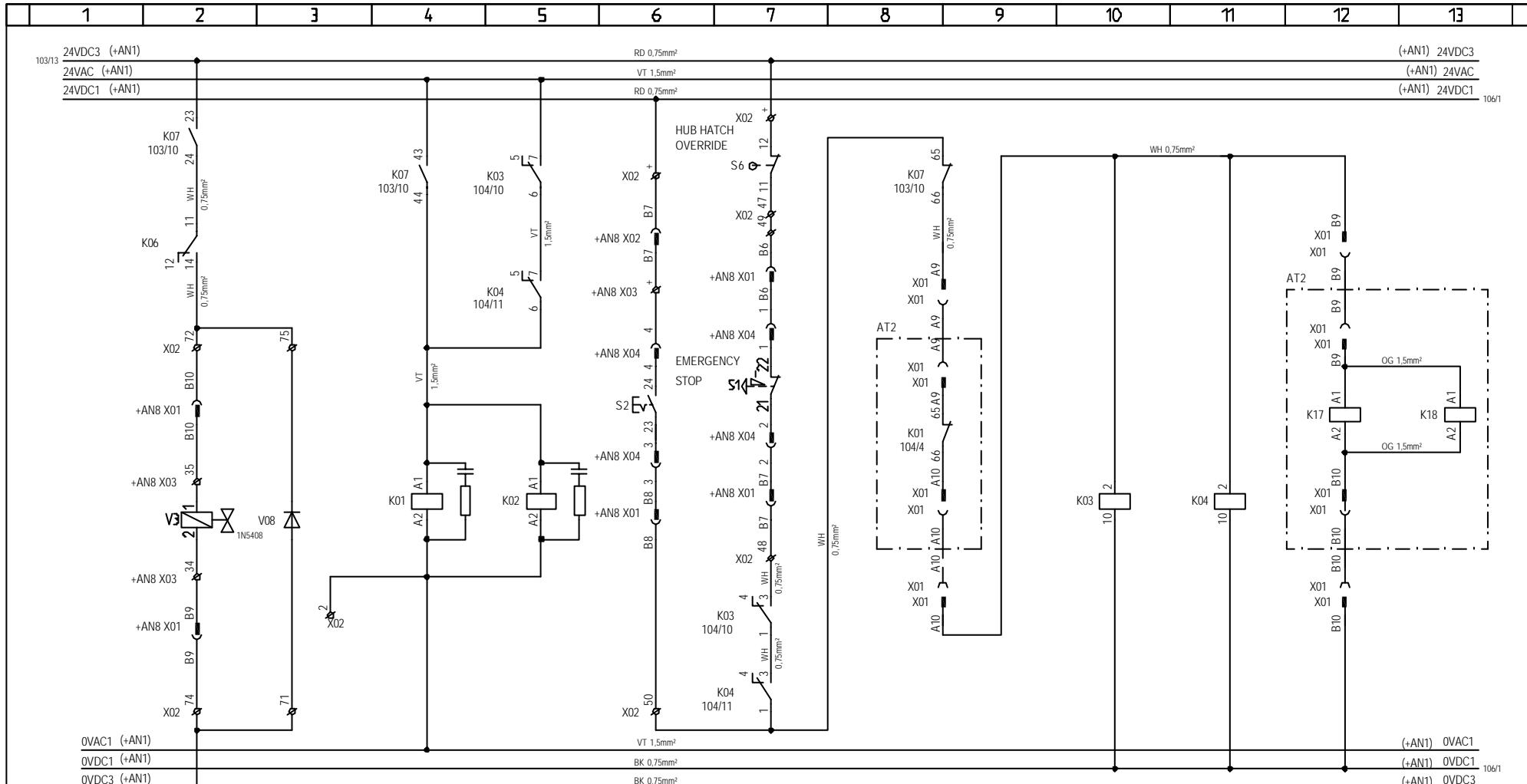


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	Date	Initials	Function +AT2 Emergency stop relay							
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz						
Approved			Comments			Customer	NEG Micon A/S			
Revised	031105	CHO	Rev.	-	Drawing no.	6012952	Cont. sheet	103	Sheet	102



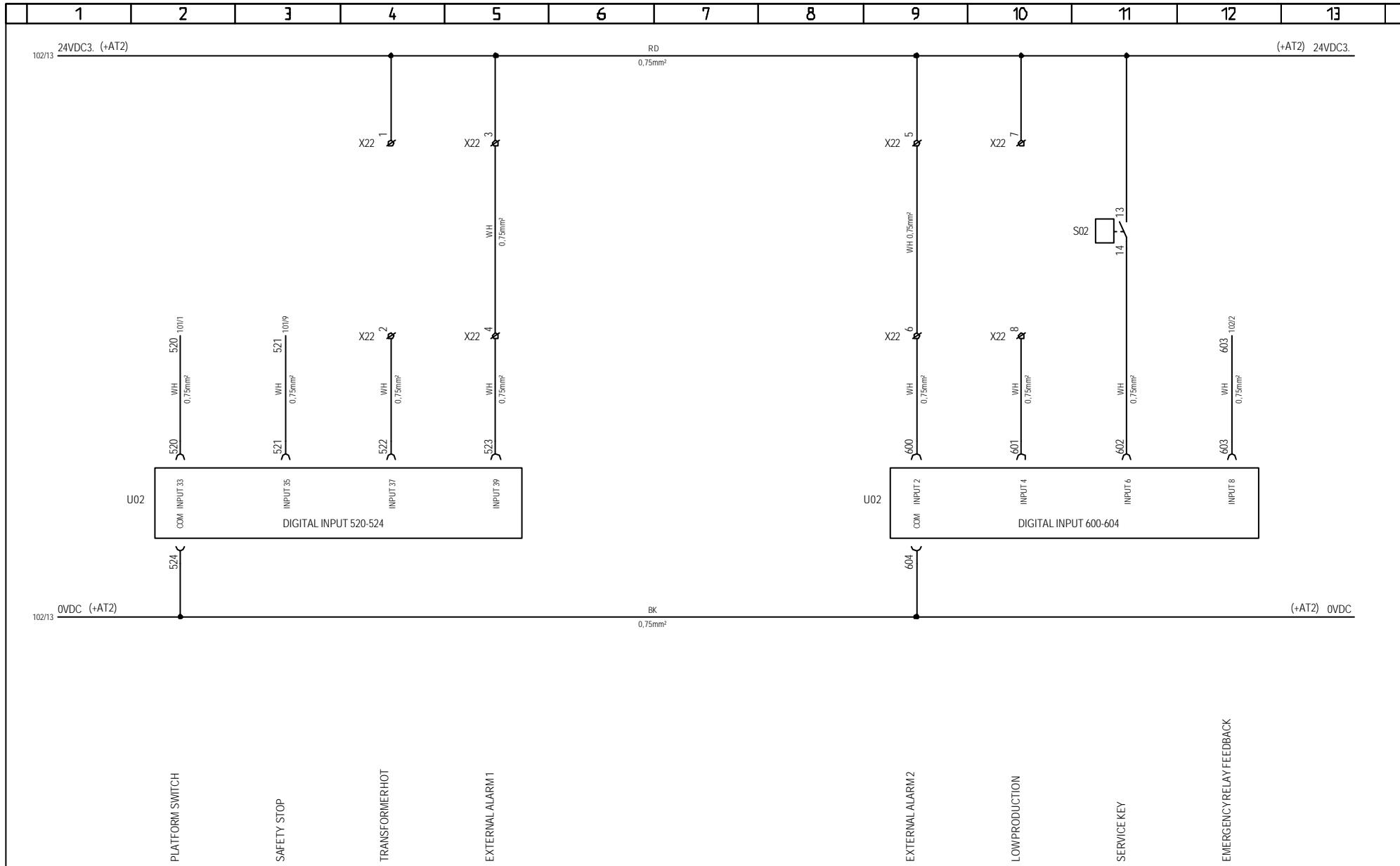
	Date	Initials	Function	+AN1 Emergency stop relay		
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz		
Approved			Comments	Customer		
Revised	031105	CHO	Rev. -	Drawing no.	6012952	Cont. sheet 104 Sheet 103



 NEG MICON®
CONTROL SYSTEMS

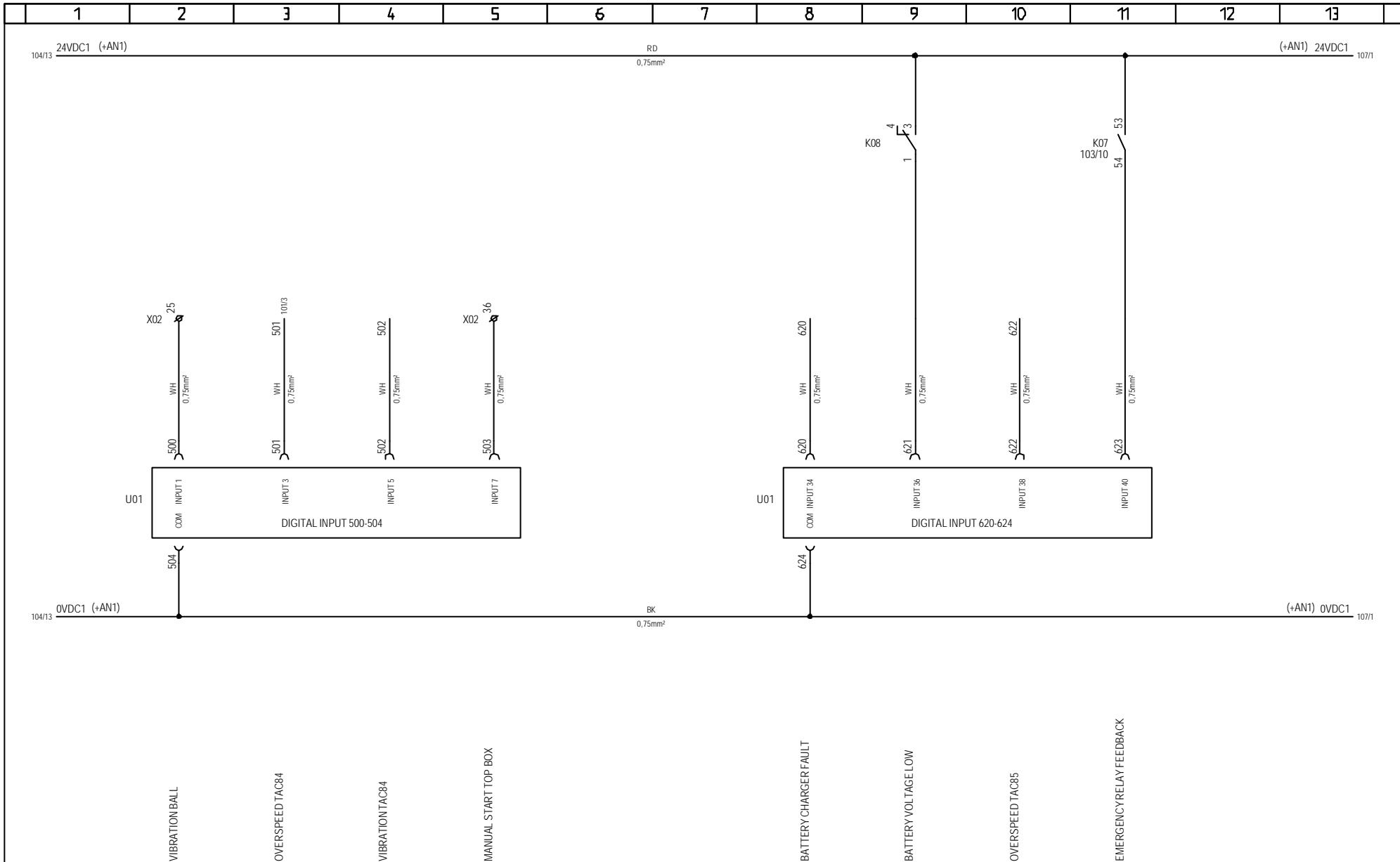
*Property of NEG Micon
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	Date	Initials	Function +AN1 Emergency stop relay							
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031105	CHO	Rev.	-	Drawing no.	6012952	Cont. sheet	105	Sheet	104



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	Date	Initials	Function	+AT2 TOI Inputs Emergency stop relay					
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz					
Approved			Comments	Customer NEG Micon A/S					
Revised	031105	CHO	Rev.	-	Drawing no.	6012952	Cont. sheet	106	Sheet 105



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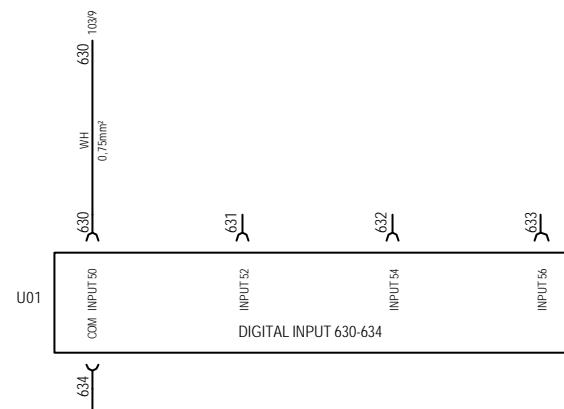
	Date	Initials	Function +AN1 TOI Inputs Emergency stop relay							
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031105	CHO	Rev.	-	Drawing no.	6012952	Cont. sheet	107	Sheet	106

1	2	3	4	5	6	7	8	9	10	11	12	13
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106/13 24VDC1 (+AN1)

RD
0,75mm²

(+AN1) 24VDC1



104/13 0VDC3 (+AN1)
104/13 0VDC1 (+AN1)
106/13

(+AN1) 0VDC3
(+AN1) 0VDC1

	Date	Initials	Function	+AN1 TOI Inputs Emergency stop relay			
Designed	031105	CHO	Project title	Emergency line NM72 IEC I NM82 IEC III 690V 50Hz			
Approved			Comments				Customer NEG Micon A/S
Revised	031105	CHO	Rev.	-	Drawing no.	6012952	Cont. sheet - Sheet 107

Change Info

Item no. 60019465 **Item text:** Operation Box +AN2

Active revision for production

Drawing number: 6010125

Revision	Date	Init./App.	Description of change since last revision
01	24.04.2003	INI /	First version in the new SAP no. system.

LST no.: 21000003 **SAP part list number:** 60015962

Revision	Valid from	Init./App.	Description of change since last revision
01	14.03.2000	FLT /	First version in the new SAP no. system.

Old revisions for service

Drawing number: xxxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

LST no.: xxxxxxxx **SAP part list number:** xxxxxxxx

Revision	Valid from	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

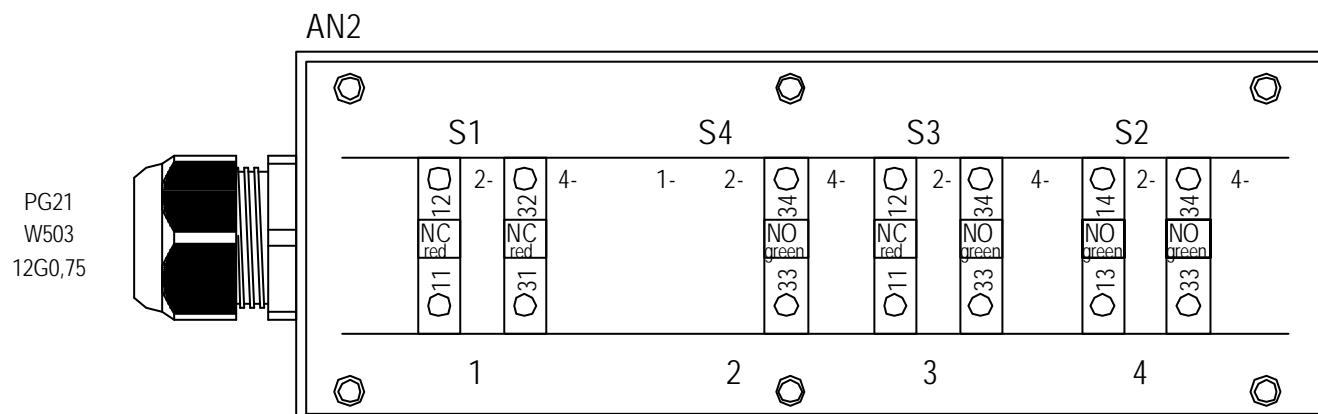
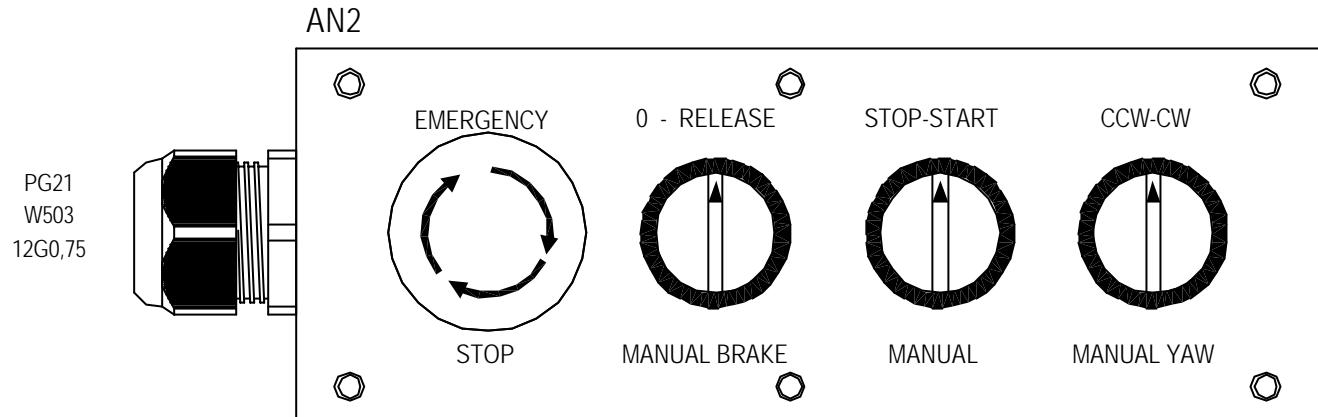
Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 0000203



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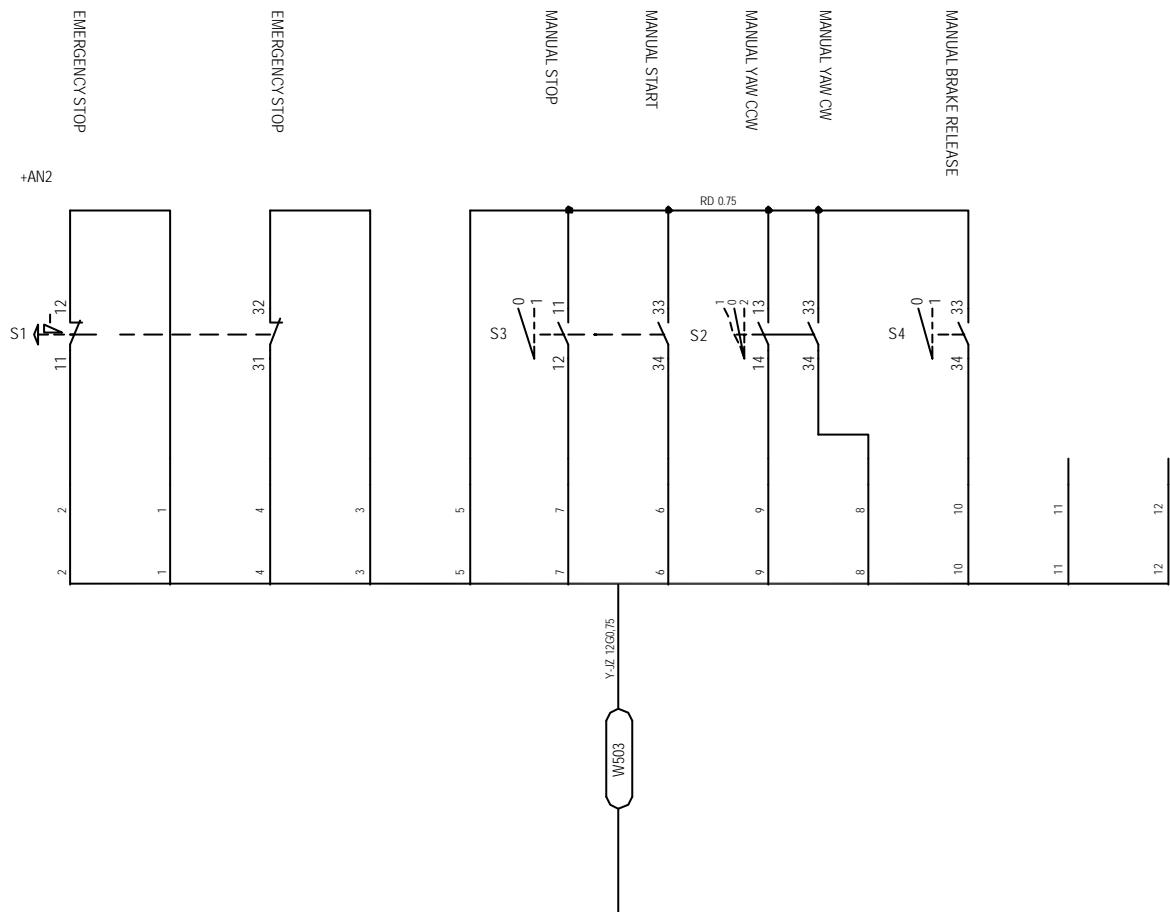
	Date	Initials	Function	Table of Contents						
Designed	010924	FLT	Project title	Operation Box +AN2						
Approved			Comments			Customer	NEG Micon A/S			
Revised	030424	INI	Rev.	01	Drawing no.	6010125_000	Cont. sheet	030	Sheet	001



Dim. LxWxH: 207.4x74.4x64.5mm

	Date	Initials	Function	Layout		
Designed	010924	FLT	Project title	Operation Box +AN2		
Approved			Comments			
Revised	030424	INI	Rev.	-	Drawing no.	6010125_000
			Cont. sheet	040	Sheet	030

	1	2	3	4	5	6	7	8	9	10	11	12	13
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 25/4/03
R01


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	Date	Initials	Function	Internal Connection		
Designed	010924	FLT	Project title	Operation Box +AN2		
Approved			Comments			
Revised	030424	INI	Rev.	-	Drawing no.	6010125_000
			Cont. sheet	-	Sheet	040

5/15/2003 9:51 AM

1/1

Material 60015962
Description OPERATION BOX +AN2 NM1500C

Obj	Object description	Quantity	Un	SortStrng	Item	text
60010964	PUSH BUTTON BOX 4 HOLES 192*74.4*64.5mm	1		PC	AN2	
60002309	LASER LABEL AN2 4-HOLE	1		PC		
60005824	MUSHROOM BUTTON ISAF616510R1001 RED	1		PC	S1	
60005881	INSERT for PUSH BUTTON 36122100	1		PC	S1	
60005846	CONTACT ELEMENT SK616 001-B 1NC	2		PC	S1	
60005849	SAFETY HOLDER f.3 ELEMEN.1SFA616605R1100	1		PC	S1	
60005832	SELECT SWITCH ISFA616210R1006 3POS.BLACK	1		PC	S2	
60005881	INSERT for PUSH BUTTON 36122100	1		PC	S2	
60005845	CONTACT ELEMENT SK616 002-A 1NO DIN-RAIL	2		PC	S2	
60005834	SELECT SWITCH ISFA616212R1006 3POS.RETUR	1		PC	S3	
60005881	INSERT for PUSH BUTTON 36122100	1		PC	S3	
60005845	CONTACT ELEMENT SK616 002-A 1NO DIN-RAIL	1		PC	S3	
60005847	CONTACT ELEMENT SK616 002-B 1NC DIN-RAIL	1		PC	S3	
60005828	SELECT SWITCH ISFA616202R1001 B-C RETURN	1		PC	S4	
60005881	INSERT for PUSH BUTTON 36122100	1		PC	S4	
60005845	CONTACT ELEMENT SK616 002-A 1NO DIN-RAIL	1		PC	S4	
60007545	CABLE GLAND BS16 PG21 NYLON	1		PC		
60007557	LOCKNUT BLN16 PG21 PA 6	1		PC		
60006336	INSUL. END TERMINAL 18/0.75mm ² 8mm CHAIN	2		PC		
60006354	INSUL.END TERMINAL 2*18/0.75mm ² 8mm SING	3		PC		
60008701	CABLE 12*0.75mm ² Flex PUR JZ	8,700	M	-W503		
60006336	INSUL. END TERMINAL 18/0.75mm ² 8mm CHAIN	20		PC		
60003407	CABLE LABEL NM1500C -W503	2		PC		

Change Info

Item no. **Item text:**
None Motor Box +AN4, NM72 IEC I, NM82 IEC III, 30T 50Hz

Active revision for production

Drawing number: 6012548

Version	Date	Init./App.	Description of change since last revision
01	29.10.2003	ATM/ATM	First version

LST number: 21000085

Version	Date	Init./App.	Description of change since last revision
01	30.10.2003	ATM/ATM	First version

Material BOM number: 60097587

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

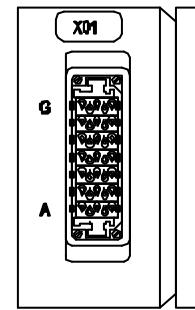
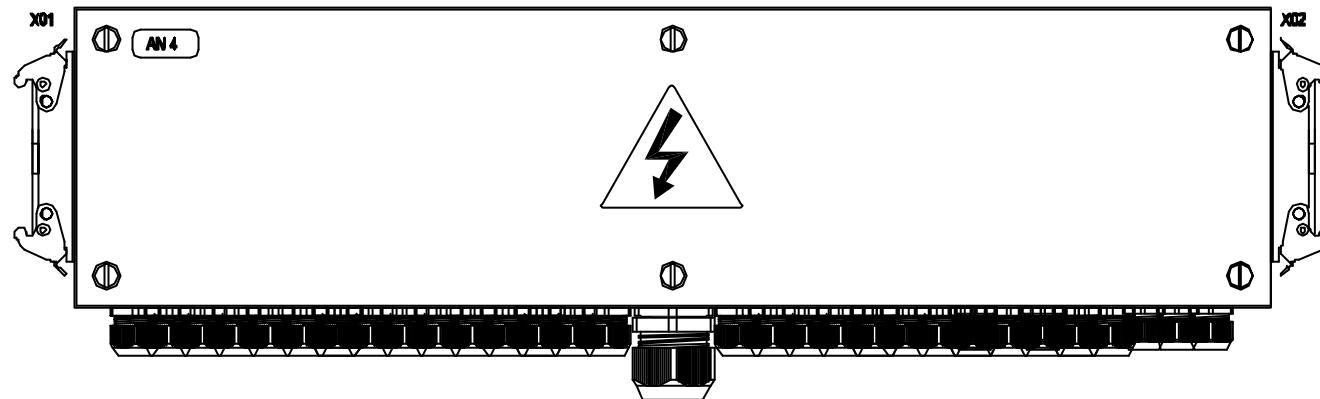
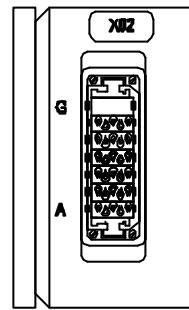
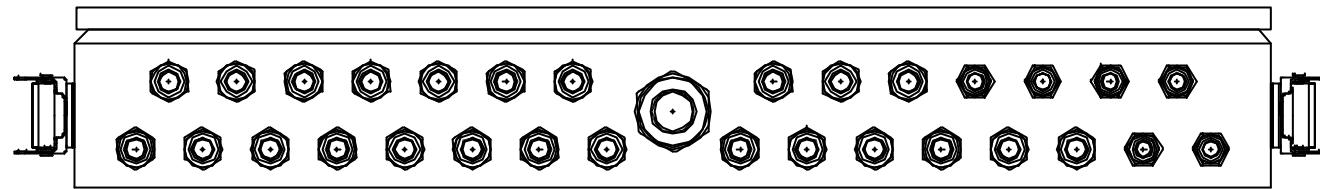
Material BOM number: xxxxxxxx



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	Date	Initials	Function	Table of contents						
Designed	030930	ATM	Project title	Motor box +AN4						
Approved			Comments	Customer NEG Micon A/S						
Reviced	031029	ATM	Rev.	01	Drawing no.	6012548	Cont. sheet	030	Sheet	001

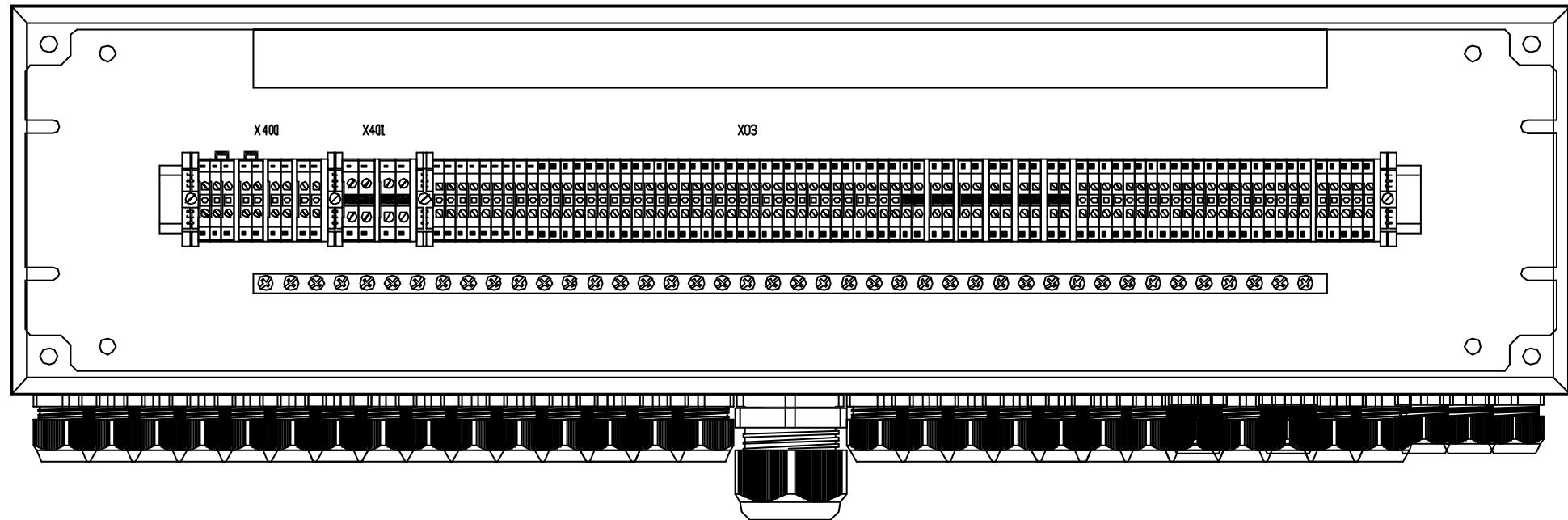
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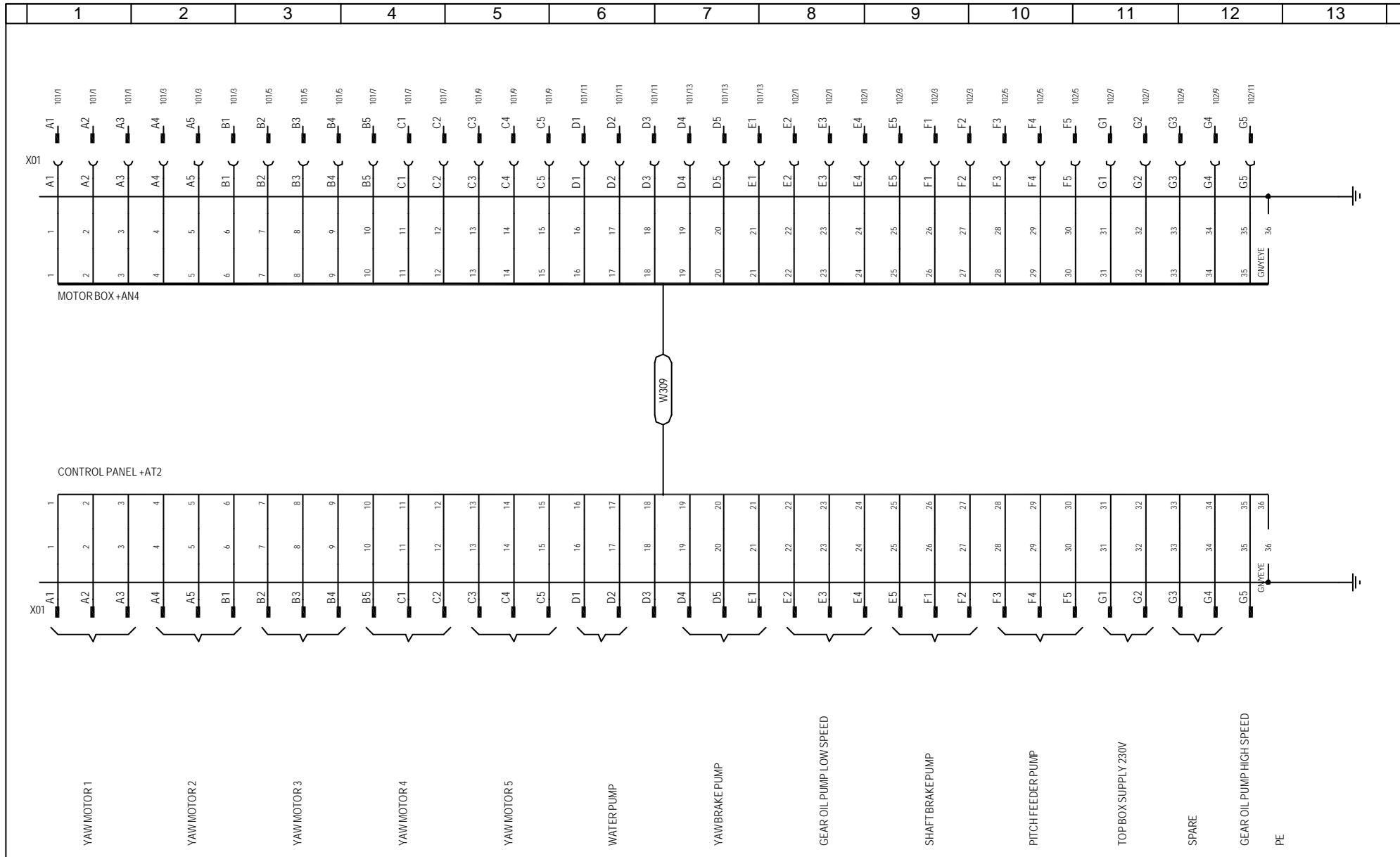
800x200x120mm (W*H*D)

	Date	Initials	Function	Panel front		
Designed	030930	ATM	Project title	Motor box +AN4		
Approved			Comments			
Revised	031029	ATM	Rev.	-	Drawing no.	6012548
			Cont. sheet	031	Sheet	030

1	2	3	4	5	6	7	8	9	10	11	12	13
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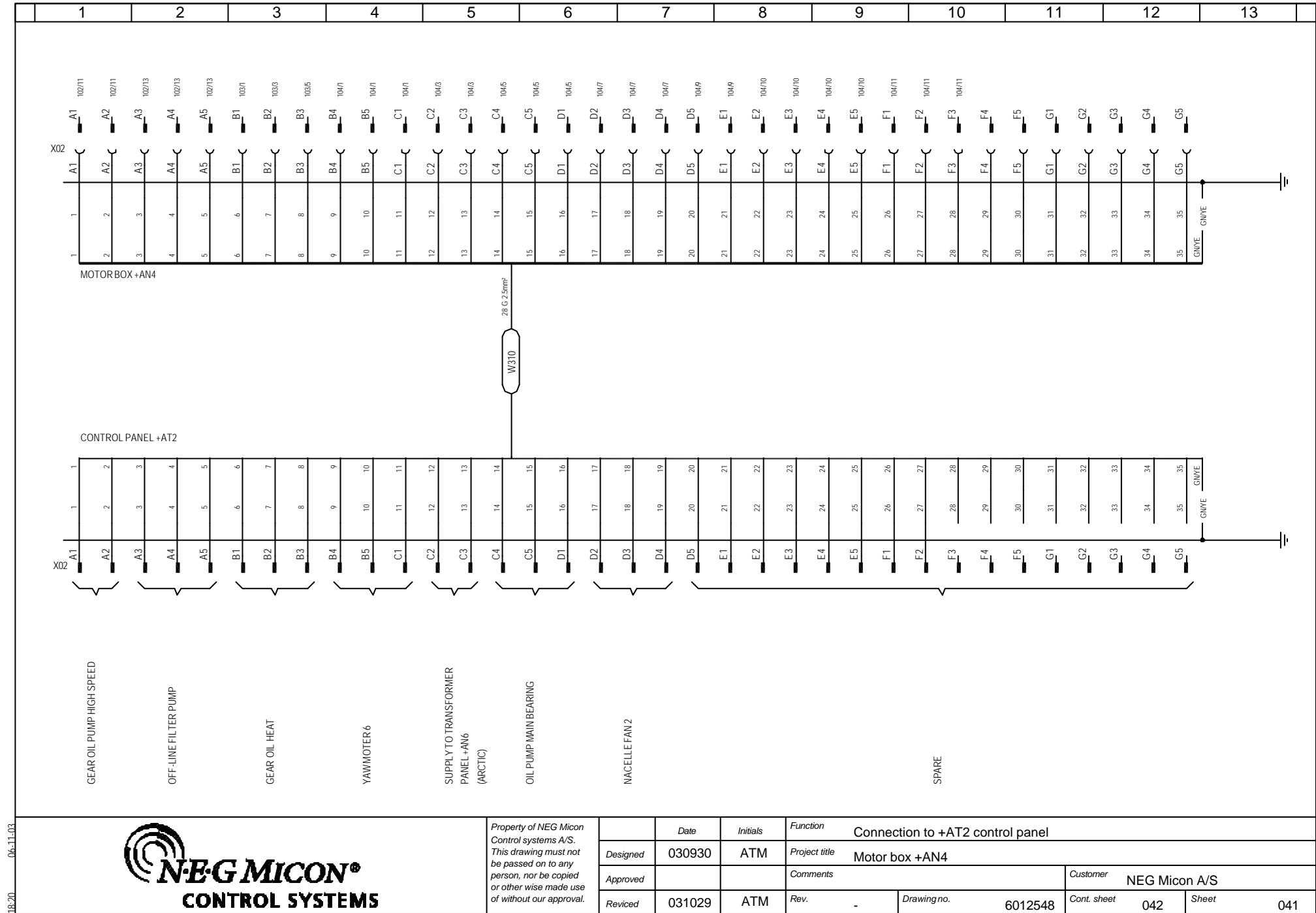


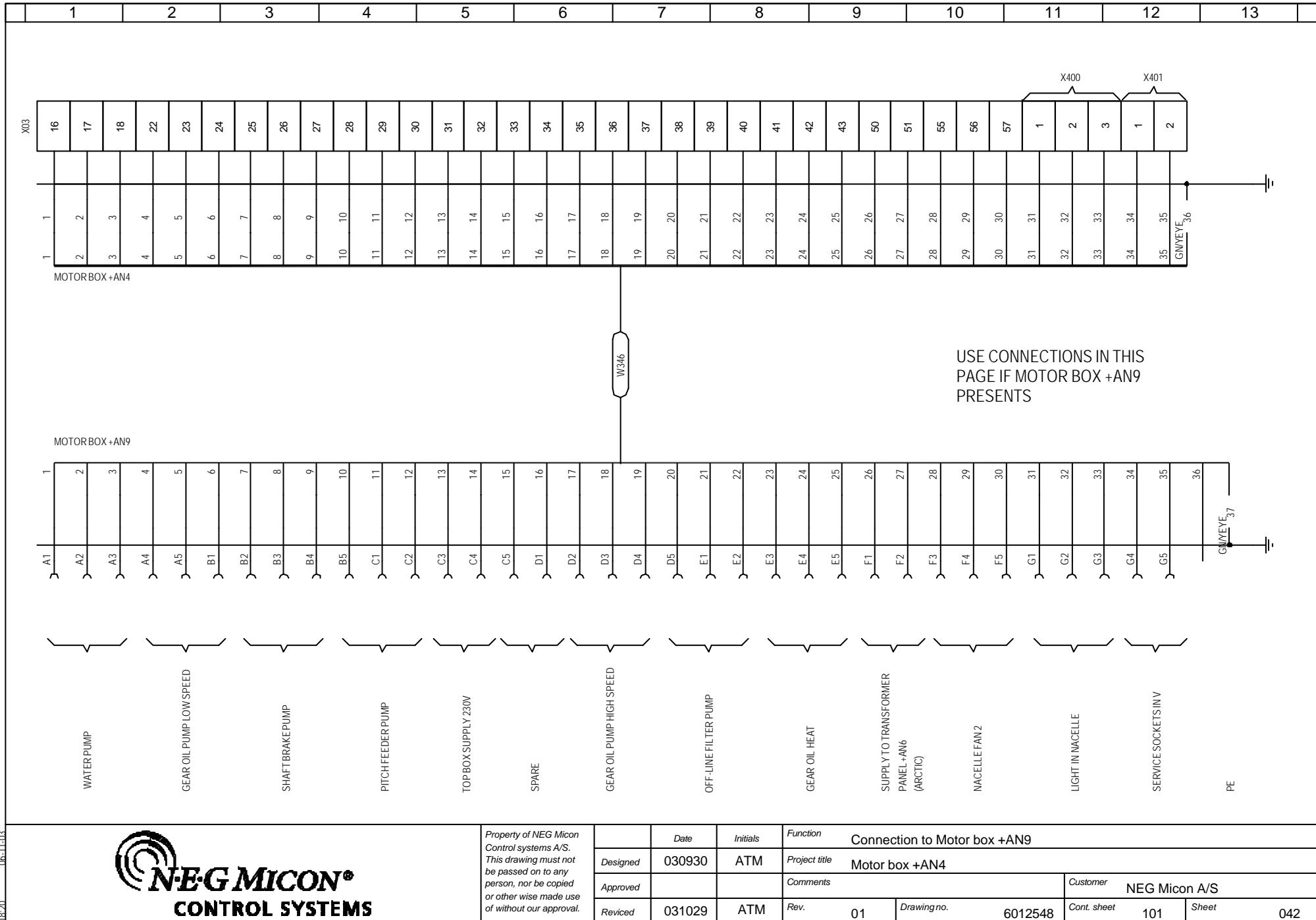
	Date	Initials	Function	Panel outline
Designed	030930	ATM	Project title	Motor box +AN4
Approved			Comments	Customer NEG Micon A/S
Revised	031029	ATM	Rev. -	Drawing no. 6012548 Cont. sheet 040 Sheet 031

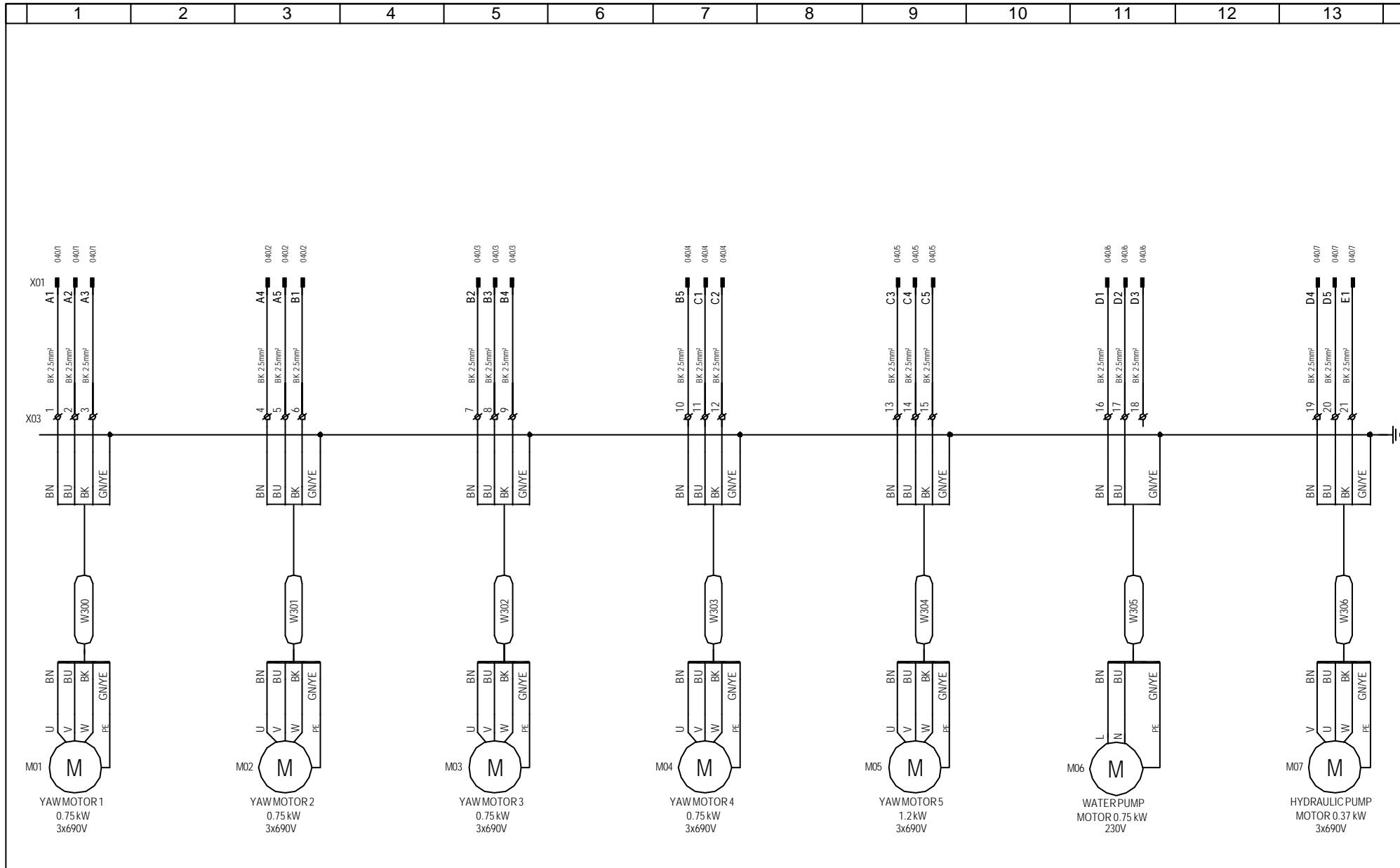


18:20 06-11-03

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	030930	ATM	Project title	Motor box +AN4				
			Comments					
				Customer NEG Micon A/S				





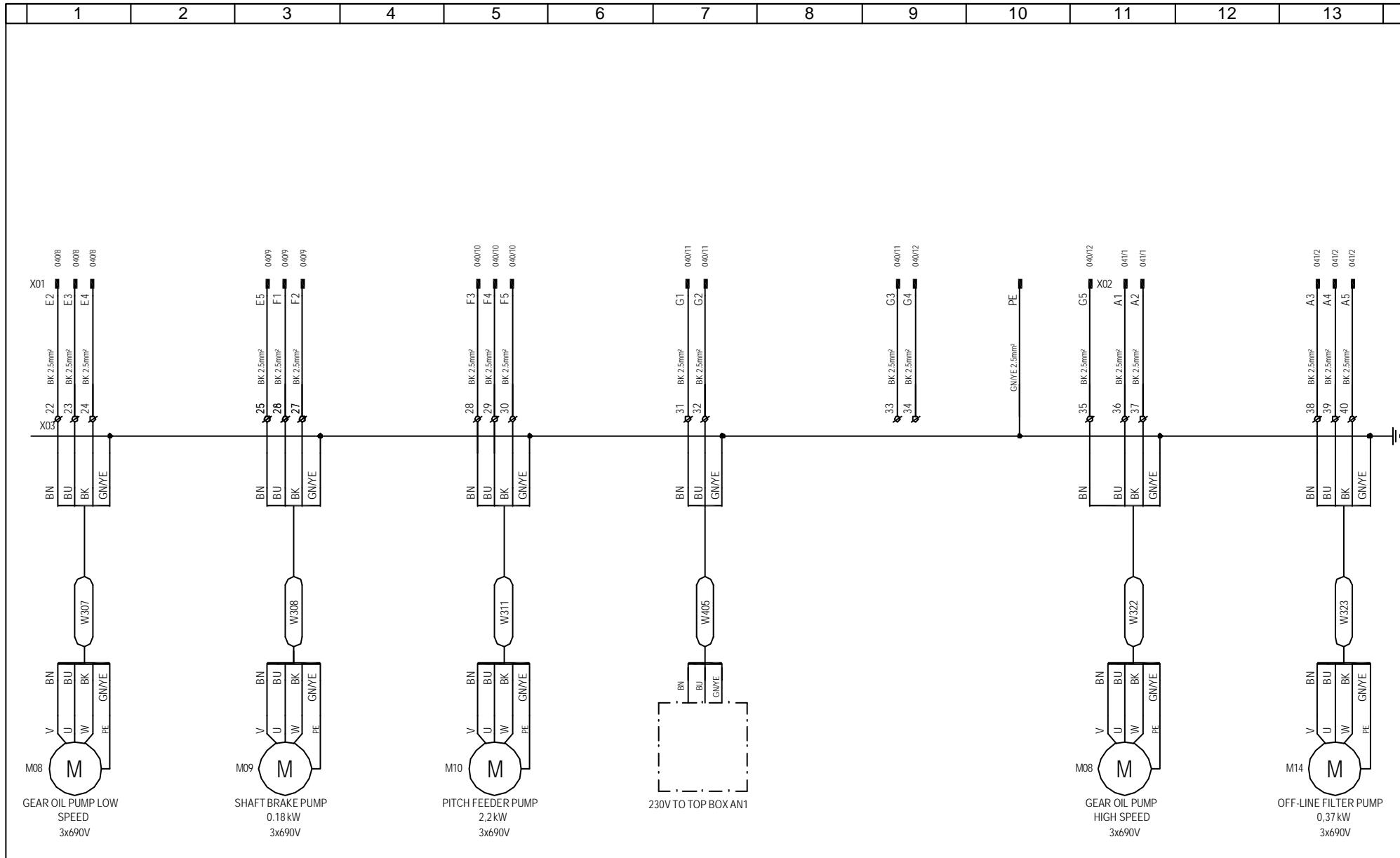


09-14 07-11-03

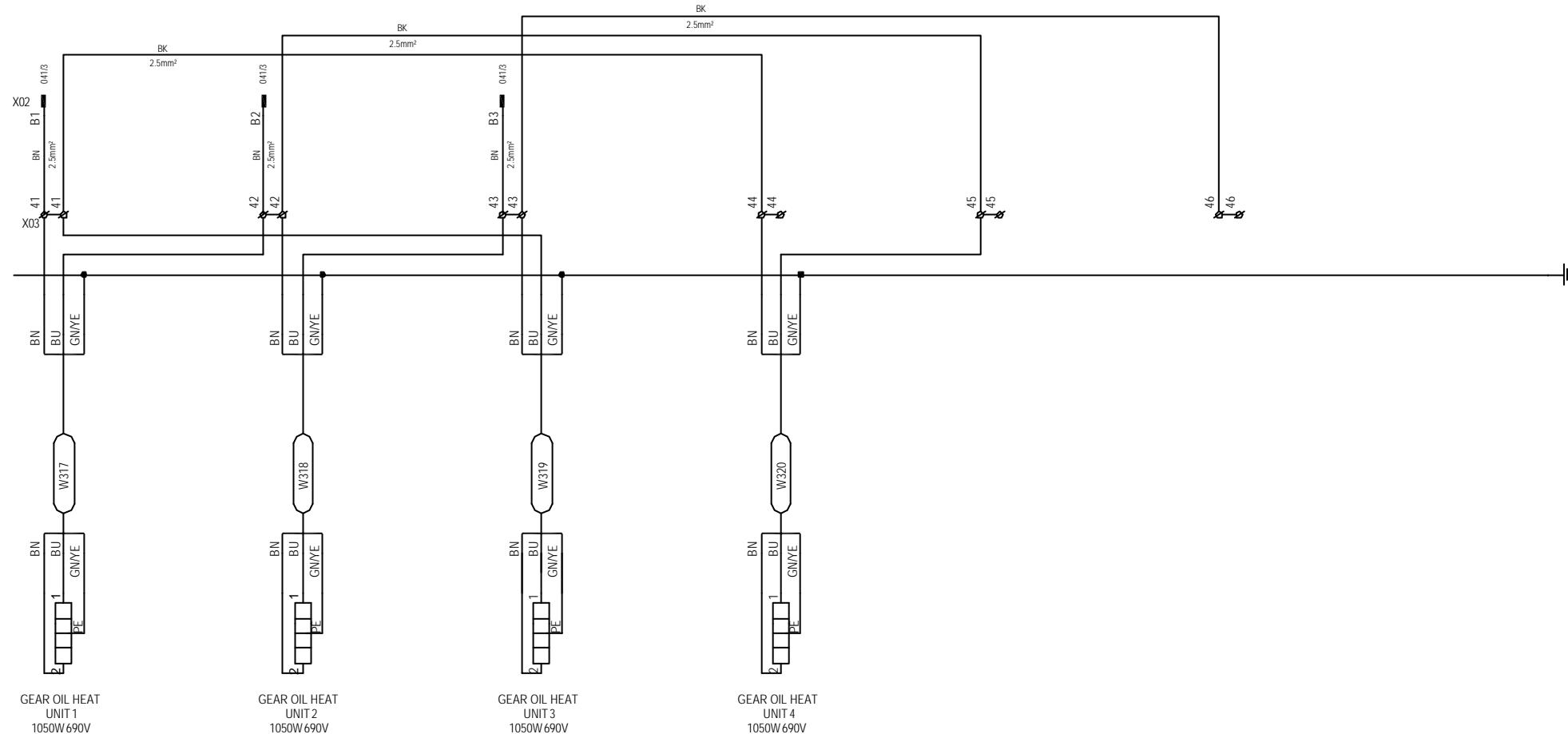


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	Date	Initials	Function	External connections		
Designed	030930	ATM	Project title	Motor box +AN4		
Approved			Comments			
Revised	031029	ATM	Rev.	-	Drawing no.	6012548
			Cont. sheet	102	Sheet	101

