

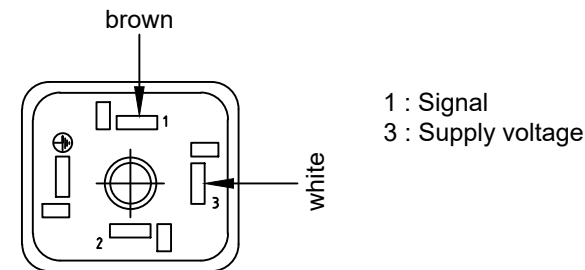
FILENAME	SHEET	DESCRIPTION
9827299502-01-01	01	INDEX
9827299502-01-05	02	POWER CIRCUIT
9827299502-01-21	03	CONTROL CIRCUIT-1
9827299502-01-41	04	REGULATOR PURELOGIC TOUCH
9827299502-01-42	05	EXPANSION MODULE IO2
9827299502-01-43	06	EXPANSION MODULE IO34
9827299502-01-44	07	CONNECTIONS 3X33
9827299502-01-45	08	CONNECTIONS 4X29
9827299502-01-46	09	IO34 CONNECTIONS
9827299502-01-47	10	IO34 CONNECTIONS
9827299502-01-48	11	CONNECTOR 4X35
9827299502-01-61	12	OPTIONAL CONTACTS
9827299502-01-91	13	LEGEND

Factory options:

1 Outlet PDP

NOTES :

[A] Connection PDP sensor
pin configuration

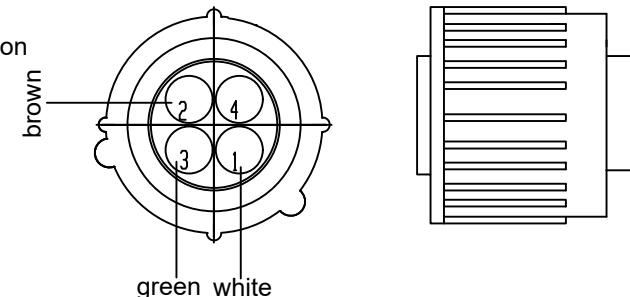


[B] Connect filter contact to these connections. Bridge to be removed if component is installed

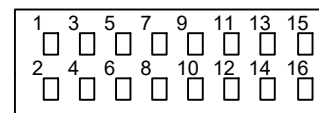
[C] Connect external Emergency stop to these connections. Bridge to be removed if component is installed

[D] Pressure transducer pin configuration

1 : Supply voltage
2 : ground
3 : output
4 : Sealed with dummy



[E] Marking of connectors 2X27...4X34



[F] Maximum fuses with regard to short circuit protection of components. cable section might impose fuses of smaller value.

[G] F.P.C. field provided components 24V 22VA

[H] Tightening torque of bolts:

For contactors

metric thread size M6 7Nm (5lbft)

metric thread size M8 12Nm (9lbft)

metric thread size M10 20Nm (15lbft)

For terminals

metric thread size M4 2.5Nm (1.5lbft)

metric thread size M6 3Nm (2lbft)

metric thread size M8 6Nm (4lbft)

metric thread size M10 10Nm (7lbft)

[I] **Color codes wires:**

- Black: Power conductor
- Light blue (only CE): Neutral conductor
- Red (only CE): 115VAC (or 230VAC)
- Violet: 24VAC
- Orange: Potential free contacts
- Yellow/Green: Earth conductor
- Dark blue + white: Extra DC voltages:
 - + = White
 - - = Dark blue: 24 or 12 VDC

[P] Percentage sensor is installed for models with a nitrogen output between 95.0% and 99.9%

[Q] PPM sensor is installed for models with a nitrogen output between 99.950% and 99.999%