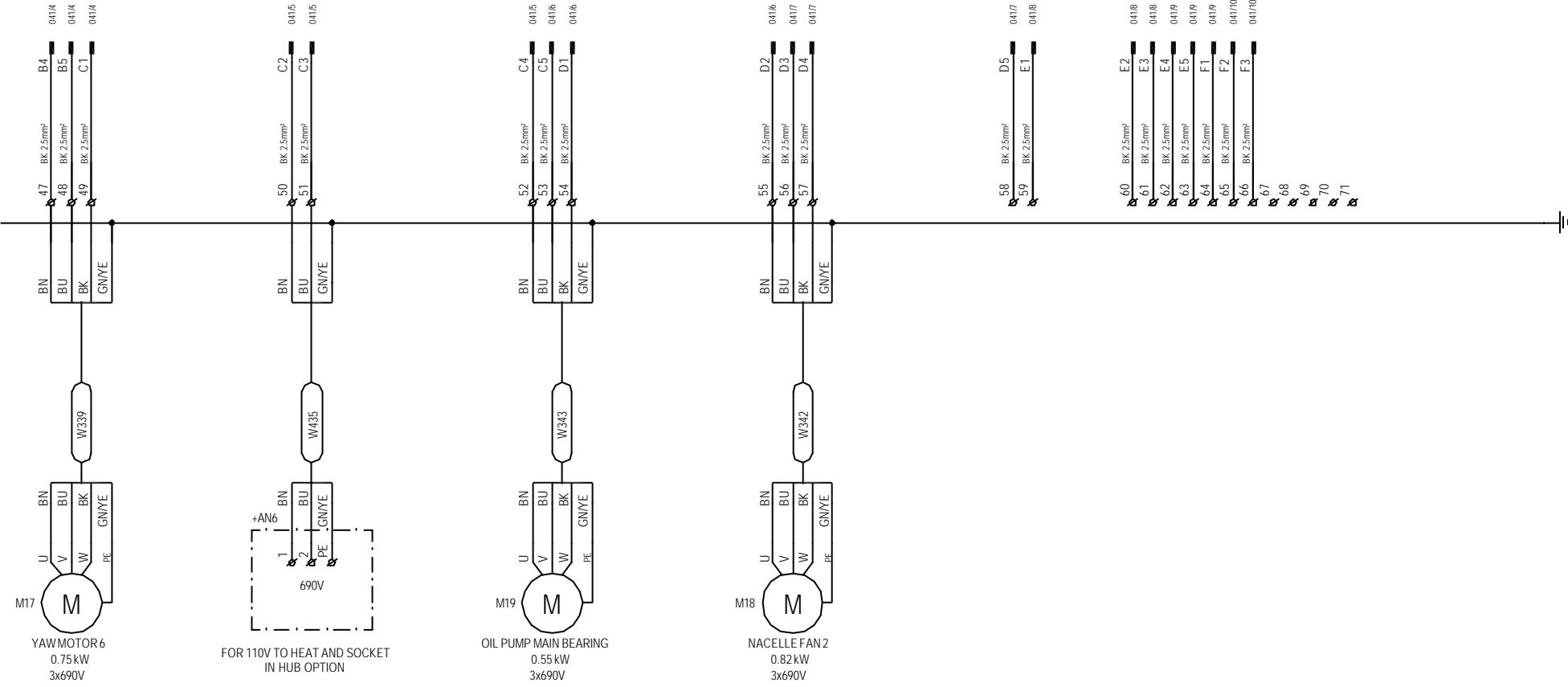


	Date	Initials	Function	External connections		
Designed	030930	ATM	Project title	Motor box +AN4		
Approved			Comments			
Revised	031029	ATM	Rev.	-	Drawing no.	6012548
			Cont. sheet	103	Sheet	102

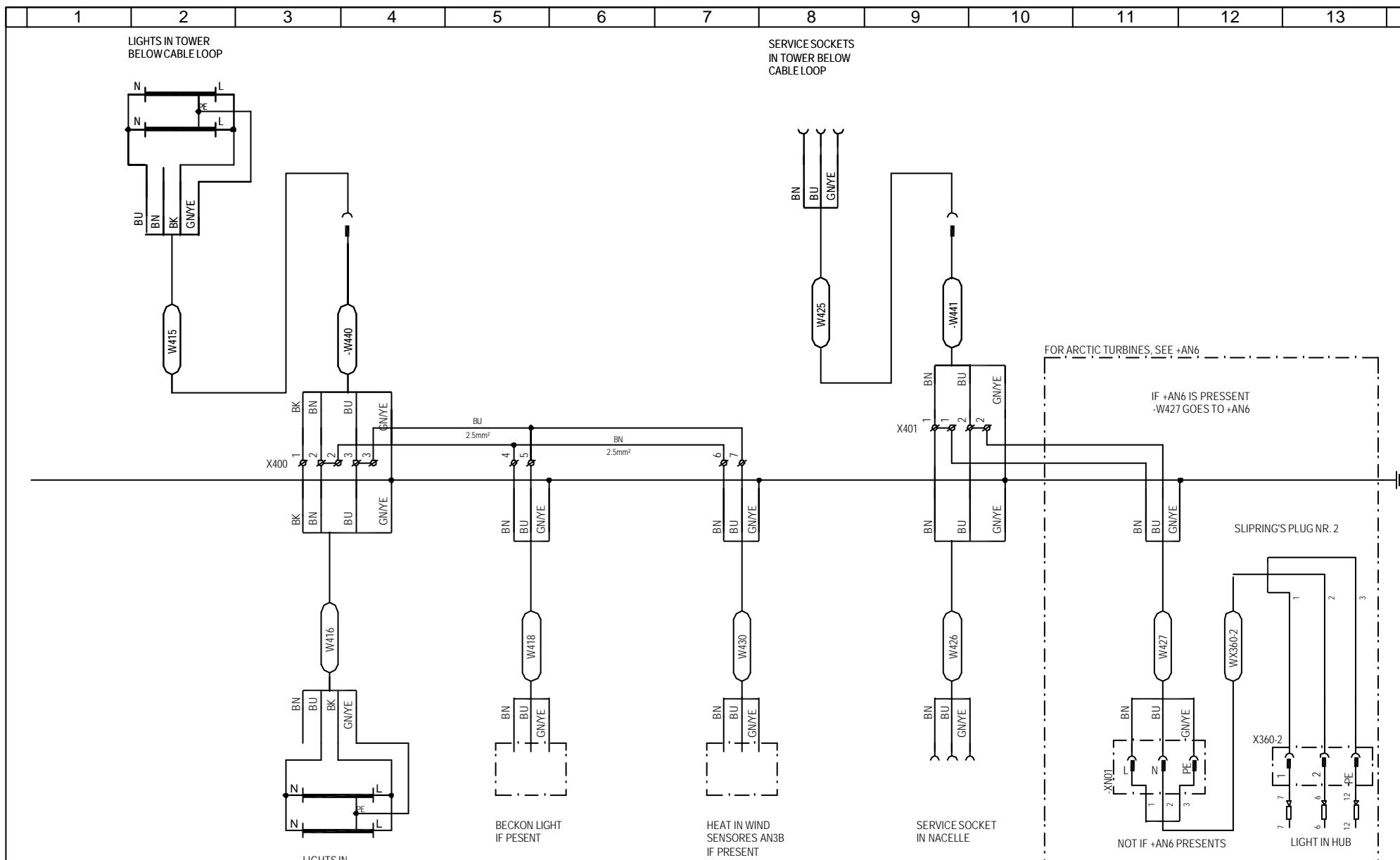


	Date	Initials	Function	External connections		
Designed	030930	ATM	Project title	Motor box +AN4		
Approved			Comments			
Revised	031029	ATM	Rev.	-	Drawing no.	6012548
			Cont. sheet	104	Sheet	103

1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	External connections		
Designed	030930	ATM	Project title	Motor box +AN4		
Approved			Comments			
Revised	031029	ATM	Rev.	-	Drawing no.	6012548
			Cont. sheet	105	Sheet	104



	Date	Initials	Function External connections							
Designed	030930	ATM	Project title	Motor box +AN4						
Approved			Comments			Customer	NEG Micon A/S			
Revised	031029	ATM	Rev.	-	Drawing no.	6012548	Cont. sheet	-	Sheet	105

11/3/2003 3:47 PM

1 / 1

LST: 21000085

Version: 01

Material	60097587			
Description	MOTOR BOX +AN4 NM72/82 IEC I/III			
Obj	Object description	Quantity	Un Sort	Strng Item text
60097605	TERM.BOX KL 800x200x120mm 1 DOOR w.WORK	1	PC	
60010402	MOUNTING PLATE KL 785x175mm w. WORK	1	PC	
60010404	WALL BRACKET for KL BOX	4	PC	
60014034	LABEL MOTOR BOX +AN4 NM72/1500C	1	PC	
60002446	THERMOLABEL "+AN4"	1	PC	
60002503	THERMOLABEL "-X01"	1	PC	
60002504	THERMOLABEL "-X02"	1	PC	
60006824	STICKER "LYN" 100mm	1	PC	
60007585	CABLE GLAND BM-EN-12 M20 PA 6	30	PC	
60007593	LOCKNUT BML-12 M20 PA 6	6	PC	
60007594	LOCKNUT BML-13 M25 PA 6	24	PC	
60007547	CABLE GLAND BS18 PG36 NYLON	1	PC	
60007559	LOCKNUT BLN18 PG36 PA 6	1	PC	
60007667	REDUCTION ADAPTER 76.13.024.395 M25-M20	24	PC	
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X01
60012595	WIRING X01 +AN4 NM1500C/72 UL	1	PC	
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X02
60012596	WIRING X02 +AN4 NM1500C/72 UL	1	PC	
60005983	TERMINAL STANDARD M4/6 115116.07	77	PC	X03
60005985	JUMPER BAR BJM6 2-POLED 168516.25	6	PC	
60005998	END SECTION FEM6 GREY 118368.16	8	PC	
60006034	END STOP 9708/2 S35	2	PC	
60012594	WIRING X400 +AN4 NM1500C/72 UL	1	PC	
60012593	WIRING X03 +AN4 NM1500C/72 UL	1	PC	
60014138	MARKER CARD RC610 Nos 1-10	1,000	SH	
60014139	MARKER CARD RC610 Nos 11-20	1,000	SH	
60014140	MARKER CARD RC610 Nos 21-30	1,000	SH	
60014141	MARKER CARD RC610 Nos 31-40	1,000	SH	
60014142	MARKER CARD RC610 Nos 41-50	1,000	SH	
60014143	MARKER CARD RC610 Nos 51-60	1,000	SH	
60014144	MARKER CARD RC610 Nos 61-70	1,000	SH	
60014145	MARKER CARD RC610 Nos 71-80	1,000	SH	
60005983	TERMINAL STANDARD M4/6 115116.07	9	PC	X400
60005993	PUSH-IN JUMPER BAR PC6 2-POLED	2	PC	
60005998	END SECTION FEM6 GREY 118368.16	4	PC	
60006034	END STOP 9708/2 S35	1	PC	
60005996	TERMINAL STANDARD M6/8 GREY 115118.11	4	PC	X401
60005998	END SECTION FEM6 GREY 118368.16	2	PC	
60006000	JUMPER BAR BJM8 2-POLED 168520.05	2	PC	
60006034	END STOP 9708/2 S35	1	PC	
60014264	MARK RC810 +AN4 MOTOR BOX NM900 UL	1,000	SH	
60006819	STICKER "JORD" 14mm	2	PC	
60007201	EARTH BAR 01130 9x6.5x1000mm	0,730	M	
60007194	DIN RAIL PP0153HZ 15x35mm	0,730	M	
60007355	CABLE CONDUIT 21159 25x60mm	0,730	M	

Change Info

Item no. **Item text:**
60019463 Top Box +AN5a for Shaft Brake

Active revision for production

Drawing number: 6010127

Revision	Date	Init./App.	Description of change since last revision
01	24.04.2003	INI /	First version in the new SAP no. system.

LST no.: 21000002 SAP part list number: 60016447

Revision	Valid from	Init./App.	Description of change since last revision
01	12.12.2002	INI /	First version in the new SAP no. system.

Old revisions for service

Drawing number: xxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

LST no.: xxxxxxxx SAP part list number: xxxxxxxx

Revision	Valid from	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 0001347



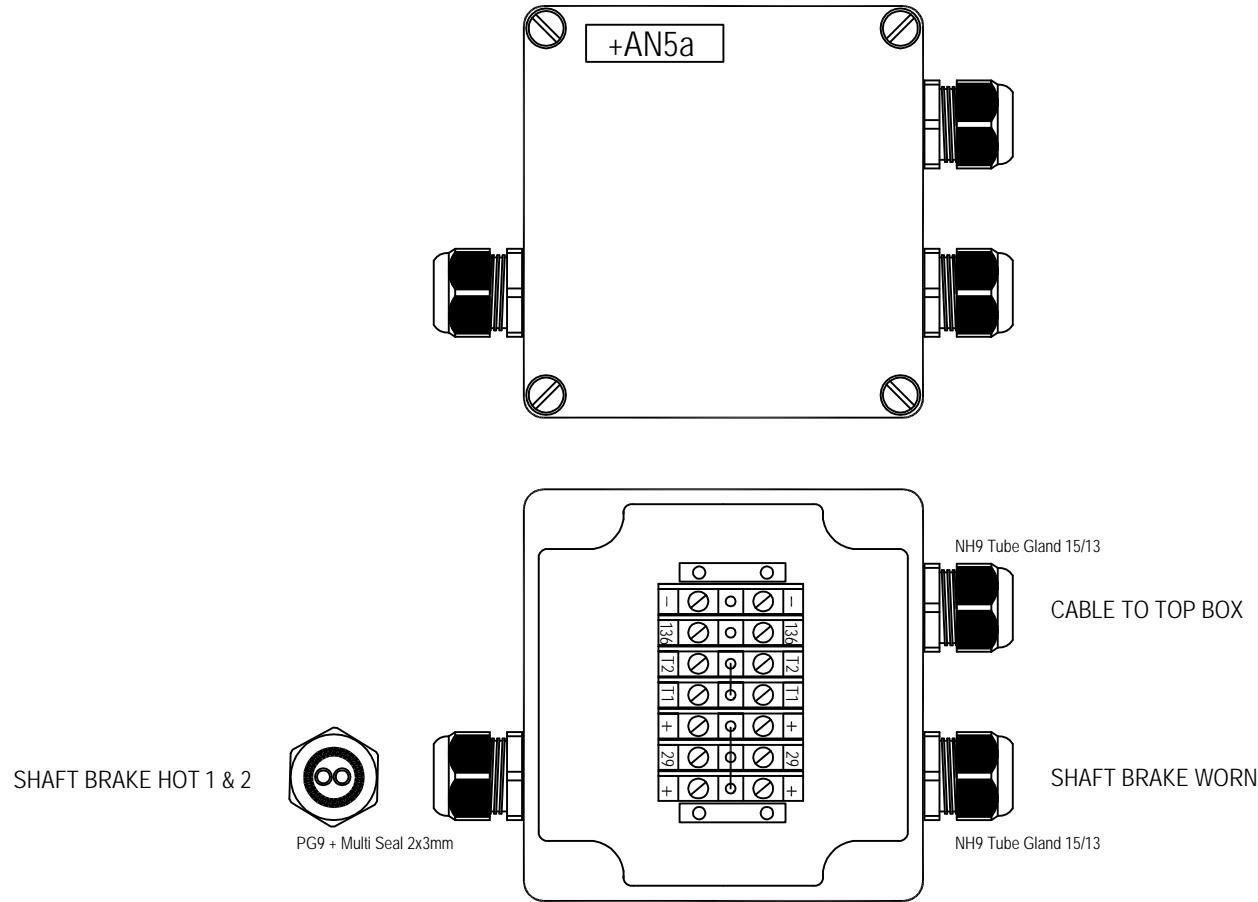
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CONTROL SYSTEMS

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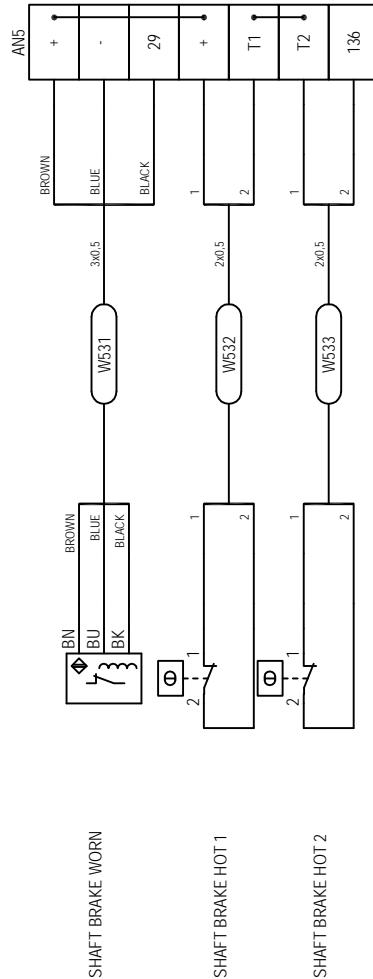
	Date	Initials	Function	Table of Contents						
Designed	010425	FLT	Project title	Top Box +AN5a for Shaft Brake						
Approved			Comments	Customer NEG Micon A/S						
Revised	030424	INI	Rev.	01	Drawing no.	6010127_000	Cont. sheet	030	Sheet	001

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0827

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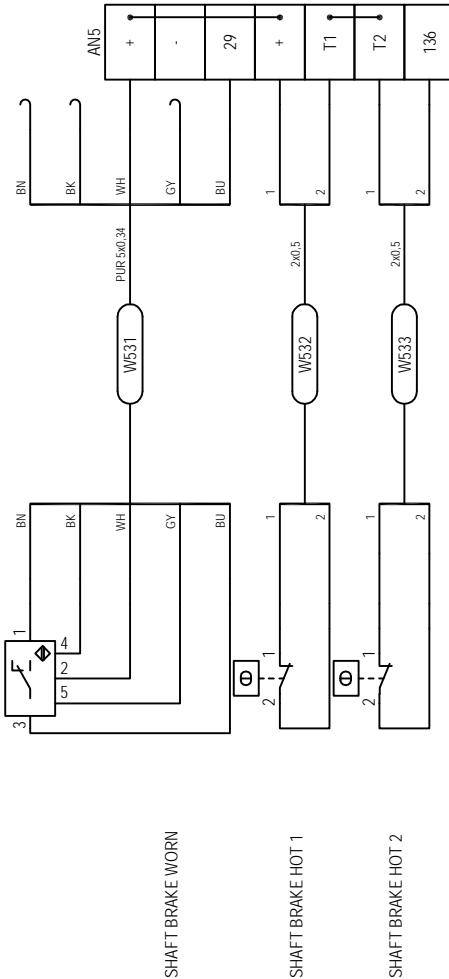
08.27 24.04.03



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	Date	Initials	Function Connections for Inductive Proximity Switch		
Designed	010425	FLT	Project title	Top Box +AN5a for Shaft Brake	
Approved			Comments	Customer	
Revised	030424	INI	Rev. -	Drawing no.	6010127_000 Cont. sheet 041 Sheet 040

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08.27



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of without our approval.

	Date	Initials	Function	Comments	Customer
Designed	010425	FLT	Project title	Top Box +AN5a for Shaft Brake	NEG Micon A/S
Approved					
Revised	030424	INI	Rev.	-	Drawing no. 6010127_000
			Cont. sheet	-	Sheet 041

5/15/2003 9:45 AM

1/1

Material 60016447

Description TOP BOX +AN5a for BRAKE NM1500

Obj	Object description	Quantity	Un Sort	Strng Item	text
60010978	BOX CT542 82*80*55mm	1		PC	
60007539	CABLE GLAND BS12 PG9 NYLON	1		PC	
60007553	LOCKNUT BLN12 PG9 PA 6	1		PC	
60007581	MULTIPLE SEAL. RING 7613005000 PG9 2*Ø3	1		PC	
60007534	HOSE CONNECTOR NH 9-15/13	2		PC	
60007553	LOCKNUT BLN12 PG9 PA 6	2		PC	
60012800	DIN RAIL with HOLES 74*5*15mm	1		PC	
60002484	THERMOLABEL "+AN5a"	1		PC	
60005978	TERMINAL MINIATURE DIN2 DR4/6 4.0mm ²	7		PC	
60005980	END SECTION FEDR61 117600.03	1		PC	
60005981	JUMPER BAR BJM62 f.DR4/6 2-POL 173217.26	1		PC	
60005982	JUMPER BAR BJM62 f.DR4/6 3-POL 173218.07	1		PC	
60006037	END STOP E/MK1 1421659	2		PC	
60014228	MARK RC65 1 +AN5 JUNCTION BOX	1,000		SH	
60008707	CABLE 5*1.0mm ² Y-JZ IEC	7,500		M	

Change Info

<i>Item no.</i>	<i>Item text:</i>
None	Transformer Box +AN6, NM72/1650, NM 82/1650 690V 50Hz

Active revision for production

Drawing number: 6012953

Version	Date	Init./App.	Description of change since last revision
01	dd.mm.yyyy	xx/	Under Construction

LST number: 21000086

Version	Date	Init./App.	Material BOM number: xxxxxxxx
01	dd.mm.yyyy	xx/	Description of change since last revision Under Construction

Old revisions for service

Drawing number: xxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xx/	Writhe the change.

LST number: xxxxxxxx

Version	Date	Init./App.	Material BOM number: xxxxxxxx
xx	dd.mm.yyyy	xx/	Description of change since last revision Writhe the change.

Change Info

<u>Item no.</u>	<u>Item text:</u>
60019479	Hub Computer Panel +AK4, NM72-82 EVO II, 50/60Hz

Active revision for production

Drawing number: 6010128

Version	Date	Init./App.	Description of change since last revision
04	01.10.2003	INI /KSS	<p>Page 001 and 002: Updated. Page 030: B062 and PE bar added. Page 031: -X06 removed, -K02, -K03, -X09, and-X07 moved. Page 032: Label added on the enclosure, text for X03 updated. Page 033: Lay out updated. Page 034, 035 and 036: New pages. Page 040: X04 changed, F01.1 added W953 ID changed. Page 041 and 080: Connection for Slip rings updated. Page 085: Slip ring 12, PE added. Page 070: Cable ID W922 corrected. -X15 color WH changed to BU. Text to -X18 corrected. Page: 101, 102, 103, 105, 215, 312, 313, 600, 601 and 602 cable color, references text, earth, changed or added. Page 110: Terminal X06 removed. Text X06 added. Cable color changed to LB. Page 210: B406 moved. -X01 cable color changed to DB 1,5.</p>

LST no.: 21000000

Version	Date	Init./App.	Description of change since last revision
04	07.10.2003	KSS/KSS	NMCS label, comp. marking added. End stop, screws and cable conduit changed

LST no.: 21000054

Version	Date	Init./App.	Description of change since last revision
01	02.09.2003	INI / KSS	First version in SAP no. system.

LST no.: 21000055

Version	Date	Init./App.	Description of change since last revision
01	23.09.2002	KSS / KSS	First version in SAP no. system.

Old revisions for service

Drawing number: 6010128

Version	Date	Init./App.	Description of change since last revision
03	10.07.2003	INI / KSS	<p>Page 001 and 002: Updated. Page 041: W513 wire color added Page 080: W990 wire numbers changed to color Page 001 and 002: Updated. Page 031: Terminal row no. and option added. F01 changed to automatic fuse. X06 and X08 moved. Page 041: New page added. Page 070: References added. Wire color changed. W919 corrected to W900. Page 071: References added. Option with measure equipment added. Page 072, 073, 074, 075, 076 and 077: Reference K01 added. Page 080 and 085: Slip rings corrected. Page 102: F02, text 4A added. Page 110: X06 and connection to CEE plug added. Text K03 added. Page 210: PE added. Terminal X06 changed to X15. Page 211, 212 and 213: PE added. Page 215: Option with measure equipment added. Page 216: B057 moved from terminal 67, 68 to 69, 70. Page 313: F02 changed to automatic fuse 10A.</p>
02	16.06.2003	INI / KSS	<p>First version in the new SAP no. system.</p>
01	22.04.2003	INI / KSS	

LST no.: 21000000

BOM number: 60017297

Version	Date	Init./App.	Description of change since last revision
03	02.09.2003	INI/ KSS	Type sign 60002778 changed to 60093555.
02	25.06.2003	INI / KSS	F01 automatic fuse 10 A C
01	17.02.2003	INI / KSS	First version in the new SAP no. system.

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 00020659

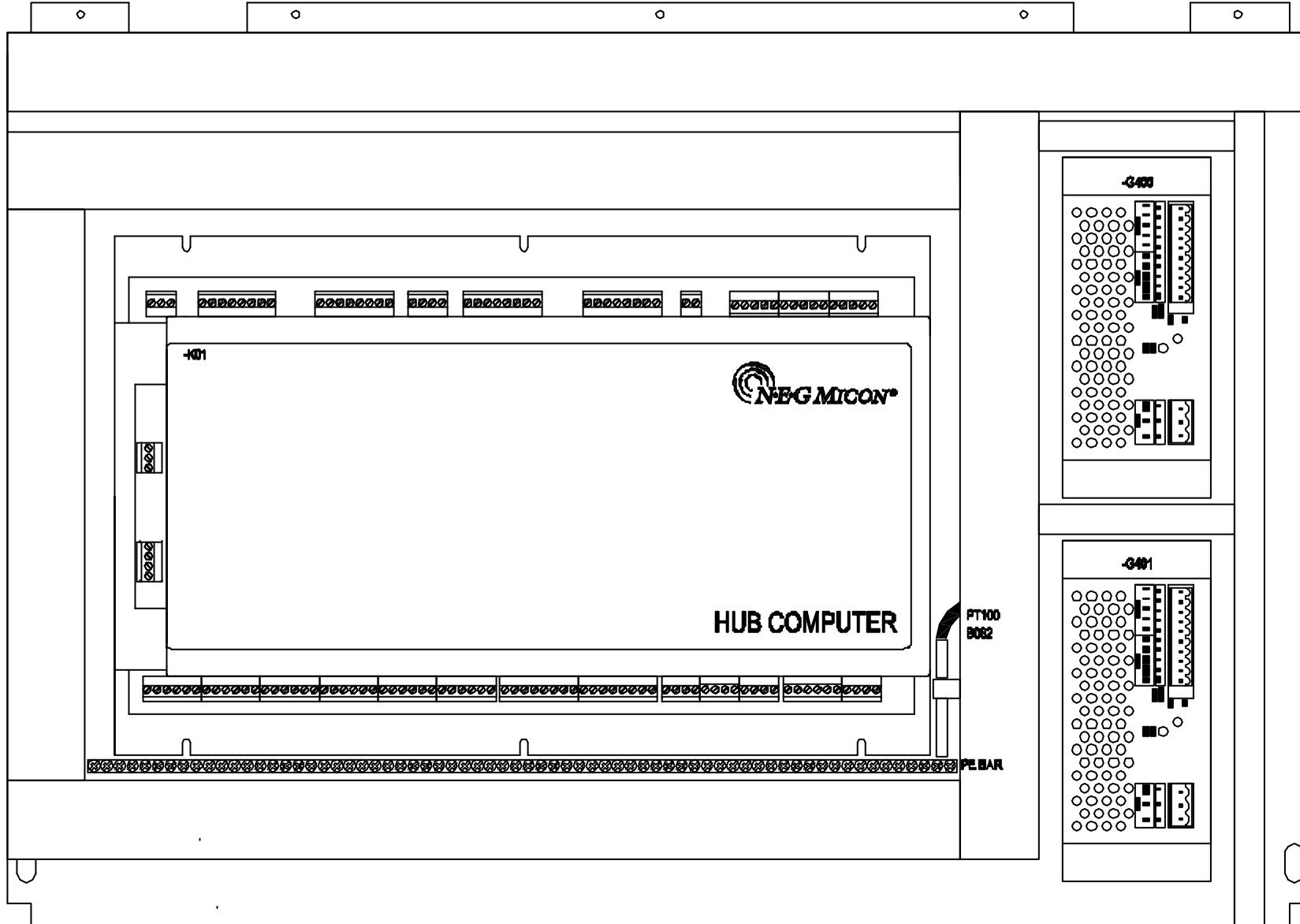
1	2	3	4	5	6	7	8	9	10	11	12	13
PAGE	CONTENT							DATE		REVISION		
001	Table of Contents							031001		04		
002	Table of Contents							031001		04		
030	Panel Outline							031001		—		
031	Plant outline							031001		—		
032	Plant outline							031001		—		
033	Bottom layout of glands							031001		—		
034	Panel Front							031001		—		
035	X06 CE Plug 60011426							031001		—		
036	X06 UL Socket 60002508							031001		—		
040	External connections							031001		—		
041	Connection for sliprings							031001		—		
059	Terminal layout X09							030422		—		
061	External connections							030422		—		
062	External connections							030422		—		
070	External connections inpu							031001		—		
071	External connections inpu							030616		—		
072	External connections inpu							030616		—		
073	External connections outp							030616		—		
074	External connections outp							030616		—		
075	External connections outp							030616		—		
076	External connections outp							030616		—		
077	External Connections Prop							030616		—		
080	Connestions f. Sliprings							031001		—		
085	Slipring view							031001		—		
100	Power supply 24V DC Propv							031001		—		
101	Power supply 24V DC norma							031001		—		
102	Power supply for Input X1							031001		—		
103	Isolation amplifier 4–20m							031001		—		
105	Emergency relay 24 V DC3							031001		—		
110	OPTION Terminal layout he							031001		—		
210	Digital input -X15 D1 =							031001		—		
211	Digital input -X16 D5 =>							030616		—		
212	Digital input -X17 CNT1							030616		—		
213	Digital input -X18 D9 =							030616		—		
214	Digital input -X18 Press							030422		—		
215	Analog input -X19 AN1 =							031001		—		



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	Date	Initials	Function	Table of Contents					
Designed	020628	KSS	Project title	Hub Computer Panel +AK4					
Approved			Comments	NM72 - NM72C - NM82			Customer	NEG Micon A/S	
Reviced	031001	INI	Rev.	04	Drawing no.	6010128	Cont. sheet	030	Sheet

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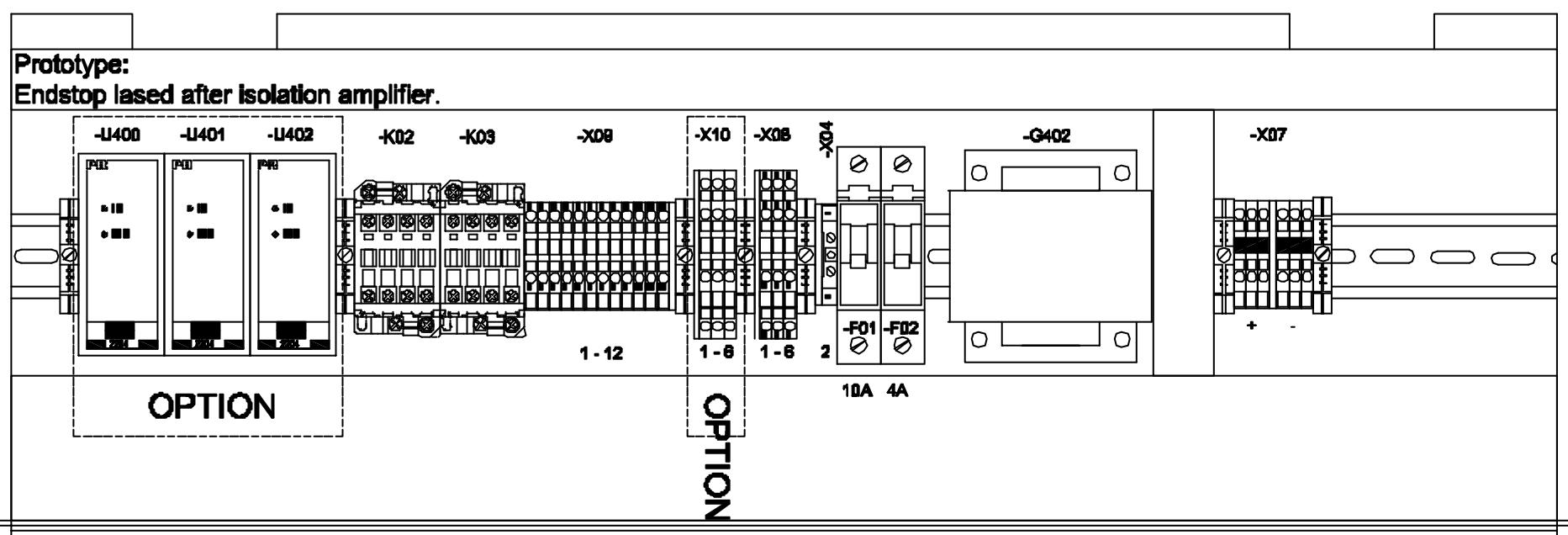


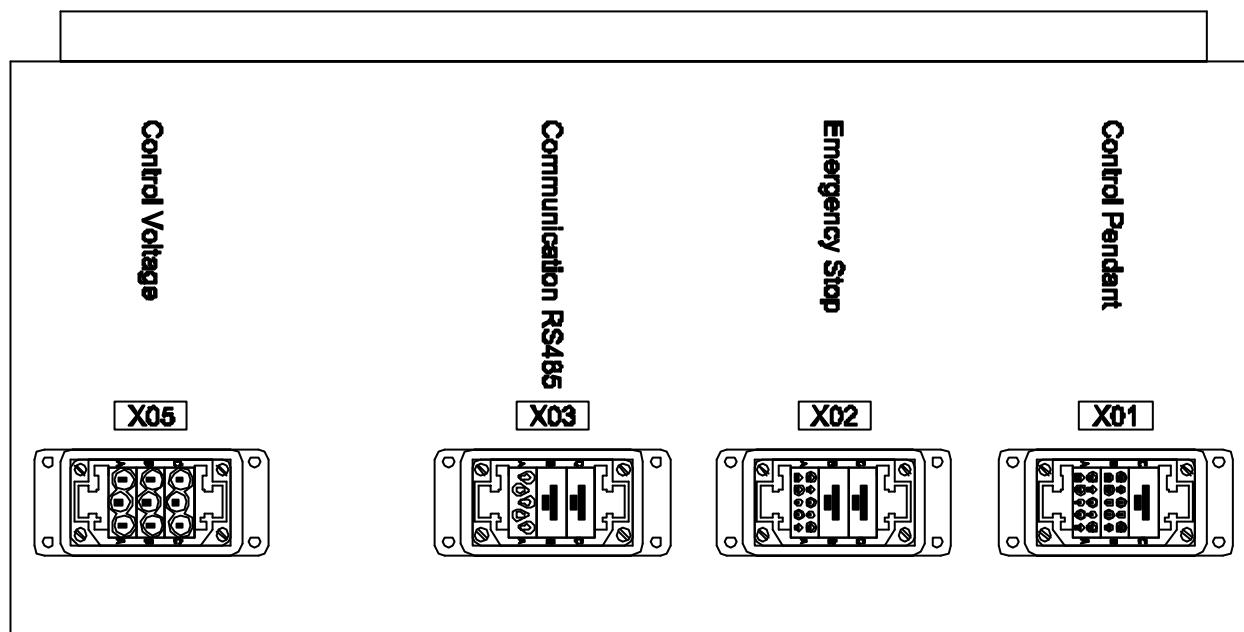
03.10.03
11.07



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	Date	Initials	Function	Panel Outline
Designed	020628	KSS	Project title	Hub Computer Panel +AK4
Approved			Comments	NM72 - NM72C - NM82
Revised	031001	INI	Rev.	Drawing no. 6010128
			Cont. sheet	031
			Sheet	030





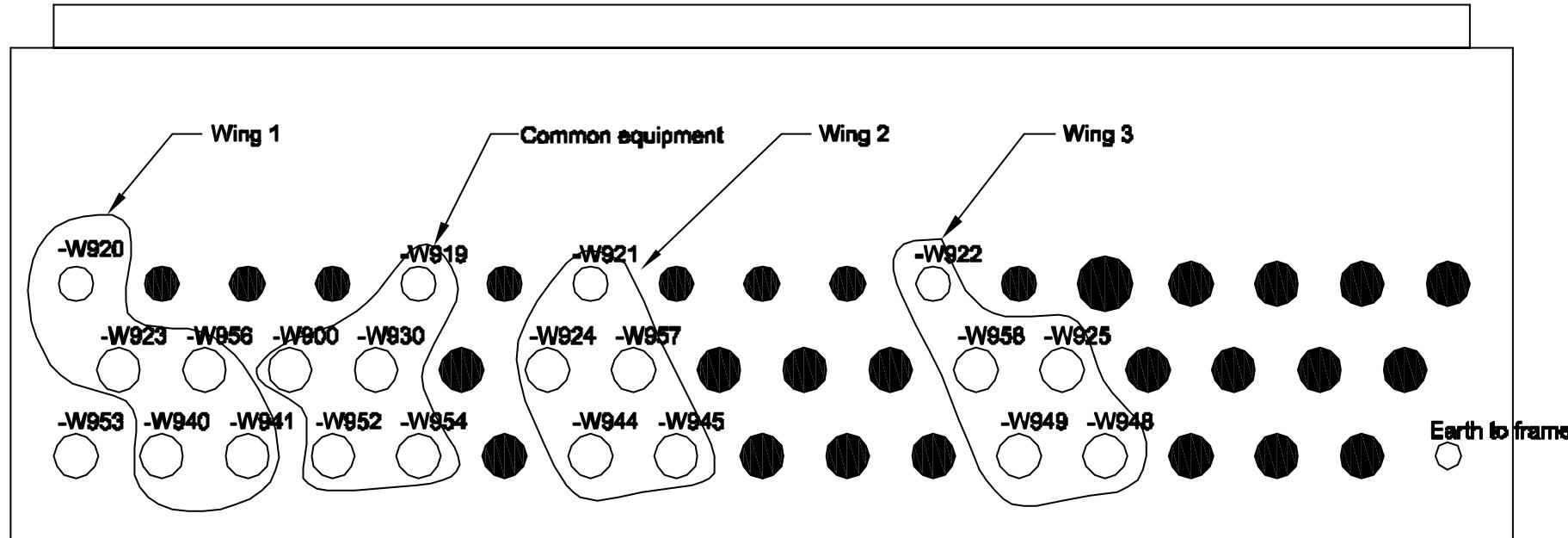
Module C: C1 and C2 230V AC Heating
 Module B: 1 and 2 24 V DC After Emergency
 Module A: A1 and A2 230V AC Power supply

Module C: Blind
Module B: Blind
Module A: 1,3 and 5

Module C: Blind
Module B: Blind
Module A: 1 and 3

Control Pendant

	Date	Initials	Function	Plant outline		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
				Customer	NEG Micon A/S	
				Cont. sheet	033	Sheet
						032



Bottom

	Date	Initials	Function Bottom layout of glands		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4	
Approved			Comments	NM72 - NM72C - NM82	Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no. 6010128
			Cont. sheet	034	Sheet 033

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03.10.03
11.07

NEG MICON®
CONTROL SYSTEMS

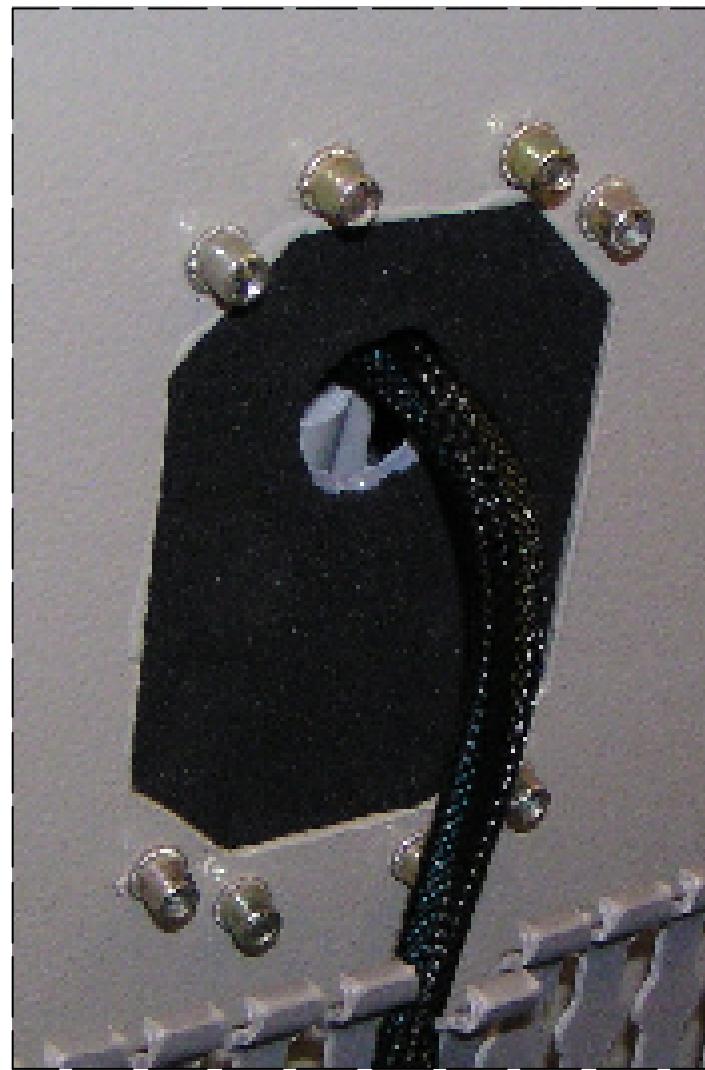
Property of NEG Micon
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	Date	Initials	Function	Panel Front		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 035 Sheet 034

1	2	3	4	5	6	7	8	9	10	11	12	13
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PANEL OUTSIDE



PANEL INSIDE

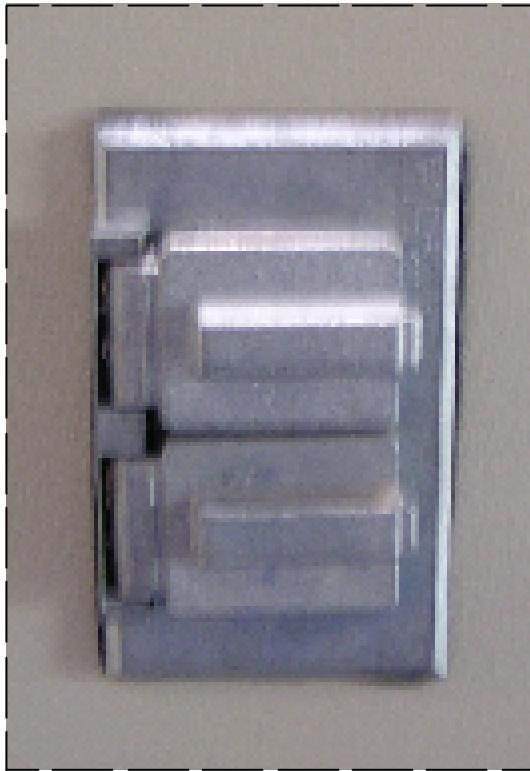
03.10.03
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NEG MICON®
CONTROL SYSTEMS

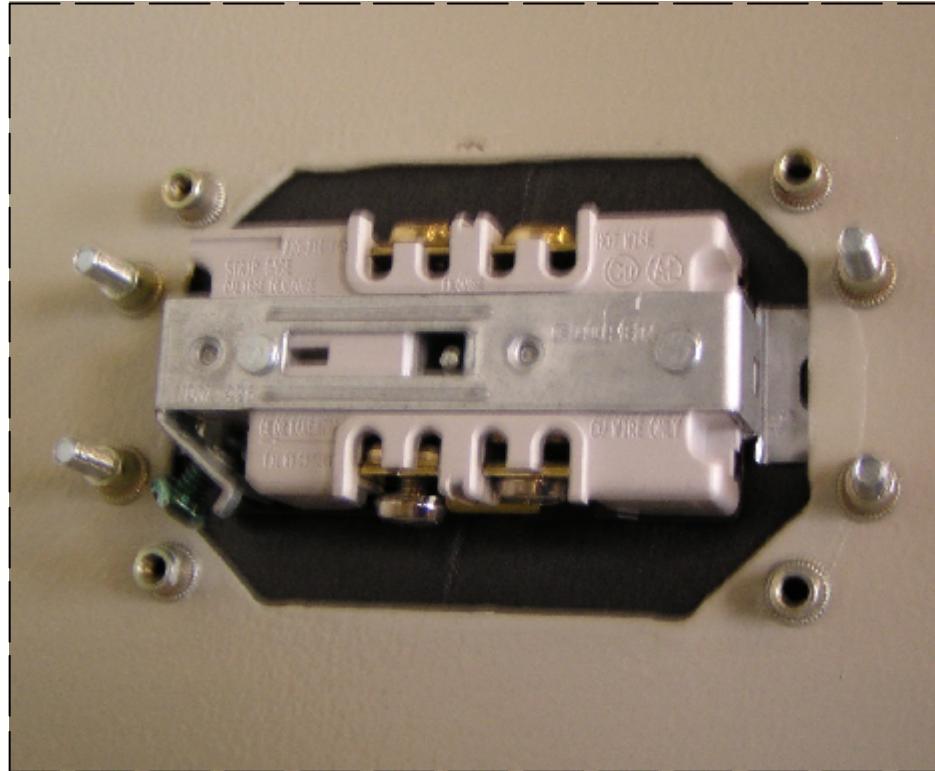
Property of NEG Micon
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	Date	Initials	Function	X06 CE Plug 60011426		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	036	Sheet	035

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PANEL OUTSIDE



PANEL INSIDE

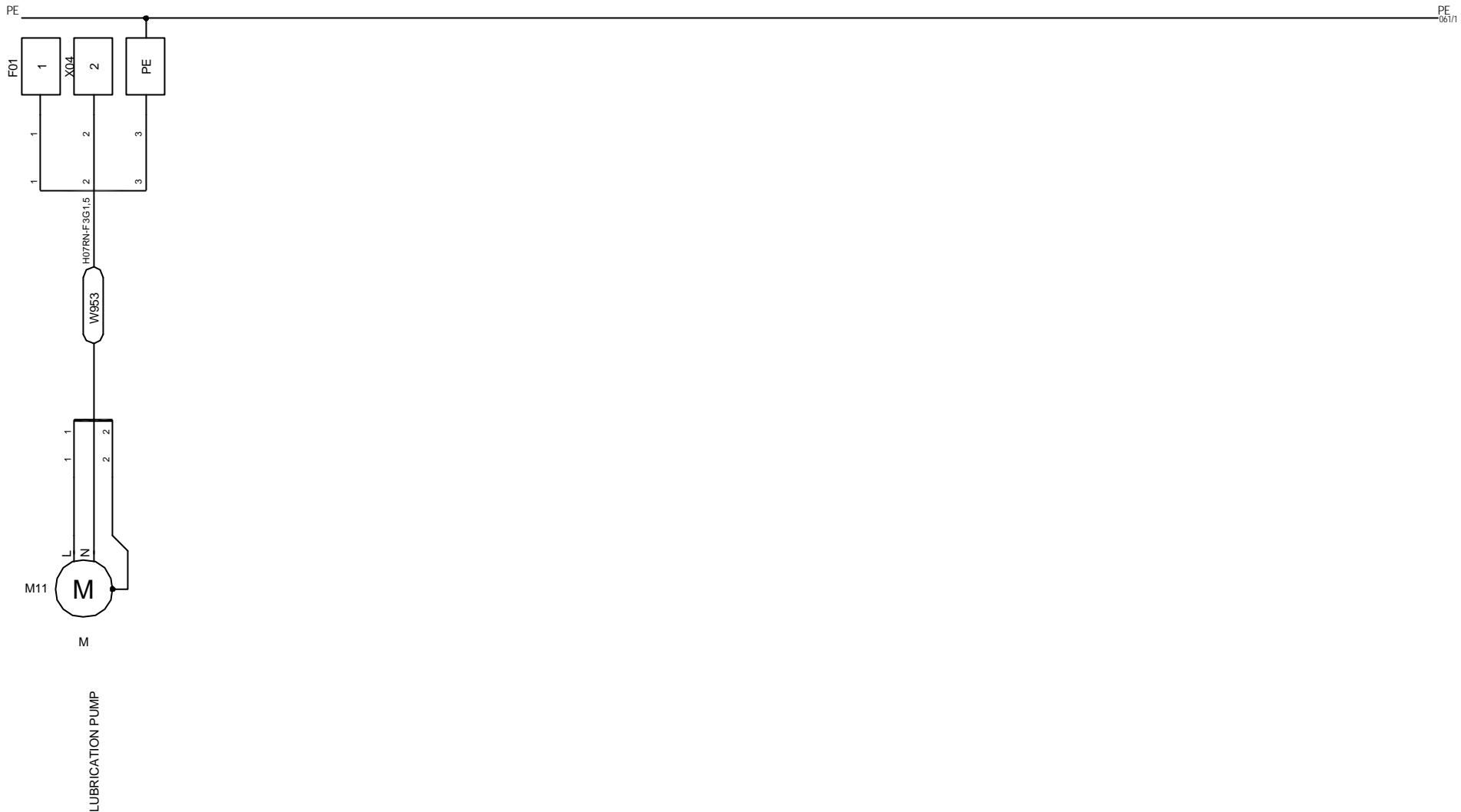
03.10.03
11.07



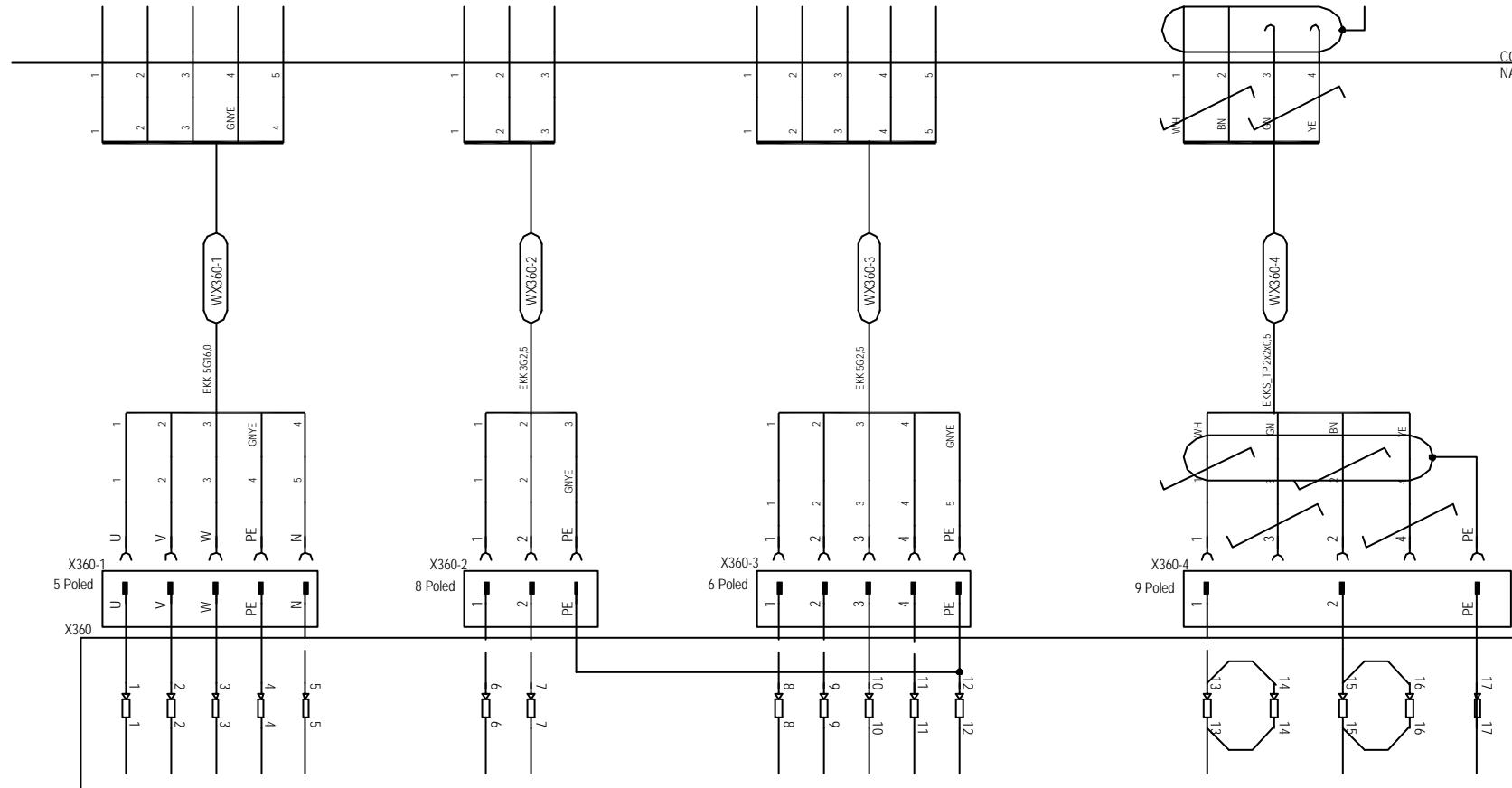
Property of NEG Micon
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	Date	Initials	Function	X06 UL Socket 60002508		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82	Customer	NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
				Cont. sheet	040	Sheet
						036

	1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	External connections		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82	Customer	NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	041	Sheet	040

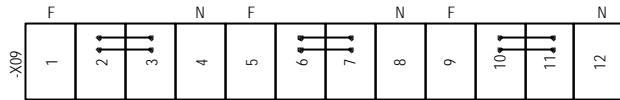


CONNECTION POINT IN THE
NACELLE PANEL

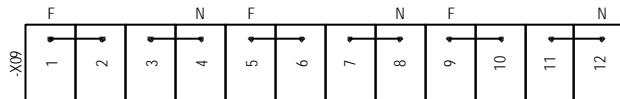
Wire WH and BN is the first pair
these have to be twisted
wire GN and YE is the second pair
these have to be twisted

	Date	Initials	Function	Connection for sliprings		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	059	Sheet	041

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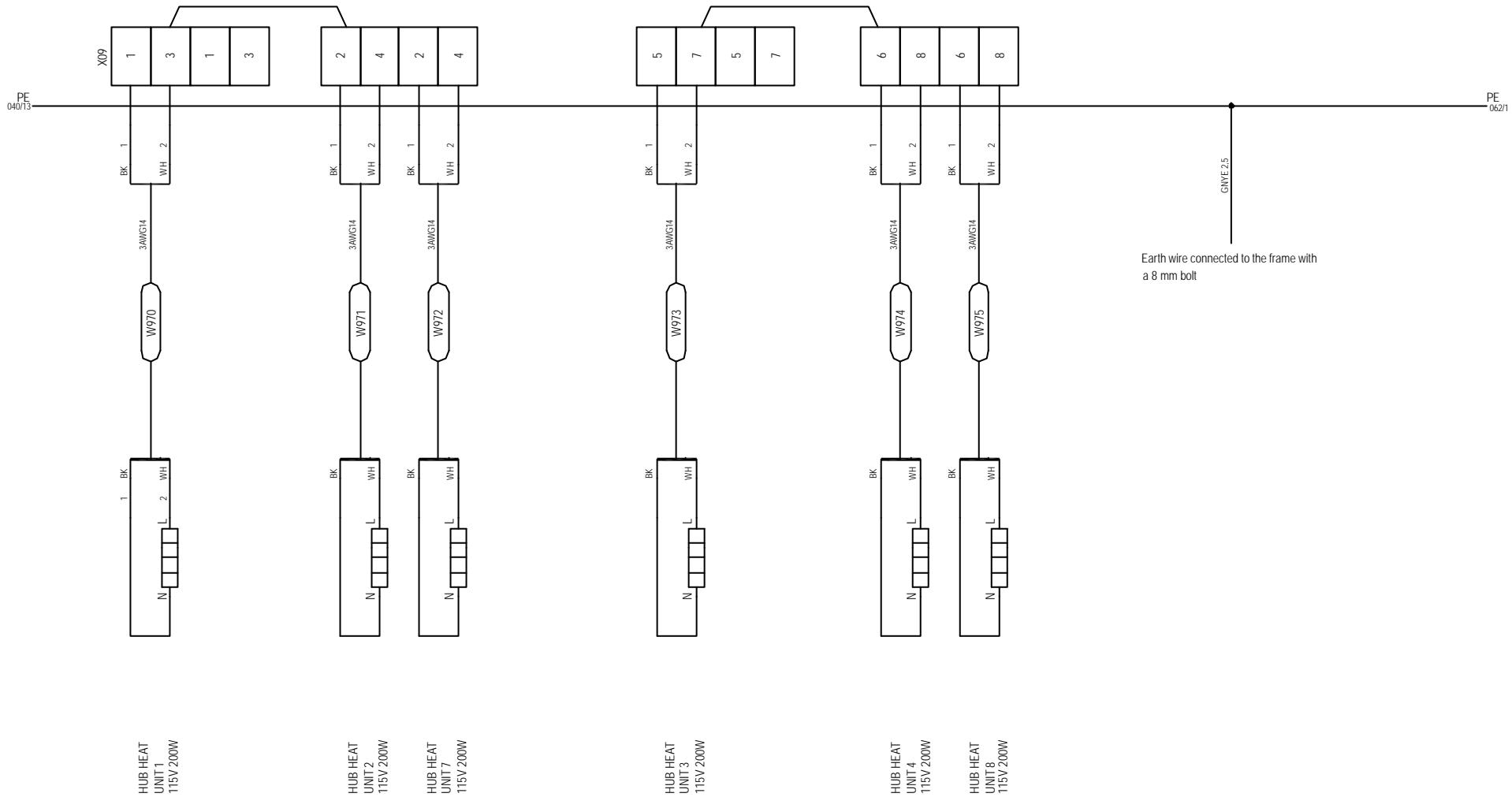
Connection of heating elements - series connection
230V AC IEC Turbines connections.



Connection of heating elements - parallel connection
110V UL AC Turbines connections.

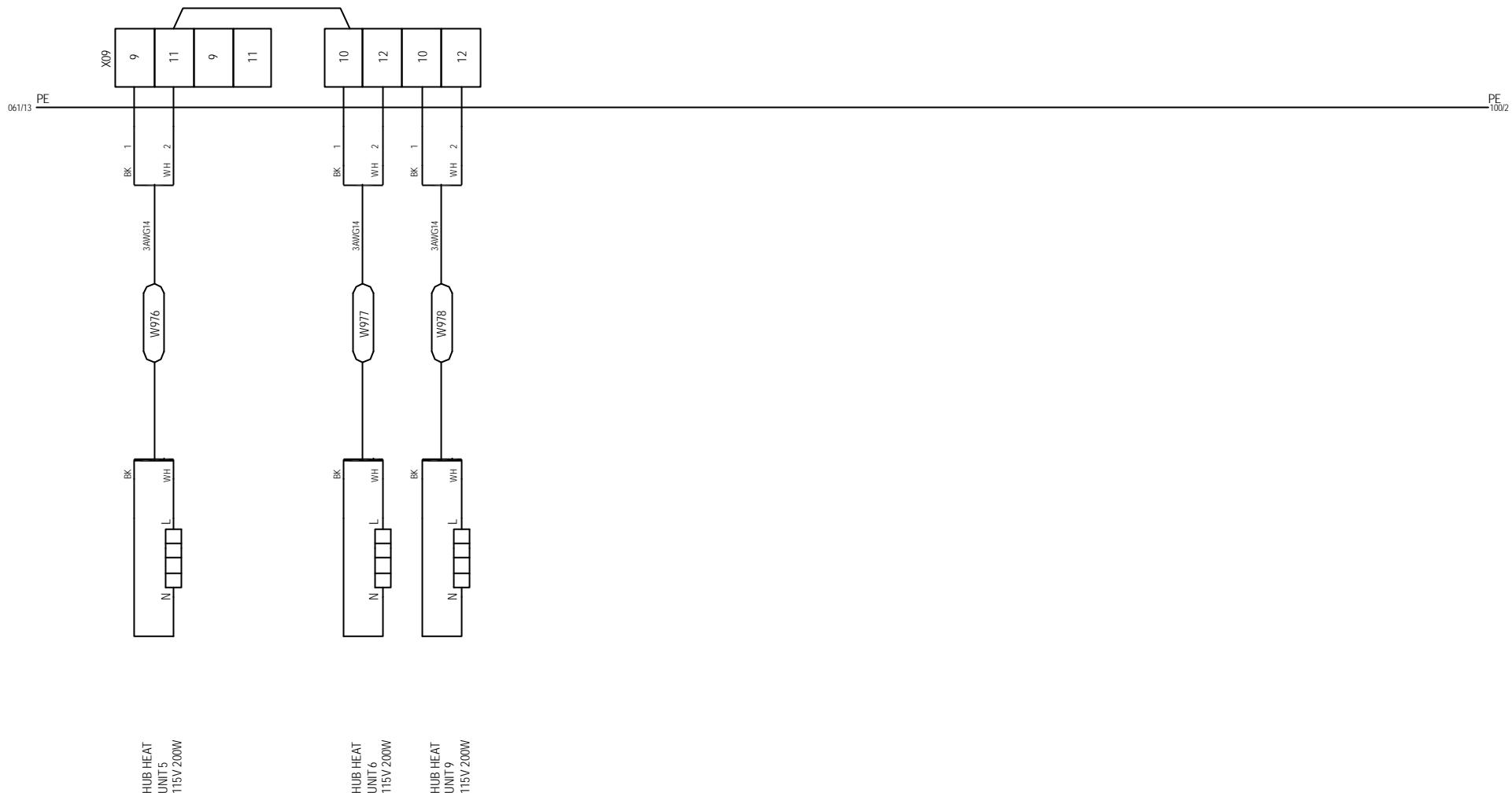
	Date	Initials	Function	Terminal layout X09		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030422	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 061 Sheet 059

HEAT UNIT CONNECTION IN TURBINES



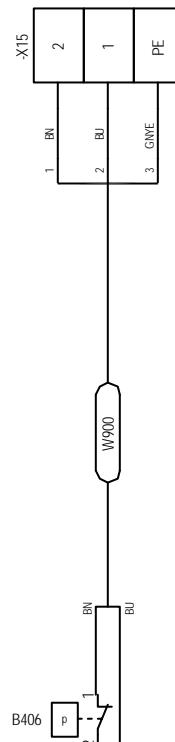
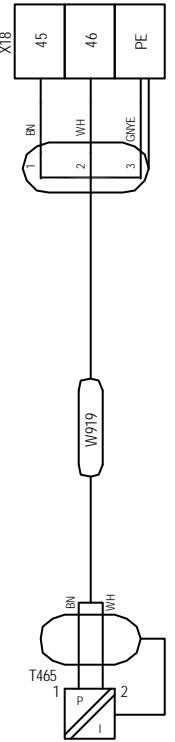
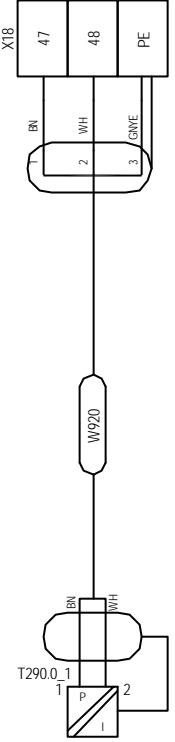
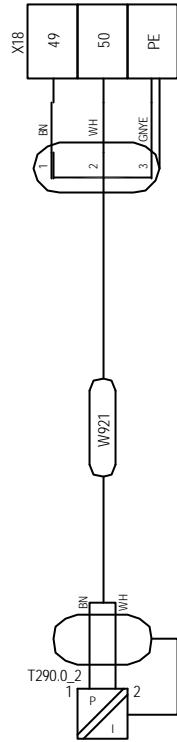
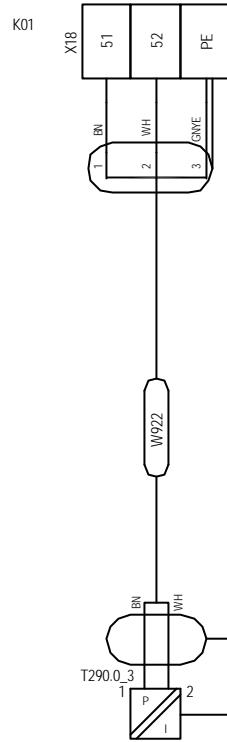
	Date	Initials	Function	External connections		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	062	Sheet	061

HEAT UNIT CONNECTION IN TURBINES

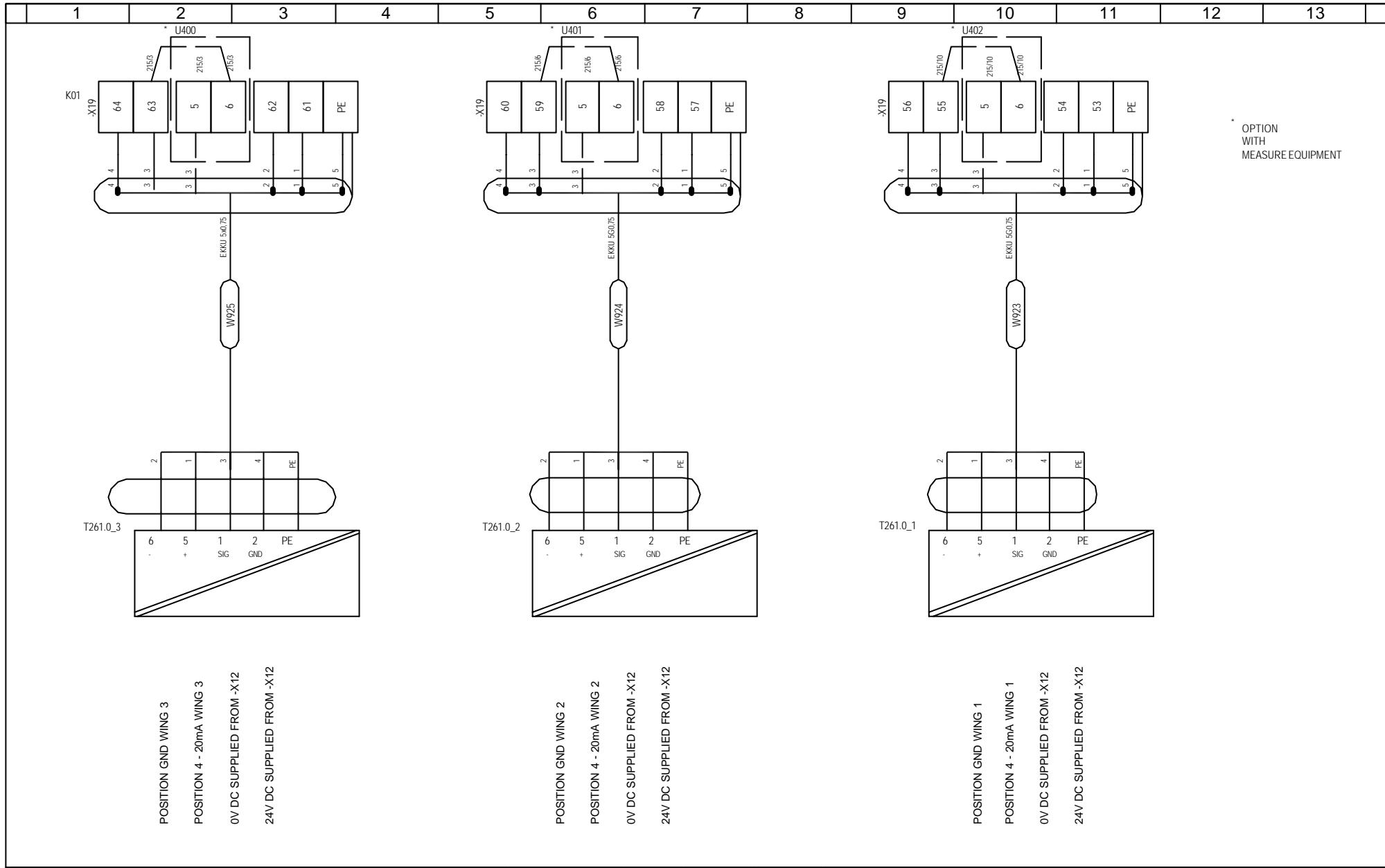


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Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	070	Sheet	062

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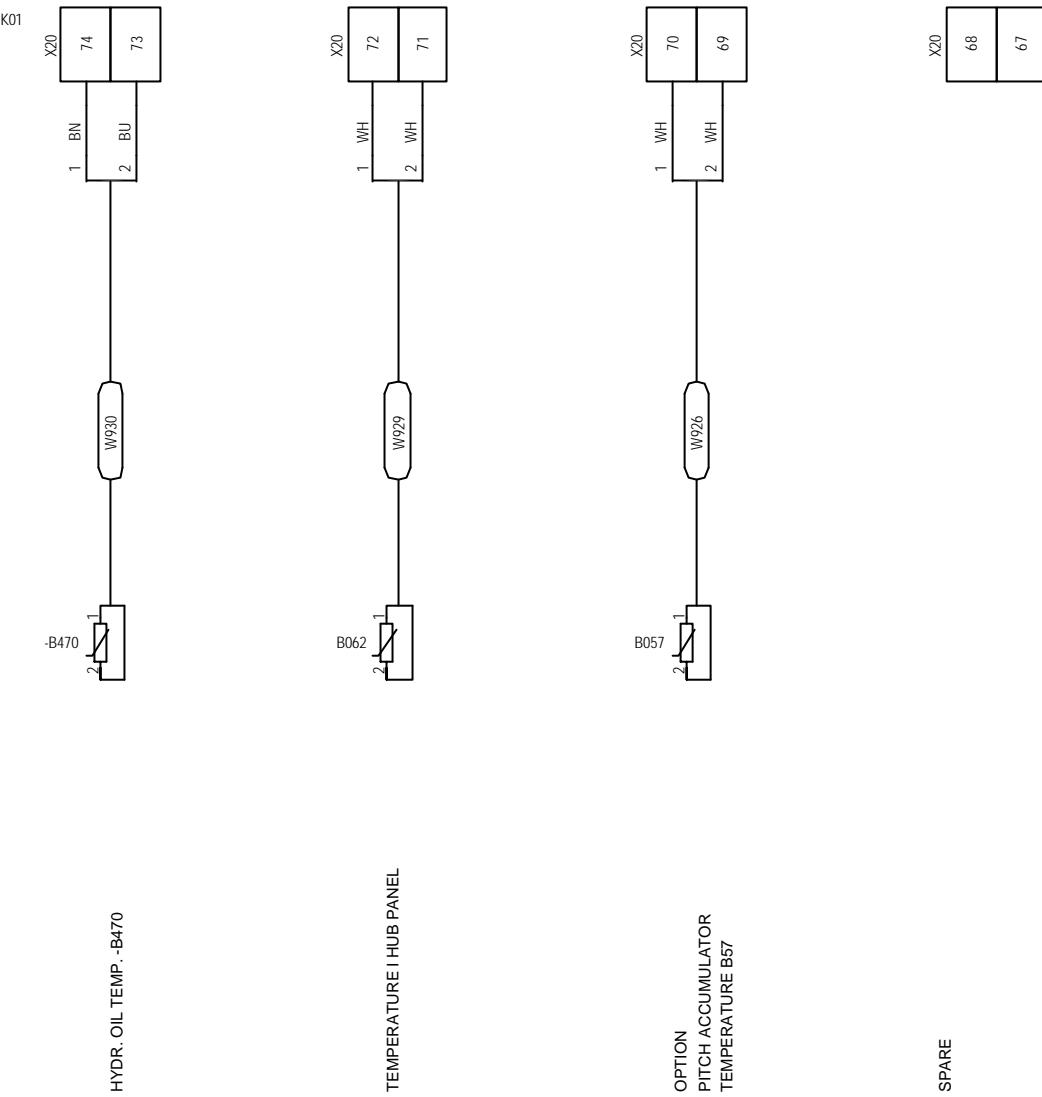


	Date	Initials	Function	External connections input analog		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	071	Sheet	070



	Date	Initials	Function	External connections input analog		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030616	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	072	Sheet	071

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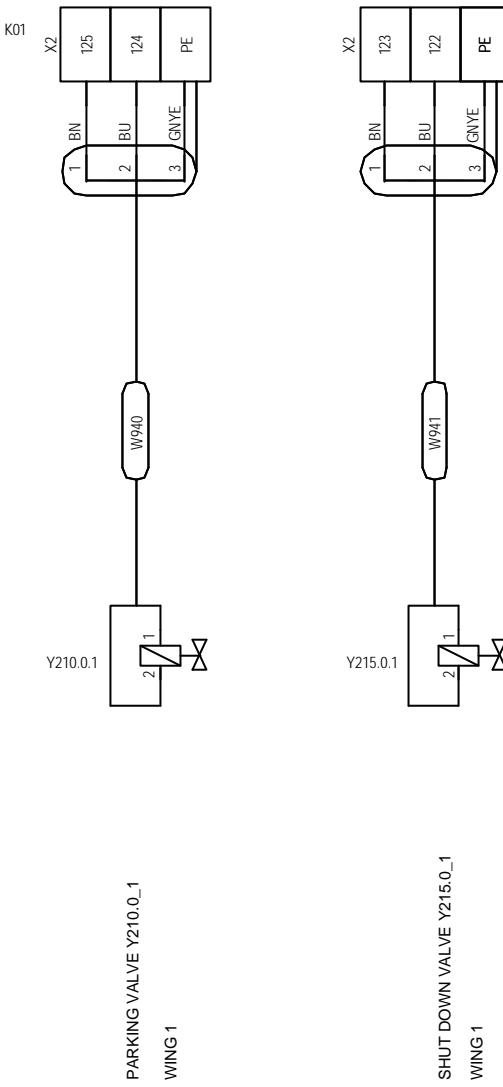


11.07.03.10.03



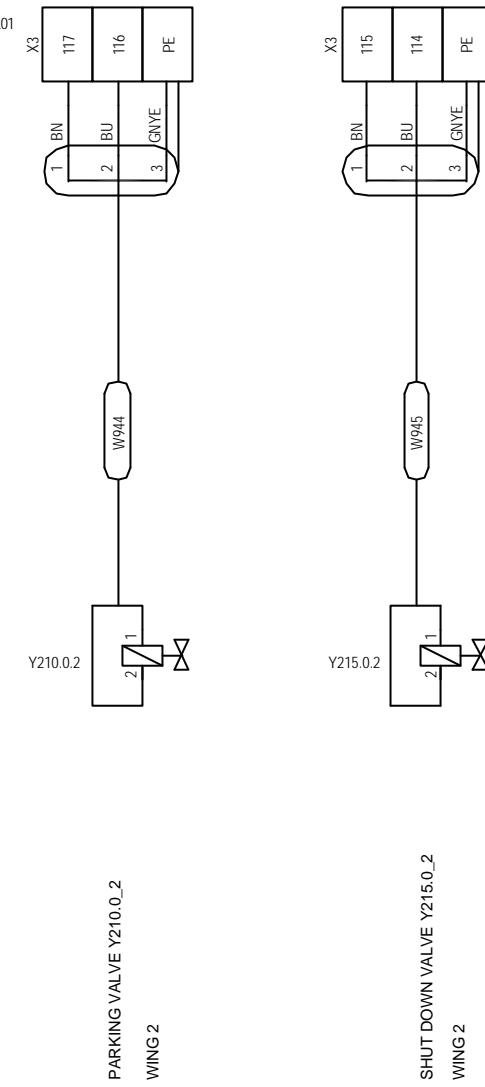
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	Date	Initials	Function	External connections input analog		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030616	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 073 Sheet 072



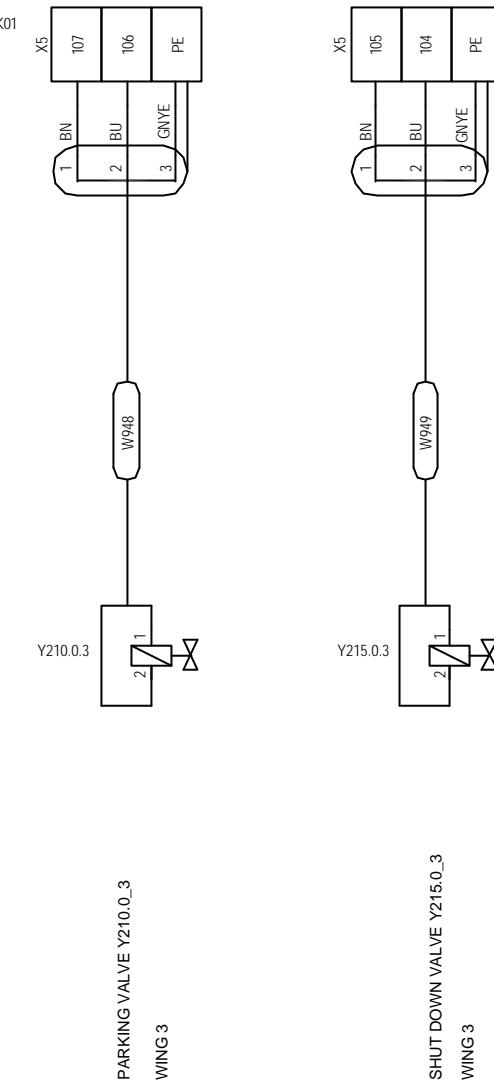
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Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030616	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 074 Sheet 073

1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	External connections output analog		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030616	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	075	Sheet	074

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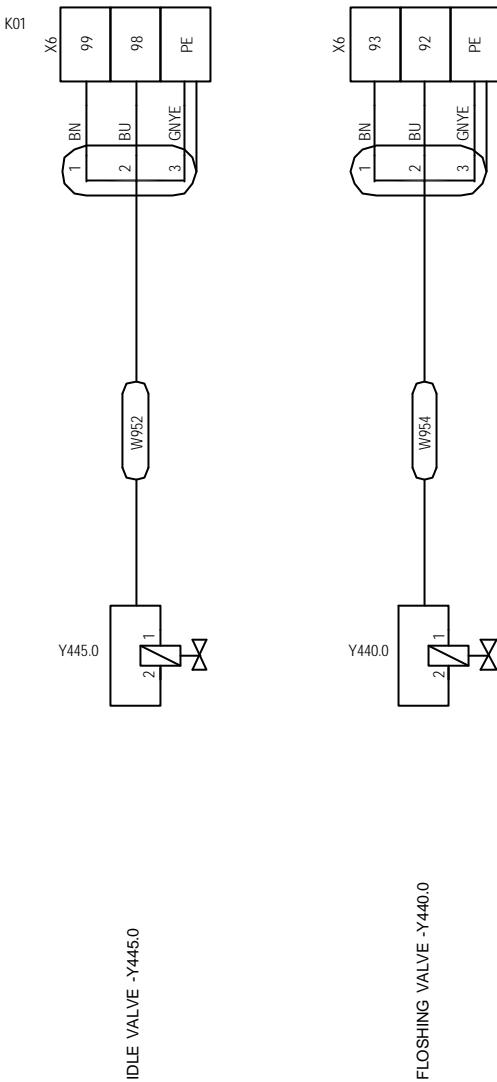
03.10.03
11.07



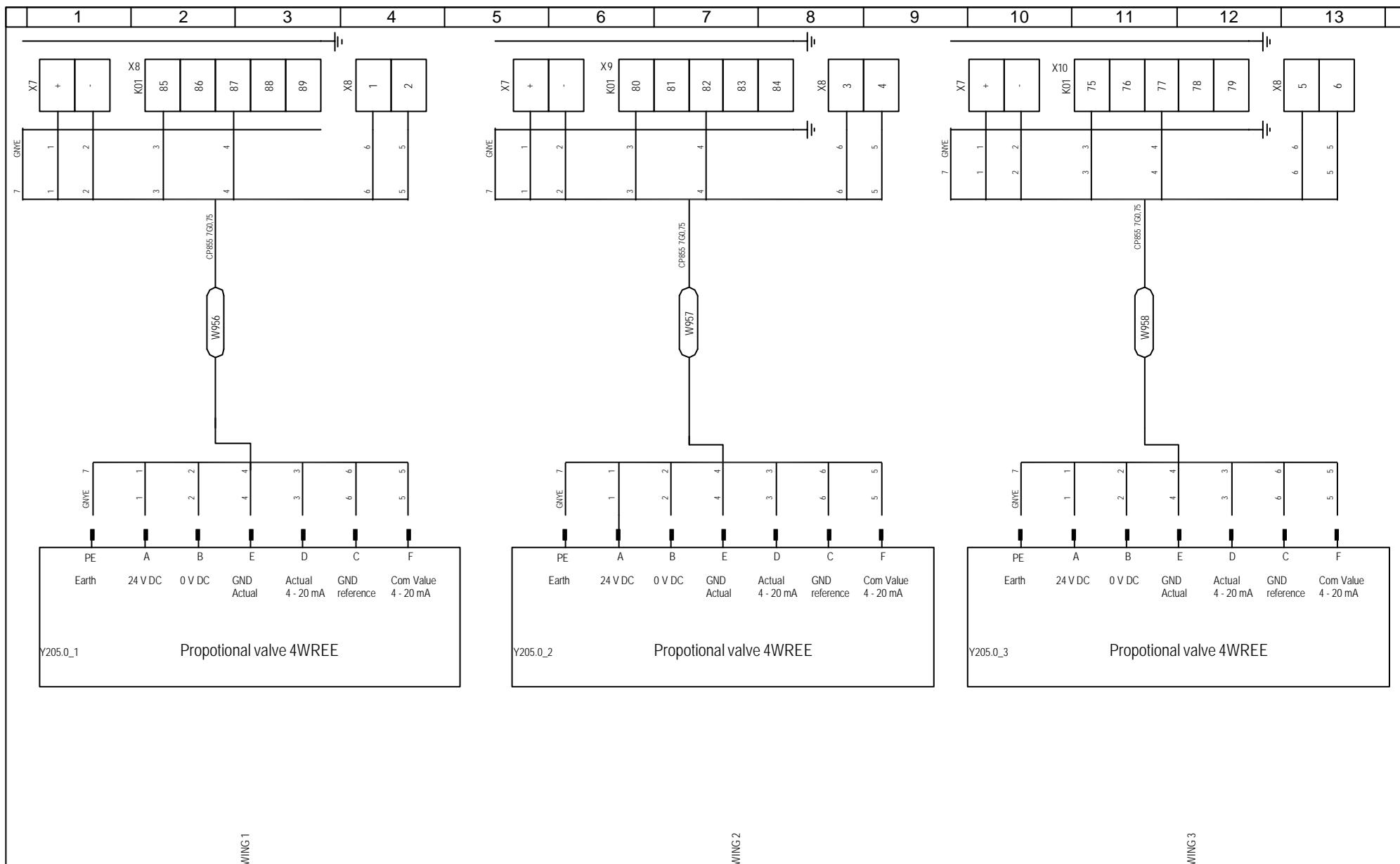
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	Date	Initials	Function	External connections output analog		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030616	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 076 Sheet 075

1	2	3	4	5	6	7	8	9	10	11	12	13
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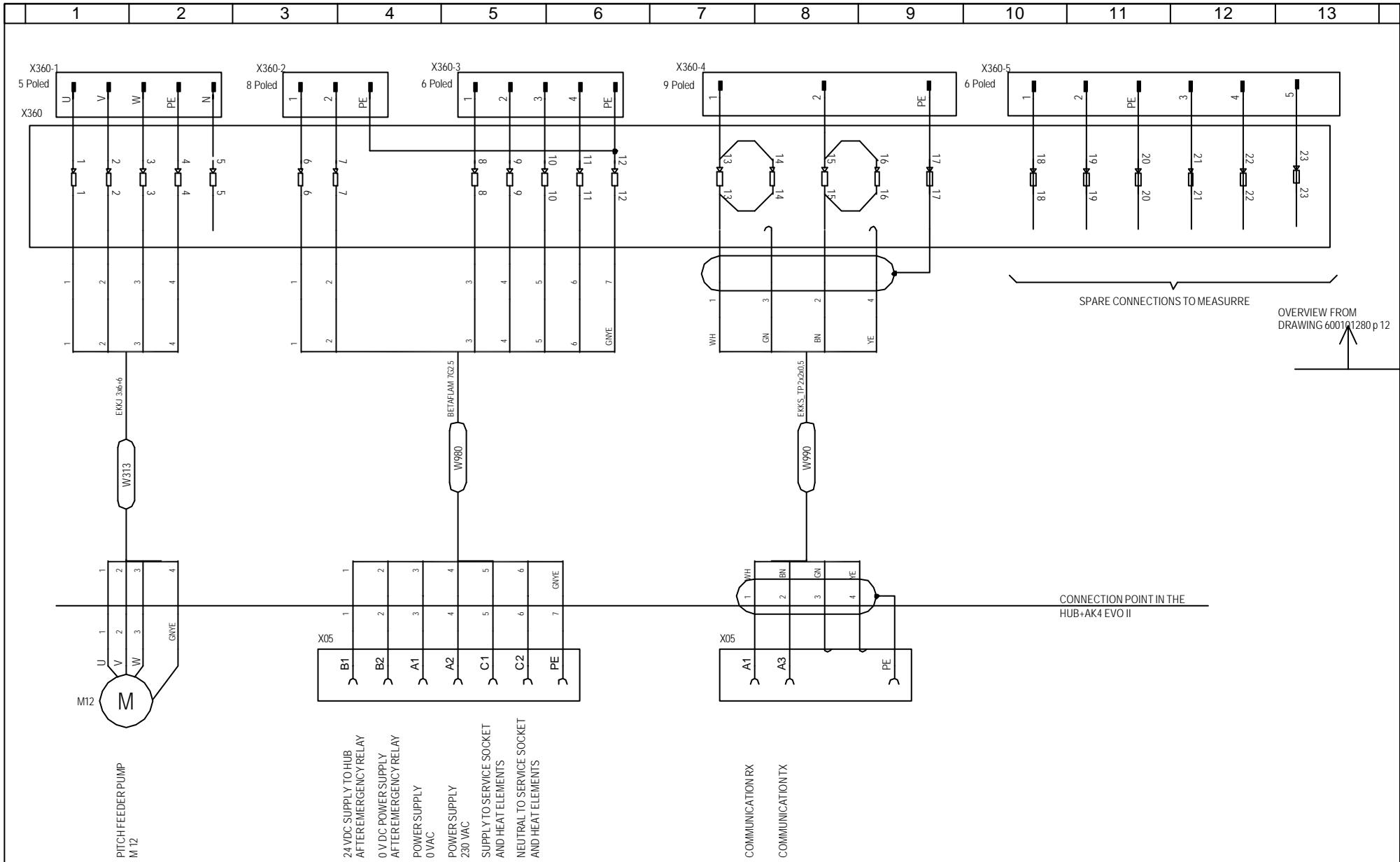


	Date	Initials	Function	External connections output Digital		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030616	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 077 Sheet 076

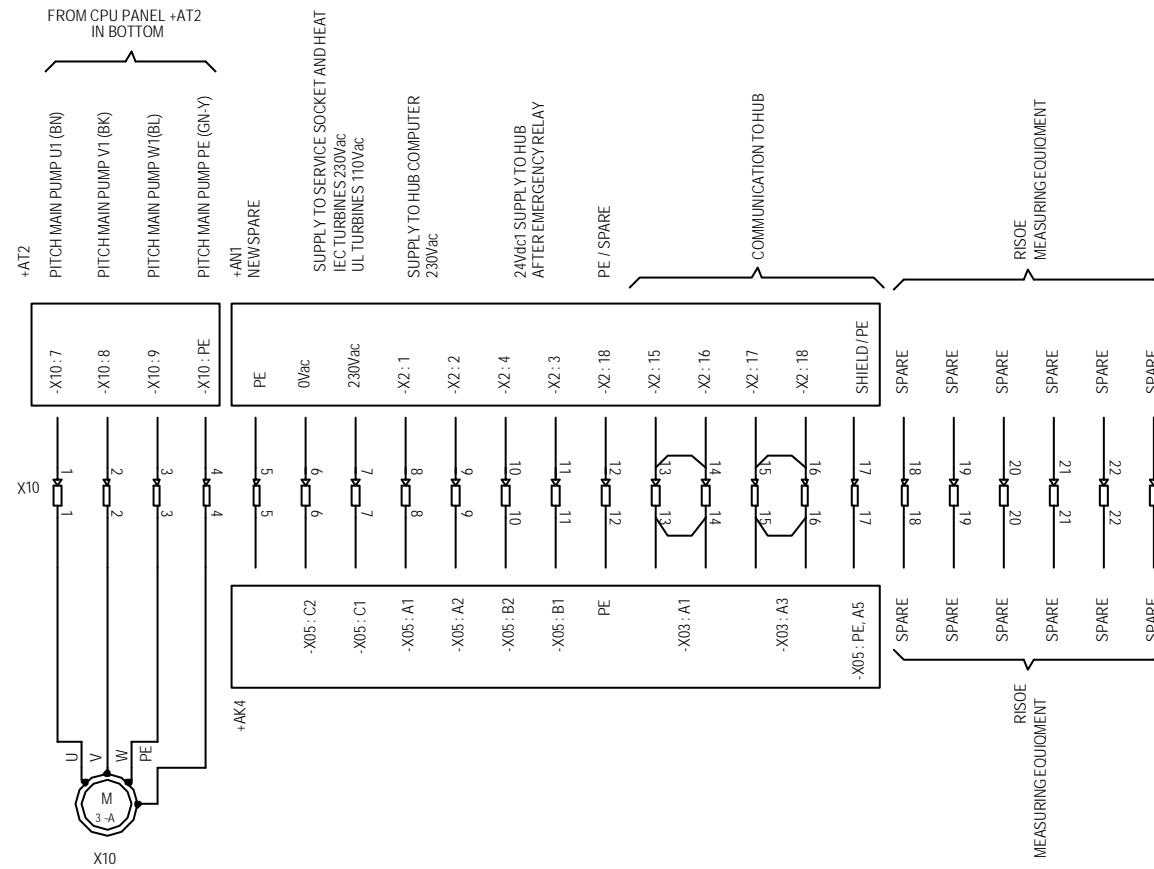


03-10-03

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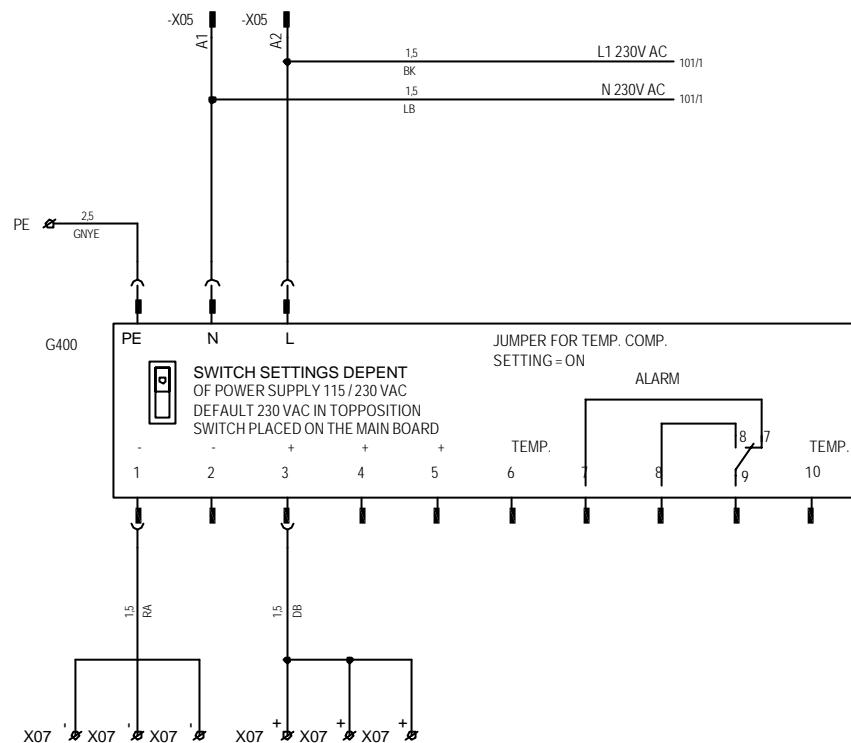
	Date	Initials	Function	Connections f. Sliprings
Designed	020628	KSS	Project title	Hub Computer Panel +AK4
Approved			Comments	NM72 - NM72C - NM82
Revised	031001	INI	Rev.	Drawing no. 60101280
			Cont. sheet	085
			Sheet	080



HUB panel +AK4 -X5, -X3

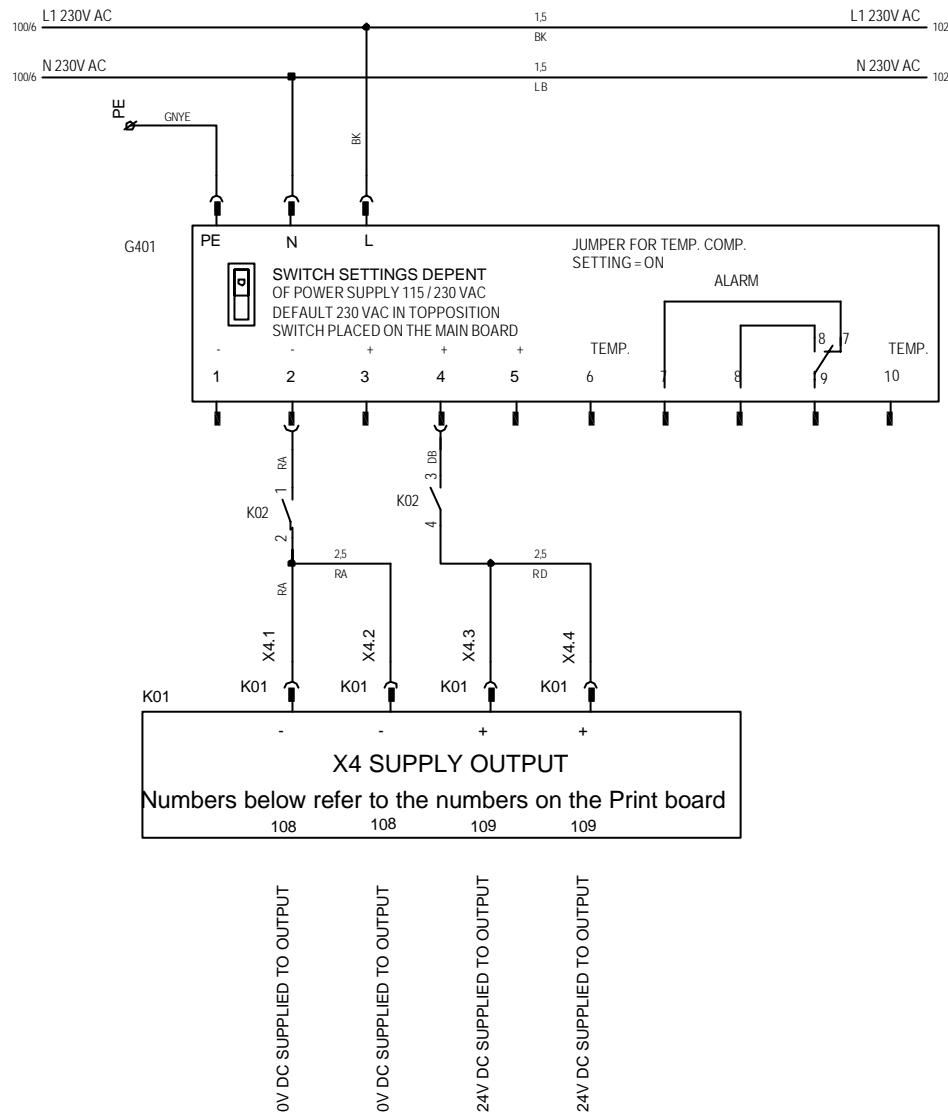
<i>Property of NEG Micon Control systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.</i>	Date	Initials	Function	Slipring view						
	Designed	020628	KSS	Project title	Hub Computer Panel +AK4					
	Approved			Comments	NM72 - NM72C - NM82			Customer	NEG Micon A/S	
	Reviced	031001	INI	Rev.	-	Drawing no.	6010128	Cont. sheet	100	Sheet

1	2	3	4	5	6	7	8	9	10	11	12	13
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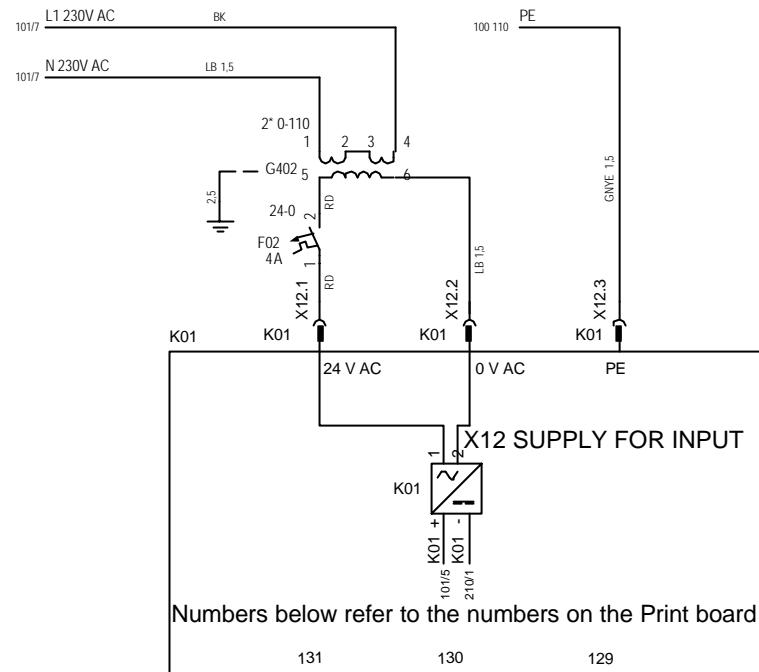


	Date	Initials	Function	Power supply 24V DC Propvent		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	101	Sheet	100

1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	Power supply 24V DC normal valves		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	102	Sheet	101



THIS COMMENTS IS ONLY NECESSARY ON UL TURBINES

When 110V AC is used then remove connection between terminal 2 and 3 and then move wire from terminal 4 to terminal 2

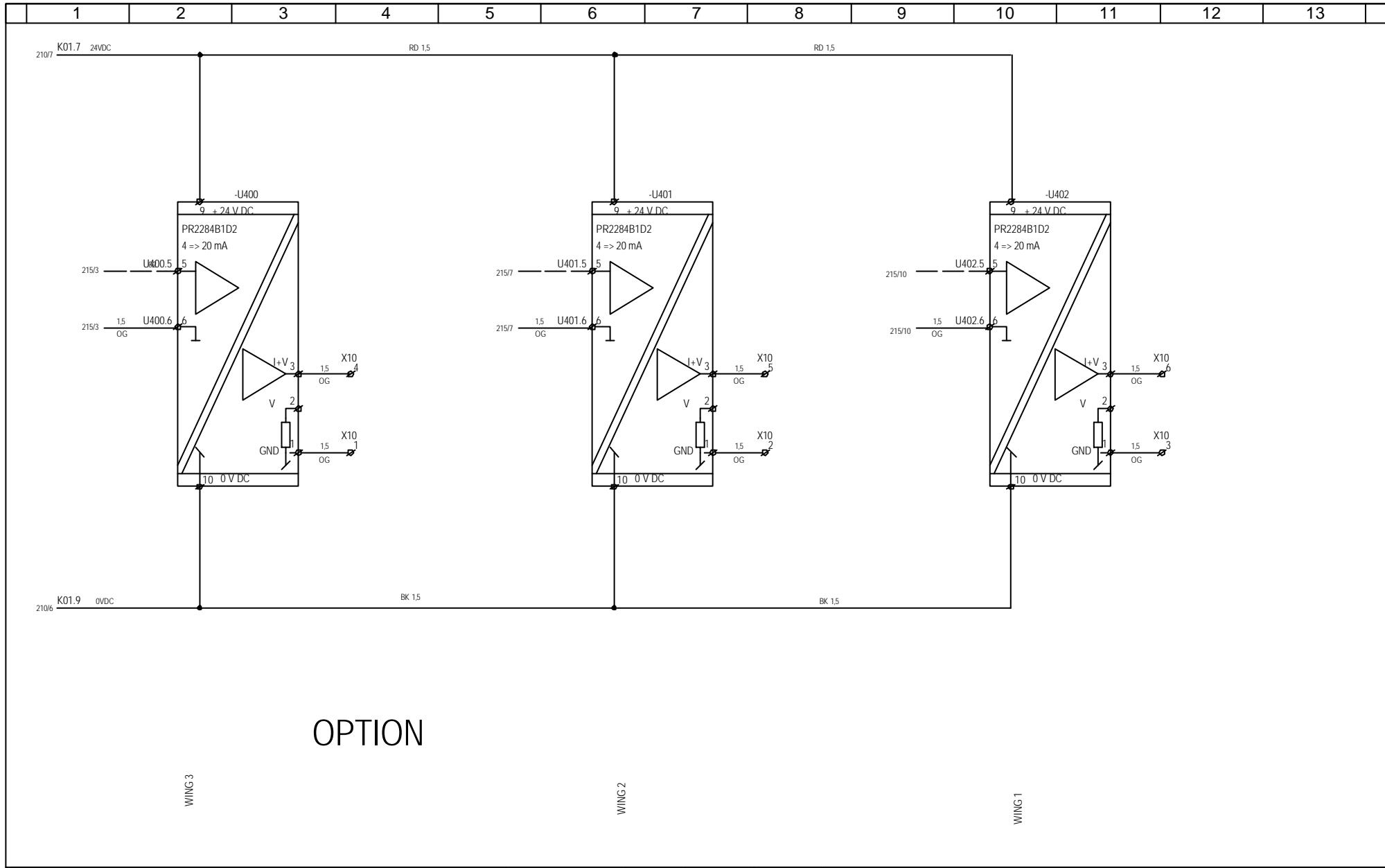
Numbers below refer to the numbers on the Print board

24V AC SUPPLY
ON INBUILT TERMINALS

DCV AC SUPPLY
ON INPUT TERMINAL S

EARTH

	Date	Initials	Function	Power supply for Input X12						
Designed	020628	KSS	Project title	Hub Computer Panel +AK4						
Approved			Comments	NM72 - NM72C - NM82		Customer	NEG Micon A/S			
Revised	031001	INI	Rev.	-	Drawing no.	6010128	Cont. sheet	103	Sheet	102



OPTION

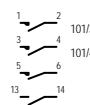
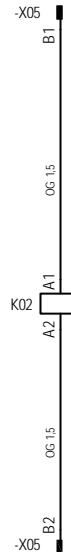
WING 3

WING 2

WING 1

	Date	Initials	Function	Isolation amplifier 4-20mA, wing position		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	105	Sheet	103

1	2	3	4	5	6	7	8	9	10	11	12	13
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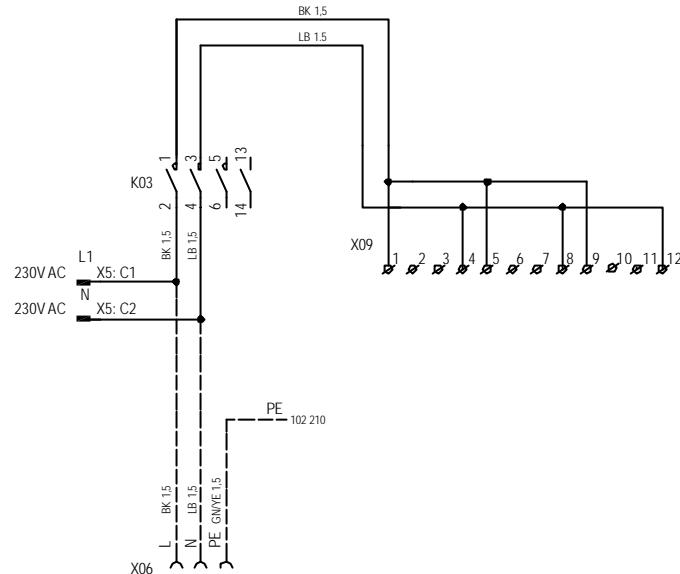