[S] Field wiring: use copper wire only, minimum size AWG14 or 2,5mm²

CLASS MARKING CIRCUIT LESS THAN 30Vrms				
COMPONENT	REFERENCE	TORQUE(NM)	CLASS 1 CONTROL CIRCUIT	CLASS 2 CONTROL CIRCUIT
TERMINAL	1X6 (*)	-	X	
TERMINAL	1X7 (*)	-	X	
CONNECTOR	1X10 (*)	-	X	
CONNECTOR	1X11 (*)	-	X	
CONNECTOR	2X22 (*)	-	X	
CONNECTOR	2X24 (*)	-	X	
CONNECTOR	2X27 (*)	-	X	
CONNECTOR	2X50 (*)	-	X	
CONNECTOR	3X23 (*)	-	X	
CONNECTOR	3X24 (*)	-	X	
CONNECTOR	3X32 (*)	-	X	
CONNECTOR	3X33 (*)	-	X	
CONNECTOR	3X35 (*)	-	X	
CONNECTOR	3X40 (*)	-	X	
CONNECTOR	3X41 (*)	-	X	
CONNECTOR	4X23 (*)	-	X	
CONNECTOR	4X29 (*)	-	X	
CONNECTOR	4X33 (*)	-	X	
CONNECTOR	4X35 (*)	-	X	

(*)-24V is used

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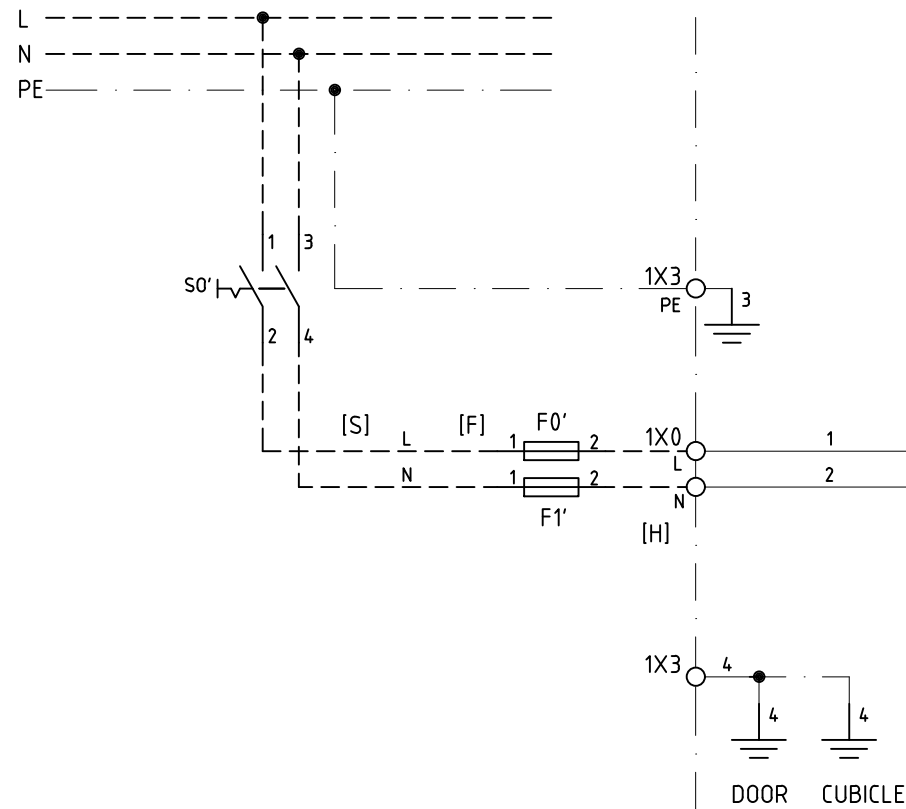
Tolerances, if not indicated, according to:					
STANDARD CLASS					
Name	SERVICE DIAGRAM GEN2-MAX				Confidentiality Class acc. to 1102 K
Material					Internal
Treatment	Not Applicable				INV
Scale	1 : 2	Family	A3	Compare	9827299502
Drawn by	INEAPY	Blank nr.		Replaces	
Version Drwg		Blank wt.	Kg	Fin. wt.	
STATUS		Des checked.	Prod checked.	Approved.	Date
					21-12-2021
WorkInProgress					Designation
					Sheet 1 / 13
					9829500760-01

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CUSTOMER'S INSTALLATION 115V AC/230V AC



MAIN SUPPLY IEC ONLY

VOLTAGE :	230 V
FREQ :	50Hz 1 PH

MAIN SUPPLY CSA/UL ONLY

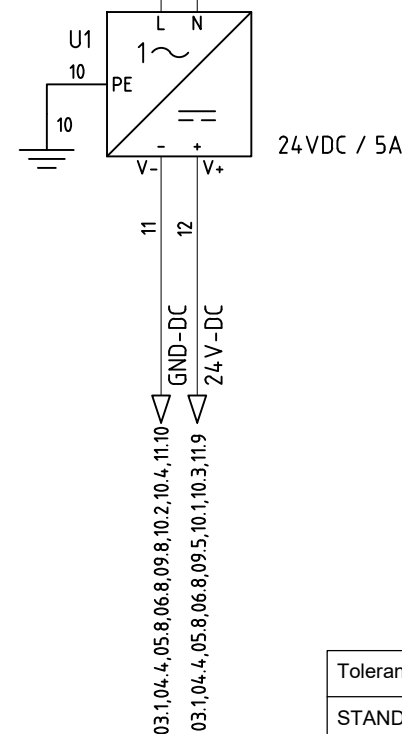
VOLTAGE :	115 V
FREQ :	60 Hz 1 PH

MAX FUSE [F] IEC ONLY

IEC : Class gL/gG
12 A

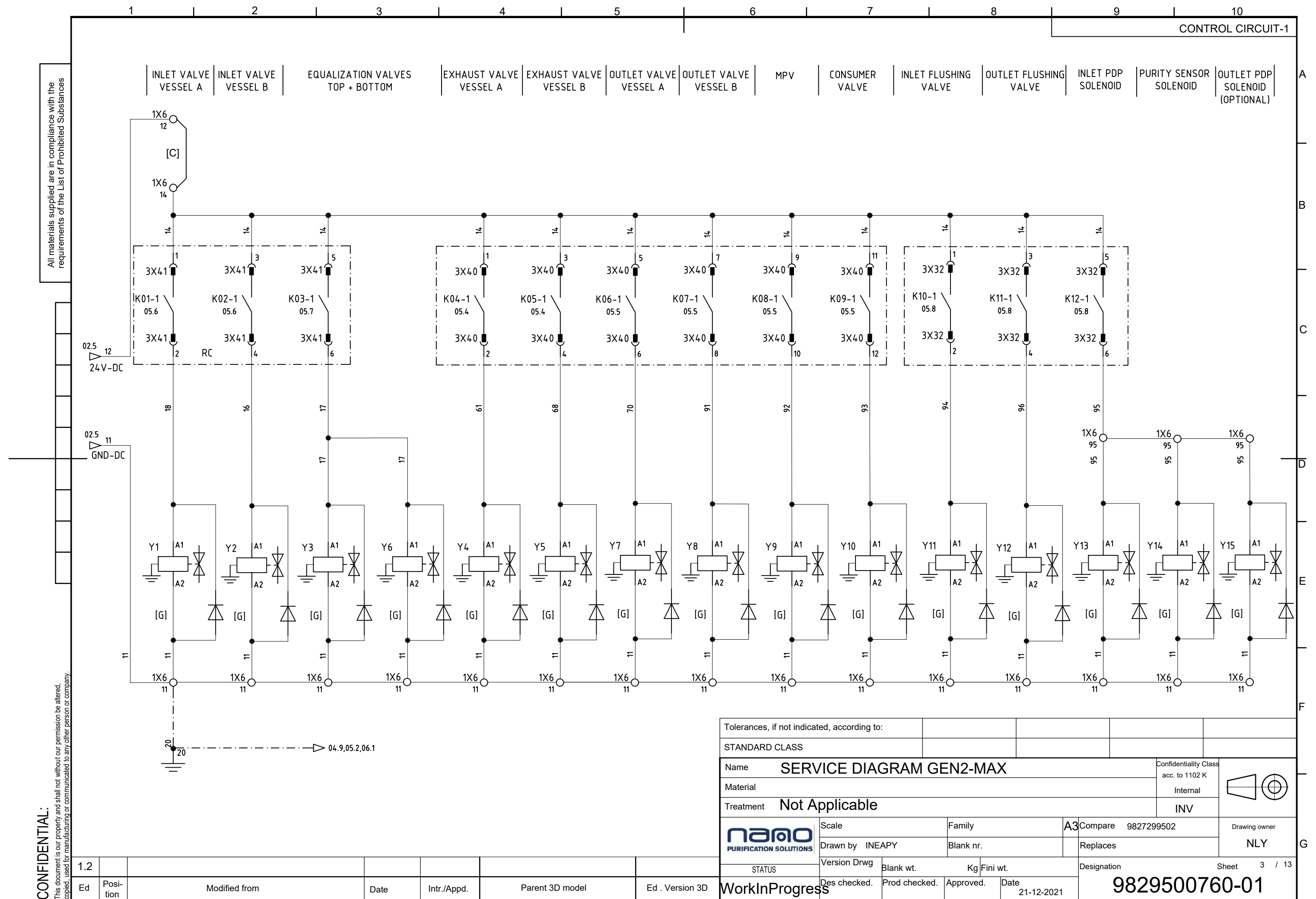
MAX FUSE [F] CSA/UL ONLY

CSA : HRC Form II
12 A
UL : Class RK1
12 A



Tolerances, if not indicated, according to:				
STANDARD CLASS				
Name	SERVICE DIAGRAM GEN2-MAX			Confidentiality Class acc. to 1102 K
Material				Internal
Treatment	Not Applicable			INV
	Scale	Family	A3	Compare 9827299502
	Drawn by INEAPY	Blank nr.	Replaces	
	Version Drwg	Blank wt.	Kg	Fin. wt.
STATUS	Des checked.	Prod checked.	Approved.	Date 21-12-2021
WorkInProgress				Designation 9829500760-01
				Sheet 2 / 13