11:23 03.10.03



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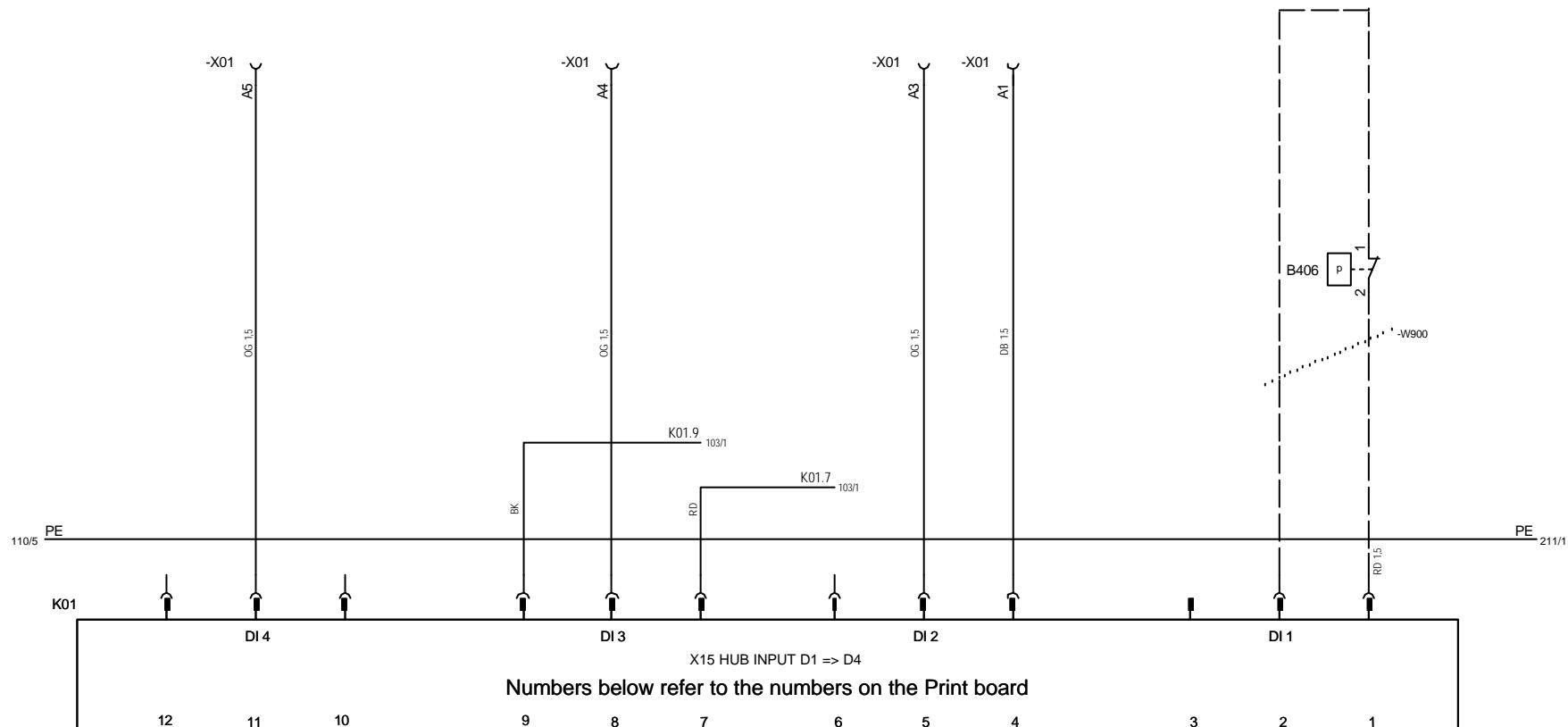
	Date	Initials	Function	Emergency relay 24 V DC3 from Nacelle		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
				Cont. sheet	110	Sheet
						105



SEE X09 TERMINAL LAYOUT
PAGE 059

	Date	Initials	Function	OPTION Terminal layout heating		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 210 Sheet 110

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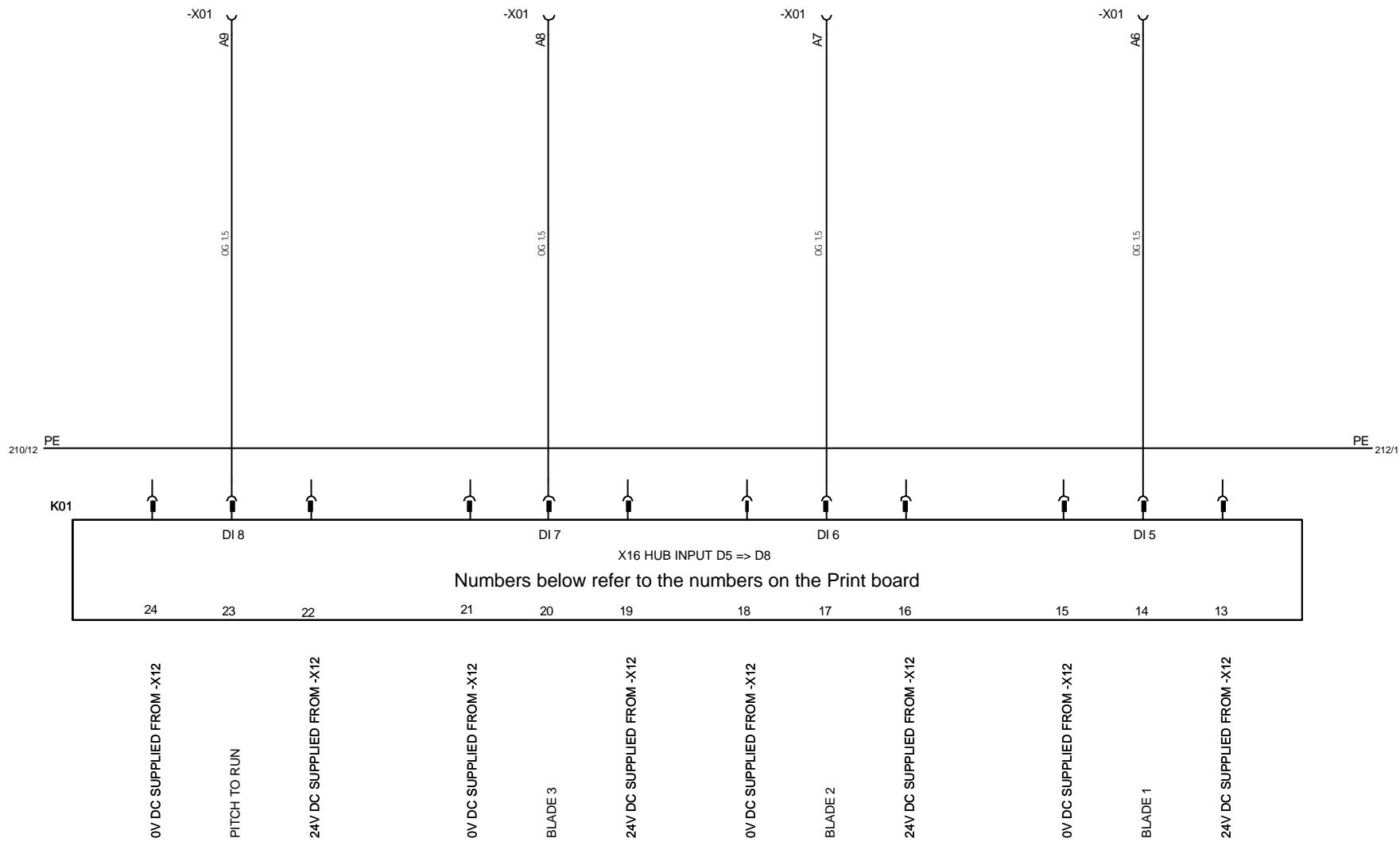
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	Date	Initials	Function	Digital input -X15 D1 => D4		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	211	Sheet	210

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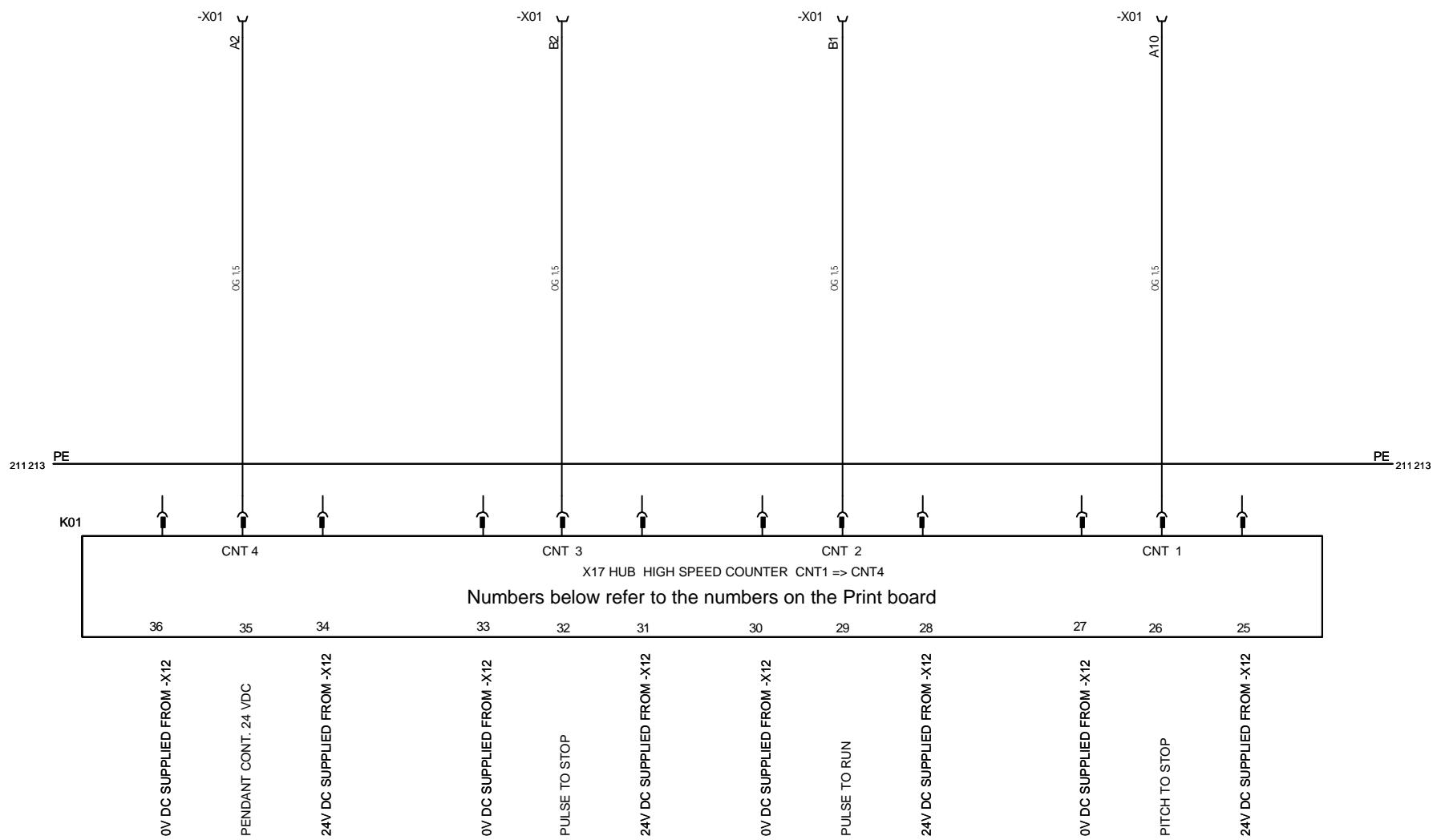
11:23 03.10.03



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	Date	Initials	Function	Digital input -X16 D5 => D8		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030616	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	212	Sheet	211

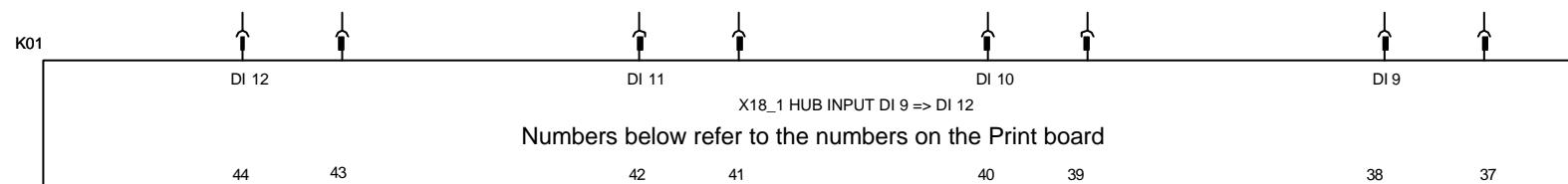
1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	Digital input -X17 CNT1 => CNT4		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030616	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	213	Sheet	212

1	2	3	4	5	6	7	8	9	10	11	12	13
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212/12 PE _____ PE 214/1



24V DC SUPPLIED FROM X12

SPARE

SPARE

24V DC SUPPLIED FROM X12

SPARE

24V DC SUPPLIED FROM X12

SPARE

24V DC SUPPLIED FROM X12

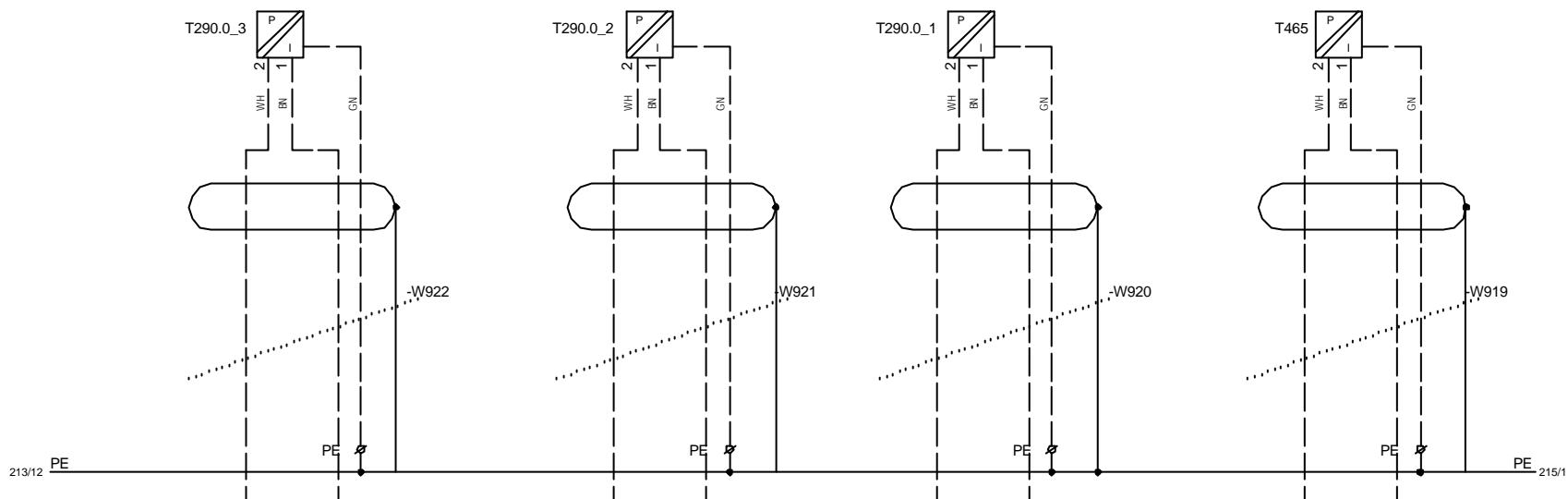
11:23 03.10.03



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	Date	Initials	Function	Digital input -X18 D9 => D12		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030616	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	214	Sheet	213

1	2	3	4	5	6	7	8	9	10	11	12	13
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Numbers below refer to the numbers on the Print board

K01	PRESS 4	PRESS 3	PRESS 2	PRESS 1
	52	51	50	49

PRESSURE WING 3
400 BAR 4 - 20 mA

24V DC SUPPLIED FROM X12

PRESSURE WING 2
400 BAR 4 - 20 mA

24V DC SUPPLIED FROM X12

PRESSURE WING 1
400 BAR 4 - 20 mA

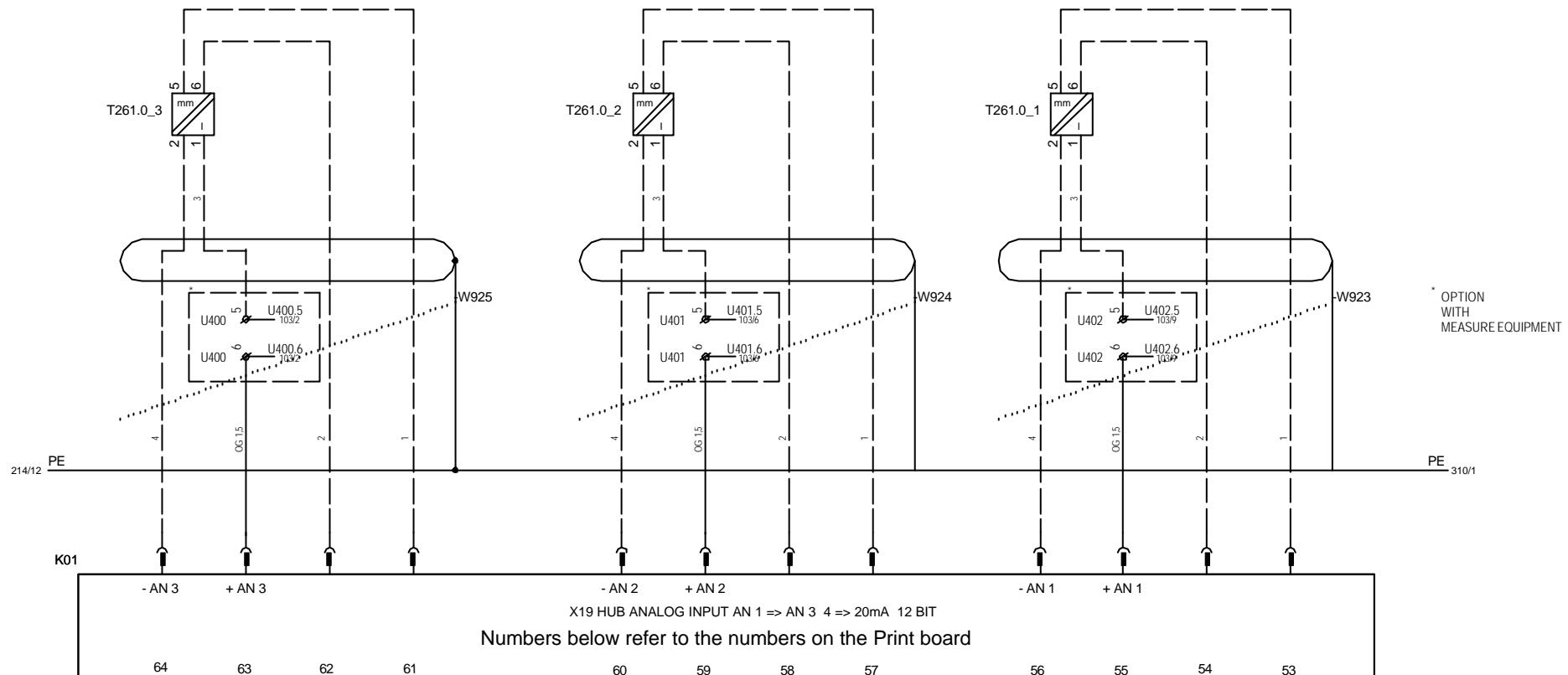
24V DC SUPPLIED FROM X12

PRESSURE MAIN FLOW
25 BAR 4 - 20 mA

24V DC SUPPLIED FROM X12

	Date	Initials	Function	Digital input -X18 Press 1 => Press 4		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	215	Sheet	214

1	2	3	4	5	6	7	8	9	10	11	12	13
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POSITION GND WING 3
POSITION 4 - 20mA WING 3
0V DC SUPPLIED FROM -X12
24V DC SUPPLIED FROM -X12

POSITION GND WING 2
POSITION 4 - 20mA WING 2
0V DC SUPPLIED FROM -X12
24V DC SUPPLIED FROM -X12

POSITION GND WING 1
POSITION 4 - 20mA WING 1
0V DC SUPPLIED FROM -X12
24V DC SUPPLIED FROM -X12

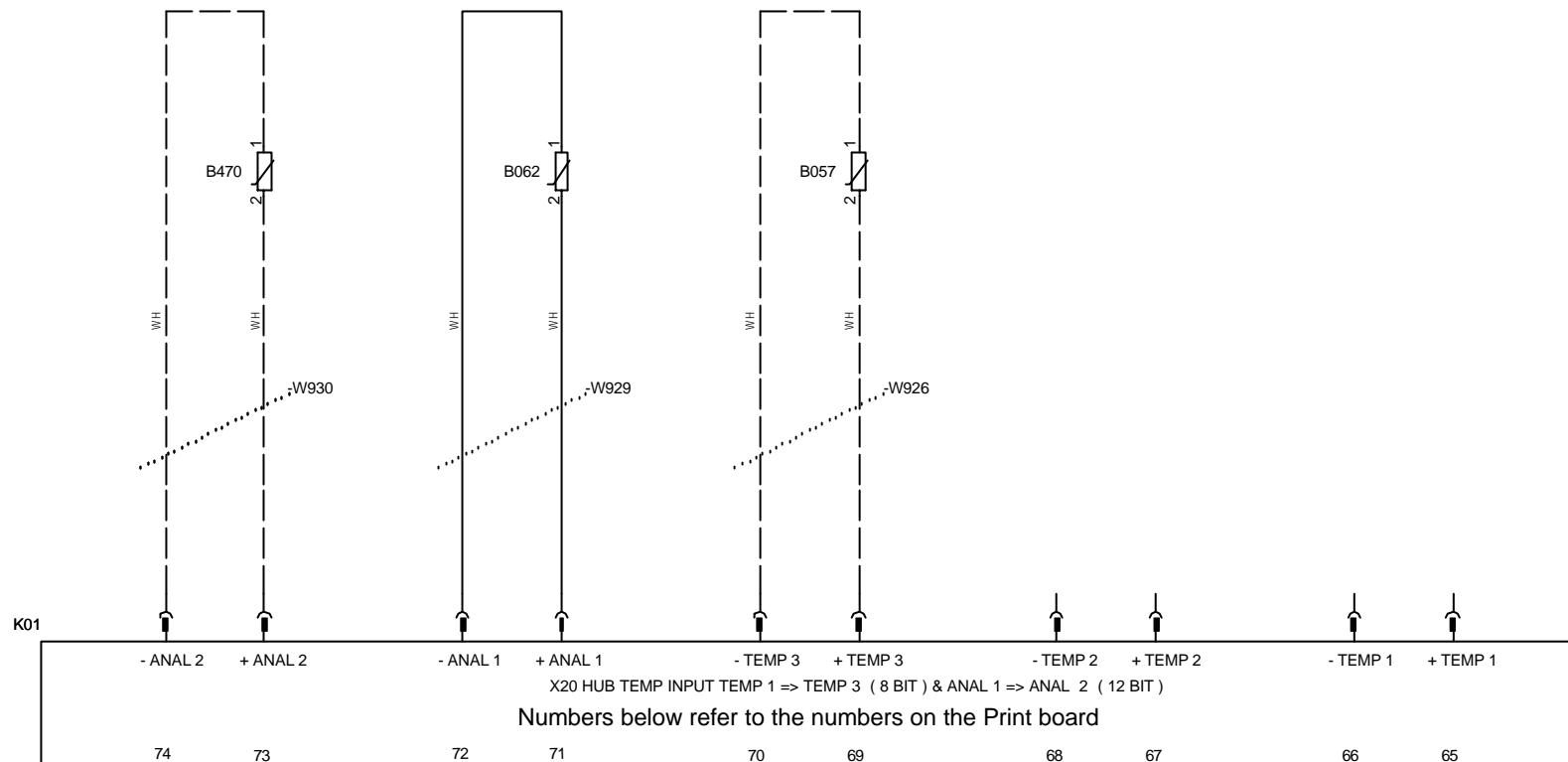
11:23 03.10.03

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CONTROL SYSTEMS

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	Date	Initials	Function	Analog input -X19 AN1 => AN3		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	216	Sheet	215

1	2	3	4	5	6	7	8	9	10	11	12	13
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HYDR. OIL TEMP. -B470

TEMPERATURE I HUB PANEL

OPTION
PITCH ACCUMULATOR
TEMPERATURE B57

SPARE

SPARE

SPARE

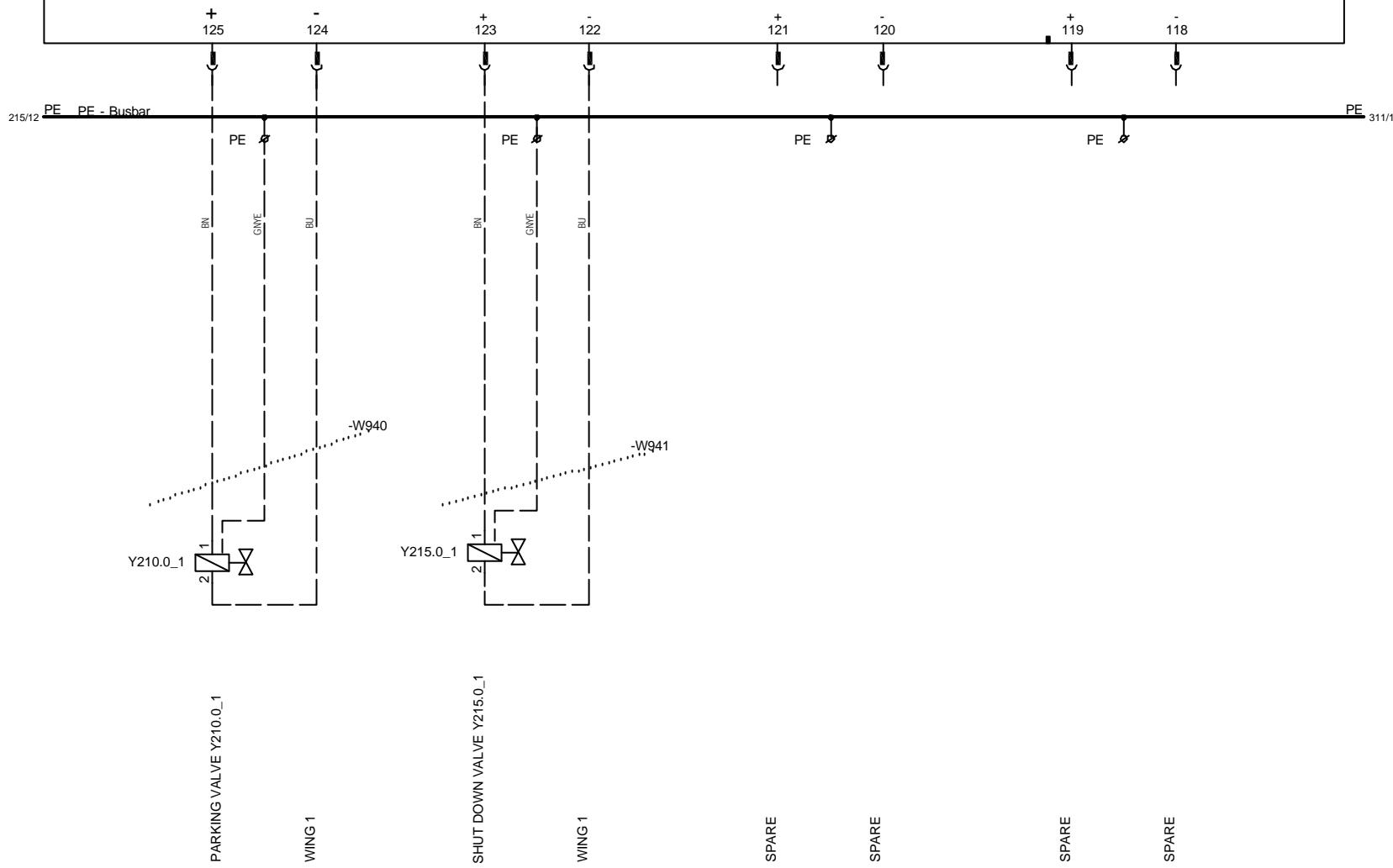
	Date	Initials	Function	Temp. input -X20 Temp 1 => Temp 3 and Analog 1 => 2		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	310	Sheet	216

1 2 3 4 5 6 7 8 9 10 11 12 13

K01

X2 HUB SOLID STATE OUTPUT OP 1 => OP 4

Numbers below refer to the numbers on the Print board



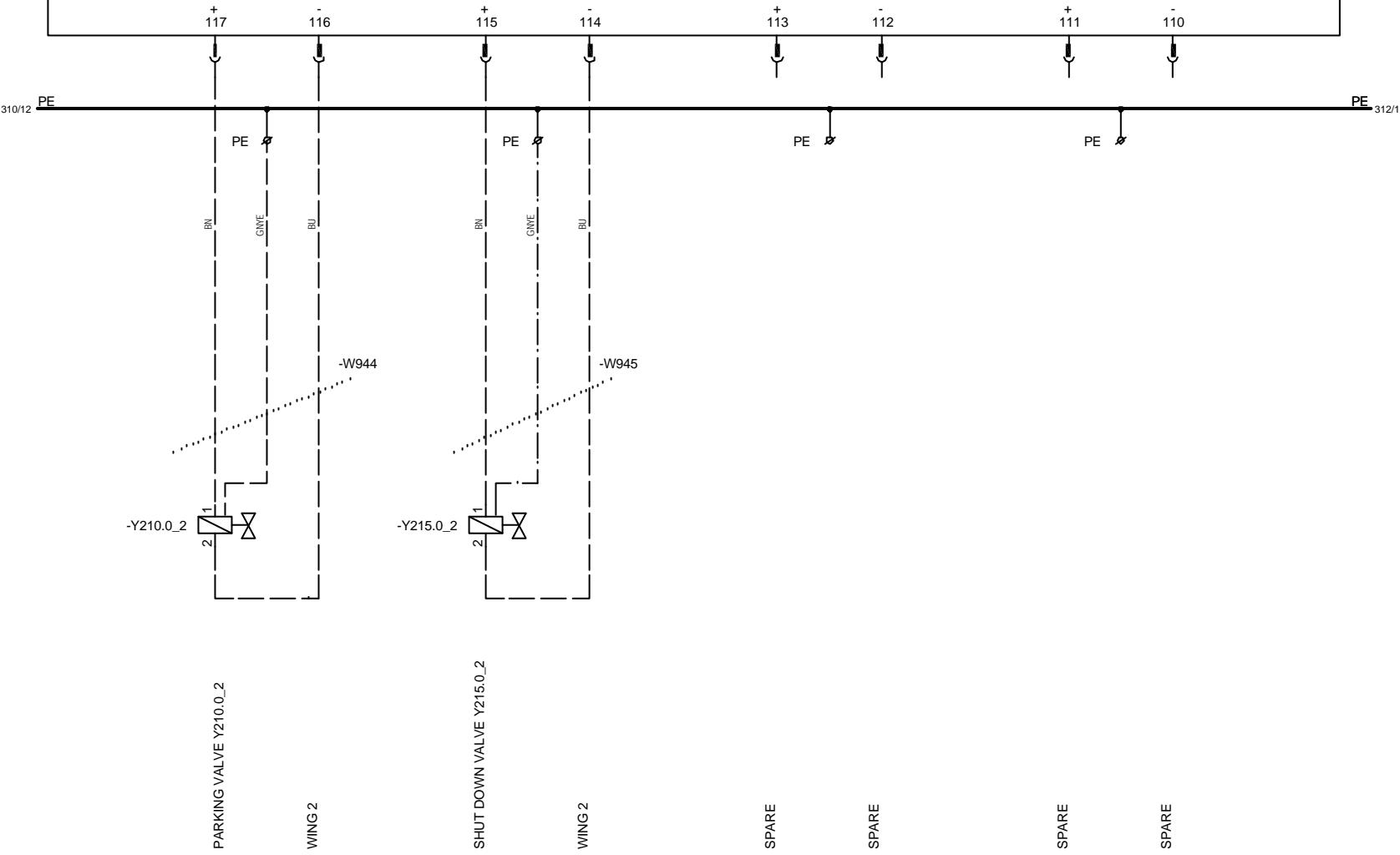
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	Date	Initials	Function	Digital output -X2 OP1 => OP4 WING 1						
Designed	020628	KSS	Project title	Hub Computer Panel +AK4						
Approved			Comments	NM72 - NM72C - NM82			Customer	NEG Micon A/S		
Revised	030422	INI	Rev.	-	Drawing no.	6010128	Cont. sheet	311	Sheet	310

1	2	3	4	5	6	7	8	9	10	11	12	13
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K01

X3 HUB SOLID STATE OUTPUT OP 5 => OP 8
 Numbers below refer to the numbers on the Print board



11:23 03.10.03

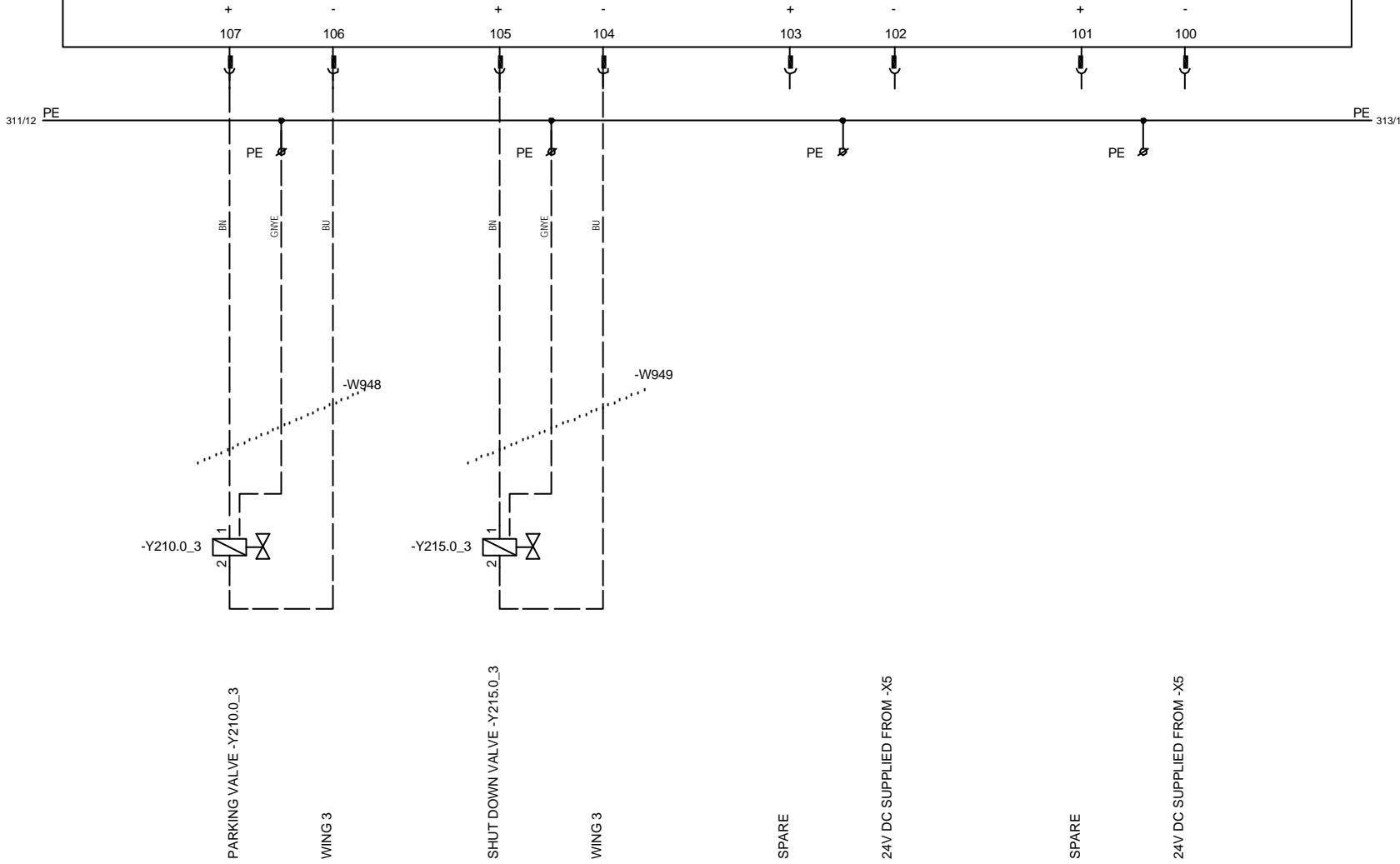


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	Date	Initials	Function	Digital output -X3 OP5 => OP8 WING 2		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	312	Sheet	311

K01

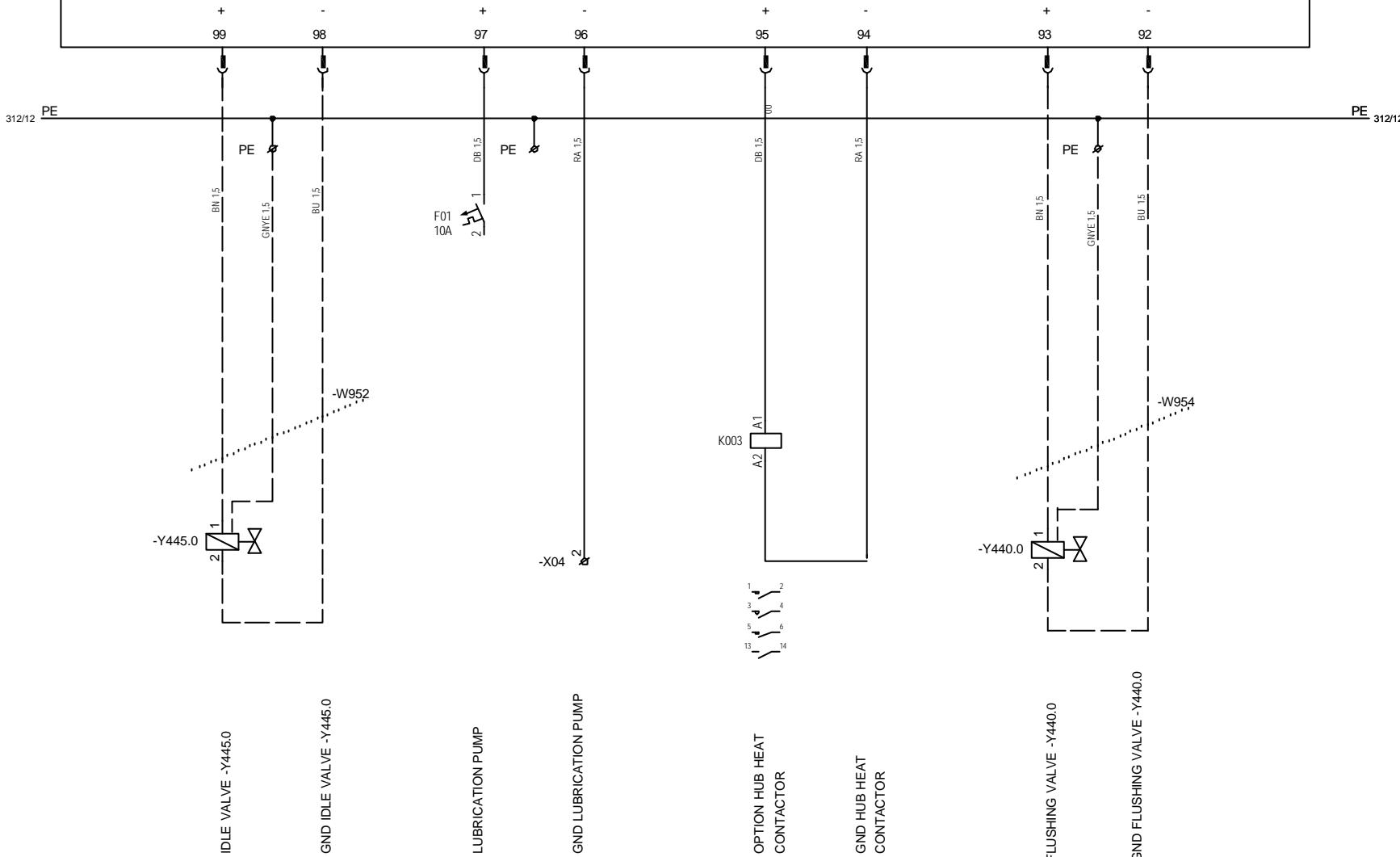
X5 HUB SOLID STATE OUTPUT OP 9 => OP 12
 Numbers below refer to the numbers on the Print board



	Date	Initials	Function	Digital output -X5 OP9 => OP12 WING 3		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	313	Sheet	312

K01

X6 HUB SOLID STATE OUTPUT OP 13 => OP 16
Numbers below refer to the numbers on the Print board



	Date	Initials	Function	Digital output -X6 OP13 => OP16		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	340	Sheet	313

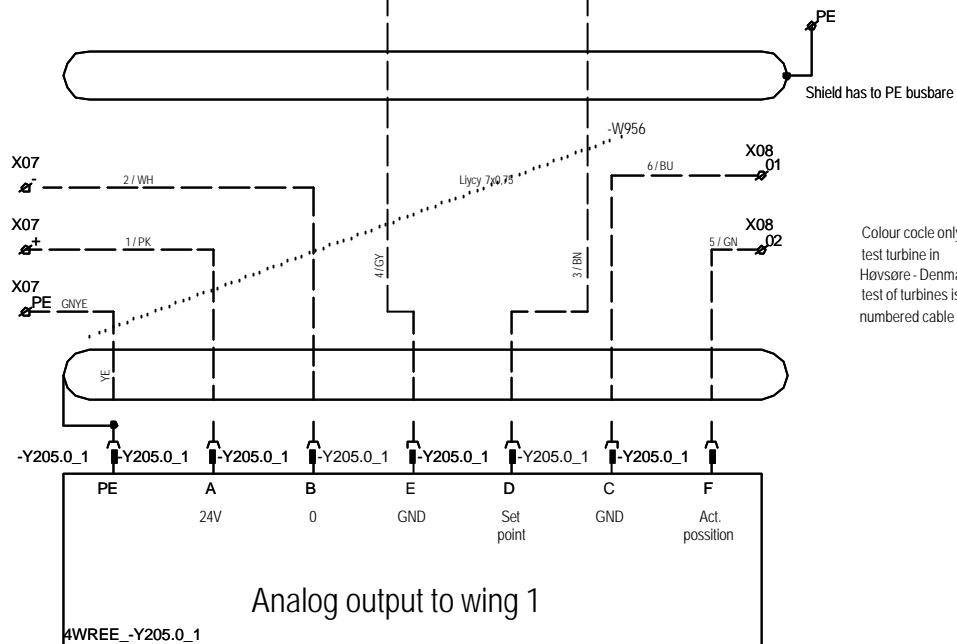
1	2	3	4	5	6	7	8	9	10	11	12	13
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K01

+24 V DC GND SIGNAL 0 - 10V 0 => 20 mA
GND - 10/ +10V 4 => 20 mA

Numbers below refer to the numbers on the Print board

89 88 87 86 85



24V DC SUPPLIED FROM -X12

0V DC SUPPLIED FROM -X12

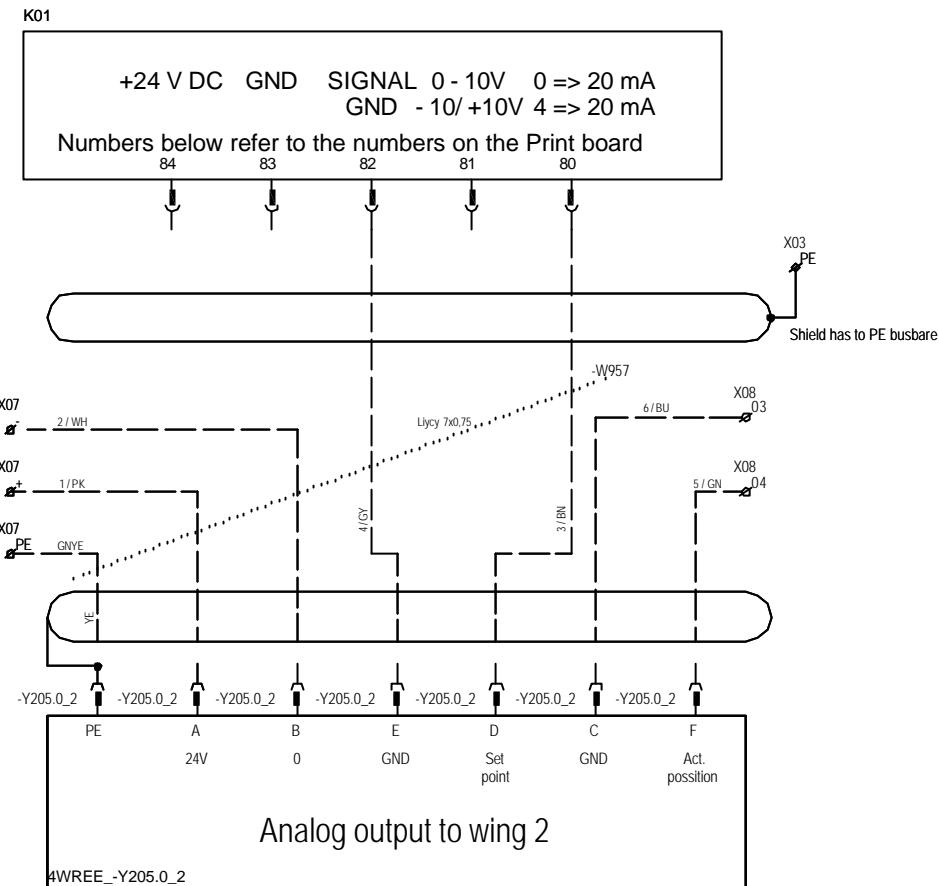
SIGNAL GND

ANALOG OUTPUT VOLTAGE

ANALOG OUTPUT CURRENT

	Date	Initials	Function	Analog output -X8 OVUT1 & IOUT1 WING 1		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	341	Sheet	340

1	2	3	4	5	6	7	8	9	10	11	12	13
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24V DC SUPPLIED FROM -X12

0V DC SUPPLIED FROM -X12

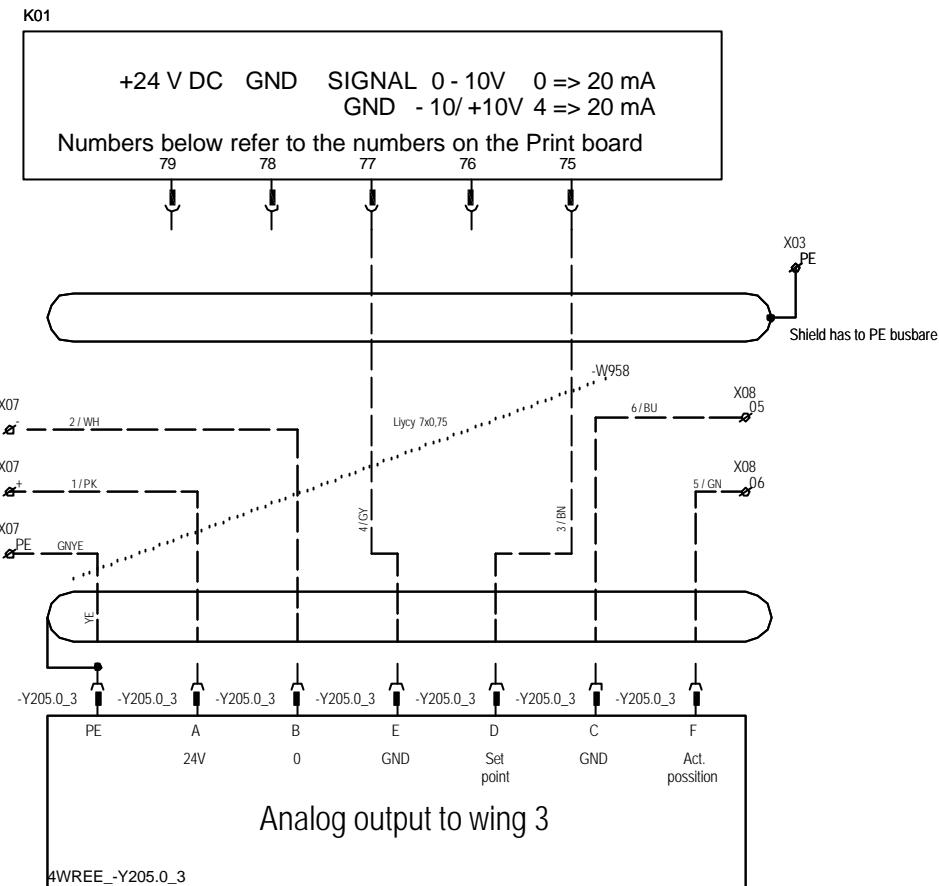
SIGNAL GND

ANALOG OUTPUT VOLTAGE

ANALOG OUTPUT CURRENT

	Date	Initials	Function	Analog output -X9 OVUT2 & IOUT2 WING 2		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	342	Sheet	341

1	2	3	4	5	6	7	8	9	10	11	12	13
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24V DC SUPPLIED FROM -X12

0V DC SUPPLIED FROM -X12

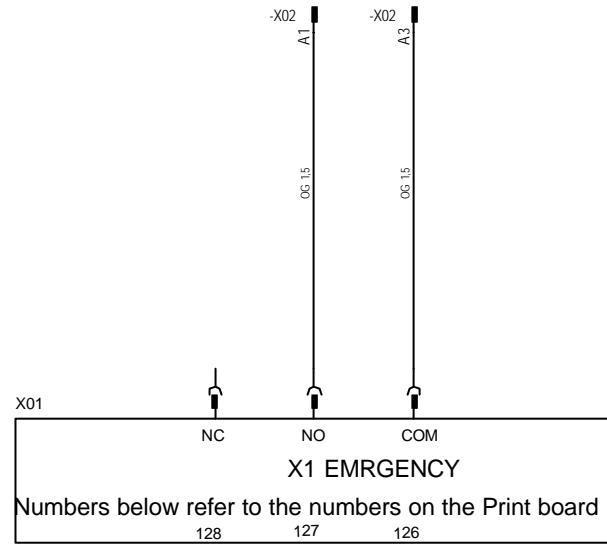
SIGNAL GND

ANALOG OUTPUT VOLTAGE

ANALOG OUTPUT CURRENT

	Date	Initials	Function	Analog output -X10 OVUT3 & IOUT3 WING 3		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82	Customer	NEG Micon A/S
Revised	030422	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	343	Sheet	342

1	2	3	4	5	6	7	8	9	10	11	12	13
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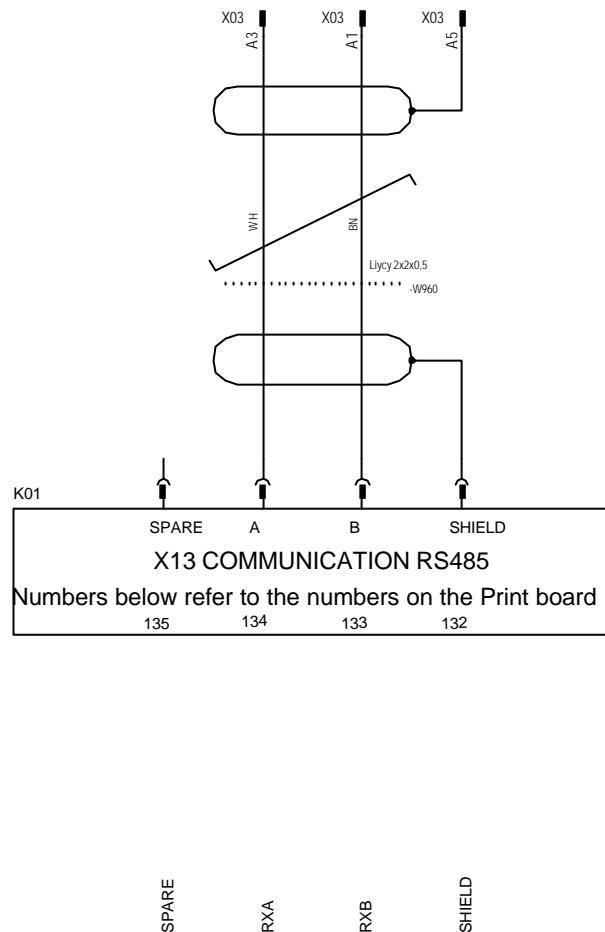


EMERGENCY STOP
RELAY NC

EMERGENCY STOP
RELAY NO

EMERGENCY STOP
RELAY COMMON

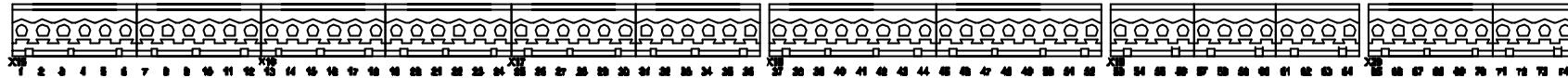
	Date	Initials	Function	Emergency line		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030422	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 500 Sheet 343