1.2							
Ed	Posi-tion	Modified from	Date	Intr./Appd.	Parent 3D model	Ed . Version 3D	

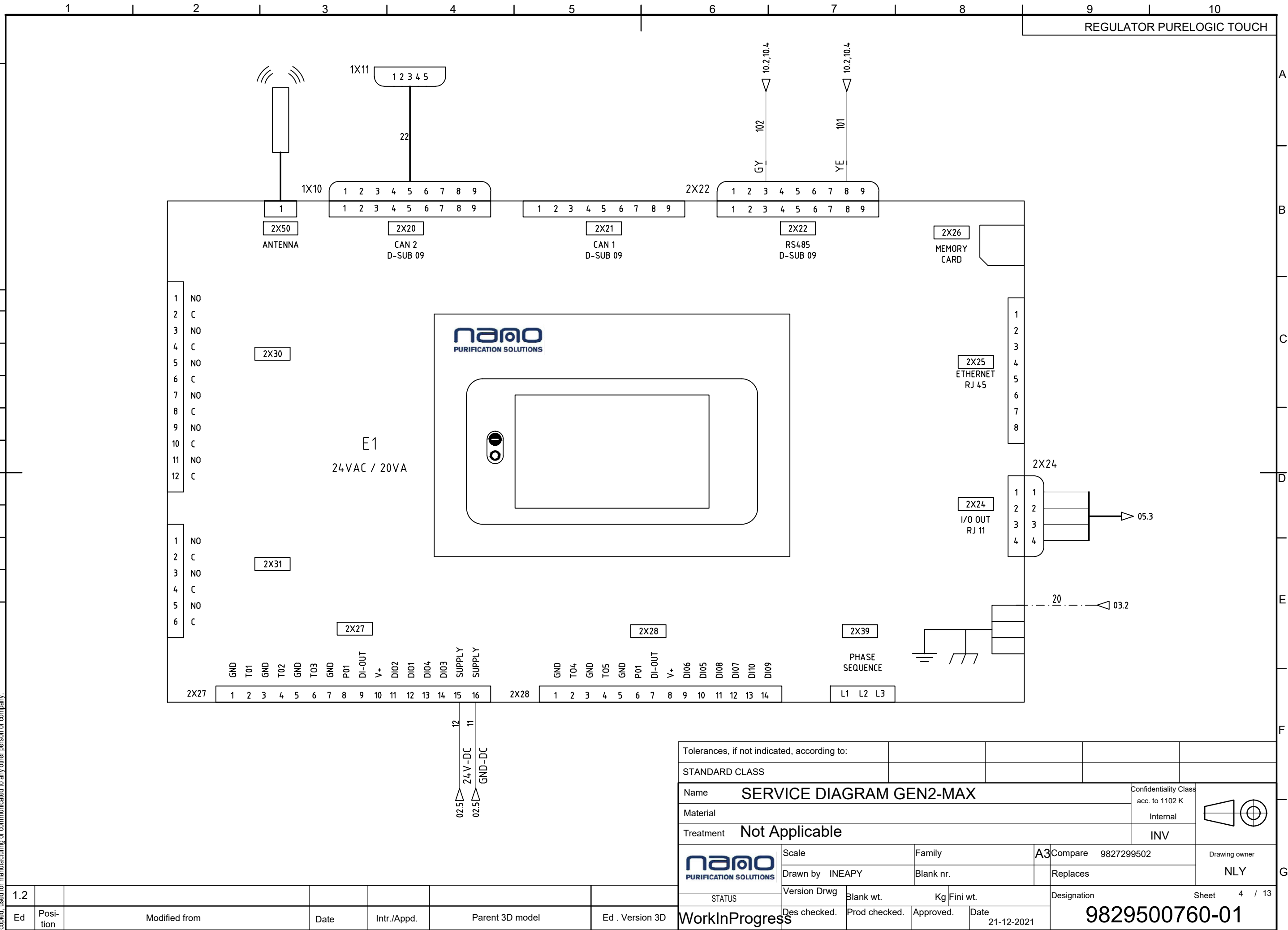


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STANDARD CLASS					
Name				SERVICE DIAGRAM GEN2-MAX	
Material				Confidentiality Class acc. to 1102 K	
Treatment				Internal	
Not Applicable				INV	
		Scale		Family	
		A3		Compare 9827299502	
		Drawing owner			
Drawn by		INEAPY		Blank nr.	
Replaces		NLY			
Version Drwg		Blank wt.		Kg	
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Des checked.		Prod checked.		Approved.	
Date		21-12-2021		Sheet 4 / 13	
WorkInProgress		9829500760-01			

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03.2

PE



05.8

76
77
78
79

4X23

1 2 3 4 5 6

4X23

1 2 3 4 5 6

RJ11

I/O IN

4X34

1 Vext
2 AI05
3 Vext
4 AI06
5 Vext
6 AI07
7 Vext
8 AI08
9 Vext
10 AI09
11 Vext
12 AI10
13 Vext
14 AI11
15 Vext
16 AI12
17 Vext
18 GND

4X29

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

GND A001 GND A002 GND A003 GND A004 GND A005 GND A006 GND A007 GND A008

4X24

1 2 3 4 5 6

RJ11

I/O OUT

4X33

P01 1
P03 2
V+ 3
V+ 4
GND 5
GND 6
P02 7
P04 8
V+ 9
V+ 10
GND 11
GND 12
GND 13
AI01 14
GND 15
AI02 16
GND 17
AI03 18
GND 19
AI04 20

E3
EXPANSION MODULE IO34

SC

09.1,11.1

4X35

GND T01 GND T02 GND T03 GND T04 GND T05 GND T06 GND T07 GND T08 GND T09 GND T10

11.1

11

12

GND-DC
24V-DC

Supply 24V DC
Supply

09.1

Tolerances, if not indicated, according to:								
STANDARD CLASS								
Name						Confidentiality Class		
SERVICE DIAGRAM GEN2-MAX						acc. to 1102 K		
Material						Internal		
Treatment						INV		
Not Applicable								
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		Version Drwg		Blank wt.		Kg		
STATUS						Designation		Sheet 6 / 13
WorkInProgress		Des checked.		Prod checked.		Approved.		Date
								21-12-2021
								9829500760-01