	Date	Initials	Function	Bus communication RS 485		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	030422	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 600 Sheet 500

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NAV Computer Input

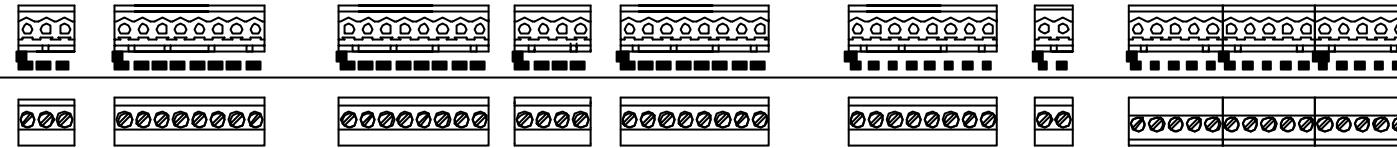


24V DC SUPPLIED FROM -X12
 FILTER CLOG MANIFOLD -B406
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 CHARGE RUN
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 SHOT DOWN
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 ALL BLADES
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 SHOT DOWN
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 BLADE 1
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 BLADE 2
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 PITCH TO RUN
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 BLADE 3
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 PITCH TO STOP
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 PITCH TO STOP
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 PENDANT CONT. 24VDC
 0V DC SUPPLIED FROM -X12
 24V DC SUPPLIED FROM -X12
 SPARE
 24V DC SUPPLIED FROM -X12
 PRESSURE MAIN FLOW, 25 BAR 4-20mA
 24V DC SUPPLIED FROM -X12
 PRESSURE WING 1, 400 BAR 4-20mA
 24V DC SUPPLIED FROM -X12
 PRESSURE WING 2, 400 BAR 4-20mA
 24V DC SUPPLIED FROM -X12
 PRESSURE WING 3, 400 BAR 4-20mA
 24V DC SUPPLIED FROM -X12
 0V DC SUPPLIED FROM -X12
 POSITION 4 -20mA WING 1
 POSITION GND WING 1
 24V DC SUPPLIED FROM -X12
 0V DC SUPPLIED FROM -X12
 POSITION 4 -20mA WING 2
 POSITION GND WING 2
 24V DC SUPPLIED FROM -X12
 0V DC SUPPLIED FROM -X12
 POSITION 4 -20mA WING 3
 POSITION GND WING 3
 SPARE
 SPARE
 OPTION, PITCH ACC. TEMP B57
 OPTION, PITCH ACC. TEMP B57
 TEMPERATURE IN HUB PANEL
 HYDR. OIL TEMP. -B470
 HYDR. OIL TEMP. -B470

	Date	Initials	Function	NAV Computer input			
Designed	020628	KSS	Project title	Hub Computer Panel +AK4			
Approved			Comments	NM72 - NM72C - NM82			Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128	Cont. sheet 601 Sheet 600

1	2	3	4	5	6	7	8	9	10	11	12	13
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NAV Computer Output



EMERGENCY STOP RELAY NC
EMERGENCY STOP RELAY NO
EMERGENCY STOP RELAY COMMON

PARKING VALVE Y2100.1
WING1
SHUT DOWN VALVE Y215.0_1
WING1
SPARE
SPARE
SPARE
SPARE

PARKING VALVE Y2100.2
WING2
SHUT DOWN VALVE Y215.0_2
WING2
SPARE
SPARE
SPARE
SPARE

24V DC SUPPLIED TO OUTPUT
24V DC SUPPLIED TO OUTPUT
0V DC SUPPLIED TO OUTPUT
0V DC SUPPLIED TO OUTPUT

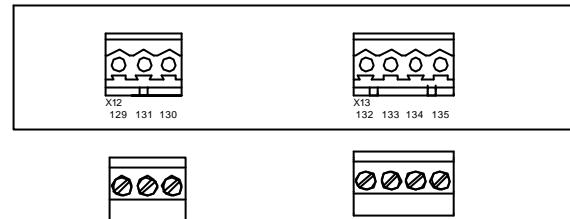
PARKING VALVE Y2100.3
WING3
SHUT DOWN VALVE Y215.0_3
WING3
SPARE
24V DC SUPPLIED FROM X5
SPARE
24V DC SUPPLIED FROM X5

IDLE VALVE Y445.0
GND IDLE VALVE Y445.0
LUBRICATION PUMP
GND LUBRICATION PUMP
OPTION HUB HEAT CONTACTOR
GND HUB HEAT CONTACTOR
FLUSHING VALVE Y440.0
GND FLUSHING VALVE Y440.0

24V DC SUPPLIED FROM X12
0V DC SUPPLIED FROM X12
SIGNAL GND
ANALOG OUTPUT VOLTAGE
ANALOG OUTPUT CURRENT
24V DC SUPPLIED FROM X12
0V DC SUPPLIED FROM X12
SIGNAL GND
ANALOG OUTPUT VOLTAGE
ANALOG OUTPUT CURRENT

	Date	Initials	Function	NAV Computer output		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82		Customer NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no. 6010128	Cont. sheet 602 Sheet 601

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EARTH
24V AC SUPPLY ON INPUT TERMINALS
0V AC SUPPLY ON INPUT TERMINALS

SHIELD
RXB
RXA
SPARE

	Date	Initials	Function	NAV Computer supply		
Designed	020628	KSS	Project title	Hub Computer Panel +AK4		
Approved			Comments	NM72 - NM72C - NM82	Customer	NEG Micon A/S
Revised	031001	INI	Rev.	-	Drawing no.	6010128
			Cont. sheet	-	Sheet	602

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LST: 210000
Version: 04

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Material 60017297
Description HUB CPU PANEL +AK4 NM72-82 EVO II

Obj	Object description	Quantity	Un	SortString	Item	text	line	1
60099039	Label kit HUB CPU-EVO II	1	PC					
60010352	CABINET AE 500x700x250mm 1 DOOR w. WORK	1	PC	+AK4				
60010159	MOUNTING PLATE 665x690x2mm w. WORK	1	PC	+AK4				
60010445	WALL BRACKET 2508.000 25*10mm	4	PC	+AK4				
60007359	CABLE CONDUIT 21160 40x60mm	0,530	M	485MM				
60007359	CABLE CONDUIT 21160 40x60mm	0,530	M	485MM				
60007359	CABLE CONDUIT 21160 40x60mm	0,530	M	450MM				
60007354	CABLE CONDUIT 21154 25x40mm	0,290	M	285MM				
60007354	CABLE CONDUIT 21154 25x40mm	0,750	M	635MM				
60007354	CABLE CONDUIT 21154 25x40mm	0,250	M	250MM				
60007351	CABLE CONDUIT 21153 15x40mm	0,450	M	450MM				
60007351	CABLE CONDUIT 21153 15x40mm	0,100	M	100MM				
60007351	CABLE CONDUIT 21153 15x40mm	0,100	M	100MM				
60009751	SCREW HFC 208 M 4.8 x 9.5 - FZB	32	PC					
60007182	DIN RAIL PPP0735H 7x35mm	0,600	M	600MM				
60007201	EARTH BAR 01130 9x6.5x1000mm	0,450	M	445MM				
60013412	ANGLE BRACKET 2x10x25mm f. EARTH BUSBAR	3	PC					
60015652	SIF HUB COMPUTER w.CABINET NM72/82 EVOII	1	PC					
60009578	SCREW ISO 7045 M 3 x 8 - FZB - H	9	PC					
60009861	NUT DIN 934 M 4 - 6 - FZB	3	PC					
60009838	LOCK WASHER DIN 6798 4350-425HV - FZB	3	PC					
60009599	SCREW ISO 7045 M 4 x 14 - 4.8 - FZB - Z	3	PC					
60009580	SCREW ISO 7045 M 4 x 10 - FZB - H	12	PC	-G400-G401				
60009577	SCREW ISO 7045 M 3 x 6 - FZB - H	8	PC	-G400-G401				
60009525	SCREW ISO 1207 M 4 x 16 - 4.8 - FZB	4	PC					
60005136	MCB 5SX2104-7 C 1-POL. 4.0A 440VAC-60VDC	1	PC	-F02				
60000719	BATT CHARGER 115-230/24V 10A ADC5423/83	2	PC					
60001890	MVSTBW 2,5/10 - ST - 5,08	2	PC					
60001892	GMSTB 2,5/3 - ST - 7,62	2	PC					
60010158	MOUNTING PLATE 100x172mm w. WORK	2	PC					
60006942	ISOLA.TRAFO EI84/43 2x110/24VAC 70VA	1	PC	-G402				
60004322	CONTACTOR BC9-30-10 24VDC	2	PC					
60001914	BLZ2 15527.6 FEMALE TERMINAL SCREW 90°	1	PC					
60001930	BLZ4 15529.6 FEMALE TERMINAL SCREW 90°	4	PC					
60001937	BLZ5 15530.6 FEMALE TERMINAL SCREW 90°	3	PC					
60001946	BLZ6 15531.6 FEMALE TERMINAL SCREW 90°	1	PC					
60001960	BLZ8 15533.6 FEMALE TERMINAL SCREW 90°	5	PC					
60009279	PT100 180-4-2M Ø6x60mm 2m CABLE	1	PC	-B062				
60007481	CABLE RACK TK 5-7	1	PC	-B062				
60009578	SCREW ISO 7045 M 3 x 8 - FZB - H	1	PC					
60006566	HOUSING C14610F0100001 42P BULKHEAD	1	PC	-X01				
60006567	COVER f.HOUSING C14610Z0101001 10P	1	PC	-X01				
60009617	SCREW HFC 9046 M 4 x 16 - 4.8 - FZB	4	PC	-X01				
60009838	LOCK WASHER DIN 6798 4350-425HV - FZB	4	PC	-X01				
60009861	NUT DIN 934 M 4 - 6 - FZB	4	PC	-X01				
60006566	HOUSING C14610F0100001 42P BULKHEAD	1	PC	-X02				
60006567	COVER f.HOUSING C14610Z0101001 10P	1	PC	-X02				
60006566	HOUSING C14610F0100001 42P BULKHEAD	1	PC	-X03				
60006567	COVER f.HOUSING C14610Z0101001 10P	1	PC	-X03				
60091902	END STOP WAGO 249-116 6mm TS35	2	PC	-X04				
60006566	HOUSING C14610F0100001 42P BULKHEAD	1	PC	-X05				
60006567	COVER f.HOUSING C14610Z0101001 10P	1	PC	-X05				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	2	PC	-X07				
60014306	MARK +AK4 HUB COMP. EVO II TYPE 870	1,000	SH					
60006078	TERMINAL WAGO DOUBLE 870-831 2.5mm²	6	PC	-X07				
60006079	END PLATE 870-948	2	PC	-X07				
60006087	PUSH-IN JUMPER BAR 870-403 3-POLED	2	PC	-X07				
60091902	END STOP WAGO 249-116 6mm TS35	3	PC	-X07				
60006078	TERMINAL WAGO DOUBLE 870-831 2.5mm²	12	PC	-X09				
60006079	END PLATE 870-948	1	PC	-X09				
60091902	END STOP WAGO 249-116 6mm TS35	1	PC	-X09				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	-X09				
60006086	PUSH-IN JUMPER BAR 870-402 2-POLED	6	PC	-X09				
60006071	TERMINAL WAGO 870-501 2-LEV,0,08-2,5mm²	3	PC	-X08				
60006083	END SECTION 870-518 2-LEVEL GREY	1	PC	-X08				
60091902	END STOP WAGO 249-116 6mm TS35	1	PC	-X08				
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	-X08				
60007583	CABLE GLAND BM-EN-1S M12 PA 6	1	PC					

HUB Computer -K001

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LST: 210000

Version: 04

Material 60017297

Description HUB CPU PANEL +AK4 NM72-82 EVO 11

Obj	Object description	Quantity	Un	SortStrng	Item	text	line	1
60007591	LOCKNUT BML-1S M12 PA 6	1		PC				
60007584	CABLE GLAND BM-EN-11 M16 PA 6	12		PC				
60007592	LOCKNUT BML-11 M16 PA 6	12		PC				
60007585	CABLE GLAND BM-EN-12 M20 PA 6	36		PC				
60007593	LOCKNUT BML-12 M20 PA 6	36		PC				
60007586	CABLE GLAND BM-EN-13 M25 PA 6	1		PC				
60007594	LOCKNUT BML-13 M25 PA 6	1		PC				
60012753	WIRING HUB CPU NM72-82/1500 IEC/UL	1		PC	REV 1			
60012754	WIRING HUB CPU NM72-82/1500 IEC/UL	1		PC	REV 1			
60007196	DIN RAIL FITTING TSTW 72x48mm	3		PC				
60007197	SCREW FKSC M6x12mm	3		PC				
60006078	TERMINAL WAGO DOUBLE 870-831 2.5mm ²	1		PC	-X04/-F01			
60005140	MCB 5SX2110-7 C 1-POL.10.0A 440VAC-60VDC	1		PC	-X04/-F01			

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LST: 21000054

Version: 01

Material	60022842	Description	CABLES f. HUB +AK4 NM72-82/1500/1650	Quantity	Un	SortString	Item	text
Obj	Object description							
60021519	Cable W900 Filter Clog -B406			1	PC			
60021523	Cable W919 -T465 HUB Pressure			1	PC			
60021524	Cable W920 -T290_1 Pressure transducer W			1	PC			
60021525	Cable W921 -T290_2 Pressure transducer W			1	PC			
60021526	Cable W922 -T290_3 Pressure transducer W			1	PC			
60021527	Cable W923 _T261_1 Position transducer 1			1	PC			
60021528	Cable W924 -T261_2 Position Transducer 2			1	PC			
60021529	Cable W925 -T261_3 Position transducer 3			1	PC			
60021530	Cable W926			1	PC			
60021533	Cable W930 -B470 Hydraulic olie			1	PC			
60021534	Cable -W940 Parking valve Y210.0_1			1	PC			
60021535	Cable -W941 Shot down Valve -Y215.0_1			1	PC			
60021536	Cable -W944 Parking valve -Y210.0_2			1	PC			
60021537	Cable -W945 Shot down Valve -Y215.0_2			1	PC			
60021538	Cable -W948 Parking valve -Y210.0_3			1	PC			
60021539	Cable -W949 Shot down Valve -Y215.0_3			1	PC			
60021541	Cable W952 Idle Valve -Y445.0			1	PC			
60021542	Cable W953 Lubrication Pump M11			1	PC		030131	KSS
60021543	Cable W954 Flushing Valve Y440.0			1	PC		030220	KSS
60021544	Cable -W956 Pro. valve -Y205.0_1 wing 1			1	PC			
60021545	Cable -W957 Pro. valve -Y205.0_2 wing 2			1	PC			
60021546	Cable -W958 Pro. Valve -Y205.0_3 wing 3			1	PC			
60021548	Cable W970			1	PC		1 hvis aktuel	
60021549	Cable W971			1	PC		1 hvis aktuel	
60021550	Cable W972			1	PC		1 hvis aktuel	
60021551	Cable W973			1	PC		1 hvis aktuel	
60021552	Cable W974			1	PC		1 hvis aktuel	
60021553	Cable W975			1	PC		1 hvis aktuel	
60021554	Cable W976			1	PC		1 hvis aktuel	
60021555	Cable W977			1	PC		1 hvis aktuel	
60021556	Cable W978			1	PC		1 hvis aktuel	
60007428	SPIRAL WRAPPING SHR-15-PPB f.CABLE 15mm			50	M			
60007432	SPIRAL WRAPPING SHR-32-PPB f.CABLE 32mm			15	M			

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LST: 21000055

Version: 01

Material	60019750	Quantity	Un	SortStrng	Item	text	line	1
Description	MEASURING KIT f.HUB CPU NM72 EVO-II							
Obj	Object description							
60004912	ISOLATION AMPLIFIER 2284	3	PC			-U400, -U401, -U402		
60005026	SOCKET MT 78740 11-POLED	3	PC			-U400, -U401, -U402		
60005027	FASTENING BRACKET for S-SYSTEM	3	PC			-U400, -U401, -U402		
60006034	END STOP 9708/2 S35	1	PC			-U400, -U401, -U402		
60006071	TERMINAL WAGO 870-501 2-LEV.0,08-2,5mm ²	3	PC	-X10				
60006083	END SECTION 870-518 2-LEVEL GREY	1	PC	-X10				
60006034	END STOP 9708/2 S35	1	PC	-X10				
60012756	WIRING HUB CPU NM72-82/1500 IEC/UL	1	PC			-X10 / -U400=>-U402		

Change Info

Item no. 60019481 **Item text:** Hub Hatch Override Pendant

Active revision for production

Drawing number: 6010129

Revision	Date	Init./App.	Description of change since last revision
01	14.05.2003	FLT /	First version in the new SAP no. system.

LST no.: 21000004 SAP part list number: 60015993

Revision	Valid from	Init./App.	Description of change since last revision
01	07.10.2002	INI /	First version in the new SAP no. system.

Old revisions for service

Drawing number: xxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

LST no.: xxxxxxxx SAP part list number: xxxxxxxx

Revision	Valid from	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 0000242

Doc. no. 6010129

Hub Hatch Override Pendant

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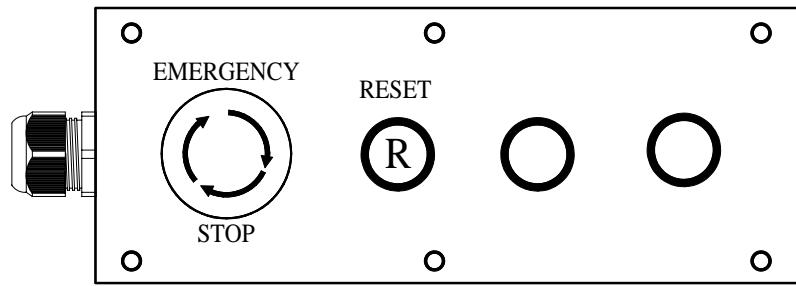
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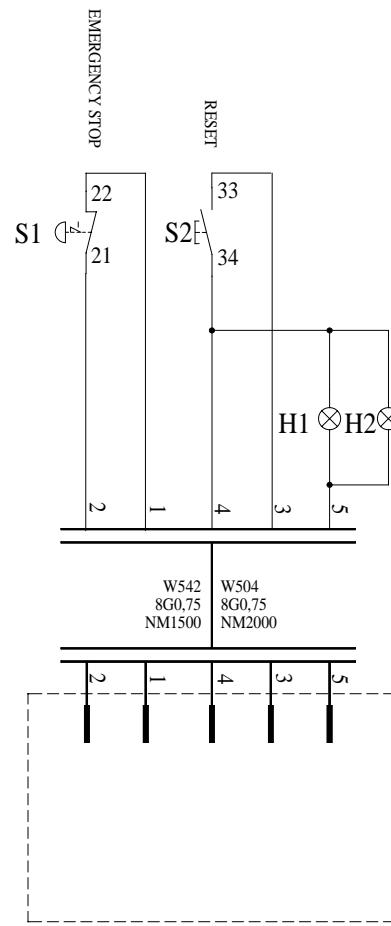
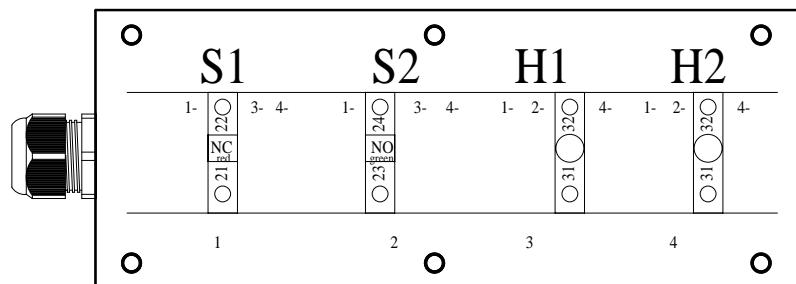
Italiensvej 1-5, DK-8450 Hammel. Phone +45 87621600. Fax +45 86965801

Description	Hub hatch override pendant, Front page		
Comments:			
Customer	NEG Micon A/S		
	Date	Oper.	
Drwn.	010924	FLT	
App.			Drawing page. 6010129_000 Page 0

PG16
8G0,75



PG16
8G0,75



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Description

Hub hatch override pendant, Internal connections

Comments:

Customer

NEG Micon A/S

Date

Oper.

Drwn.

FLT

App.

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Material 60015993

Description HUB HATCH OVERRIDE PENDANT NM1500-2000

Obj	Object description	Quantity	Un SortStrng	Item text
60010964	PUSH BUTTON BOX 4 HOLES 192*74.4*64.5mm	1	PC	
60005824	MUSHROOM BUTTON ISAF616510R1001 RED	1	PC S1	
60005846	CONTACT ELEMENT SK616 001-B 1NC	1	PC S1	
60005849	SAFETY HOLDER f.3 ELEMEN.1SFA616605R1100	1	PC S1	
60005874	SIGN SK615552-15 "NØDSTOP" 29.6*39mm	1	PC S1	
60005826	PUSH BUTTON SK616404-B RESET w."R"	1	PC S2	
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC S2	
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC S2	
60005876	SIGN SK615552-27 "RESET" 29.6*39mm	1	PC S2	
60005842	PILOT LIGHT ISFA 616 400 R1008 CLEAR	1	PC H1	
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC H1	
60005850	LAMP BLOCK SK616 003-A	1	PC H1	
60005842	PILOT LIGHT ISFA 616 400 R1008 CLEAR	1	PC H2	
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC H2	
60005850	LAMP BLOCK SK616 003-A	1	PC H2	
60005886	BULB BA9S 24V	2	PC H1+H2	
60007543	CABLE GLAND BS15 PG16 NYLON	1	PC	
60007556	LOCKNUT BLN15 PG16 PA 6	1	PC	
60006456	HOUSING 09300061541 6P+PE ANGLE PG16	1	PC	Cable with plug
60007543	CABLE GLAND BS15 PG16 NYLON	1	PC	Cable with plug
60006448	ADAPTER 09330062601 MALE 6P+PE SCREW	1	PC	Cable with plug
60008948	CABLE 8*0.75mm ² Y-JZ IEC	8	M	Cable with plug
60006453	HOUSING 09300061291 6P+PE ANGLE PG16	1	PC -X23	
60006447	ADAPTER 09330062701 FEMALE 6P+PE SCREW	1	PC -X23	
60007543	CABLE GLAND BS15 PG16 NYLON	1	PC -X23	
60006428	METAL COVER 09300065425 6-POLED	1	PC -X23	
60007566	BLANKING PLUG 09.13.092.121 PG16 PA 6	1	PC	

Change Info

Item no. 60019483 **Item text:** Control Pendant

Active revision for production

Drawing number: 6010130

Revision	Date	Init./App.	Description of change since last revision
01	14.05.2003	FLT/	First version in the new SAP no. system.

LST no.: 21000005 SAP part list number: 60015995

Revision	Valid from	Init./App.	Description of change since last revision
02	23.07.2003	AME/	Item no 60006510 changed to 60093531

Old revisions for service

Drawing number: xxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

LST no.: 21000005 SAP part list number: 60015995

Revision	Valid from	Init./App.	Description of change since last revision
01	29.06.2001	RPJ /	First version in the new SAP no. system.

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 0000243

Doc. no. 6010130

Control Pendant

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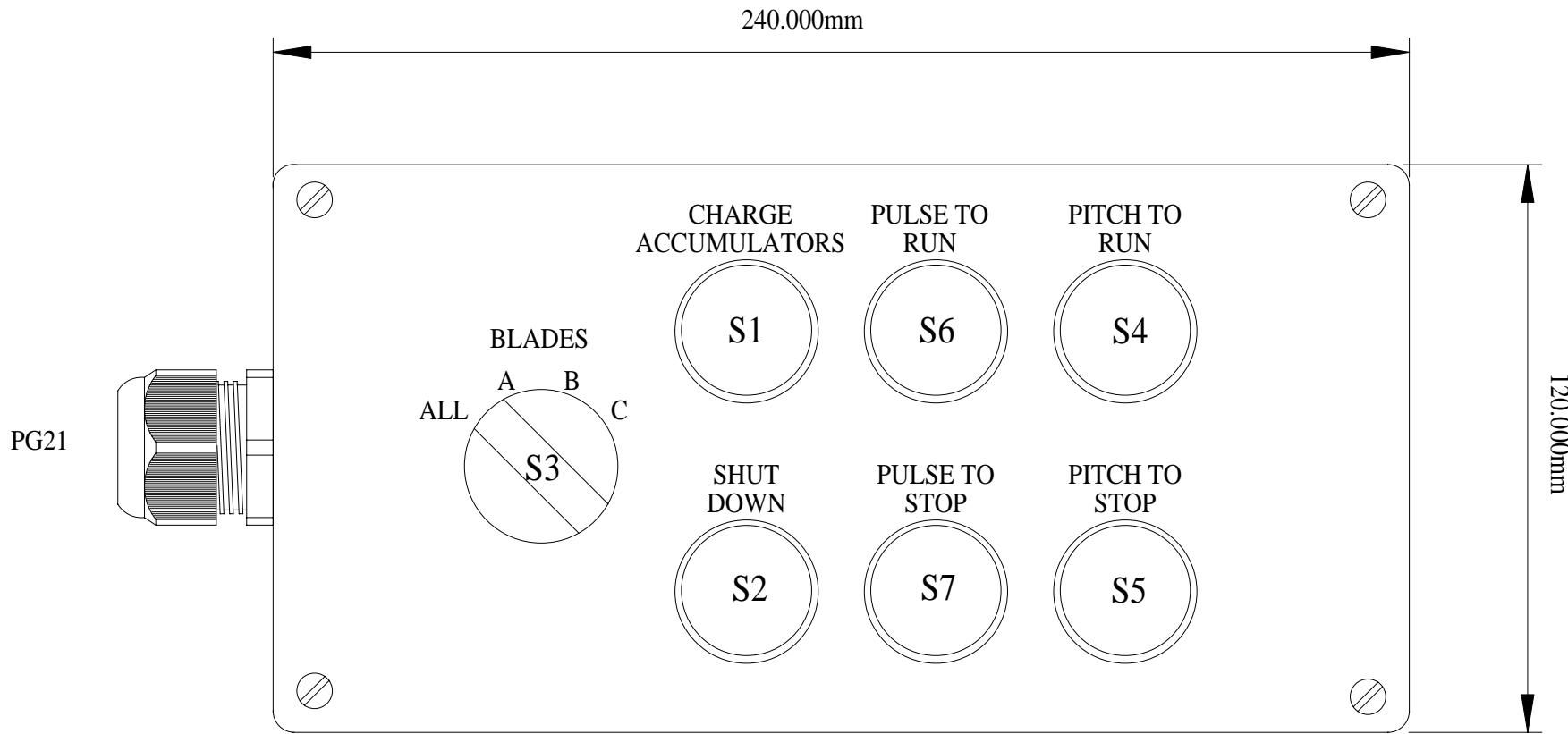
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Italiensvej 1-5. DK-8450 Hammel. Phone +45 87621600. Fax +45 86965801

Comments:	Description		
	Customer	NEG Micon A/S	
	Date	Oper.	
	Drwn.	FLT	
	App.		Drawing page. 6010130_000 Page 0



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Italiensvej 1-5, DK-8450 Hammel. Phone +45 87621600. Fax +45 86965801

Description Outline, Control pendant.

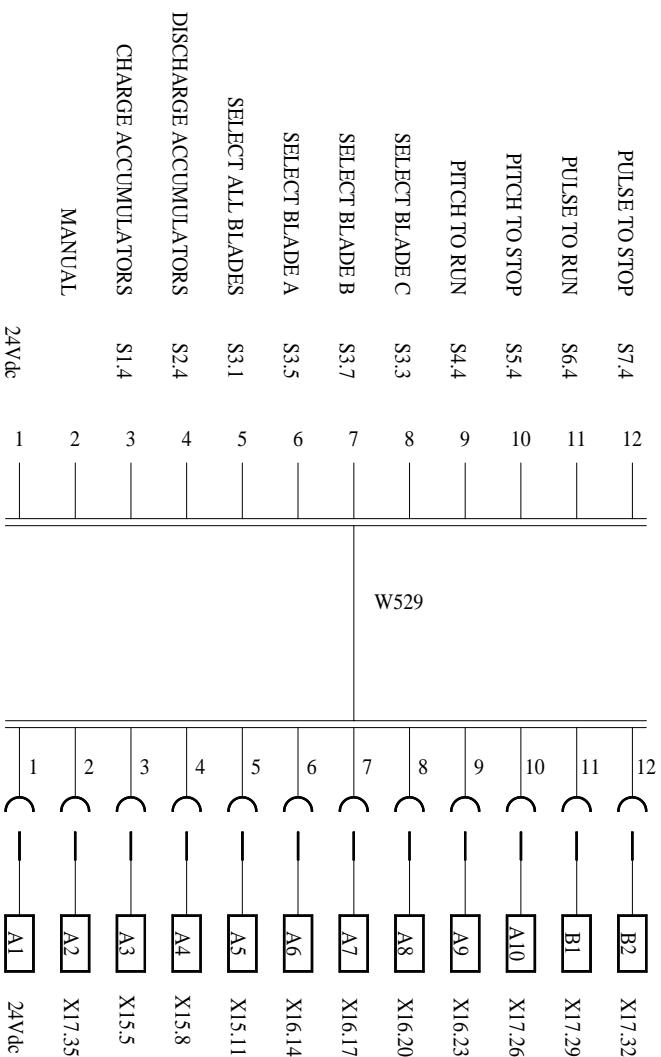
Comments:

Customer NEG Micon A/S

	Date	Oper.	
Drwn.	000411	MSL	Drawing page.
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CONTROL PENDANT

HUB COMPUTER PANEL



DanControl
Engineering a/s

Italiensvej 1-5, DK-8450 Hammel. Phone +45 87621600. Fax +45 86965801

Description Terminal, Control pendant.

Comments:

Customer NEG Micon A/S

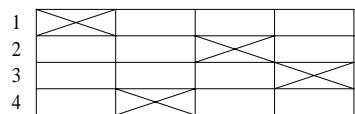
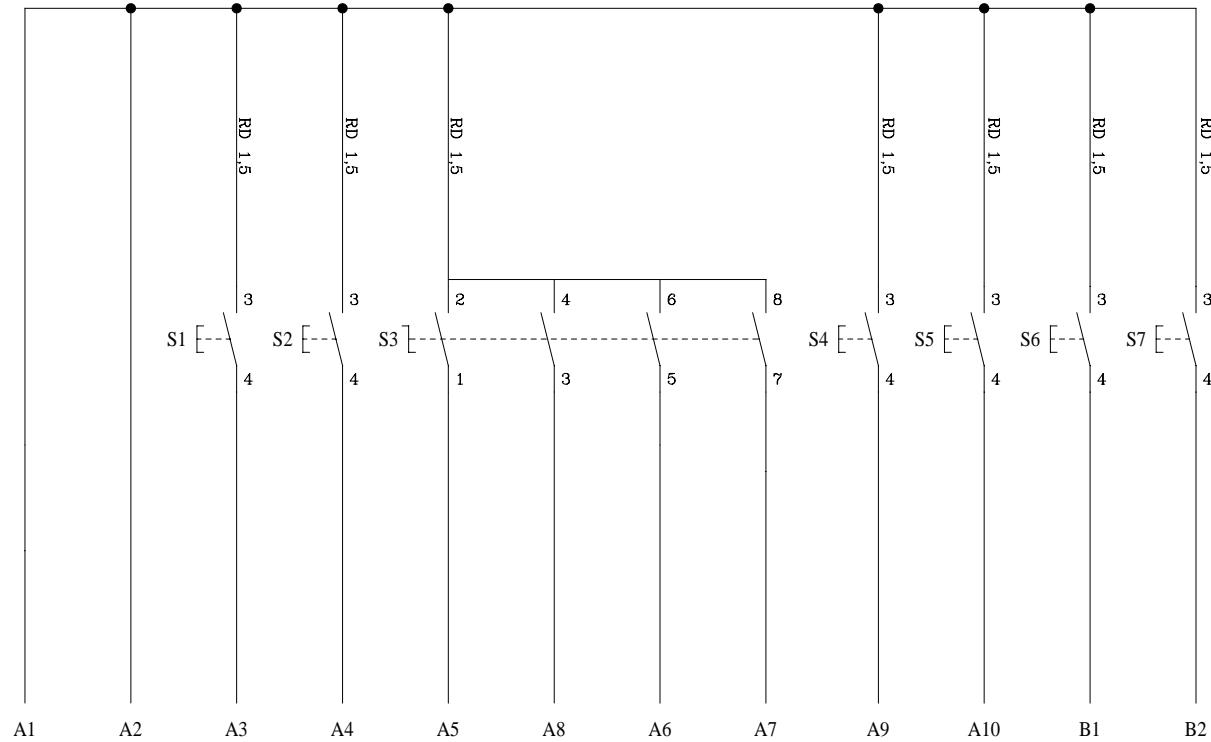
Date Oper.

Drwn. 010924 FLT

App.

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		Manual	Charge accumulators	Discharge accumulators	Select all blades	Select blade c	Select blade a	Select blade b	Pitch to run	Pitch to stop	Pulse to run	Pulse to stop						



DanControl
Engineering a/s

Italiensvej 3. DK-8450 Hammel. Phone +45 87621600. Fax +45 86965801

Description Controls, Control pendant.

Comments:

Customer NEG Micon A/S

	Date	Oper.	
Drwn.	010905	INI	
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8/14/2003 9:43 AM
LST: 2100005_001_02

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Material 60015995
Description CONTROL PENDANT NM72 HUB

Obj	Object description	Quantity	Un	SortStrng	Item	text
60011008	BOX TS242 240x120x100mm	1			PC	
60002455	THERMOLABEL "Pulse towards stop"	1			PC	
60002457	THERMOLABEL "Pitch towards run"	1			PC	
60002459	THERMOLABEL "Pulse towards run"	1			PC	
60002461	THERMOLABEL "Pitch towards stop"	1			PC	
60002463	THERMOLABEL "Charge accumulators"	1			PC	
60002465	THERMOLABEL "Shut down"	1			PC	
60002467	THERMOLABEL "Blades All A-B-C"	1			PC	
60009987	MAGNET A43A-KSM4 43mm	4			PC	
60005803	PUSH BUTTON 1SFA 616 100 R1006 BLACK	1	PC	S1		
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S1		
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S1		
60005803	PUSH BUTTON 1SFA 616 100 R1006 BLACK	1	PC	S2		
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S2		
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S2		
60005862	TURN SWITCH 5318136328 4-POSITIONS	1	PC	S3		
60005803	PUSH BUTTON 1SFA 616 100 R1006 BLACK	1	PC	S4		
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S4		
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S4		
60005803	PUSH BUTTON 1SFA 616 100 R1006 BLACK	1	PC	S5		
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S5		
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S5		
60005803	PUSH BUTTON 1SFA 616 100 R1006 BLACK	1	PC	S6		
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S6		
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S6		
60005803	PUSH BUTTON 1SFA 616 100 R1006 BLACK	1	PC	S7		
60005844	CONTACT ELEMENT SK616 001-A 1NO	1	PC	S7		
60005848	HOLDER for 3 ELEMENTS SK616 013-F	1	PC	S7		
60007545	CABLE GLAND BS16 PG21 NYLON	1			PC	
60007557	LOCKNUT BLN16 PG21 PA 6	1			PC	
60008997	CABLE 18x1.5mm ² Y-JZ IEC	2,500			M	
60006565	HOUSING C14610G0106008 42P TOP ENTR.PG21	1			PC	
60006476	FRAME f. 3 MOD. C14610S0100608 FEM. 2+PE	1			PC	
60006496	ADAPTER f.STAMP. C14610B0100008 FEM. 10P	2			PC	
60006484	MODULE BLIND C146B00001E8 FEMALE	1			PC	
60093531	CRIMP CONT. TN020160002 FEM. 0.5-1.5mm ²	12			PC	
60007604	CABLE GLAND BSBC06 PG21 BRASS	1			PC	
60006336	INSUL. END TERMINAL 18/0.75mm ² 8mm CHAIN	19			PC	

Change Info

Item no. 60019734 **Item text:** Junction Box +AT6

Active revision for production

Drawing number: 6010131

Version	Date	Init./App.	Description of change since last revision
02	24.07.2003	SNU/ FLT	Drawing no. changed.

LST no.: 21000006 BOM number: 60017060

Version	Date	Init./App.	Description of change since last revision
01	13.09.02	INI / FOM	First version in SAP no. system.

Old revisions for service

Drawing number: 6010131 (Page 1 and 4)

Version	Date	Init./App.	Description of change since last revision
01	14.05.2003	INI / FOM	First version in SAP no. system

LST no.: xxxxxxxx BOM number: xxxxxxxx

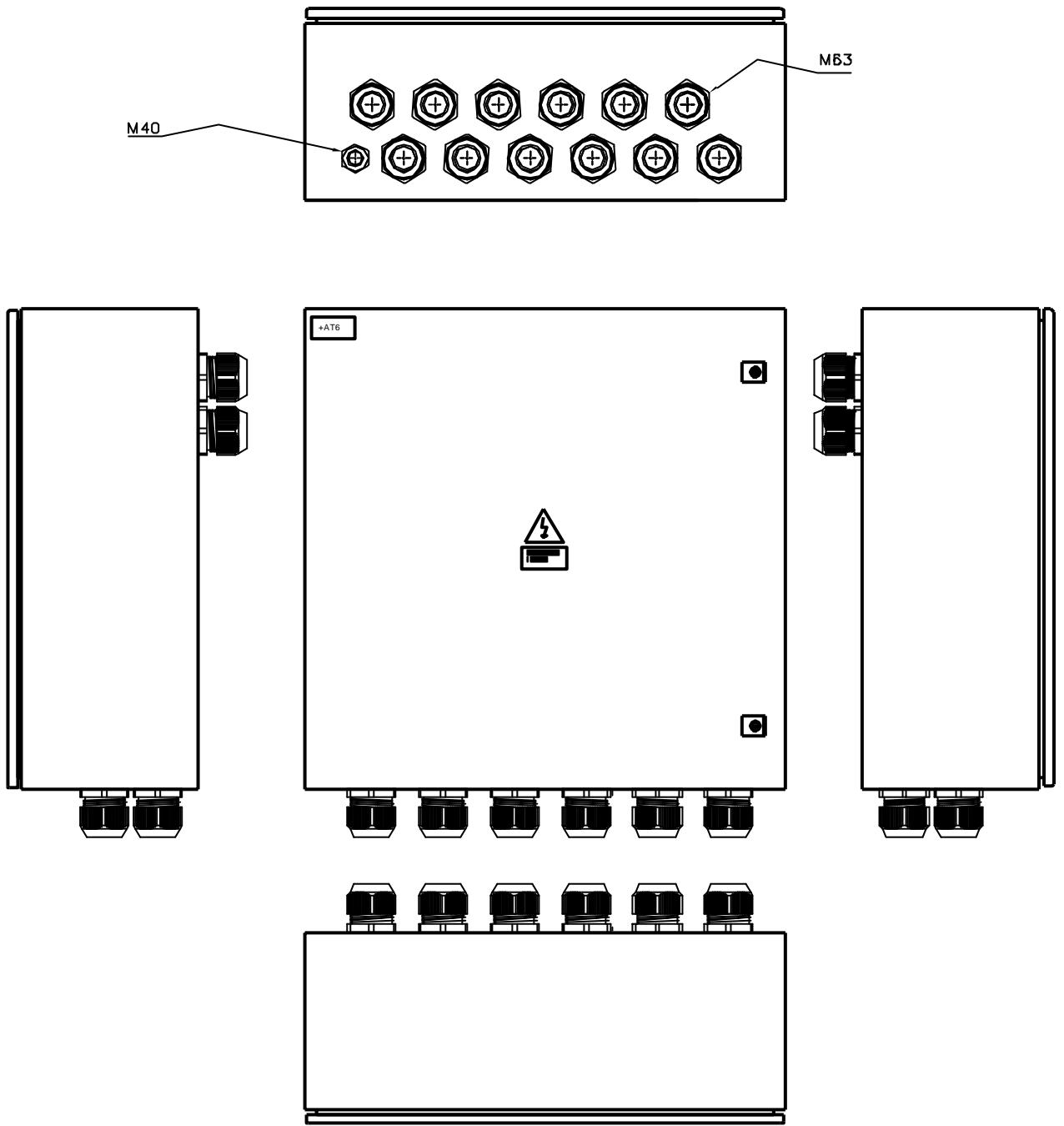
Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx	Write the change

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 00020179

Table of contents

	Date	Initials	Property of NEG Micon Control Systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.
Designed	020911	FOM	
Approved			
Revised	030724	SNU	
Change Note	Picture		Title
Material	Size	A4	Rittal skab AE1073.600, +AT6 f. 1500/64/72/82 - UL/IEC <i>Rittal Enclosure AE1073.600, +AT6 f. 1500/64/72/82 - UL/IEC</i>
Dim	Scale	Part no	Drawing no
			6010131 000
			Rev. 02

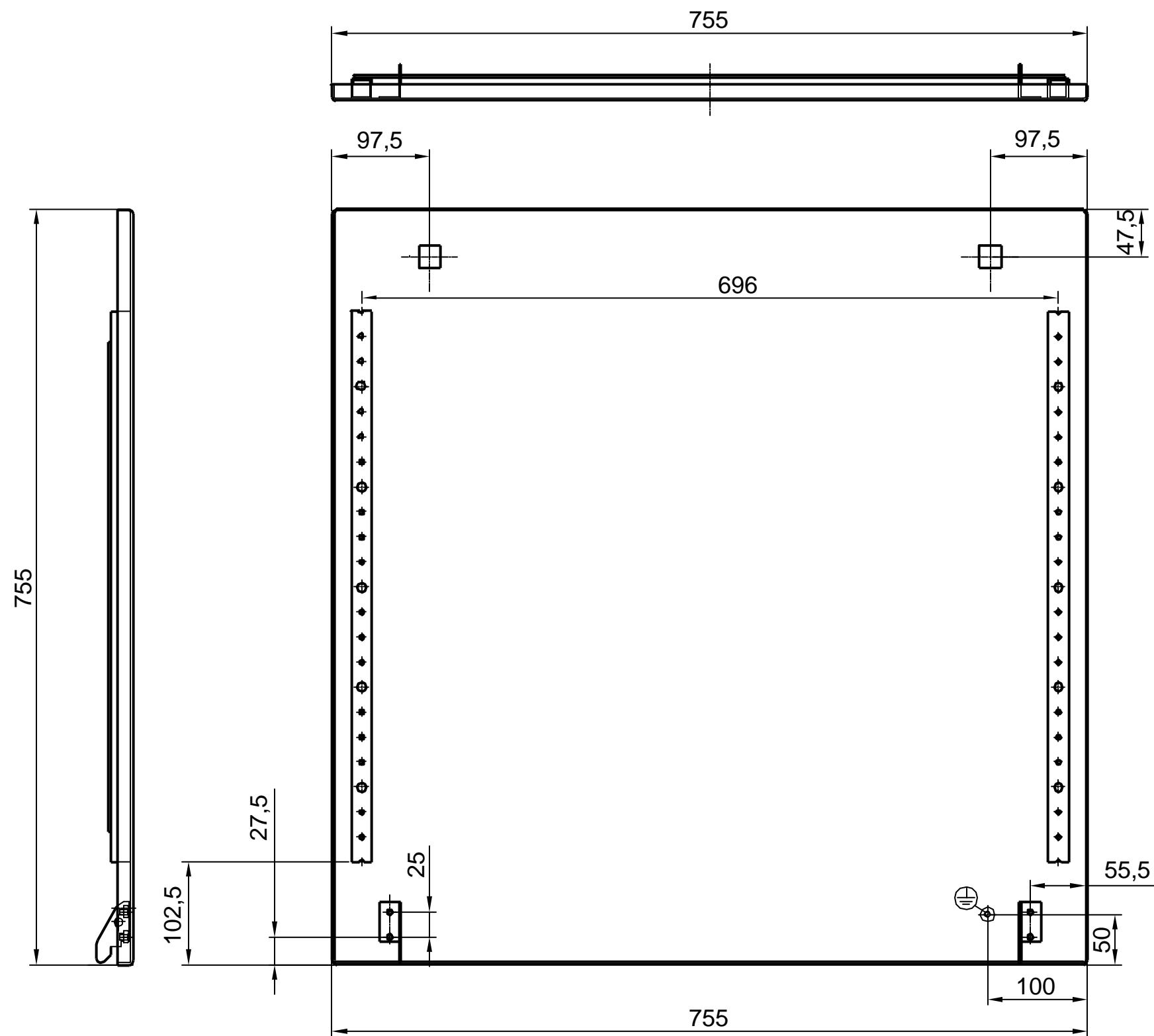


Notes:

General tolerances acc. to DS/EN 22768-M

	Date	Initials	Property of NEG Micon Control Systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.
Designed	020911	FOM	
Approved			
Revised	030724	SNU	
Change Note	Picture		Title
Material	Size	A4	Forside tegning af +AT6 f. 1500/64/72/82 Front page drawing +AT6 f. 1500/64/72/82
Dim	Scale	1:10	Partno 60017060 Drawingno 6010131 000-1 Rev. -

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CONTROL SYSTEMS

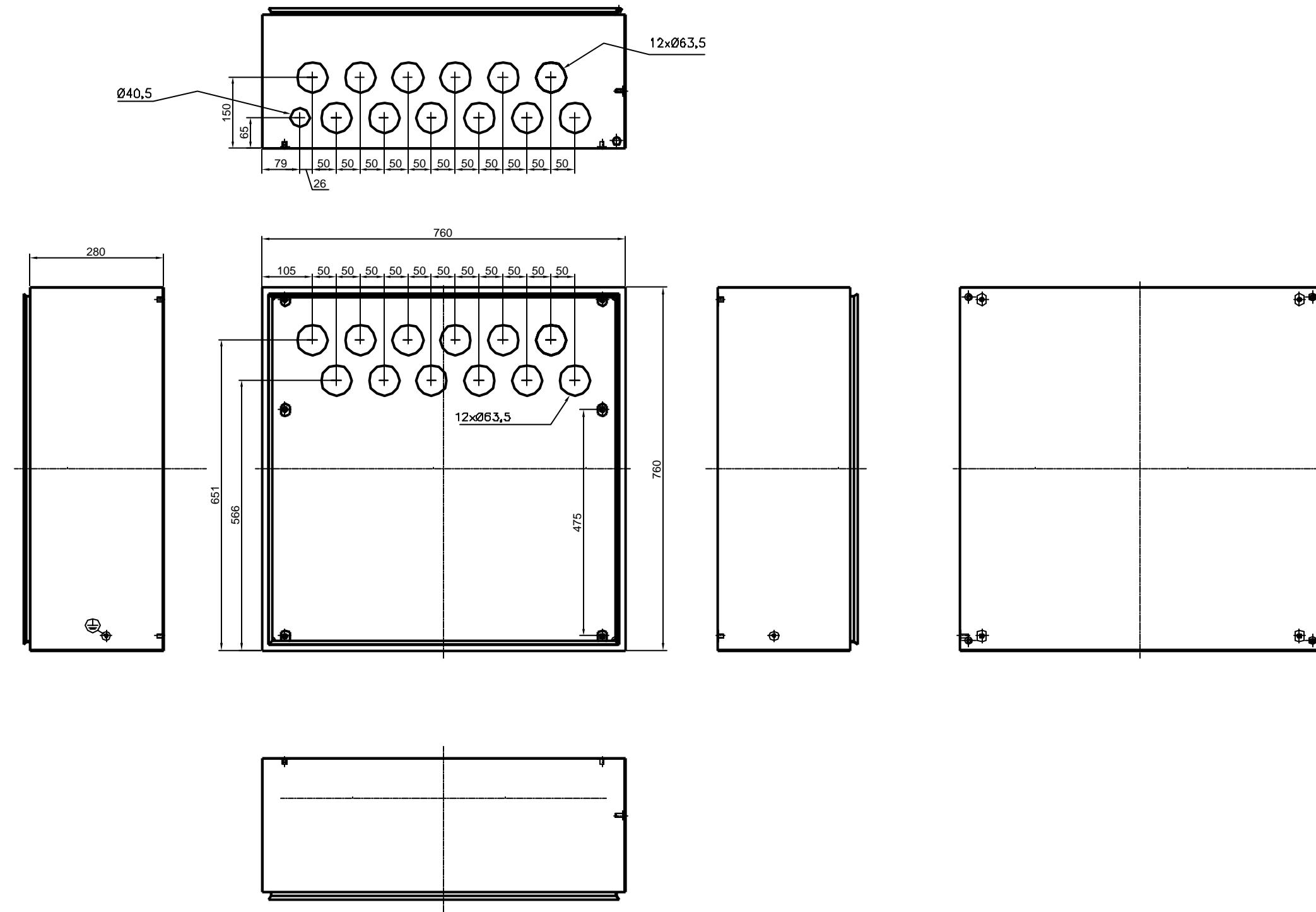


Modifiseret låge (front) for AE1073.600
Modify door (front) for AE1073.600

Notes:
General tolerances acc. to DS/EN 22768-M

	Date	Initials	Property of NEG Micon Control Systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.
Designed	020911	FOM	
Approved			
Revised	030724	SNU	
Change Note	Picture		Title
Material	Size	A3	Modifiseret (låge) for Rittal skab AE1073.600 Modify door (front) for AE1073.600
Dim	Scale	1:5	Partno 60010356 Drawing no
			6010131 000-2 Rev. -

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CONTROL SYSTEMS

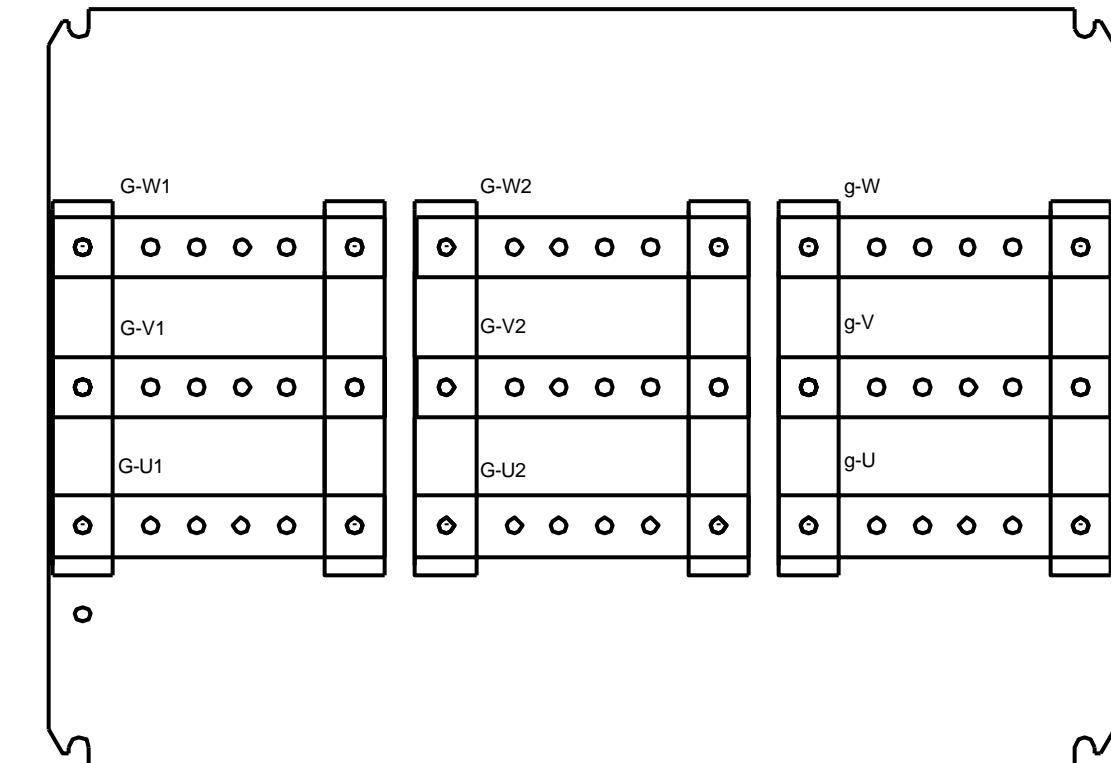
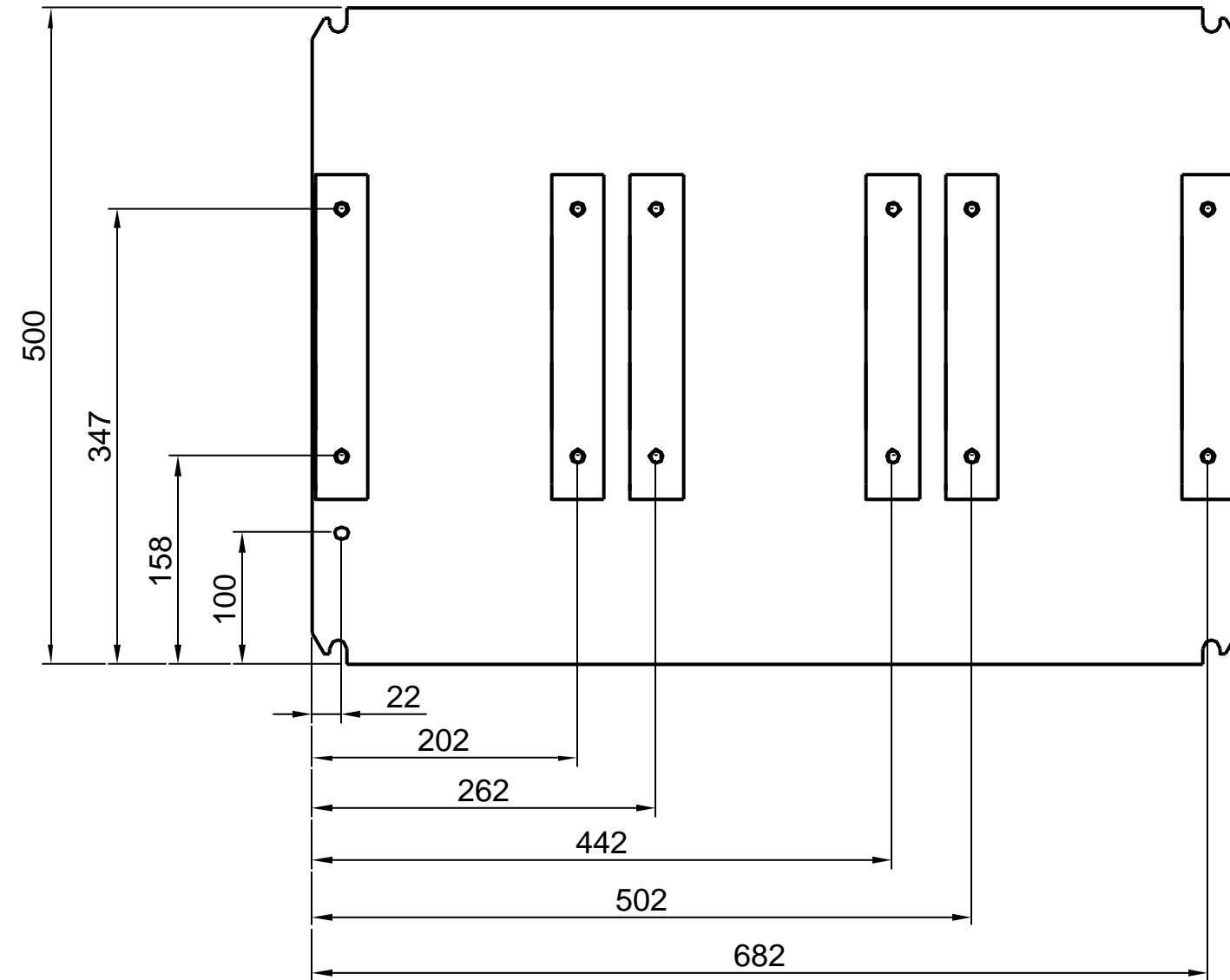


Notes:

General tolerances acc. to DS/EN 22768-M

	Date	Initials	Property of NEG Micon Control Systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.
Designed	020911	FOM	
Approved			
Revised	030724	SNU	
Change Note	Picture		Title
Material	Size	A3	Samleboks +AT6 f. 1500/64/72/82 - UL/IEC
Dim	Scale	1:10	Junction Box +AT6 f. 1500/64/72/82 - UL/IEC
	Partno	60010356	Drawing no
			6010131 000-3
			Rev. -

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Notes:

General tolerances acc. to DS/EN 22768-M

	Date	Initials	Property of NEG Micon Control Systems A/S. This drawing must not be passed on to any person, nor be copied or otherwise made use of without our approval.
Designed	020911	FOM	
Approved			
Revised	030724	SNU	
Change Note	Picture		Title
Material	Size	A3	Montageplade med komponenter f. NM64C-72C-82/1500 IEC Mounting Plate with componentsf. NM64C-72C-82/1500 IEC
Dim	3x500x704mm	Scale	1:5
		Partno	60010357
		Drawing no	
			6010131 000-4
			Rev. -

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5/15/2003 9:36 AM

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Material 60017060

Description JUNCTION BOX +AT6 GEN. CABLES f. NM1500C

Obj	Object description	Quantity	Un	SortStrng	Item	text
60007330	ISOLATOR 15850201 8*30MM FOR BUSBAR	18		PC		
60013734	SUPPORT 383mm for 3"ISOLATOR	6		PC		
60007635	CABLE GLAND BMBC-07 M63 BRASS	24		PC		
60007644	LOCKNUT BMBL-08 M63 BRASS	24		PC		
60010356	CABINET AE 760*760*300mm 1 DOOR w. WORK	1		PC		
60010357	MOUNTING PLATE AE 704*500mm w. WORK IEC	1		PC		
60013407	CU BAR 10*40*220 NM900-1500 JUNCTION BOX	9		PC		
60009676	HEXAGON BOLT 473 ISO4017 10*30mm	1		PC		
60009678	Screw ISO 4017 M10 x 35 - A2	72		PC		
60009842	LOCK WASHER 1221 DIN6798 10mm	2		PC		
60009879	Nut ISO 4032 M10 - A2	73		PC		
60009809	SPRING WASHER 1290 DIN6796 10mm	145		PC		
60009639	HEXAGON BOLT 473 ISO4017 8*20mm	24		PC		
60009638	HEXAGON BOLT 473 ISO4017 8*16mm	12		PC		
60009803	SPRING WASHER 1290 DIN6796 8.4mm	36		PC		
60009841	LOCK WASHER 1221 DIN6798 8mm	12		PC		
60009873	NUT BN1983 ISO4032 8mm	6		PC		
60020594	Cable W125 1x95mm ² 1m, from junction box	1		PC		
60002430	THERMOLABEL "48 Nm"	3		PC		
60002679	THERMOLABEL "WARNING! 3 x 690V"	1		PC		
60006819	STICKER "JORD" 14mm	1		PC		
60014044	LABELS JUNCTION BOX f. copper bar	1		PC		
60002527	THERMOLABEL "+AT6"	1		PC		
60006824	STICKER "LYN" 100mm	1		PC		
60024084	FOAM POLYESTER 1800*300*30mm GREY	1		PC		

Change Info

Item no. **Item text:**
60019412 Top Box +AN3b for NRG Wind Sensors IEC

Active revision for production

Drawing number: 6012547

Version	Date	Init./App.	Description of change since last revision
01	04.11.2003	IN/JP	First version in SAP no. system

LST number: 21000071

Version	Date	Init./App.	Material BOM number: 60016180 Description of change since last revision
01	25.03.2002	IN/JP	First version in SAP no. system

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

Version	Date	Init./App.	Material BOM number: xxxxxxxx Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

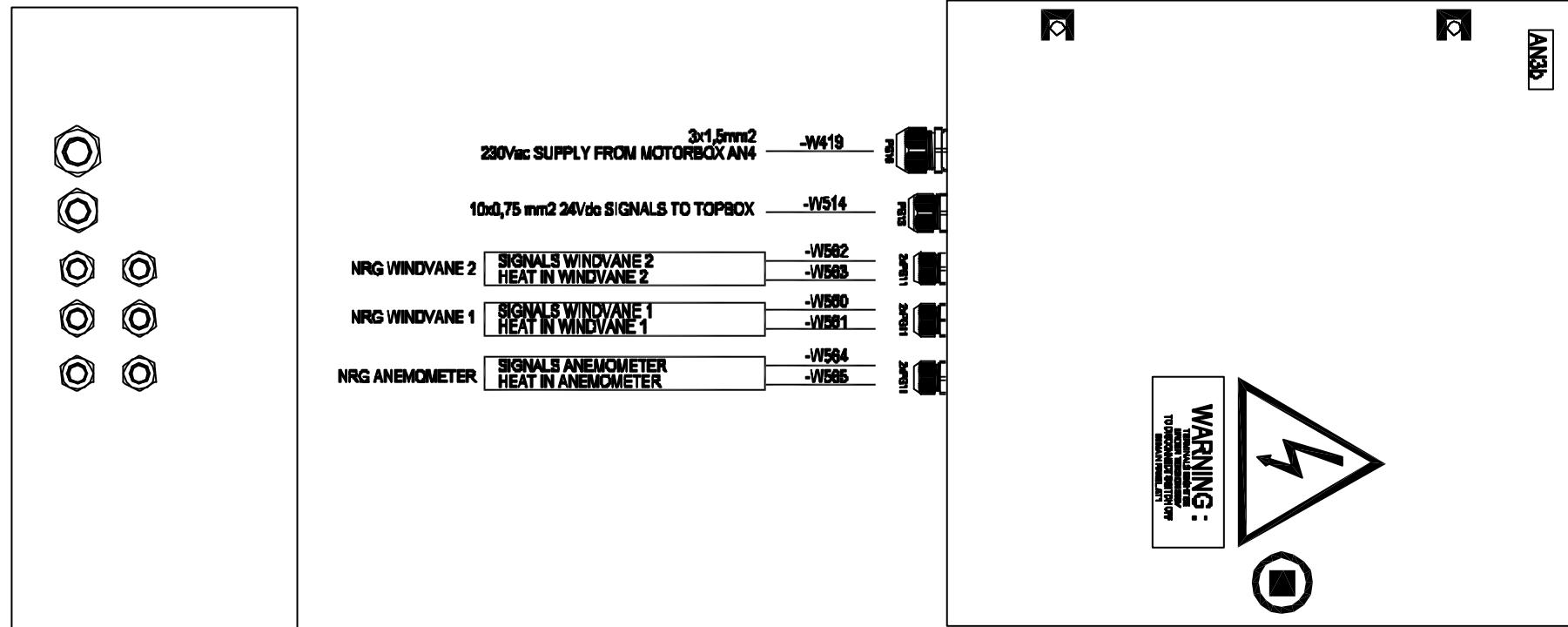
Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 0000499



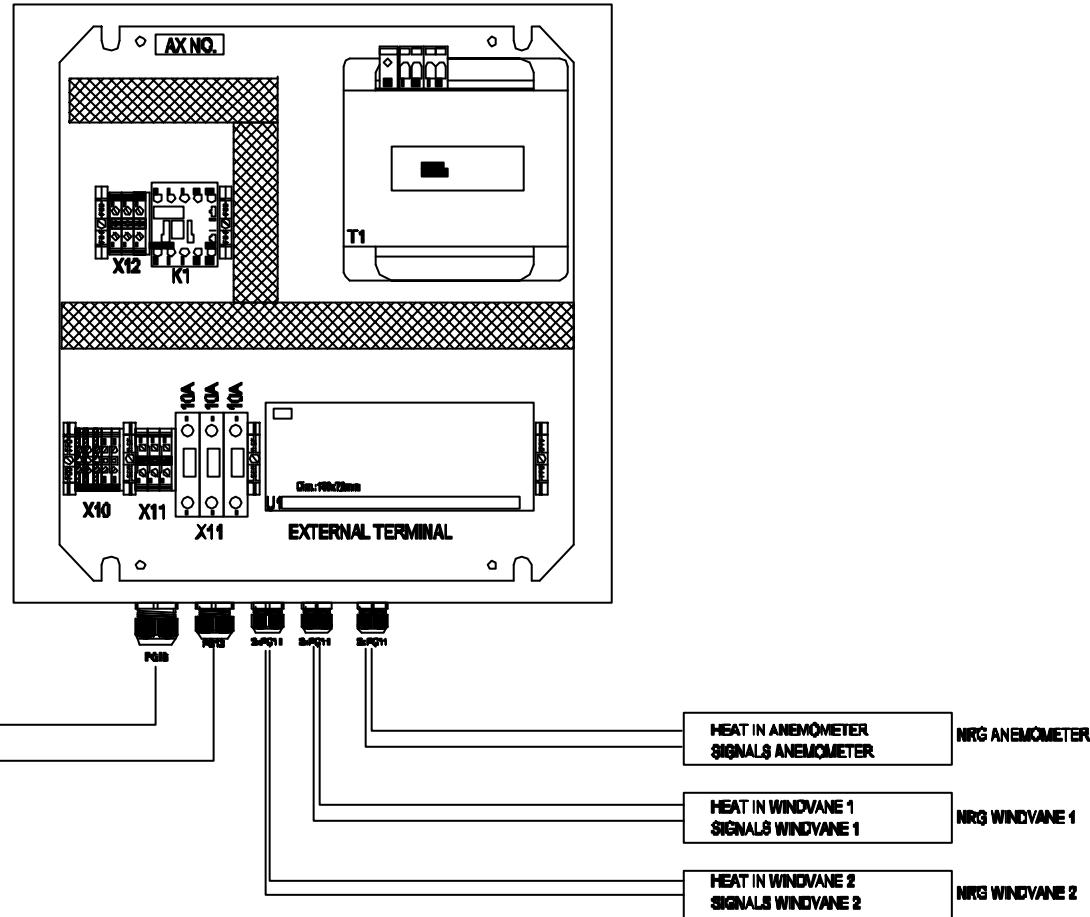
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	Date	Initials	Function	Table of Contents						
Designed	000918	RPJ	Project title	Top Box +AN3b for NRG Wind Sensors IEC, 690V 50Hz						
Approved			Comments	Standard/Tropic and Tropic/Arctic			Customer	NEG Micon A/S		
Revised	031104	INI	Rev.	01	Drawing no.	6012547	Cont. sheet	030	Sheet	001

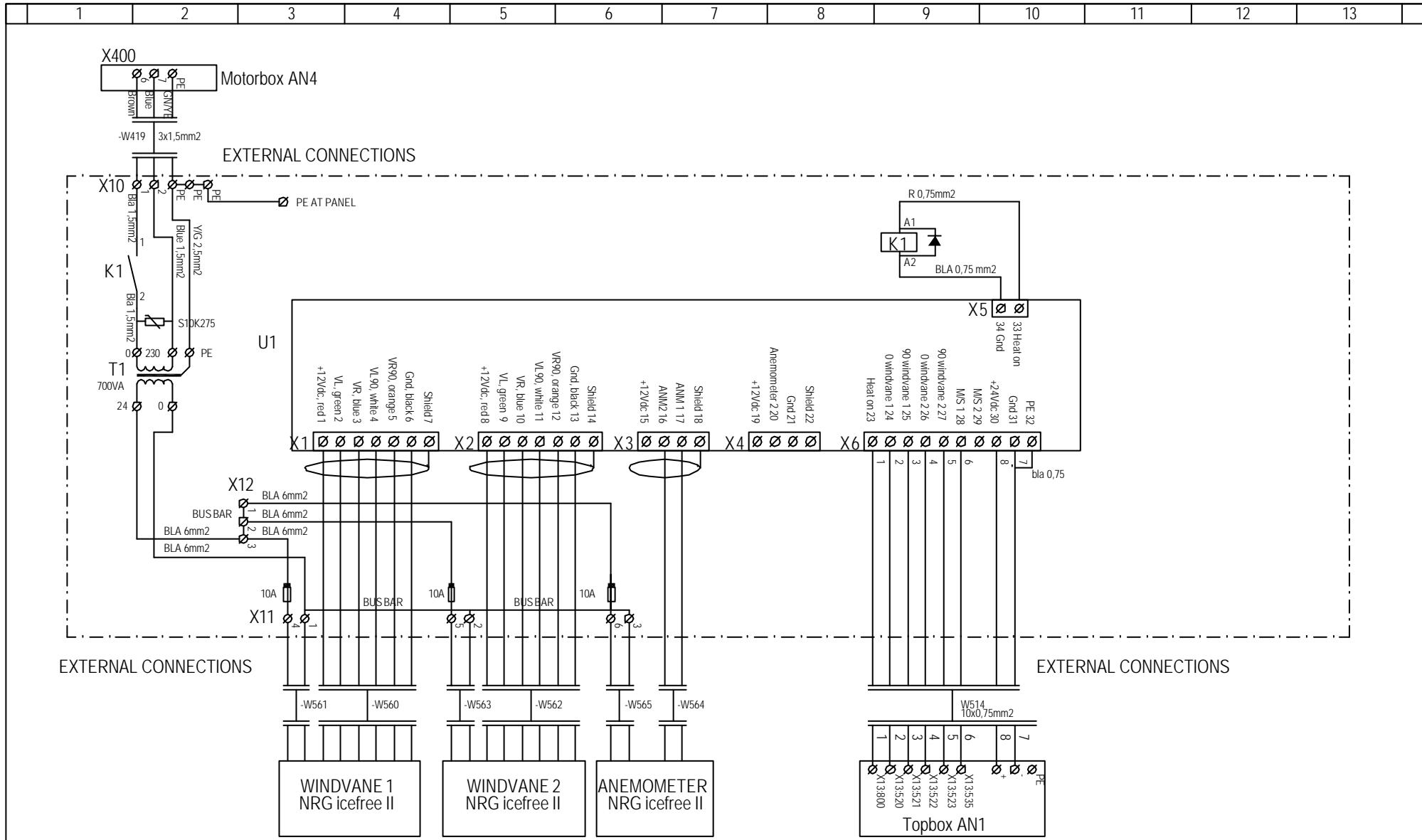


DIMENSION: 400x400x200mm (WxHxD)

	Date	Initials	Function	Box Layout			
Designed	000918	RPJ	Project title	Top Box +AN3b for NRG Wind Sensors IEC, 690V 50Hz			
Approved			Comments	Standard/Tropic and Tropic/Arctic		Customer	NEG Micon A/S
Revised	031104	INI	Rev.	-	Drawing no.	6012547	Cont. sheet 031 Sheet 030



	Date	Initials	Function	Box Outline		
Designed	000918	RPJ	Project title	Top Box +AN3b for NRG Wind Sensors IEC, 690V 50Hz		
Approved			Comments	Standard/Tropic and Tropic/Arctic		Customer NEG Micon A/S
Revised	031104	INI	Rev.	-	Drawing no. 6012547	Cont. sheet 100 Sheet 031



	Date	Initials	Function	Internal Connections			
Designed	000918	RPJ	Project title	Top Box +AN3b for NRG Wind Sensors IEC, 690V 50Hz			
Approved			Comments	Standard/Tropic and Tropic/Arctic		Customer	NEG Micon A/S
Revised	031104	INI	Rev.	-	Drawing no.	6012547	Cont. sheet

9/29/2003 2:21 PM
LST: 21000071
Version: 01

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Material 60016180
Description TOP BOX +AN3b for NRG WIND SENSORS

60009998	CABINET SN 400x400x200mm 1 DOOR w. WORK	1,000	PC	AN3B
60010107	MOUNTING PLATE SN 400x400mm w. WORK	1,000	PC	AN3B
60009873	NUT BN1983 ISO4032 8mm	4,000	PC	AN3B
60009841	LOCK WASHER 1221 DIN6798 8mm	4,000	PC	AN3B
60002426	THERMOLABEL "+AN3b"	1,000	PC	AN3B
60002654	THERMO."CAUTION! Risk of elec.shock.F105	1,000	PC	AN3B
60006824	STICKER "LYN" 100mm	1,000	PC	AN3B
60004392	CONTACTOR 3RT1016-1BB42 24V 50/60Hz	1,000	PC	K1
60004452	DIODE 3RT1916-1LM00 24-70V	1,000	PC	K1
60006981	ISOLA.TRAFO E1150/936438 110/230VAC 753	1,000	PC	T1
60006068	VDR SIOV-S10K275 275V	1,000	PC	T1
60009627	HEXAGON BOLT 473 ISO4017 6x20mm	4,000	PC	T1
60009840	LOCK WASHER 1221 DIN6798 6mm	4,000	PC	T1
60009795	SPRING WASHER 1290 DIN6796 6.4mm	4,000	PC	T1
60009869	NUT 8832 ISO4032 6mm	4,000	PC	T1
60015837	NRG INTERFACE 2VF+2VH	1,000	PC	U1
60006034	END STOP 9708/2 S35	1,000	PC	
60007541	CABLE GLAND BS14 PG13.5 NYLON	1,000	PC	U1
60007555	NUT BLN14 PG13.5 PA 6	1,000	PC	U1
60007540	CABLE GLAND BS13 PG11 NYLON	6,000	PC	U1
60007554	LOCKNUT BLN13 PG11 PA 6	6,000	PC	U1
60005983	TERMINAL STANDARD M4/6 115116.07	2,000	PC	X10
60005984	TERMINAL GROUND M4/6P	3,000	PC	X10
60005998	END SECTION FEM6 GREY 118368.16	1,000	PC	X10
60006034	END STOP 9708/2 S35	2,000	PC	X10
60007657	REDUCTION ADAPTER PG21-PG16	1,000	PC	X10
60007543	CABLE GLAND PG16 POLYAMID, PERFECT	1,000	PC	X10
60007615	LOCKNUT BSL-06 PG21 BRASS	1,000	PC	X10
60005977	FUSE HOLDER M10/16 SF 10.0mm ²	3,000	PC	X11
60005050	FUSE AGC-10 FAST ACTING 6.35x32 10A	3,000	PC	X11
60005050	FUSE AGC-10 FAST ACTING 6.35x32 10A	3,000	PC	Pakkes i pose
60005996	TERMINAL STANDARD M6/8 GREY 115118.11	3,000	PC	X11
60006001	JUMPER BAR BJM8 3-POLED 168521.22	1,000	PC	X11
60005998	END SECTION FEM6 GREY 118368.16	1,000	PC	X11
60006034	END STOP 9708/2 S35	1,000	PC	X11
60005996	TERMINAL STANDARD M6/8 GREY 115118.11	3,000	PC	X12
60006001	JUMPER BAR BJM8 3-POLED 168521.22	1,000	PC	X12
60005998	END SECTION FEM6 GREY 118368.16	1,000	PC	X12
60006034	END STOP 9708/2 S35	2,000	PC	X12
60014247	MARK RC810 +AN3b NM750 ARCTIC	1,000	SH	
60014077	MARK RC610 +AN3b JUNCTION BOX	1,000	SH	X10-11-12
60013947	LABEL +AN3b TOP BOX NM750	1,000	PC	
60002735	THERMOLABEL TYPE SIGN TOP BOX +AN3B	1,000	PC	UDVENDIG
60007182	DIN RAIL PP0735H 7x35mm	0,430	M	
60007355	CABLE CONDUIT 21159 25x60mm	0,600	M	
60009751	TAPPING SCREW 208 4.8x9.5mm	11,000	PC	
60012188	WIRING +AN3b NM900	1,000	PC	
60011510	STEEL WIRE 57.03849.400301 2.3mm	0,600	M	F. NØGLE
60011511	WIRE LOCK 57.03849.325505 for 2.3mm WIRE	2,000	PC	F. NØGLE

Change Info

Item no. 60019632 **Item text:** Nacelle Heater 2x10 kW 690V 50Hz

Active revision for production

Drawing number: 6012661

Version	Date	Init./App.	Description of change since last revision
01	08.10.2003	INIV/RPJ	First version in SAP no. system. Drawing converted to another drawing program. Project title changed.

LST number: 21000084

Version	Date	Init./App.	Material BOM number: 60016183
01	07.12.2000	RPJ/RPJ	Description of change since last revision First version in SAP no. system. Description text changed.

Old revisions for service

Drawing number:: xxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

Version	Date	Init./App.	Material BOM number: xxxxxxxx
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change

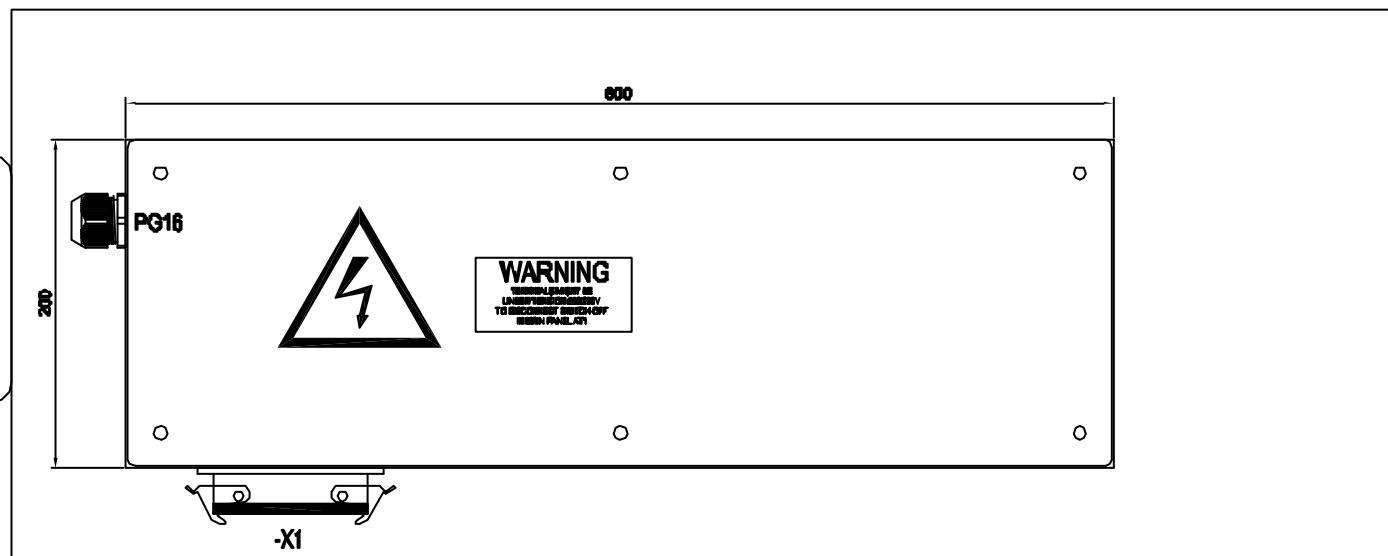
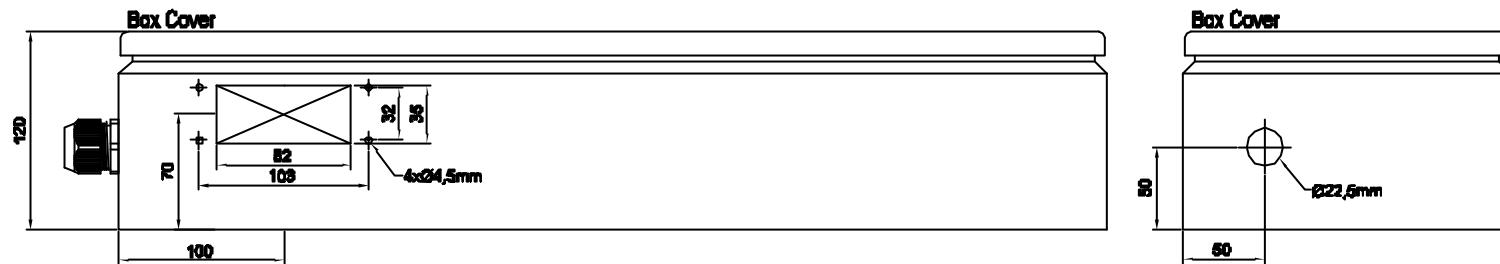
Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 0000500

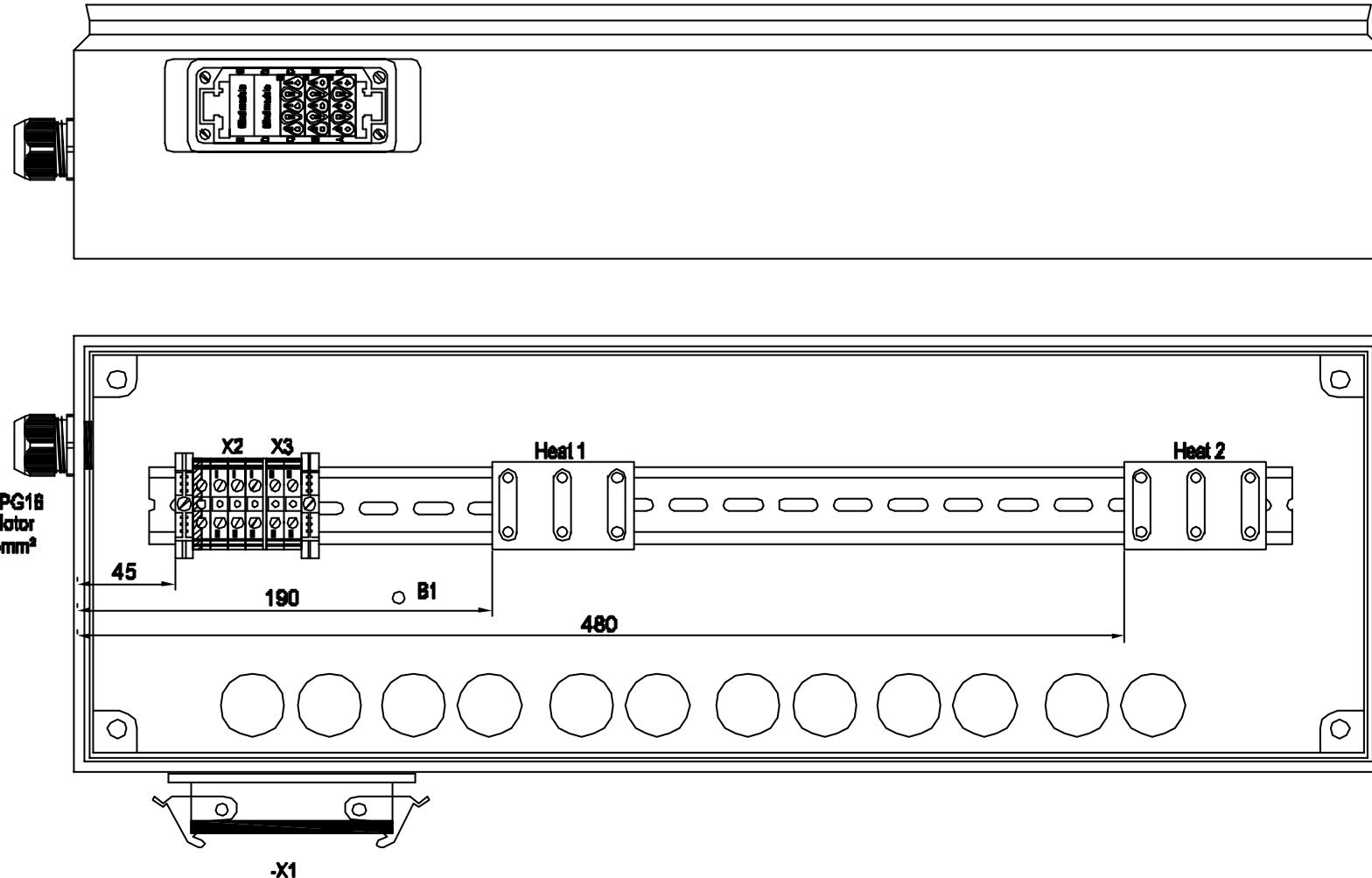


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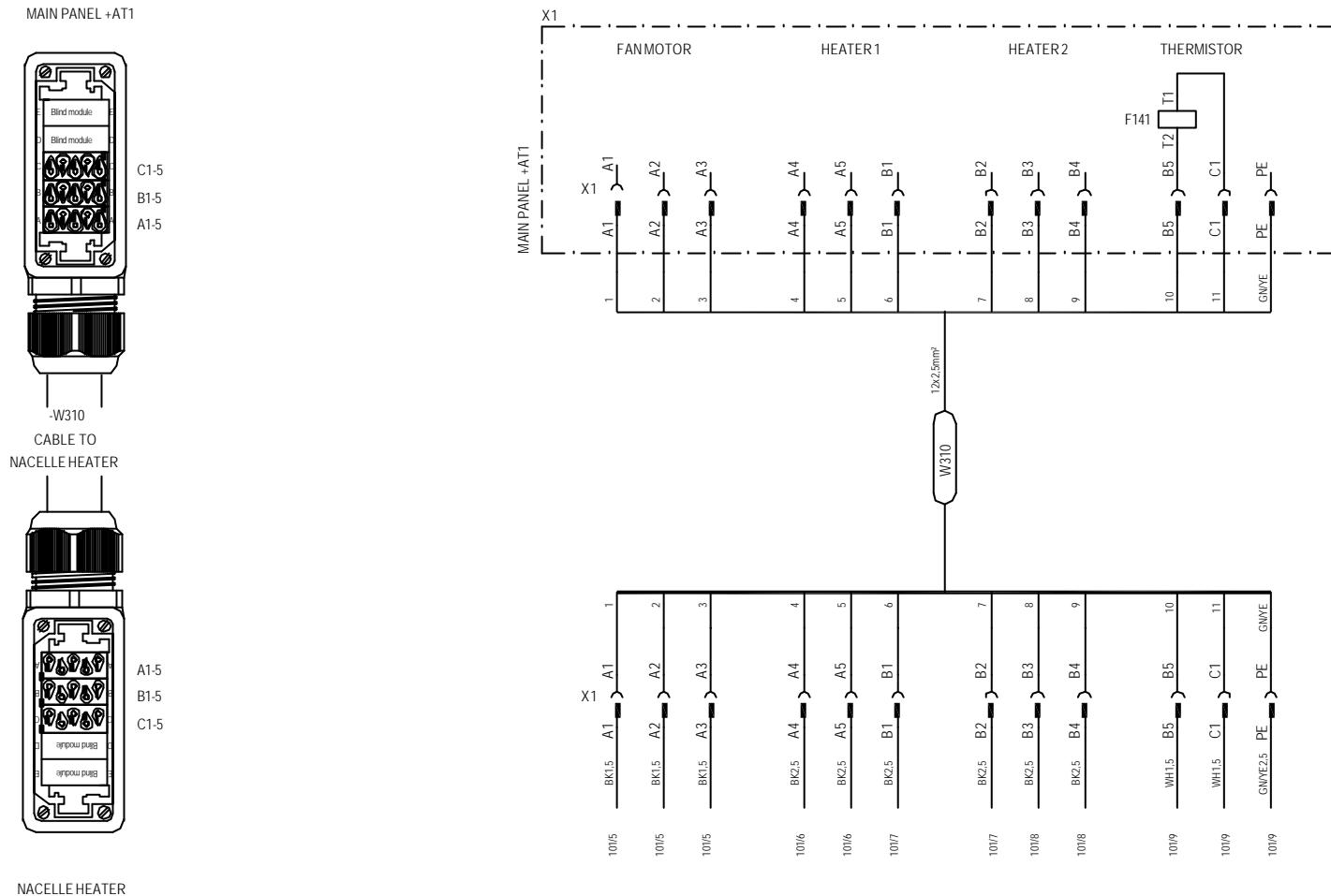
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Designed	011207	RPJ	Project title	Nacelle Heater 2x10 kW 690V 50Hz						
Approved			Comments	Customer NEG Micon A/S						
Revised	031008	INI	Rev.	01	Drawing no.	6012661	Cont. sheet	030	Sheet	001



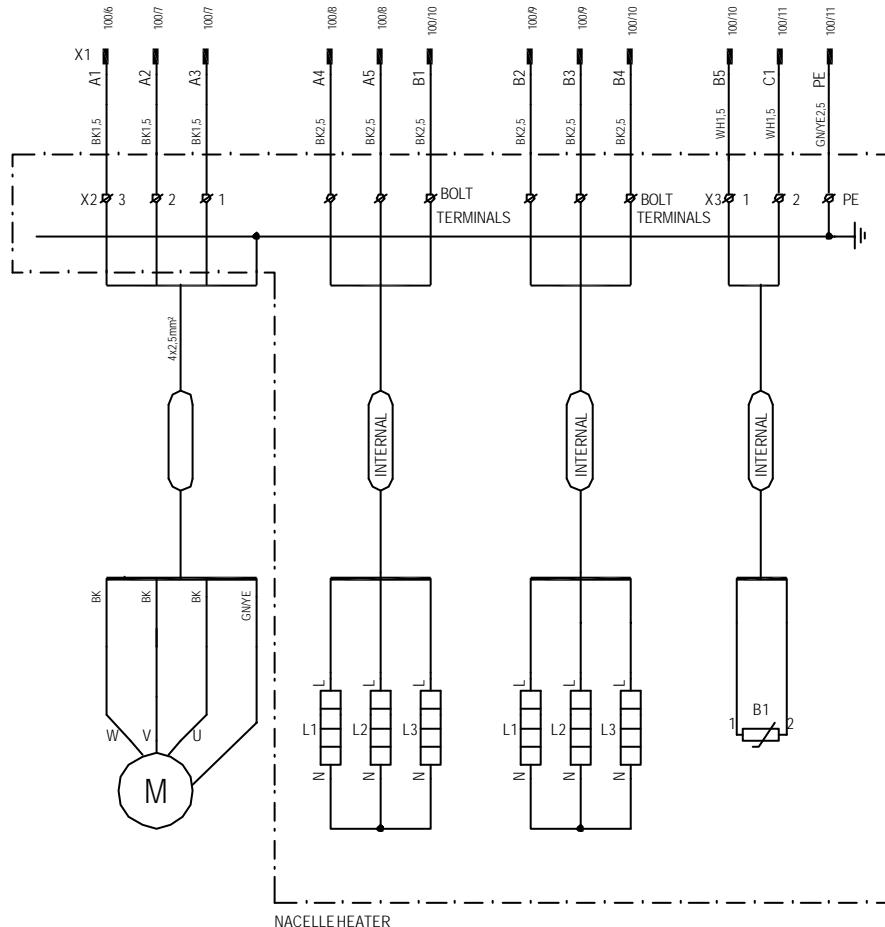
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Designed	011207	RPJ	Project title	Nacelle Heater 2x10 kW 690V 50Hz		
Approved			Comments			
Revised	031008	INI	Rev.	-	Drawing no.	6012661
			Cont. sheet	031	Sheet	030



	Date	Initials	Function	Panel Outline		
Designed	011207	RPJ	Project title	Nacelle Heater 2x10 kW 690V 50Hz		
Approved			Comments			
Revised	031008	INI	Rev.	-	Drawing no.	6012661
			Cont. sheet	100	Sheet	031



	Date	Initials	Function Main Connections, Main Panel +AT1							
Designed	011207	RPJ	Project title	Nacelle Heater 2x10 kW 690V 50Hz						
Approved			Comments			Customer	NEG Micon A/S			
Revised	031008	INI	Rev.	-	Drawing no.	6012661	Cont. sheet	101	Sheet	100



HEATER FAN
3x690W
0.55kW, 0.93A

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HEAT UNIT 1
3x690V/10kW

HEAT UNIT 2
3x690V/10kW

TEMP. SENSOR

	Date	Initials	Function	Main Connections, Nacelle Heater
Designed	011207	RPJ	Project title	Nacelle Heater 2x10 kW 690V 50Hz
Approved			Comments	Customer NEG Micon A/S
Revised	031008	INI	Rev. -	Drawing no. 6012661 Cont. sheet - Sheet 101

10/30/2003 3:24 PM

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LST: 21000084

Version: 01

Material 60016183

Description NACELLE HEATER 2x10 kW 690V 50Hz

Obj	Object description	Quantity	Un	SortStrng	Item	text
60006824	STICKER "LYN" 100mm	1		PC		
60014091	MARKER CARD RC610 HEATER NM750	1,000		SH		
60002736	THERMOLABEL TYPE SIGN NACELLE HEATER	1	PC	UDVENDIG		
60002655	THERMO."CAUTION! Risk of elec...plug X1"	1	PC			
60007603	CABLE GLAND BSBC05 PG16 BRASS	1	PC			
60007614	LOCKNUT BSL-05 PG16 BRASS	1	PC			
60006571	HOUSING C14610F0160001 32P BULKHEAD	1	PC	X1		
60012189	WIRING NACELLE HEATER NM900	1	PC	X1		
60007351	CABLE CONDUIT 21153 15x40mm	0,530	M	X1		
60002439	THERMOLABEL "-X1"	1	PC	X1		
60005983	TERMINAL STANDARD M4/6 115116.07	3	PC	X2		
60005998	END SECTION FEM6 GREY 118368.16	1	PC	X2		
60006034	END STOP 9708/2 S35	2	PC	X2		
60005984	TERMINAL GROUND M4/6P	1	PC	X2		
60005983	TERMINAL STANDARD M4/6 115116.07	2	PC	X3		
60005998	END SECTION FEM6 GREY 118368.16	1	PC	X3		
60006034	END STOP 9708/2 S35	1	PC	X3		
60000601	PTC 100R 30V 155G B59155-M155-A70	1	PC	B1		
60014736	HEATER 3x690V 2x10kW 50Hz NM900	1	PC			
60008058	RUBBER CABLE 4x2.5mm ² H07RN-F IEC	1	M			

Change Info

Item no. **Item text:**
None Junction Box +AN8 Front End

Active revision for production

Drawing number: 6011910

Version	Date	Init./App.	Description of change since last revision
01	19.09.2003	ATM/FLT	First version

LST number: 21000081

Version	Date	Init./App.	Description of change since last revision
01	30.10.2003	FLT/FLT	First version

Old revisions for service

Drawing number:: xxxxxxxx

Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change

LST number: xxxxxxxx

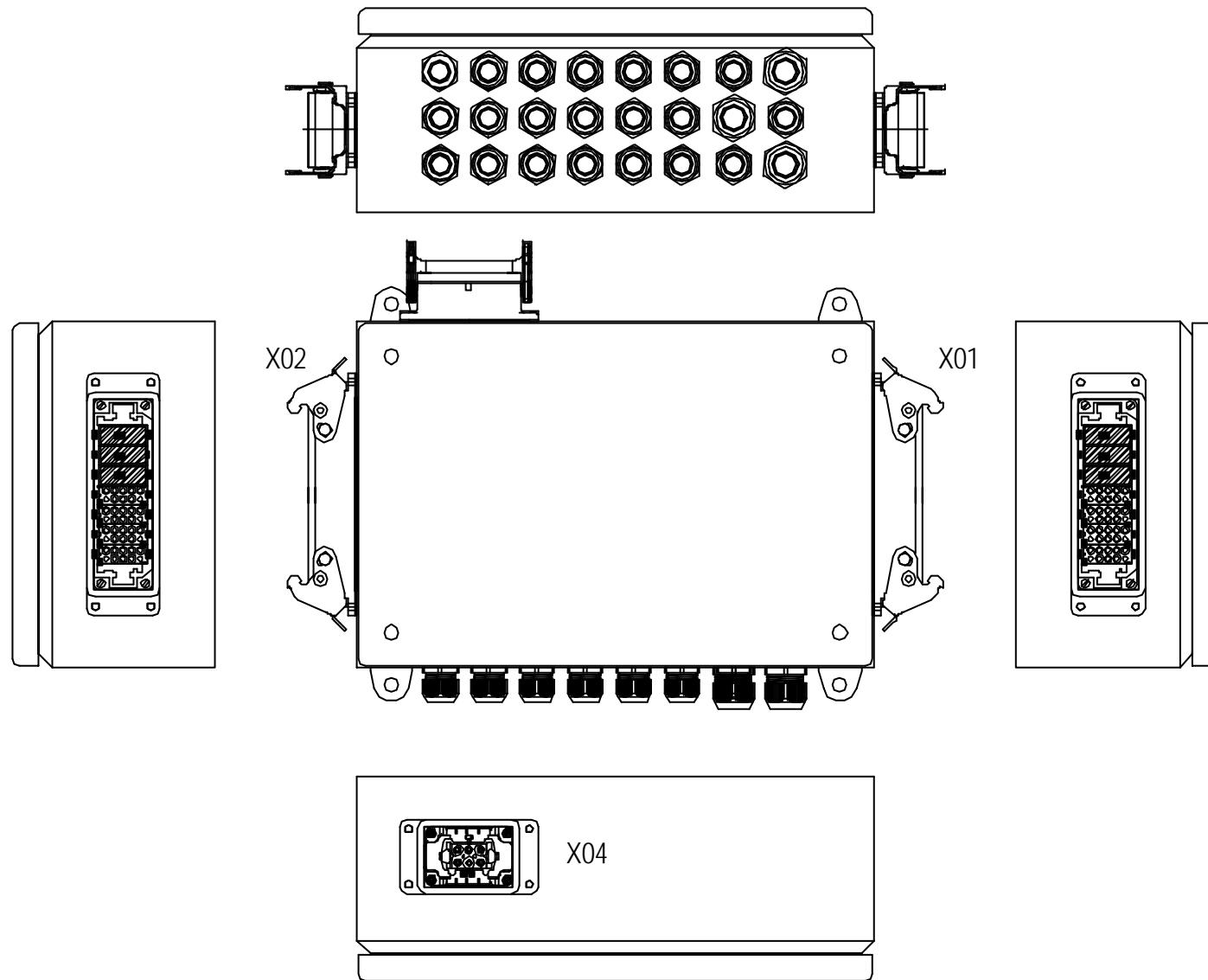
Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change



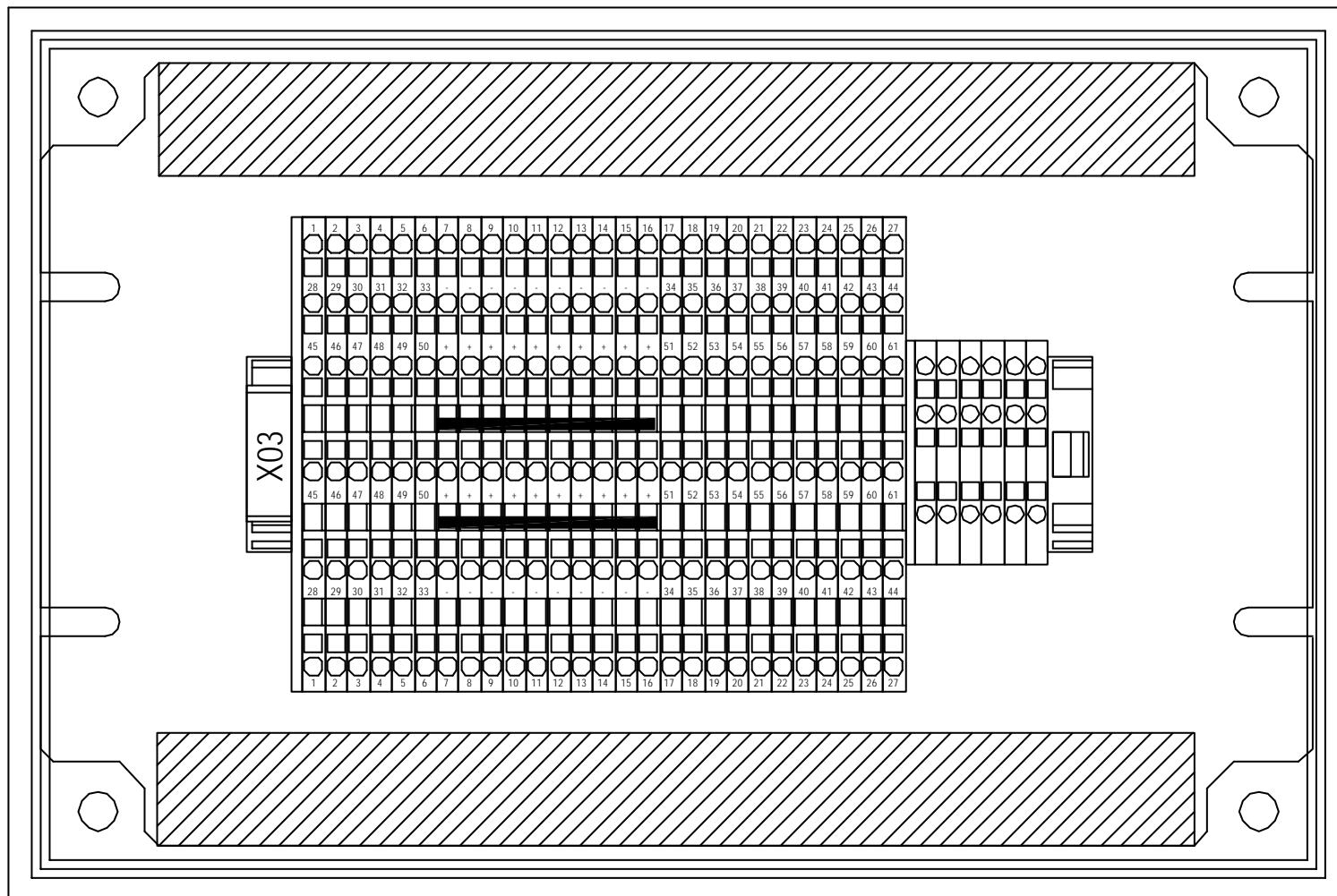
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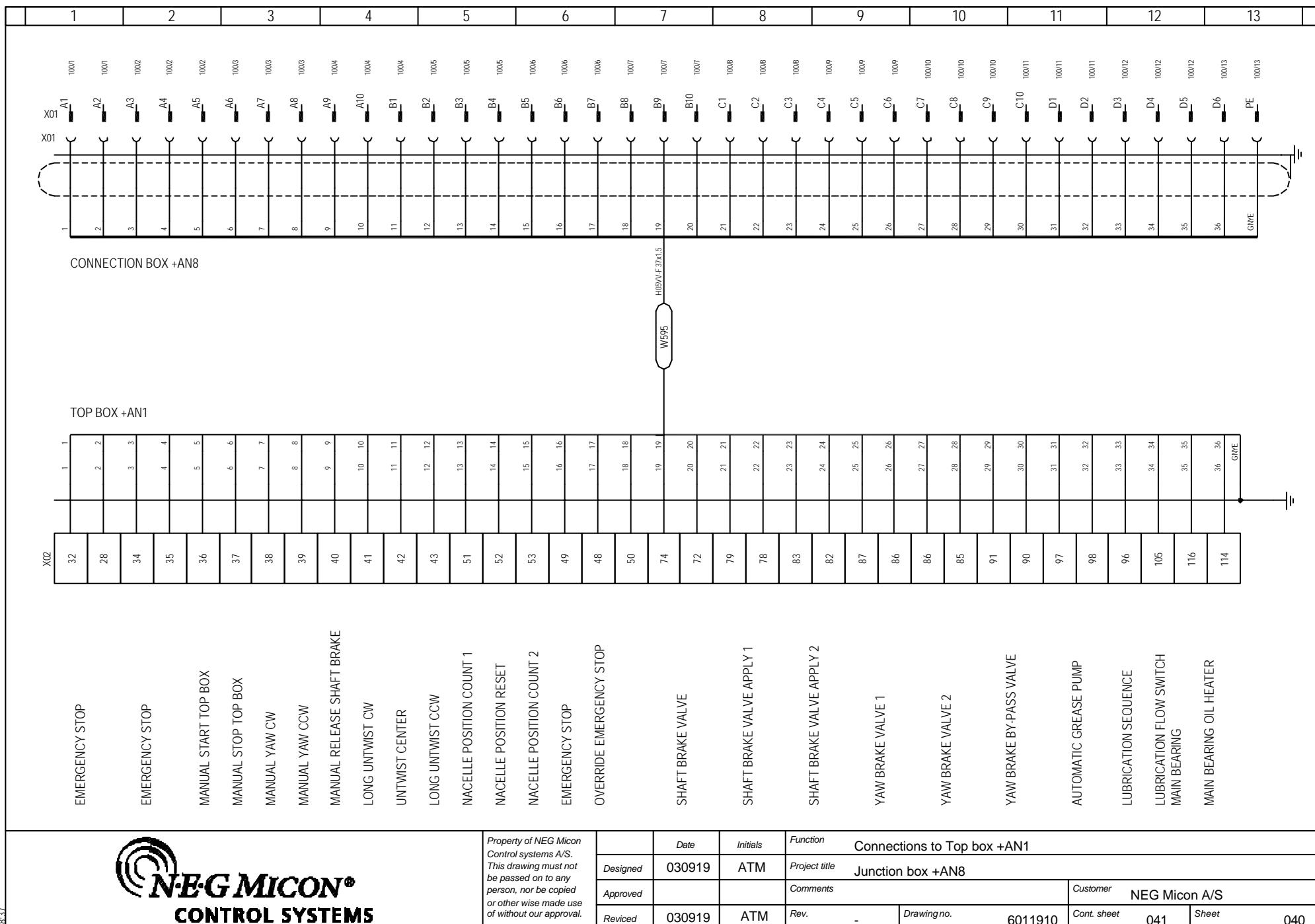
	Date	Initials	Function	Table of contents						
Designed	030919	ATM	Project title	Junction box +AN8						
Approved			Comments							
Revised	030919	ATM	Rev.	01	Drawing no.	6011910	Cont. sheet	030	Sheet	001

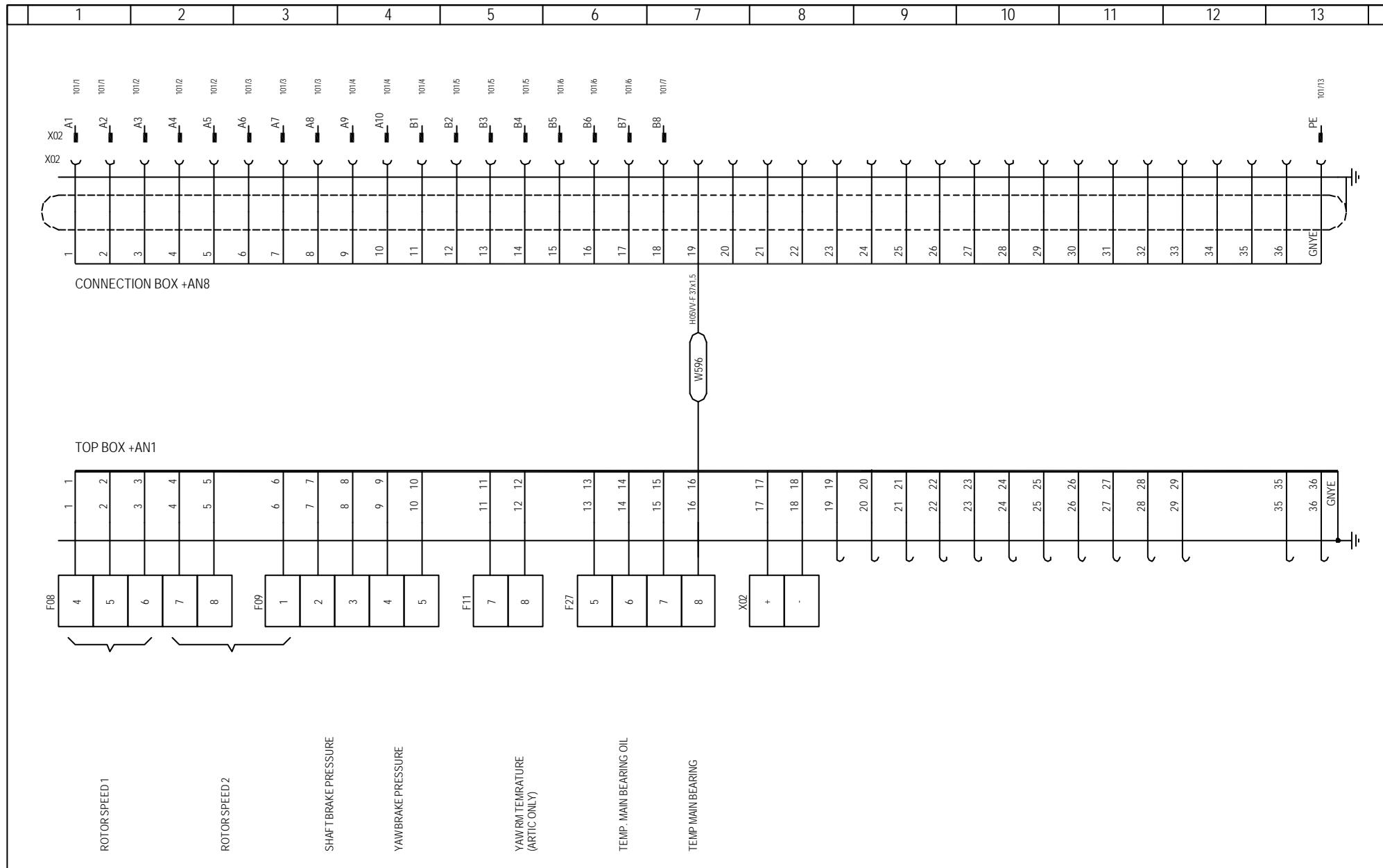
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	Date	Initials	Function	Front layout		
Designed	030919	ATM	Project title	Junction box +AN8		
Approved			Comments		Customer	NEG Micon A/S
Revised	030919	ATM	Rev.	-	Drawing no.	6011910
			Cont. sheet	031	Sheet	030



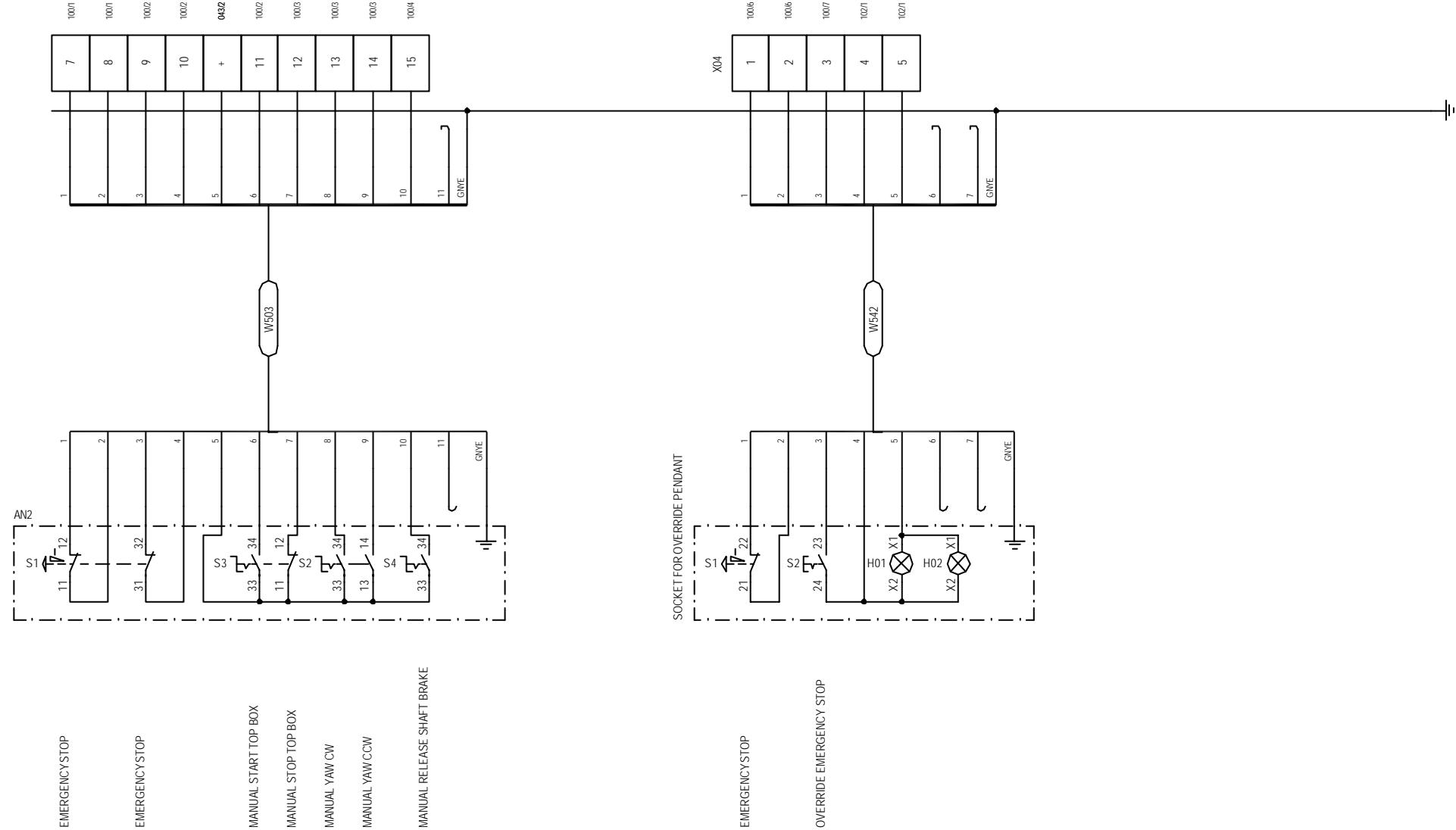




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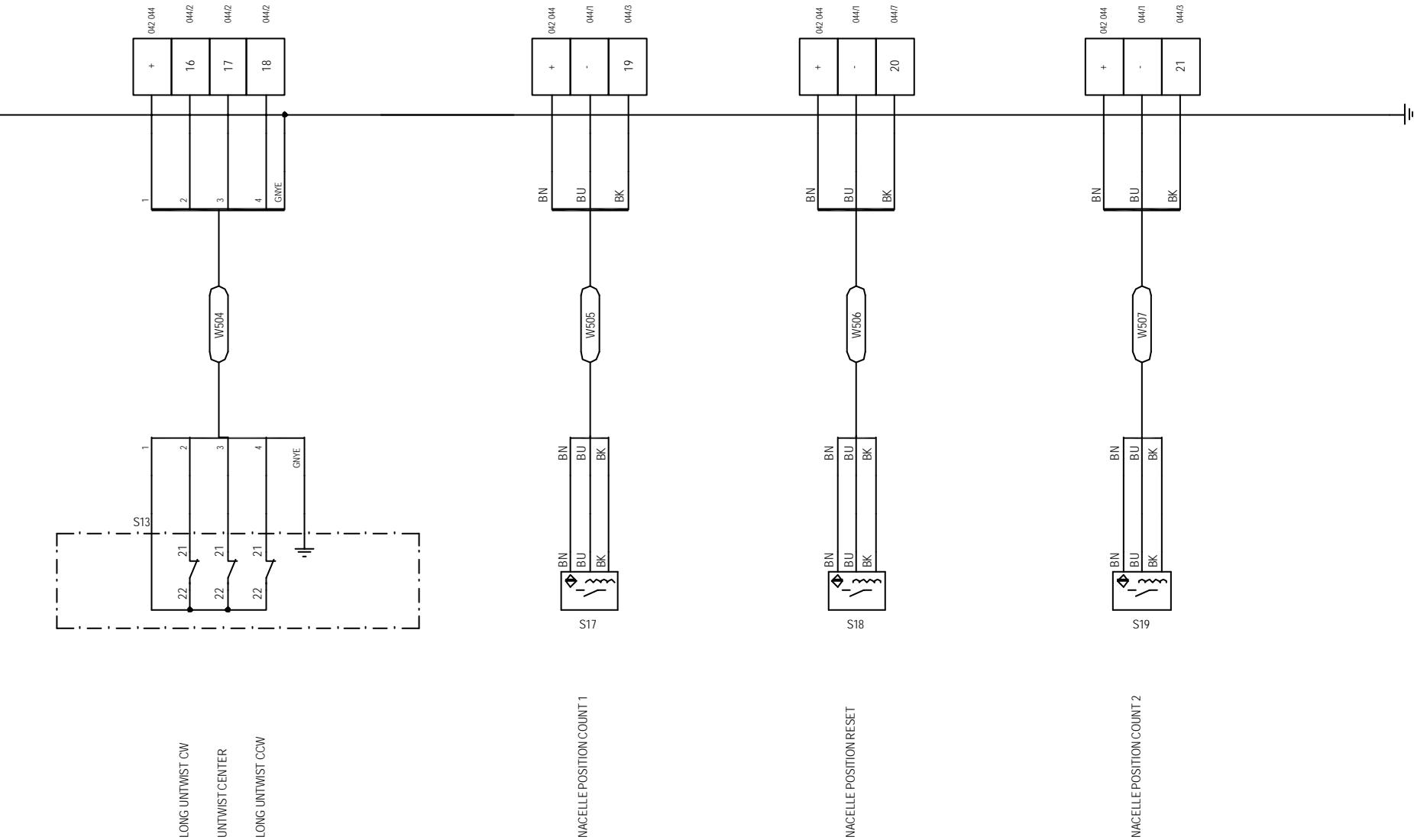
	Date	Initials	Function	Connections to Top box +AN1						
Designed	030919	ATM	Project title	Junction box +AN8						
Approved			Comments	Customer NEG Micon A/S						
Revised	030919	ATM	Rev.	-	Drawing no.	6011910	Cont. sheet	042	Sheet	041

	1	2	3	5	6	7	8	9	10	11	12	13
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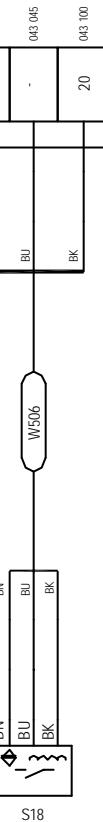
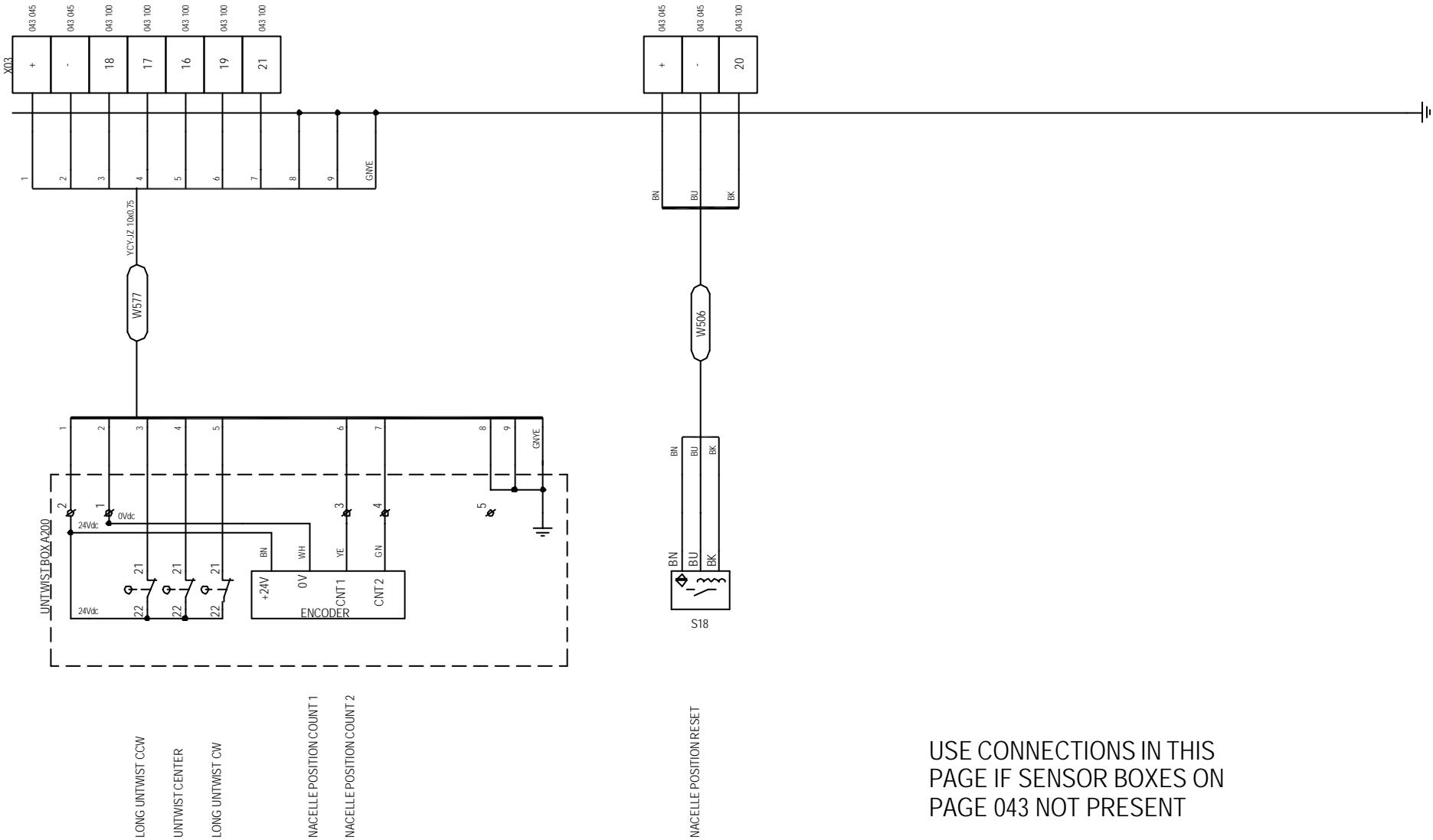


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Designed	030919	ATM	Project title	Junction box +AN8		
Approved			Comments		Customer	NEG Micon A/S
Revised	030919	ATM	Rev.	-	Drawing no.	6011910
			Cont. sheet	043	Sheet	042

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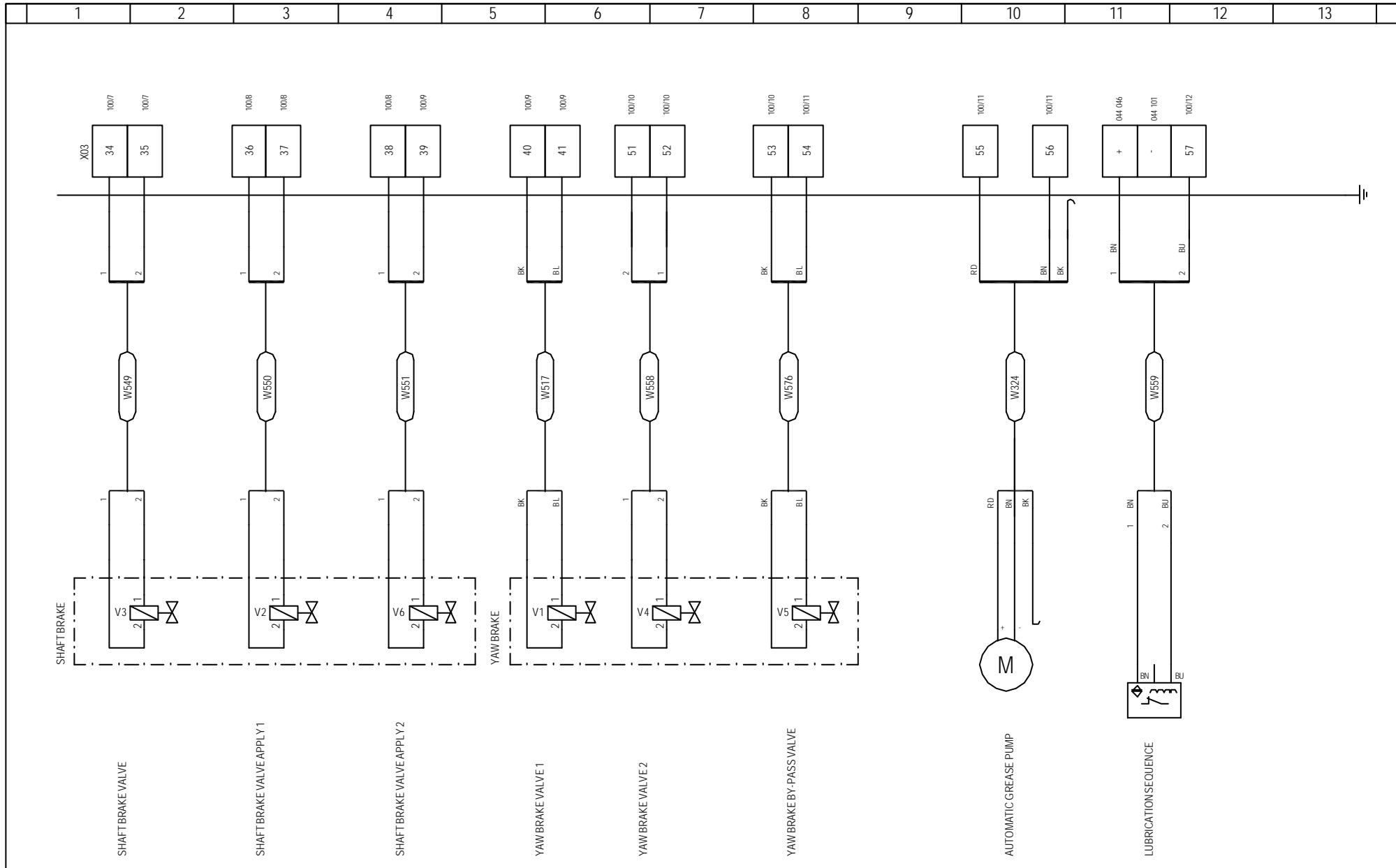


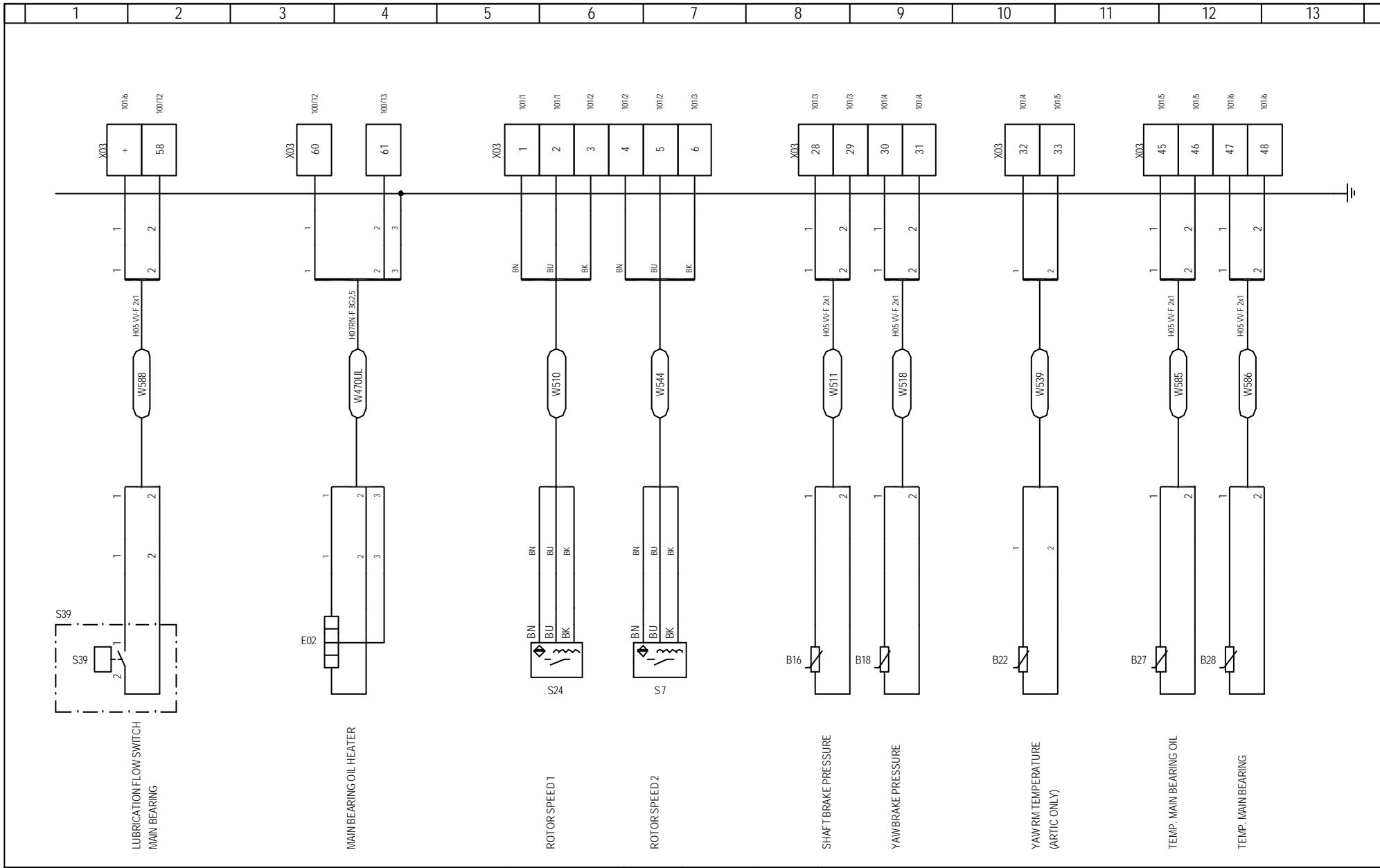
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Designed	030919	ATM	Project title	Junction box +AN8		
Approved			Comments			
Revised	030919	ATM	Rev. -	Drawing no.	6011910	Customer NEG Micon A/S
				Cont. sheet	044	Sheet 043



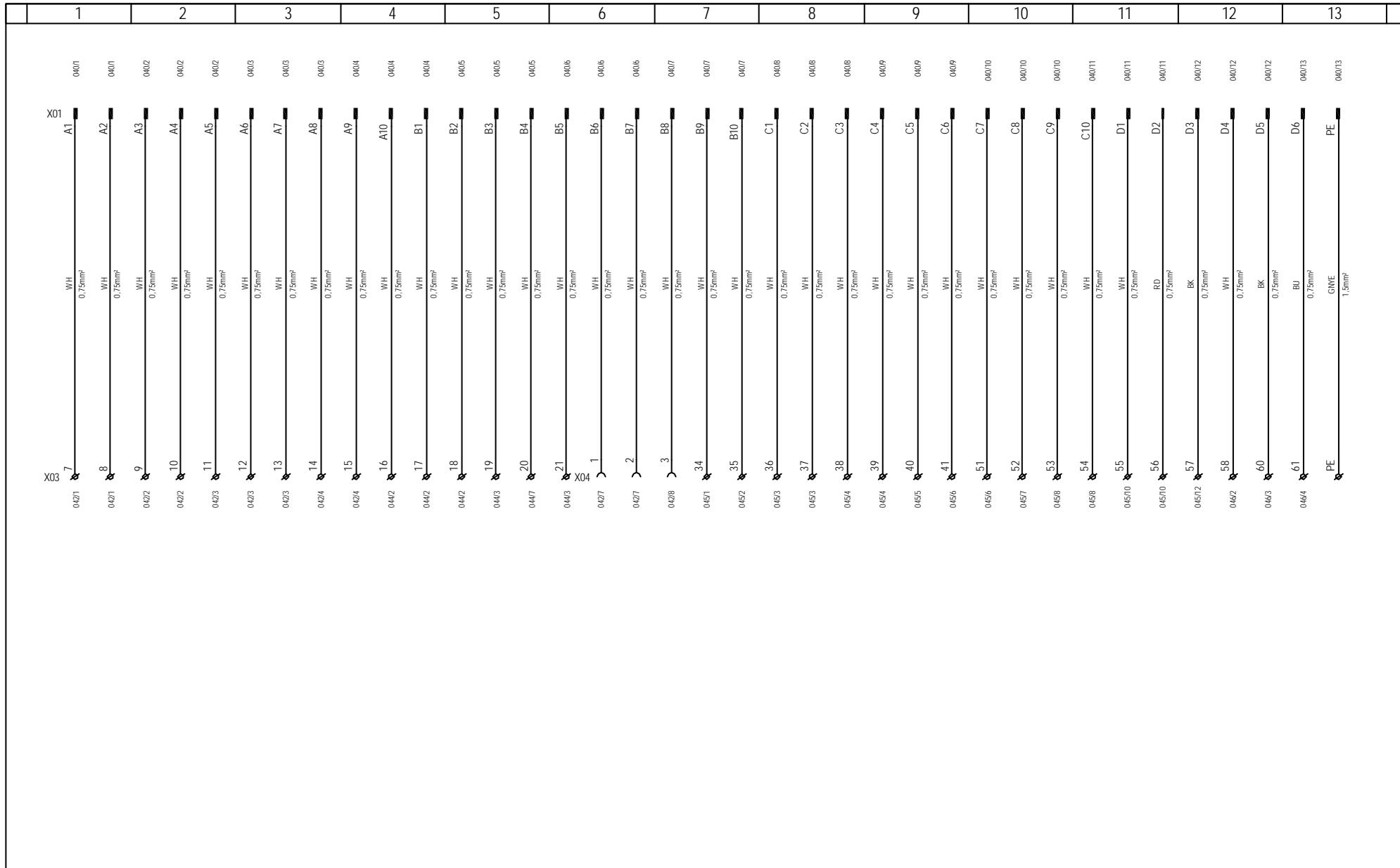
USE CONNECTIONS IN THIS
PAGE IF SENSOR BOXES ON
PAGE 043 NOT PRESENT

	Date	Initials	Function	External connections		
Designed	030919	ATM	Project title	Junction box +AN8		
Approved			Comments		Customer	NEG Micon A/S
Revised	030919	ATM	Rev.	-	Drawing no.	6011910
			Cont. sheet	045	Sheet	044





	Date	Initials	Function	External connections		
Designed	030919	ATM	Project title	Junction box +AN8		
Approved			Comments		Customer	
Revised	030919	ATM	Rev.	-	Drawing no.	6011910
			Cont. sheet	100	Sheet	046



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	Date	Initials	Function	Internal connections						
Designed	030919	ATM	Project title	Junction box +AN8						
Approved			Comments							
Revised	030919	ATM	Rev.	-	Drawing no.	6011910	Cont. sheet	101	Sheet	100

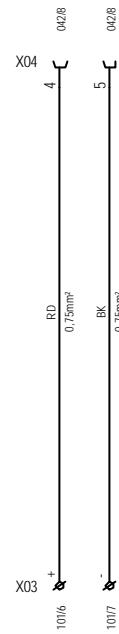
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046/5	2	BK	0.75mm ²	A2	04111	
046/6	3	WH	0.75mm ²	A3	04112	
046/6	4	RD	0.75mm ²	A4	04112	
046/6	5	BK	0.75mm ²	A5	04112	
046/7	6	WH	0.75mm ²	A6	04113	
046/8	29	WH	0.75mm ²	A7	04113	
046/8	28	WH	0.75mm ²	A8	04113	
046/8	28	WH	0.75mm ²	A8	04113	
046/9	30	WH	0.75mm ²	A9	04114	
046/9	31	WH	0.75mm ²	A10	04114	
046/9	31	WH	0.75mm ²	A10	04114	
046/10	32	WH	0.75mm ²	B1	04114	
046/10	33	WH	0.75mm ²	B2	04115	
046/11	45	RD	0.75mm ²	B3	04115	
046/12	46	BK	0.75mm ²	B4	04115	
046/12	47	WH	0.75mm ²	B5	04116	
046/12	48	WH	0.75mm ²	B6	04116	
046/102	+	RD	0.75mm ²	B7	04116	
045/102	-	BK	0.75mm ²	B8	04117	
		WH		B9		
				B10		
				C1		
				C2		
				C3		
				C4		
				C5		
				C6		
				C7		
				C8		
				C9		
				C10		
				D1		
				D2		
				D3		
				D4		
				D5		
				D6		
				PE	04113	
				GW/E	1.5mm ²	



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	Date	Initials	Function	Internal connections						
Designed	030919	ATM	Project title	Junction box +AN8						
Approved			Comments			Customer	NEG Micon A/S			
Revised	030919	ATM	Rev.	-	Drawing no.	6011910	Cont. sheet	102	Sheet	101

	1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	Internal connections		
Designed	030919	ATM	Project title	Junction box +AN8		
Approved			Comments			
Revised	030919	ATM	Rev.	-	Drawing no.	6011910
			Cont. sheet	-	Sheet	102

10/31/2003 8:19 AM

1 / 1

LST: 21000081

Version: 01

Material	60096713				
Description	JUNCTION BOX +AN8 FRONT END				
Obj	Object description	Quantity	Un	SortStrng	Item text
60097241	TERMINAL BOX KL 300X200X120MM W. WORK	1	PC		
60097202	MOUNTING PLATE KL 285x175mm W. WORK	1	PC		
60010404	WALL BRACKET for KL BOX	1	PAC		
60006072	TERMINAL WAGO 870-551 3-LEV.0,08-2,5mm ²	27	PC	X03	
60006084	END SECTION 870-568 3-LEVEL GREY	1	PC	X03	
60006077	TERMINAL WAGO GROUND 870-687 0.08-2.5mm ²	6	PC	X03	
60006080	END SECTION 870-933 1-LEVEL GREY	1	PC	X03	
60014286	MARKER CARD WAGO Nos 1-10 TYPE 870-	1,000	SH	X03	
60014287	MARKER CARD WAGO Nos 11-20 TYPE 870-	1,000	SH	X03	
60014288	MARKER CARD WAGO Nos 21-30 TYPE 870-	1,000	SH	X03	
60014289	MARKER CARD WAGO Nos 31-40 TYPE 870-	1,000	SH	X03	
60014290	MARKER CARD WAGO Nos 41-50 TYPE 870-	1,000	SH	X03	
60014291	MARKER CARD WAGO Nos 51-60 TYPE 870-	1,000	SH	X03	
60014292	MARKER CARD WAGO Nos 61-70 TYPE 870-	1,000	SH	X03	
60014301	MARKER CARD WAGO +++++ TYPE 870-	1,000	SH	X03	
60014302	MARKER CARD WAGO TYPE 870-	1,000	SH	X03	
60091915	END STOP LABEL HO LDER WAGO 249-119 10mm	1	PC	X03	
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	X03	
60007182	DIN RAIL PP0735H 7x35mm	27	CM		
60007356	CABLE CONDUIT 21165 25x80mm	23	CM		
60007356	CABLE CONDUIT 21165 25x80mm	23	CM		
60006090	PUSH-IN JUMPER BAR 870-410 10-POLED	2	PC		
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X01	
60006479	FRAME f. 7 MOD. C14610P0240608 MALE 2+PE	1	PC	X01	
60006495	ADAPTER f.STAMP. C14610A0100008 MALE 10P	4	PC	X01	
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X02	
60007584	CABLE GLAND BM-EN-11 M16 PA 6	21	PC		
60007585	CABLE GLAND BM-EN-12 M20 PA 6	3	PC		
60007592	LOCKNUT BML-11 M16 PA 6	21	PC		
60007593	LOCKNUT BML-12 M20 PA 6	3	PC		
60002502	THERMOLABEL "+AN8"	1	PC		
60002503	THERMOLABEL "-X01"	1	PC		
60002504	THERMOLABEL "-X02"	1	PC		
60002506	THERMOLABEL "-X04"	1	PC		
60097599	HOUSING C14610F0060001 24P BULKHEAD	1	PC	X04	
60006428	METAL COVER 09300065425 6-POLED	1	PC	X04	
60098285	LASER LABEL +AN8	1	PC		
60098291	WIRING +AN8 -X01	1	PC		
60098295	WIRING +AN8 -X02	1	PC		
60098297	WIRING +AN8 -X04	1	PC		

Change Info

Item no. **Item text:**
None Motor Box +AN9 Rear End

Active revision for production

Drawing number: 6012437

Version	Date	Init./App.	Description of change since last revision
02	01.12.2003	FLT/FLT	Page 001: Updated. Page 030: Text X01 and X02 corrected.

LST number: 21000082

Version	Date	Init./App.	Description of change since last revision
01	30.10.2003	FLT/FLT	First version

Old revisions for service

Drawing number: 6012437

Version	Date	Init./App.	Description of change since last revision
01	22.09.2003	FLT/FLT	First version

LST number: xxxxxxxx

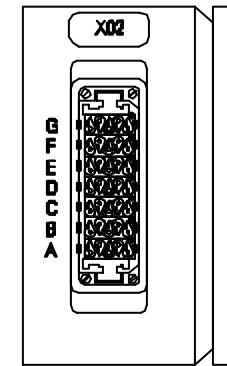
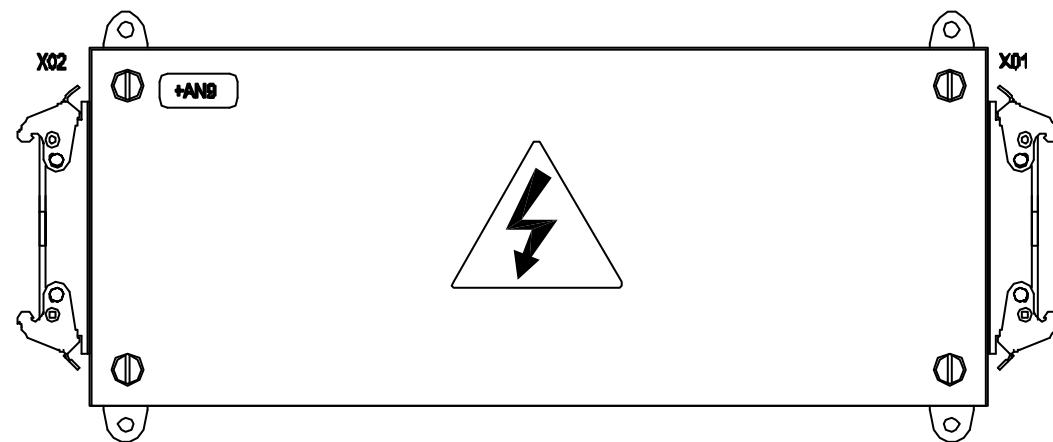
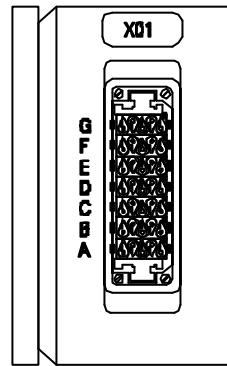
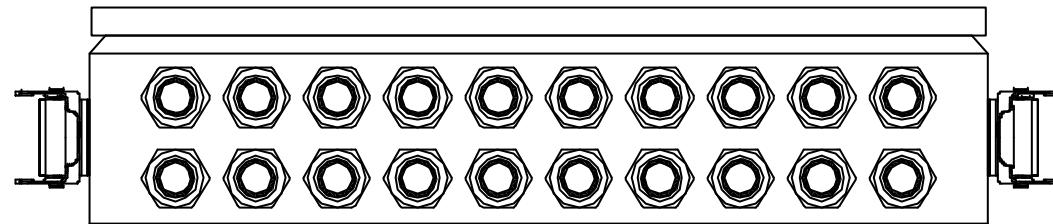
Version	Date	Init./App.	Description of change since last revision
xx	dd.mm.yyyy	xxx/	Write the change



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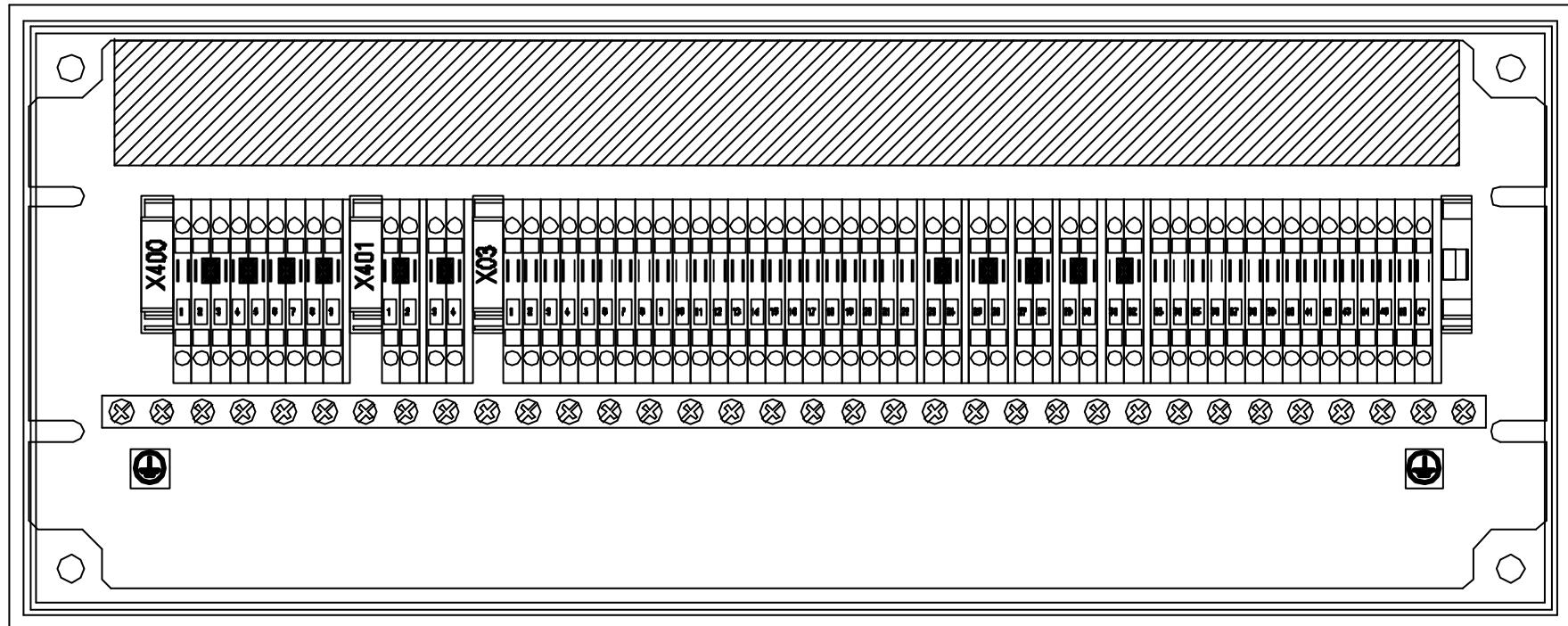
	Date	Initials	Function	Table of contents						
Designed	030922	FLT	Project title	Motor box +AN9 rear end						
Approved			Comments	Customer NEG Micon A/S						
Revised	031201	INI	Rev.	02	Drawing no.	6012437	Cont. sheet	030	Sheet	001

1	2	3	4	5	6	7	8	9	10	11	12	13
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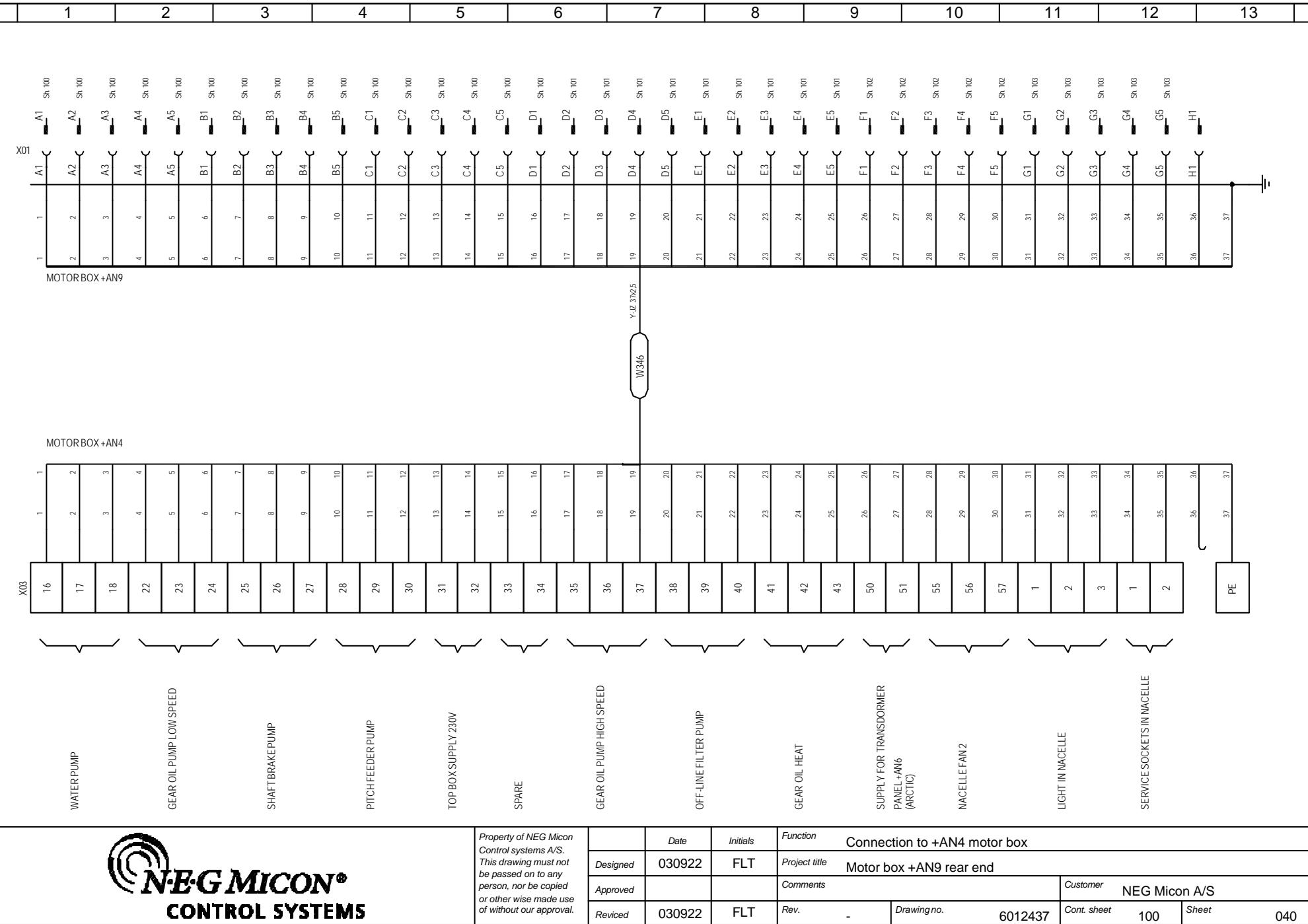


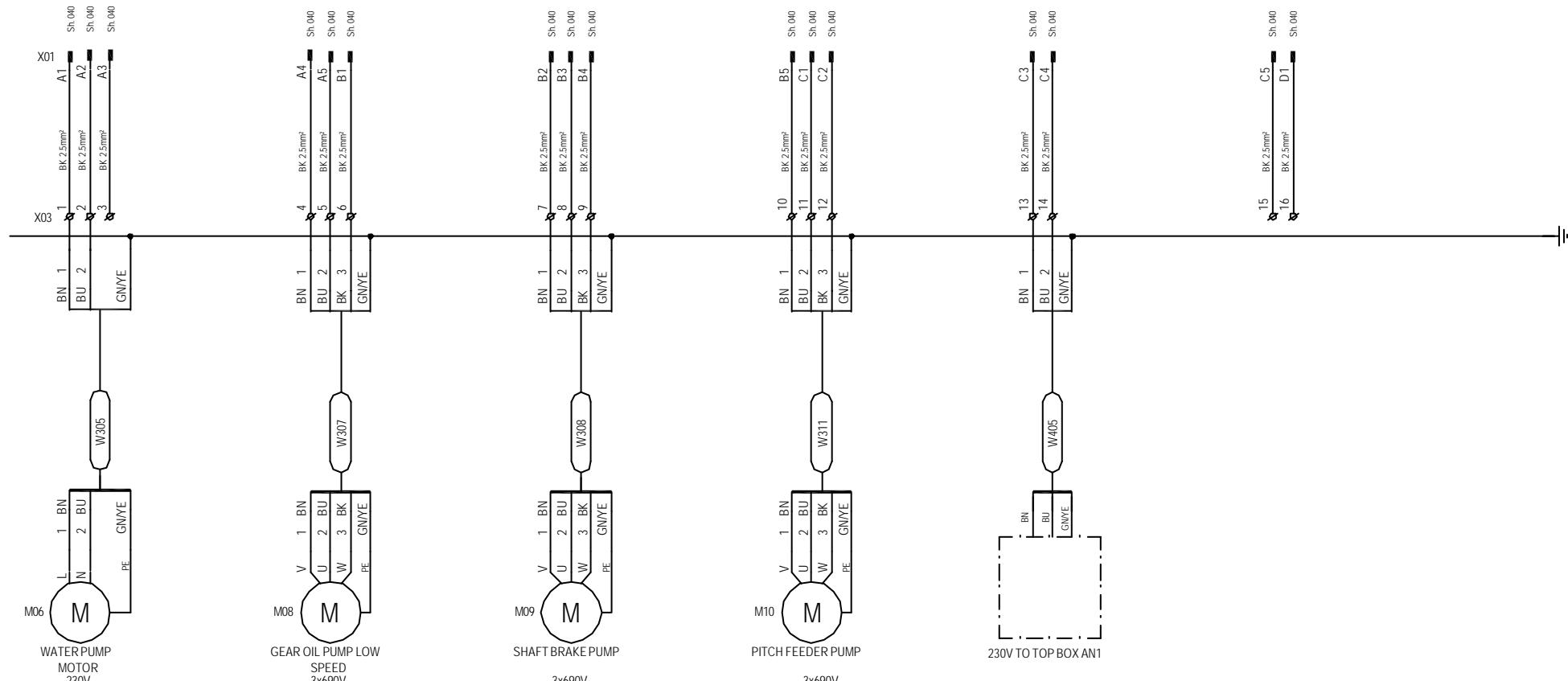
Dimension: 500x200x120 (WxHxD)

	Date	Initials	Function	Panel front		
Designed	030922	FLT	Project title	Motor box +AN9 rear end		
Approved			Comments			
Revised	031201	INI	Rev.	-	Drawing no.	6012437
			Cont. sheet	031	Sheet	030

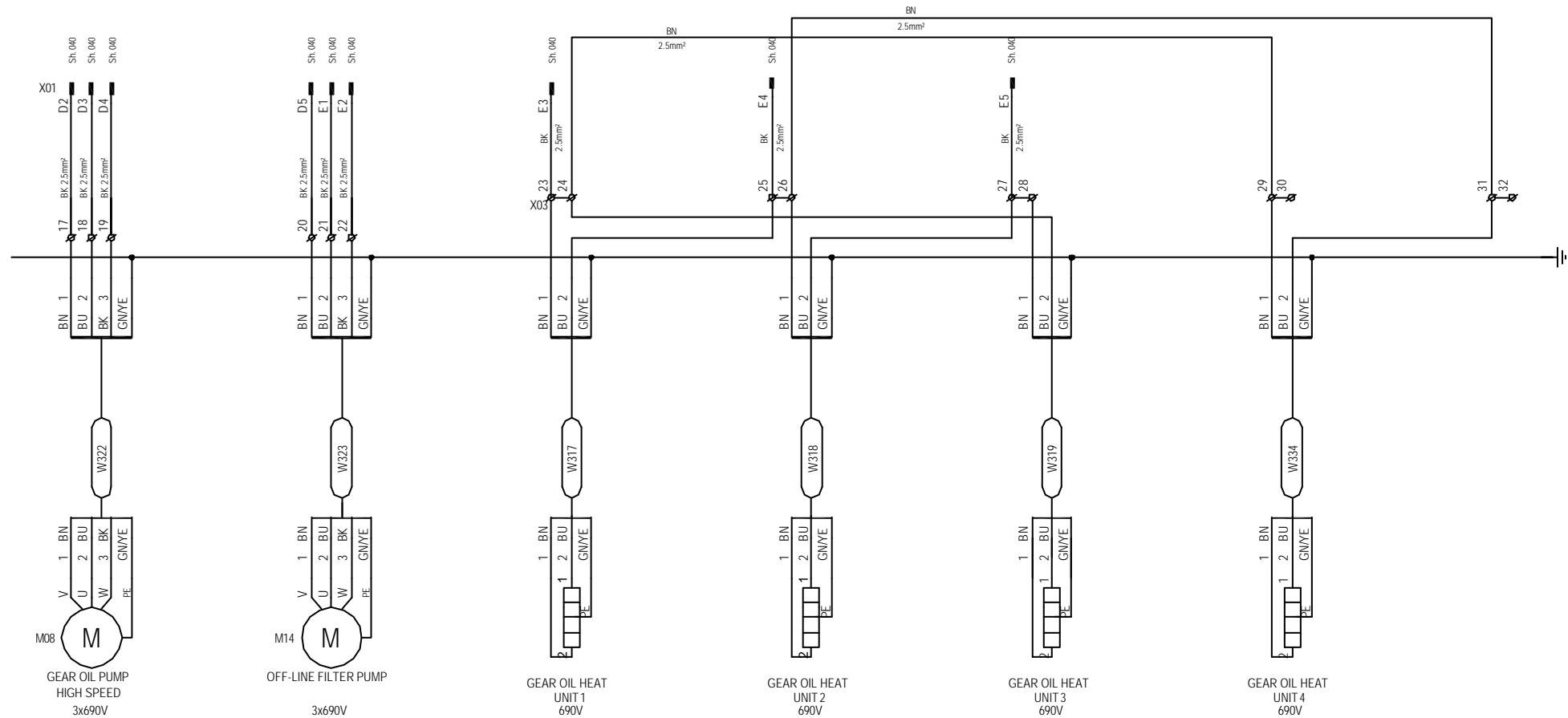


	Date	Initials	Function	Panel outline		
Designed	030922	FLT	Project title	Motor box +AN9 rear end		
Approved			Comments			
Revised	030922	FLT	Rev.	-	Drawing no.	6012437
			Cont. sheet	040	Sheet	031

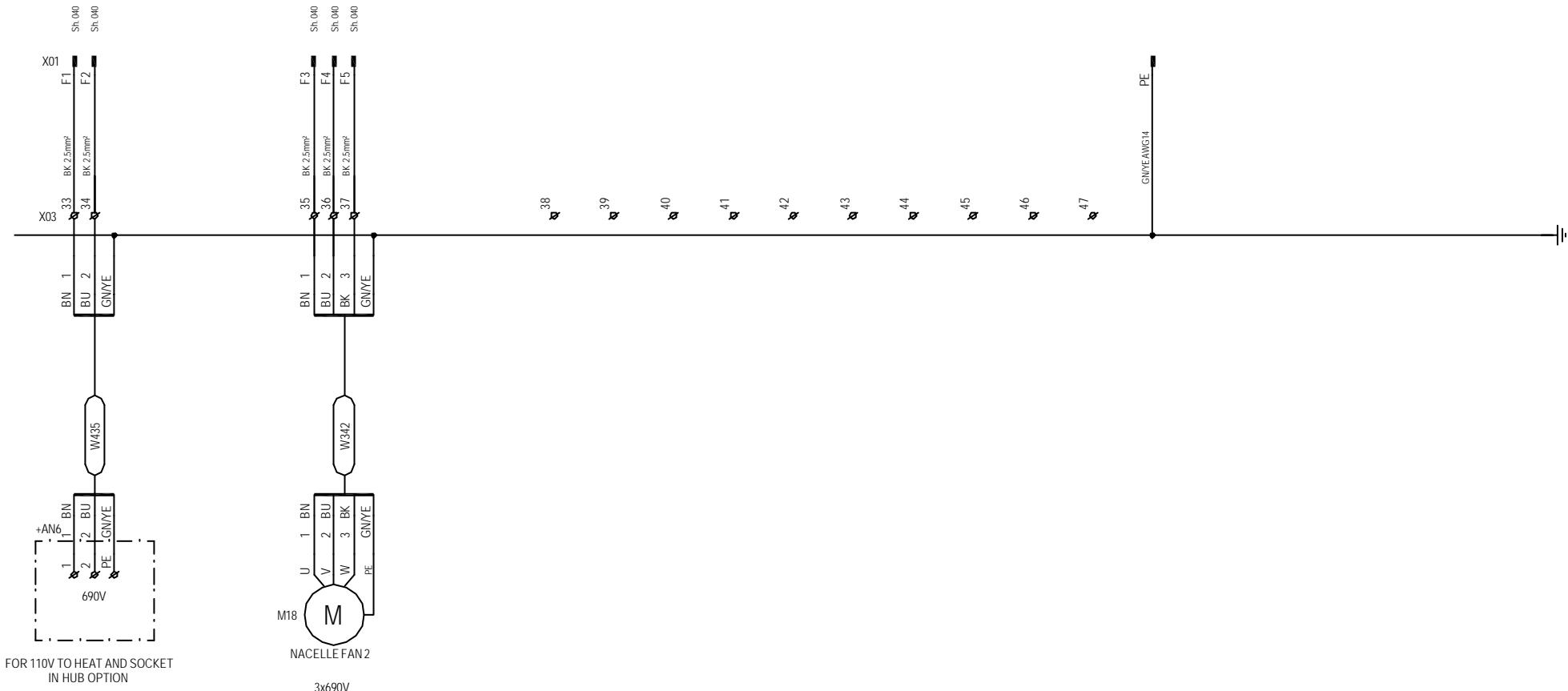




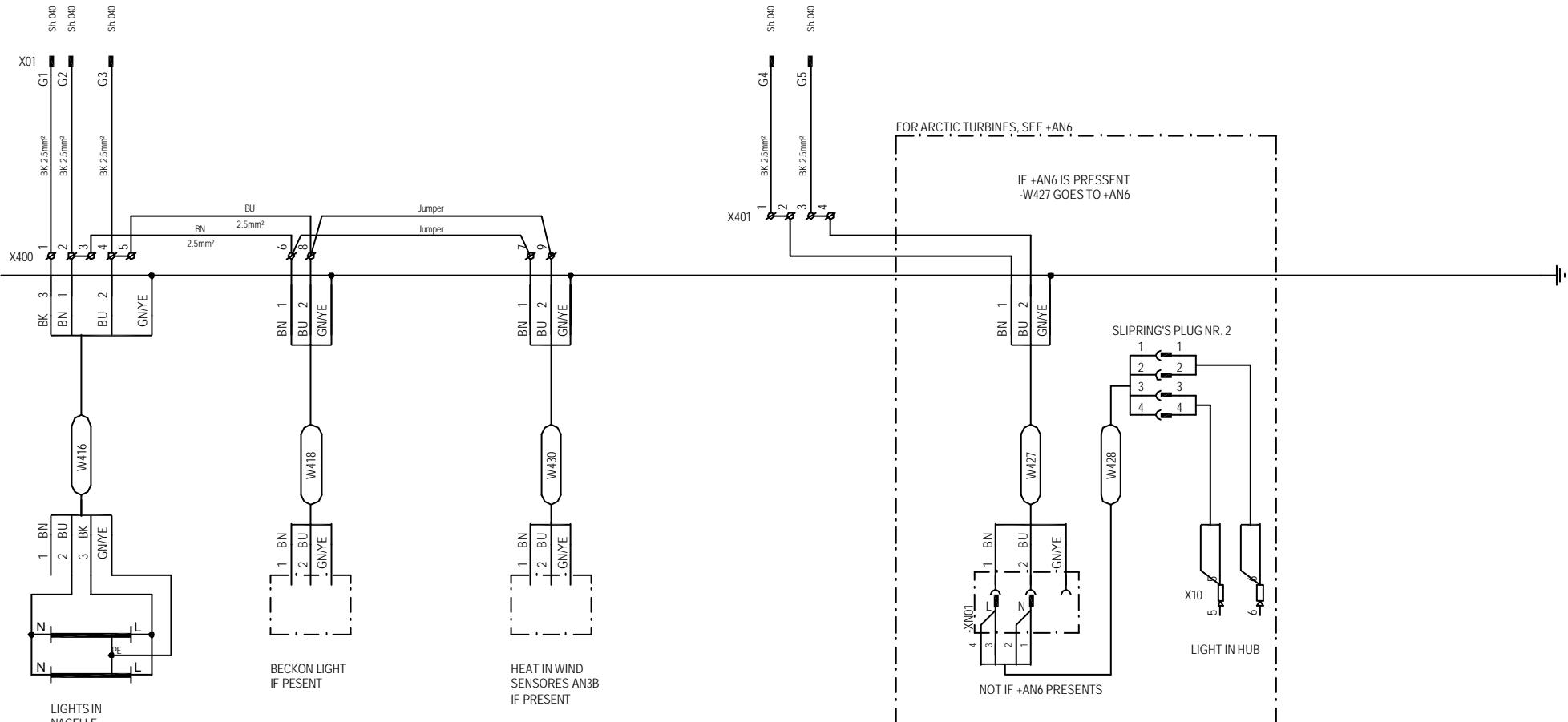
	Date	Initials	Function	External connections		
Designed	030922	FLT	Project title	Motor box +AN9 rear end		
Approved			Comments			
Revised	030922	FLT	Rev. -	Drawing no.	6012437	Customer NEG Micon A/S
			Cont. sheet	101	Sheet	100



	Date	Initials	Function	External connections		
Designed	030922	FLT	Project title	Motor box +AN9 rear end		
Approved			Comments			
Revised	030922	FLT	Rev.	-	Drawing no.	6012437
			Cont. sheet	102	Sheet	101



	Date	Initials	Function	External connections		
Designed	030922	FLT	Project title	Motor box +AN9 rear end		
Approved			Comments			
Revised	030922	FLT	Rev.	-	Drawing no.	6012437
			Cont. sheet	103	Sheet	102



	Date	Initials	Function	External connections		
Designed	030922	FLT	Project title	Motor box +AN9 rear end		
Approved			Comments			
Revised	030922	FLT	Rev.	-	Drawing no.	6012437
			Cont. sheet	-	Sheet	103

10/31/2003 8:27 AM
LST: 21000082
Version: 01

1/1

Material 60096719
Description MOTOR BOX +AN9 REAR END

Obj	Object description	Quantity	Un Sort	Strng	Item	text
60097693	TERMINAL BOX KL 500x200x120mm W. WORK	1	PC	AN9		
60097748	MOUNTING PLATE KL 485x175mm w. WORK	1	PC	AN9		
60010404	WALL BRACKET for KL BOX	4	PC	AN9		
60096685	TERMINAL WAGO 281-901 1-LEV. 0.08-4.0mm ²	47	PC	X03		
60097064	END SECTION 281-328 GREY	7	PC	X03		
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X03		
60091912	END STOP WAGO 249-117 10mm TS35	2	PC	X03		
60094860	MARKER CARD WAGO Nos 1-10 TYPE WMB	1	PC	X03		
60094872	MARKER CARD WAGO Nos 11-20 TYPE WMB	1	PC	X03		
60094874	MARKER CARD WAGO Nos 21-30 TYPE WMB	1	PC	X03		
60094875	MARKER CARD WAGO Nos 31-40 TYPE WMB	1	PC	X03		
60094876	MARKER CARD WAGO Nos 41-50 TYPE WMB	1	PC	X03		
60096685	TERMINAL WAGO 281-901 1-LEV. 0.08-4.0mm ²	9	PC	X400		
60097064	END SECTION 281-328 GREY	1	PC	X400		
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X400		
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X400		
60096685	TERMINAL WAGO 281-901 1-LEV. 0.08-4.0mm ²	4	PC	X401		
60097064	END SECTION 281-328 GREY	2	PC	X401		
60091915	END STOP LABEL HOLDER WAGO 249-119 10mm	1	PC	X401		
60091912	END STOP WAGO 249-117 10mm TS35	1	PC	X401		
60007182	DIN RAIL PP0735H 7x35mm	43	CM	AN9		
60007360	CABLE CONDUIT 21166 40x80mm	43	CM	AN9		
60097070	THERMOLABEL "+AN9"	1	PC	AN9		
60007586	CABLE GLAND BM-EN-13 M25 PA 6	20	PC	AN9		
60007594	LOCKNUT BML-13 M25 PA 6	20	PC	AN9		
60006576	HOUSING C14610F0240001 46P BULKHEAD	1	PC	X01		
60002503	THERMOLABEL "-X01"	1	PC	X01		
60006578	BLIND PLATE 7-MODULE painting ral7032	1	PC	X02		
60006603	RUBBER SEAL N0608000034 f. 7-MOD.HOUSING	1	PC			
60002504	THERMOLABEL "-X02"	1	PC	X02		
60097761	WIRING -X01 in +AN9	1	PC	AN9		
60007201	EARTH BAR 01130 9x6.5x1000mm	0,400	M			
60013412	ANGLE BRACKET 2x10x25mm f. EARTH BUSBAR	3	PC			
60006819	STICKER "JORD" 14mm	2	PC			
60006091	PUSH-IN JUMPER BAR 282-402 2-POLED	11	PC			
60098324	LASER LABEL +AN9	1	PC			

Change Info

Item no. **Item text:**
None Junction Box +AN10

Active revision for production

Drawing number: 6012401

Version	Date	Init./App.	Description of change since last revision
02	11.11.2003	FLT/FLT	Page 001: Updated. Page 030: X01 moved.

LST number: 21000083

Version	Date	Init./App.	Material BOM number: 60096720
01	30.10.2003	FLT/FLT	Description of change since last revision First version

Old revisions for service

Drawing number: 6012401

Version	Date	Init./App.	Description of change since last revision
01	17.09.2003	FLT/FLT	First version

LST number: xxxxxxxx

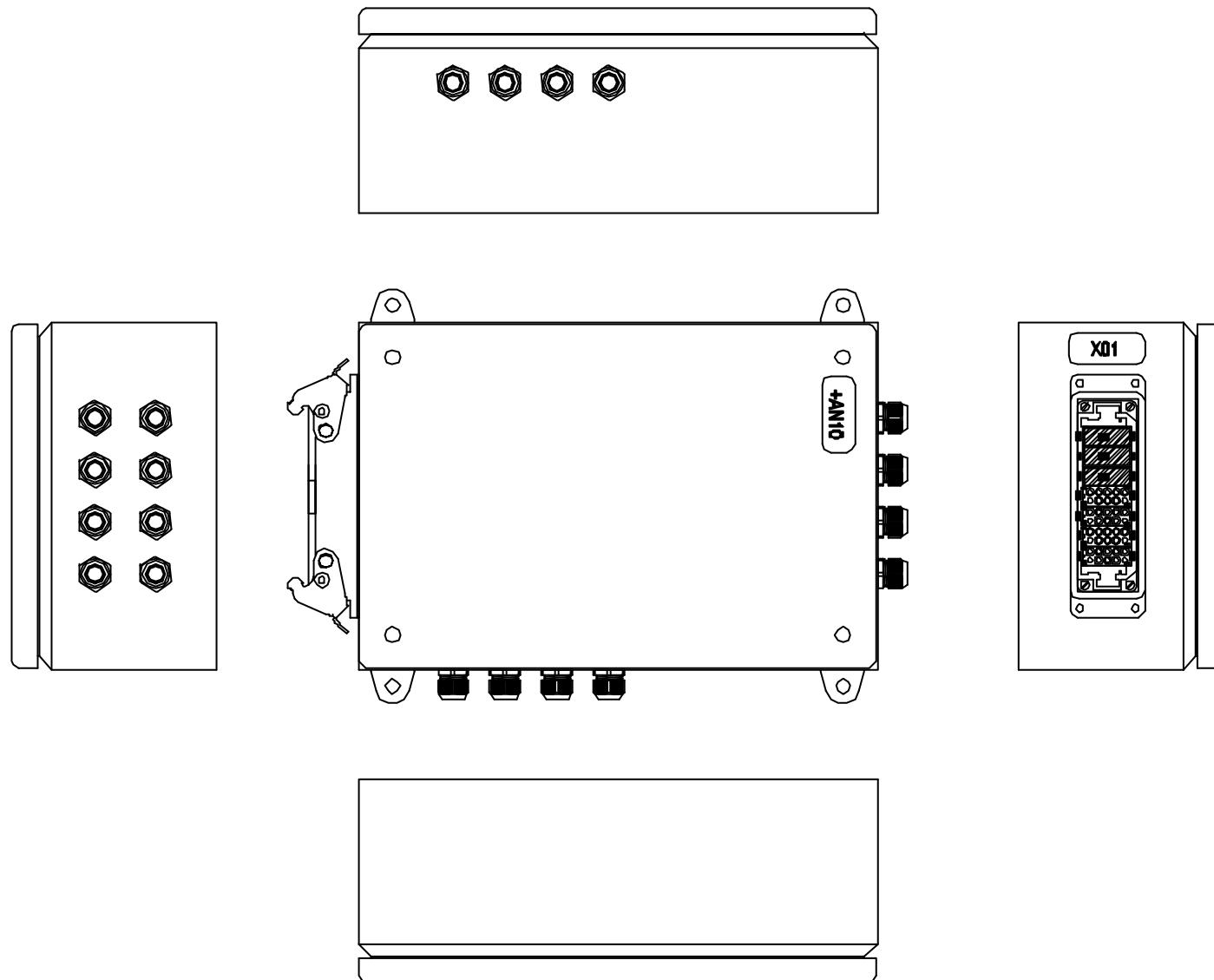
Version	Date	Init./App.	Material BOM number: xxxxxxxx
xx	dd.mm.yyyy	xxx/	Description of change since last revision Write the change



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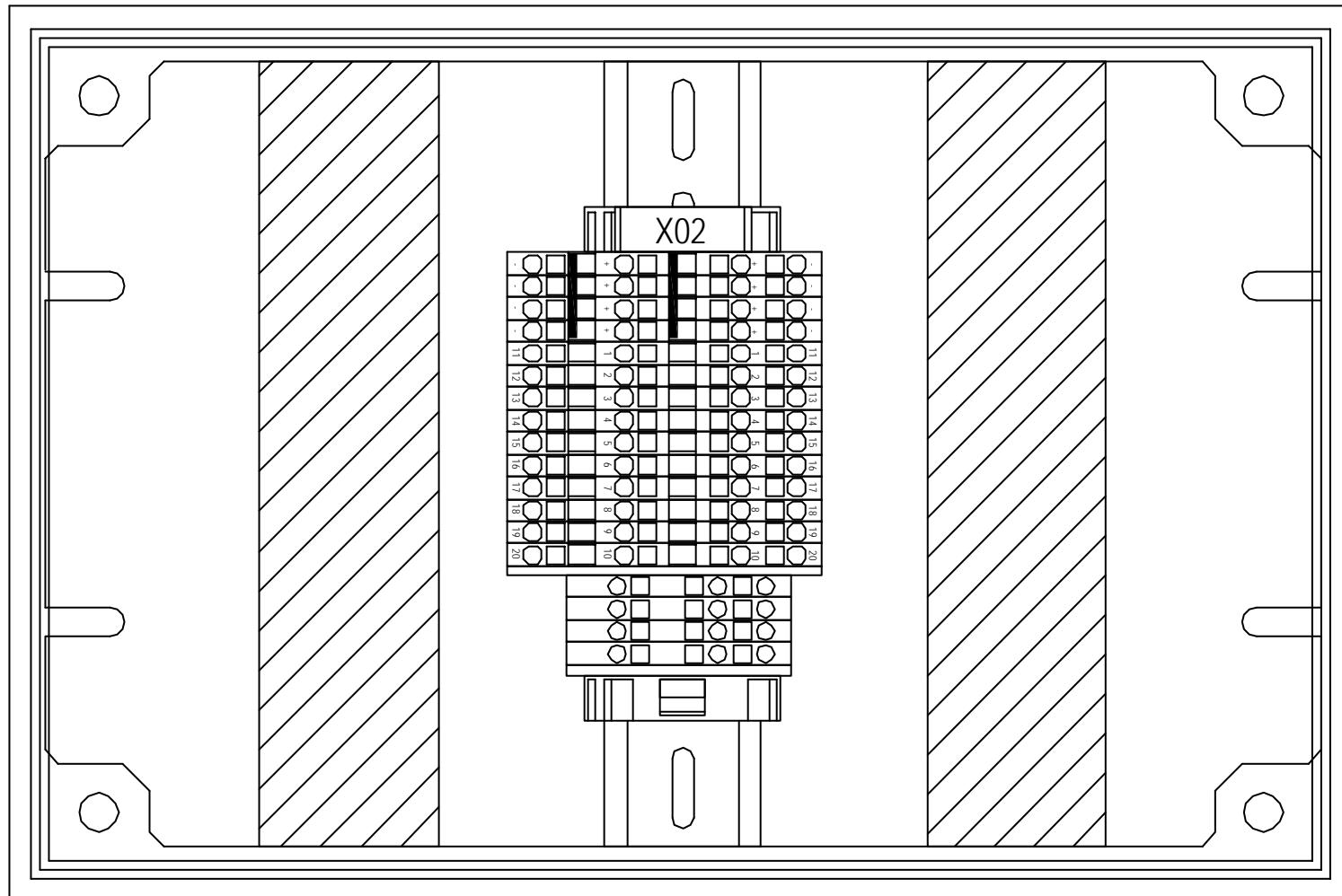
	Date	Initials	Function	Table of contents						
Designed	030917	FLT	Project title	Junction box +AN10						
Approved			Comments			Customer	NEG Micon A/S			
Revised	031111	FLT	Rev.	02	Drawing no.	6012401	Cont. sheet	030	Sheet	001

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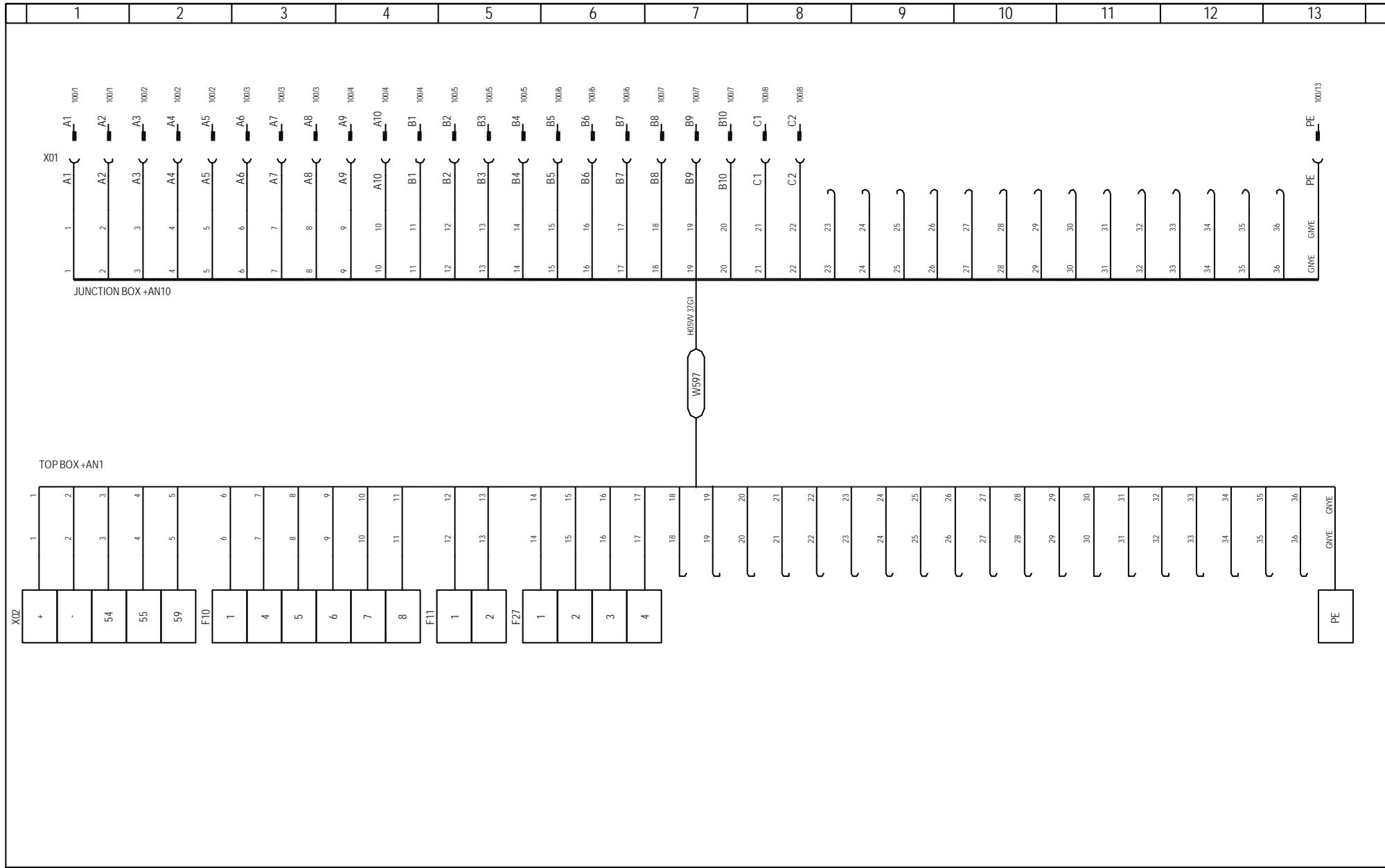


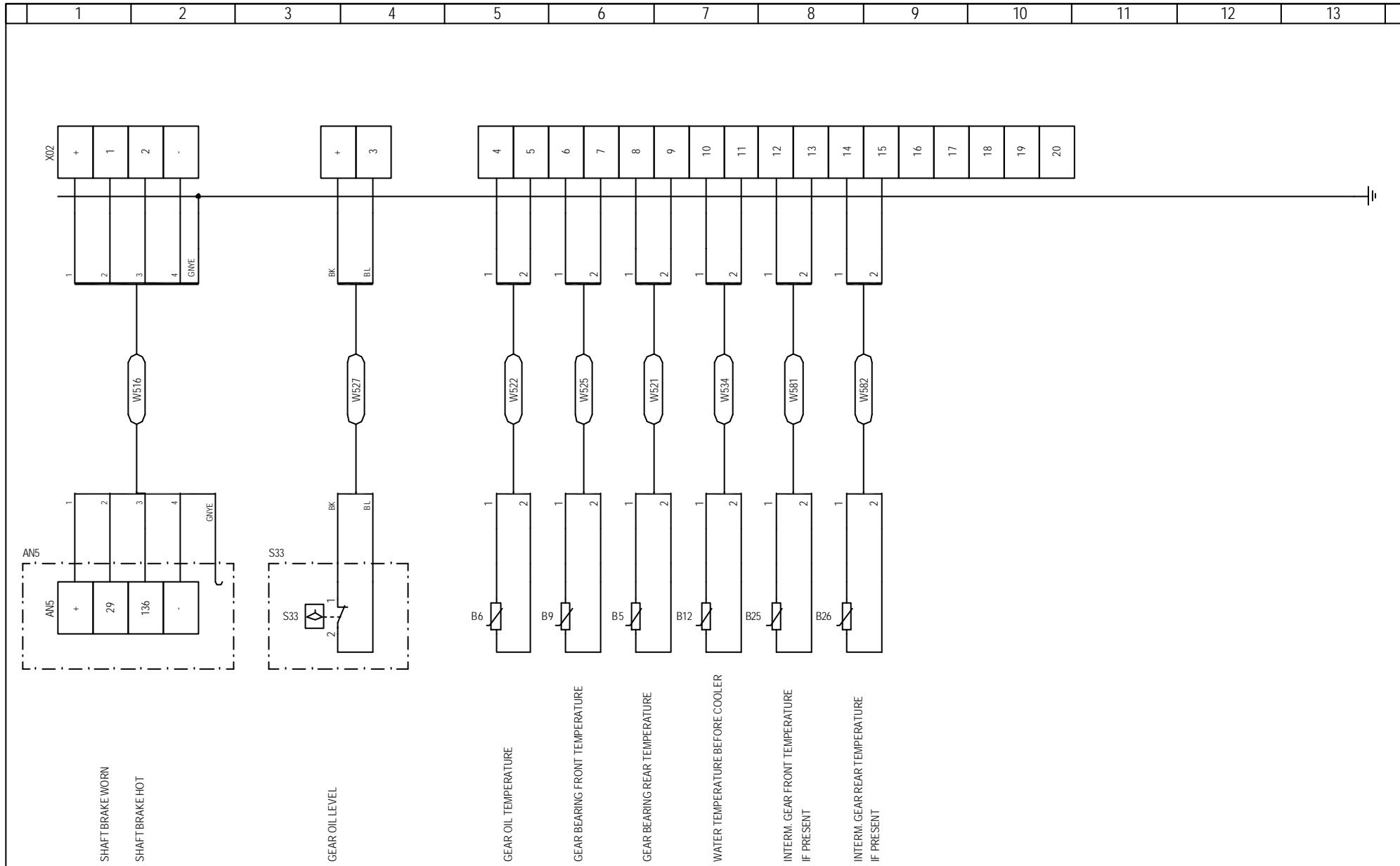
	Date	Initials	Function	Box front layout		
Designed	030917	FLT	Project title	Junction box +AN10		
Approved			Comments		Customer	NEG Micon A/S
Revised	031111	FLT	Rev.	-	Drawing no.	6012401
			Cont. sheet	031	Sheet	030

	1	2	3	4	5	6	7	8	9	10	11	12	13
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	Date	Initials	Function	Box outline
Designed	030917	FLT	Project title	Junction box +AN10
Approved			Comments	Customer NEG Micon A/S
Revised	030917	FLT	Rev. -	Drawing no. 6012401 Cont. sheet 040 Sheet 031





10:37 11-11-03

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	Date	Initials	Function	External connections				
Designed	030917	FLT	Project title	Junction box +AN10				
Approved			Comments					
Revised	030917	FLT	Rev.	-	Drawing no.	6012401	Cont. sheet	100
							Sheet	041

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X01 A1 040/1	RD 0.75	BK 0.75	WH 0.75	PE 040/13								
X02 A2 040/1	- BK	A4 040/2	A5 040/2	A6 040/3	A7 040/3	A8 040/3	A9 040/4	B1 040/4	B2 040/5	B3 040/5	B4 040/5	PE 040/13
+ A1 040/1	RD 0.75	BK 0.75	WH 0.75	PE 040/13								
- A2 040/1	- BK	A4 040/2	A5 040/2	A6 040/3	A7 040/3	A8 040/3	A9 040/4	B1 040/4	B2 040/5	B3 040/5	B4 040/5	PE 040/13
1 A3 040/2	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
2 A4 040/2	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
3 A5 040/2	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
4 A6 040/3	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
5 A7 040/3	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
6 A8 040/3	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
7 A9 040/4	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
8 A10 040/4	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
9 B1 040/4	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
10 B2 040/5	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
11 B3 040/5	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
12 B4 040/5	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
13 B5 040/6	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
14 B6 040/6	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
15 B7 040/6	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
16 B8 040/7	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
17 B9 040/7	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
18 B10 040/7	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
19 C1 040/8	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13
20 C2 040/8	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	0.75 WH	PE 040/13

10/31/2003 8:29 AM

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LST: 21000083

Version: 01

Material 60096720
Description JUNCTION BOX +AN10

Obj	Object description	Quantity	Un	SortStrng	Item	text
60097532	TERMINAL BOX KL 300x200x120mm w. WORK	1		PC		
60097202	MOUNTING PLATE KL 285x175mm W. WORK	1		PC		
60010404	WALL BRACKET for KL BOX	4		PC		
60006071	TERMINAL WAGO 870-501 2-LEV.0,08-2,5mm ²	14		PC X02		
60006077	TERMINAL WAGO GROUND 870-687 0.08-2.5mm ²	4		PC X02		
60006080	END SECTION 870-933 1-LEVEL GREY	1		PC X02		
60006083	END SECTION 870-518 2-LEVEL GREY	1		PC X02		
60014286	MARKER CARD WAGO Nos 1-10 TYPE 870-	1,000		SH X02		
60014287	MARKER CARD WAGO Nos 11-20 TYPE 870-	1,000		SH X02		
60014301	MARKER CARD WAGO +++++ TYPE 870-	1,000		SH X02		
60014302	MARKER CARD WAGO TYPE 870-	1,000		SH X02		
60091915	END STOP LABEL HO LDER WAGO 249-119 10mm	1		PC X02		
60091912	END STOP WAGO 249-117 10mm TS35	2		PC X02		
60007182	DIN RAIL PP0735H 7x35mm	17,500		CM		
60007357	CABLE CONDUIT 21157 80x40mm	17,500		CM		
60007357	CABLE CONDUIT 21157 80x40mm	17,500		CM		
60006088	PUSH-IN JUMPER BAR 870-404 4-POLED	2		PC		
60007534	HOSE CONNECTOR NH 9-15/13	12		PC		
60007553	LOCKNUT BLN-12 PG9 PA 6	12		PC		
60097071	THERMOLABEL "+AN10"	1		PC		
60002503	THERMOLABEL "-X01"	1		PC		
60006576	HOUSING C14610F0240001 46P BULKHEAD	1		PC X01		
60097769	WIRING -X01 in +AN10	1		PC		
60098326	LASER LABEL +AN10	1		PC		

Change Info

<u>Item no.</u>	<u>Item text:</u>
None	Table of Tightening Torques of Electrical Components in Panels

Active revision for production

Table of Tightening Torques: WKI 1000827

Revision	Date	Init./App.	Description of change since last revision
01	020821	INI /	First version in the new SAP no. system.

Part list number: None

Revision	Valid from	Init./App.	Description of change since last revision
xx	xx.xx.xxxx	xxx	Write the change

Old revisions for service

Table of Tightening Torques: xxxxxxx

Revision	Date	Init./App.	Description of change since last revision
xx	yymmdd	xxx	Write the change

Part list number: xxxxxxxxx

Revision	Valid from	Init./App.	Description of change since last revision
xx	xx.xx.xxxx	xxx	Write the change

Earlier Drawings and Part Lists no Longer Active for Serial Production

Change Info: 4002134

Document: 1000827_000 Revision: 01	Date: 020821						Init: RPJ
Tightening Torque							
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.	
		Interval	Prefered				
		min	max				
	[mm]	[Nm]		[mm]			
Standard Bolts							
Standard bolt and nut	3 mm		0,128				
Standard bolt and nut	4 mm		0,290				
Standard bolt and nut	5 mm		0,575	8			
Standard bolt and nut	6 mm		9,9	10	80031XX	Steel 8,8	
Standard bolt and nut	8 mm		24	12 / 13	80032XX	Steel 8,8	
Standard bolt and nut	10 mm		48	16 / 17	80033XX	Steel 8,8	
Standard bolt and nut	12 mm		70	18 / 19	80034XX	Steel 8,8	
Standard bolt and nut	14 mm		75	22	80035XX	Steel 8,8	
Standard bolt and nut	16 mm		90	24	80036XX	Steel 8,8	
Standard bolt and nut							
CAPACITORS							
Capacitor 6,8kVAr 3x960V Vishay			2		0881000	50511/ PhMKP960.2.06.8	
Capacitor 9,6kVAr 3x960V Vishay			2		0881005	50510/ PhMKP960.2.09.6	
Capacitor 27,2kVAr 3x960V Vishay			10		0881082	50509/ PhMKDg 960.2.27.22	
DIODES							
Diode STPS12045TV 2x60A 45V	4mm	1,5	1,3		1010160	567-449	
Circuit Breakers							
ABB Circuit Breaker E2N	12 mm		70	18 / 19	5841025	25900314	
Fixing on mounting plate	10 mm		48	16 / 17			
ABB Circuit Breaker S6H800 PR212 complete					5840054	25700308	
- Relay screws to breaker			9				
- Relay screws to busbars			30				
-Cable terminal to breaker			9				
-Cable terminal to cable 70-185			43				
ABB Circuit Breaker S4H	8 mm		9		5840012	25700245	
Fixing on mounting plate			2				
Siemens Circuit Breakers S00		0,8	1,2	1	PZ2	4650XXX	3RV1X 11

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Tightening Torque							
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.	
		Interval	Prefered				
		min	max				
	[mm]	[Nm]		[mm]			
Siemens Circuit Breakers S0		2	2,5	2,3	PZ2	4650XXX	3RV1X 2X
Siemens Circuit Breakers S2		3	4,5	3,8	PZ2	4650XXX	3RV1X 3X
Siemens Circuit Breakers S3		4	6	5	Hexagon	4650XXX	3RV1X 4X
Siemens Transverse Auxiliary Switch 1NO + 1NC f. S00, S0, S2, S3		0,8	1,2	1	PZ2	4650702	3RV 19 01-E1
Siemens Transverse Auxiliary Switch 1changeover contact f. S00, S0, S2, S3		0,8	1,2	1	PZ2	4650701	3RV 19 01-G1
Siemens Lateran Auxiliary Switch 1NO + 1NC f. S00, S0, S2, S3		0,8	1,2	1	PZ2	4650711	3RV 19 01-1A
Siemens Lateral Auxiliary Switch 2NO f. S00, S0, S2, S3		0,8	1,2	1	PZ2	4650712	3RV 19 01-1B
Siemens Lateral Auxiliary Switch 2NC f. S00, S0, S2, S3		0,8	1,2	1	PZ2	4650713	3RV 19 01-1C
Miniature Circuit Breakers							
Type ABB S230 6-40A 1-3 Pol				2			
Type ABB S260 0,5-63A 1-4 Pol				2			
Type ABB S270 0,5-63A 1-4 Pol				2			
Type ABB S280 0,2-63A 1-4 Pol				2			
Type ABB S290 80,100,125A 1-4 Pol				4,5			
Siemens MCB 5SX2.., 5SX4.., 5SX5.. 5SX7...0,5-63A	Top terminal	2,5	2	PZ2	5500030-5501300	5SX2.., 5SX4.., 5SX5.. 5SX7...	
Siemens MCB 5SX2.., 5SX4.., 5SX5.. 5SX7...0,5-63A	Bottom terminal	3	2	PZ2	5500030-5501300	5SX2.., 5SX4.., 5SX5.. 5SX7...	
Siemens MCB 63A 4pol C 5SP4463-7		3	3,5	3,2		5504430	5SP4463-7
Siemens MCB 16A 4pol C 5SY6616-7		2,5	3	2,7		5503550	5SY6616-7
Siemens Auxiliary Contact 1NO + 1NC f. 5SX2/4/5				0,5	PZ2	5509010	5SX9100
Siemens Circuit Breaker Auxiliary Contact 1NO + 1NC				0,5	PZ2	5509XXX	5SX9 260
Miniature Circuit Breakers with residual current release							
Siemens Residual Current Circuit Breakers 6A C 2 pol 0,03A		2,5	3	2,8	PZ2	5503380	5SU3 767-0KW06
Siemens Residual Current Circuit Breakers 10A C 2 pol 0,03A		2,5	3	2,8	PZ2	5503382	5SU3 767-0KW10
Siemens Residual Current Circuit Breakers 13A C 2 pol 0,03A		2,5	3	2,8	PZ2	5503384	5SU3 767-0KW13
Siemens Residual Current Circuit Breakers 16A C 2 pol 0,03A		2,5	3	2,8	PZ2	5503386	5SU3 767-0KW16
Residual Current Circuit Breakers							
Siemens Residual Current Circuit Breakers 16A 2 pol 30mA		2,5	3	2,8	PZ2	5850XXX	5SM1 111-6

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Tightening Torque							
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.	
		Interval	Prefered				
		min	max				
	[mm]	[Nm]		[mm]			
Siemens Residual Current Circuit Breakers 25A 2 pol 30mA		2,5	3	2,8	PZ2	5850XXX	5SM1 312-6
Siemens Residual Current Circuit Breakers 25A 4 pol 30mA		2,5	3	2,8	PZ2	5850XXX	5SM1 342-6
Siemens Residual Current Circuit Breakers 40A 4 pol 30mA		2,5	3	2,8	PZ2	5850220	5SM1 344-6CA
Siemens Residual Current Circuit Breakers 63A 4 pol 30mA		2,5	3	2,8	PZ2	5850XXX	5SM1 346-6CA
Siemens Residual Current Module 0,03A for MCB		2,5	3	2,8	PZ2	5503540	5SM2342-6
Siemens Auxiliary Contact 1NO + 1NC 5SX9 260				0,5	PZ2	5509XXX	5SX9 260
Siemens Auxiliary Contact 1NO + 1NC 5SW3000		0,6	0,8	0,7	PZ2	5850217	5SW3000
Load break switches and Fuse material							
ABB Fuse Switch OESA250 D3-52 NH1	10 mm		22	16 / 17	5830200	34003500	
ABB Aux contact 1no/1nc f. OESA_PL 200-800A			0,8		5830071	OZKK 1	
ABB Fuse Switch OS 125 D04 N2 125A	8 mm		8	12 / 13	5830015	340020070	
ABB Load break switch OT16E			0,8				
ABB Load break switch OT25E			0,8		5870010	OT25ET3	
ABB Load break switch OT32E			0,8				
ABB Load break switch OT45E			2				
ABB Load break switch OT45M			2		5810002	OT45 M4	
ABB Load break switch OT63E			2		5870018	OT63ET4	
ABB Load break switch OT80E			2,5				
ABB Load break switch OT100E			6				
ABB Load break switch OT125E			6		5810003	OT125ET3	
ABB Load break switch OT160E			6		5810005	OT160ET4	
ABB aux. Switch for OT16 - 125			0,8		5810305	0A1 GA10 1	
ABB aux. Switch for OT125 - 160			0,8		5810310	OBEA 10	
ABB Load Switch OETL400 D1	10 mm		17	16 / 17	5810026	6417019 13888 6	

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Tightening Torque							
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.	
		Interval	Prefered				
		min	max				
	[mm]	[Nm]		[mm]			
ABB Fuse holder baseline NH00		30	44	44	5401030	OFAX 00 S1L	
WOHNER Fuse Switch for Mounting on Busbar NH00 3pol	8 mm	12	14	13	12 / 13	5405022	33198
Contactors and relays							
ABB Contactor EH1200 Contactor	10 mm			48	16 / 17	4400XXX	364 63 300
ABB Contactor EH1200 Coil	3,5 mm	0,8	1,2	1	PZ2		
ABB Contactor EH1200 Earth Connection	10 mm			18	Hexagon		
ABB Contactor EH1200 Fixing on Mounting plate	6 mm			3	PZ2		
ABB Contactor EH800 Contactor	10 mm			48	16 / 17	44000XX	364 59 300
ABB Contactor EH800 Coil	3,5 mm	0,8	1,2	1	PZ2		
ABB Contactor EH800 Earth Connection	10 mm			18	Hexagon		
ABB Contactor EH800 Fixing on Mounting plate	6 mm			3	PZ2		
ABB Contactor EH700 Contactor	10 mm			48	16 / 17	44000XX	364 59 110
ABB Contactor EH700 Coil	3,5 mm	0,8	1,2	1	PZ2		
ABB Contactor EH700 Earth Connection	10 mm			18	Hexagon		
ABB Contactor EH700 Fixing on Mounting plate	6 mm			3	PZ2		
ABB Contactor EH550 Contactor	10 mm			48	16 / 17	44000XX	364 57 100
ABB Contactor EH550 Coil	3,5 mm	0,8	1,2	1	PZ2		
ABB Contactor EH550 Earth Connection	10 mm			18	Hexagon		
ABB Contactor EH550 Fixing on Mounting plate	6 mm			3	PZ2		
ABB Contactor EH370 Contactor	10 mm			48	16 / 17	44000XX	364 56 850
ABB Contactor EH370 Coil	3,5 mm	0,8	1,2	1	PZ2		
ABB Contactor EH370 Earth Connection	10 mm			18	Hexagon Socket		
ABB Contactor EH370 Fixing on Mounting plate	6 mm			3	PZ2		
ABB Contactor EH300 Contactor	10 mm			48	16 / 17	44000XX	364 56 655
ABB Contactor EH300 Coil	3,5 mm	0,8	1,2	1	PZ2		
ABB Contactor EH300 Fix on Mounting plate	6 mm			3	PZ2		

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Tightening Torque						
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.
		Interval	Prefered			
		min	max			
	[mm]	[Nm]		[mm]		
ABB Contactor EH260 Contactor	10 mm		48	16 / 17	44000XX	364 55 265
ABB Contactor EH260 Coil	3,5 mm	0,8	1,2	1	PZ2	
ABB Contactor EH260 Fix on Mounting plate	6 mm			3	PZ2	
ABB Contactor EH210 Contactor	10 mm		48	16 / 17	44000XX	364 54 655
ABB Contactor EH210 Coil	3,5 mm	0,8	1,2	1	PZ2	
ABB Contactor EH210 Fix on Mounting plate	6 mm			3	PZ2	
ABB Contactor EH160 Contactor	10 mm		48	16 / 17	44000XX	364 52 810
ABB Contactor EH160 Coil	3,5 mm	0,8	1,2	1	PZ2	
ABB Contactor EH160 Fix on Mounting plate	6 mm			3	PZ2	
ABB Contactor EH145 Contactor	6 mm		9,9	10	44000XX	EH 145 AR 400-415/60
ABB Contactor EH145 Coil	3,5 mm	0,8	1,2	1	PZ2	
ABB Contactor EH145 Fix on Mounting plate	5 mm			3	PZ2	
ABB aux contact for EH			1,2	1	4400501	CAL16-11A
ABB contactor UA75 contactor			6,5	6	4406012	UA75-30-00-R
ABB aux contact for A9-A110			1,2	1	4406210	CA5-10
Siemens Contactor S00 Coil	3 mm	0,8	1,2	1	4412XXX	3RT1X 1X
Siemens Contactor S00 Contactor	3 mm	0,8	1,2	1	4412XXX	3RT1X 1X
Siemens Contactor S0 Coil	3 mm	0,8	1,2	1	4412XXX	3RT10 2X
Siemens Contactor S0 Contactor	4 mm	2	2,5	2,3	PZ2	4412XXX
Siemens Contactor S2 Coil	3 mm	0,8	1,2	1	4412XXX	3RT10 3X
Siemens Contactor S2 Contactor	6 mm	3	4,5	3,8	PZ2	4412XXX
Siemens Contactor S3 Coil	3 mm	0,8	1,2	1	4412XXX	3RT10 4X
Siemens contactor S3 Contactor	6 mm	4	6	5	Hexagon	4412XXX

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Tightening Torque							
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.	
		Interval	Prefered				
		min	max				
	[mm]	[Nm]		[mm]			
Siemens Aux. Contact for contactors 3RH1921-1CA01		0,8	1,2	1	4412958	3RH1921-1CA01	
Siemens Aux. Contact for contactors 3RH1921-1FA22		0,8	1,2	1	4412959	3RH1921-1FA22	
Siemens Emergency-stop Relay 3TK2806-0BB4	3,5 mm	0,8	1,2	1	4890030	3TK2806-OBB4	
Schrack Relay socket 2POL 10A RT78625				0,8	4501130	RT78625	
Lightning protection							
Dehnguardr 440FM				3	PZ2	0430010	900 627
Dehnguard 440FM Auxiliary contact		0,5	0,8	0,7			
Dehnguard 275FM				3	PZ2	0430020	900 620
Dehnguard 275FM Auxiliary contact		0,5	0,8	0,7			
Dehnguard 75FM				3	PZ2	0430005	900 624
Dehnguard 75FM Auxiliary contact		0,5	0,8	0,7			
Dehnguard DG TNC 600 / 1000 FM/S				5	PZ2	0431210	900 545S
Dehngap B N-PE SPD Uc 1000V				7	PZ2	0431130	900130S
Dehngap T- C SPD N-PE Uc 255V				5	PZ2	0431133	900133
Dehn terminal DK				5	PZ2	0431699	900699
PHOENIX CONTACT Overvoltage protection RS485 MT RS485	M3		0,8		0440050	2762265	
Pushbuttons and lamps							
ABB PDA aux.contact 1NC/1NC				0,9	5910010...21	SK 616 001-A....2-B	
ABB PDA Lamp holder				0,9	5910100	SK 616 003-A	
Terminals							
Entrelec Terminal M2,5/5 2,5mm2		0,4	0,6	0,5	65001XX	24517080	
Entrelec Terminal M4/6 4mm2		0,5	0,8	0,7	65002XX	24519250	
Entrelec Terminal M6/8 6mm2		0,8	1	0,9	65003XX	24519300	
Entrelec Terminal M10/10 10mm2		1,2	1,4	1,3	65004XX	24523800	
Entrelec Terminal M16/12 16mm2		1,2	1,4	1,3	65005XX	24519550	

Document: 1000827_000 Revision: 01	Date: 020821					Init: RPJ
Tightening Torque						
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.
		Interval	Prefered			
		min	max			
	[mm]	[Nm]		[mm]		
Entrelec Terminal M35/16 35mm2		2,8	3	2,9	65007XX	24519400
Entrelec Terminal M70/22 70mm2		6	7	6,5	65008XX	24521750
Entrelec fuse terminal M10/16 10mm2		0,8	1	0,9	6500207	24522300
Entrelec fuse terminal M4/8 4mm2		0,5	0,8	0,7	6500205	24520000
ERICO/Entrelec Distribution Terminal BRU 250A Connection 35 - 120mm2 (1 piece)				19	Hexagon	6501900
BRU 250 Outlet X2 6 - 25mm2 (2 piece)				3,5		
BRU 250 Outlet X5 2,5 - 16mm2 (5 piece)				2		
BRU 250 Outlet X4 2,5 - 10mm2 (4 piece)				2		
ENSTO Terminal KE58 (2x150 - 1x300 mm2) ALU/CU Terminal	8 mm		35	Hexagon	6530200	KE58
ENSTO Terminal KE58 Mounting on Busbar	12 mm		70	18 / 19		
ENSTO Terminal KE37 (300 mm2) ALU Terminal	8 mm		35	Hexagon	6530150	KE37
ENSTO Terminal KE37 Mounting on Busbar	12 mm		70	18 / 19		
ENSTO Terminal KE40.4 (240 mm2) ALU	8 mm	30	40	35	Hexagon	6530110
ENSTO Terminal KE40.4 Mounting on Busbar	12 mm			70	18 / 19	
Phoenex UKK 3 MSTB 5,08		0,5	0,6	0,55	6520020	2770888
VAN ALFEN Terminal Cu 25t/m 95mm2 Terminal <50mm2				25	6550010	2645.095-M10-DA
VAN ALFEN Terminal Cu 25t/m 95mm2 Terminal >50mm2				40		
VAN ALFEN Terminal Cu 25t/m 95mm2 Mounting on Busbar				45		
VAN ALFEN Terminal Cu 35t/m 120mm2 Terminal				40	6550050	2645.150/M10S
VAN ALFEN Terminal Cu 35t/m 120mm2 Mounting on Busbar				45		
VAN ALFEN Terminal Cu 70t/m 185mm2 Terminal				40	6550090	2645.185/M12
VAN ALFEN Terminal Cu 70t/m 182mm2 Mounting on Busbar				30		
Wöhner groundbar 01 130			3		7100100	

Document: 1000827_000 Revision: 01	Date: 020821						Init: RPJ
Tightening Torque							
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.	
		Interval	Prefered				
		min	max				
	[mm]	[Nm]		[mm]			
Current Transformer							
GARRE Current Transformer 2000/1 K100K			2		7050194	K100K 100-4813-2BK-1kV	
GARRE Current Transformer 250/1 G33			2		7050065	G33 024-3513-4A	
Transformer							
KOHSEL Voltage Transformer EI66/25		0,5	0,8	0,7		7001062	EI66/25-6835
KOHSEL Voltage Transformer EI66/25 230VAC		0,5	0,8	0,7		7001005	EI66/25-6852
DanTrafo Trafo UI180/78 400/690V+/-10%/230V		1,2	4	3		7001853	DT 15093-1
Busbar systems							
Siemens busbar holder 8US1923-2AA00		4	4	4		7111010	8US1923-2AA00
Erico Insulator ISO 15M4	4 mm			2,66			
Erico Insulator ISO 20M4	4 mm			2,66			
Erico Insulator ISO 20M6	6 mm			9,1		7121000	
Erico Insulator ISO 25M5	5 mm			5,2			
Erico Insulator ISO 25M6	6 mm			9,1		7121005	
Erico Insulator ISO 30M6	6 mm			9,1		7121010	
Erico Insulator ISO 30M8	8 mm			22		7121040	
Erico Insulator ISO 35M6L	6 mm			9,1		7121020	
Erico Insulator ISO 35M8	8 mm			22			
Erico Insulator ISO 35M10	10 mm			44			
Erico Insulator ISO 40M6	6 mm			9,1		7121030	
Erico Insulator ISO 40M8	8 mm			22		7121050	
Erico Insulator ISO 40M10	10 mm			44		7121070	
Erico Insulator ISO 45M6	6 mm			9,1			
Erico Insulator ISO 45M8	8 mm			22			
Erico Insulator ISO 45M8L	8 mm			22			
Erico Insulator ISO 45M10	10 mm			44			
Erico Insulator ISO 50M6	6 mm			9,1			
Erico Insulator ISO 50M8	8 mm			22		7121060	
Erico Insulator ISO 50M10	10 mm			44		7121075	
Erico Insulator ISO 60M8	8 mm			22			

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Tightening Torque						
Component		Standard bolt / nut	Torque		Tools	NMCS item no.
			Interval	Prefered		
			min	max		
		[mm]	[Nm]		[mm]	
Erico Insulator ISO 60M10		10 mm	44		7121080	
Erico Insulator ISO 70M12		12 mm	76			
Erico Insulator ISO 70M16		16 mm	189			
Erico Insulator ISO 75M12		12 mm	76		7121085	
Erico Insulator ISO 75M16		16 mm	189			
Erico Insulator ISO 80M12		12 mm	76		7121090	
Erico Insulator ISO 80M16		16 mm	189			
Erico Insulator ISO 100M12		12 mm	76		7121095	
Erico Insulator ISO 100M16		16 mm	189			
Power supply units						
Omron power supply 10A 24Vdc			0,74		8990166	S82K-24024-10A
Omron power supply 0,6A 24Vdc			0,74		8990150	S82K-01524
Omron power Supply 1,2A 12Vdc			0,74		8990160	S82K-01512
Powernet 115-230/24V 5A ADC5183		3 mm	0,5	0,6	0,5	0580055
Powernet 115-230/24V 10A ADC5483		3 mm	0,5	0,6	0,5	0580065
Ventilation components						
Panel/Service outlet						
ABB Panel outlet 3P+N+J 415V 63A 463RAU6			??	??	??	???
ABB Service socket for Dinrail G.			??	??	??	???
NMCS Components						
TAC1 Computer		3 mm	0,5	0,6	0,5	9200XXX
TAC2 Computer		3 mm	0,5	0,6	0,5	9200XXX
TOI1 Interface		3 mm	0,5	0,6	0,5	9100XXX
TOI2 Interface		3 mm	0,5	0,6	0,5	9100XXX
TAC 40 Triggerboard 690V		3 mm	0,5	0,6	0,5	95101XX
TAC 41 Triggerboard 960V		3 mm	0,5	0,6	0,5	95101XX

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Tightening Torque						
Component	Standard bolt / nut	Torque		Tools	NMCS item no.	Supplier item no.
		Interval	Prefered			
		min	max			
	[mm]	[Nm]		[mm]		
Socket 11 pol for TAC 70, 80, 81, 82, 83, 84, 85, 86, 87	3 mm	0,5	0,6	0,5		Q9140XXX
Varisterbox x 8	3 mm	0,5	0,6	0,5		9590XXX
Resistor Modul	3 mm	0,5	0,6	0,5		
Power converters						
C-Thiim P-Conv. WAD 200kW/690V 4-20mA		1	1	1		4870144