1.2							
Ed	Posi-tion	Modified from	Date	Intr./Appd.	Parent 3D model	Ed . Version 3D	

EXPANSION MODULE IO34

A

B

C

D

E

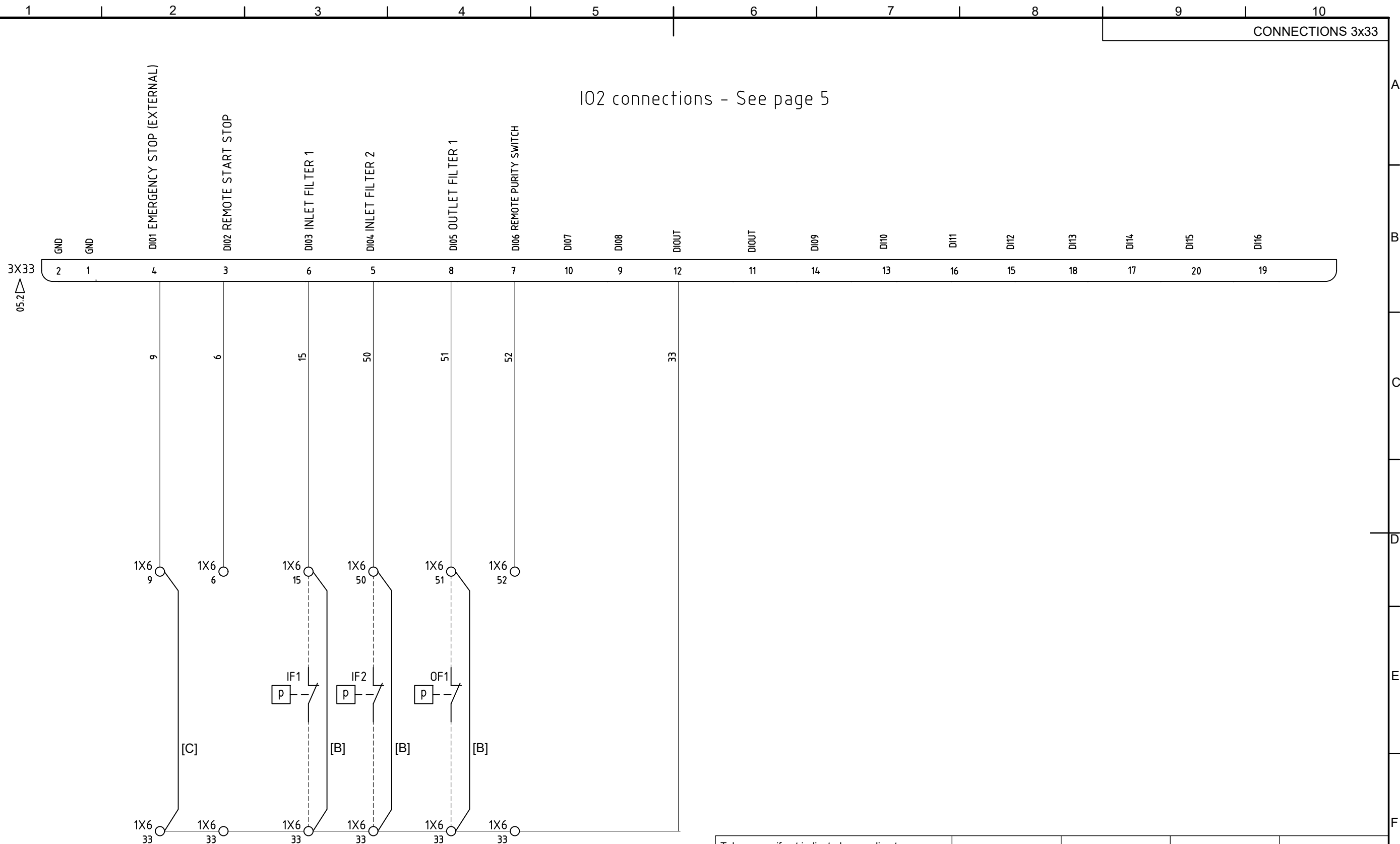
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G

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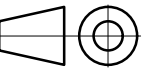
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STANDARD CLASS																																							
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Material																				Internal																			
Treatment										Not Applicable										INV																			
					Scale					Family					A3					Compare					9827299502					Drawing owner NLY									
					Drawn by					INEAPY					Blank nr.										Replaces														
STATUS					Version Drwg					Blank wt.					Kg					Finl wt.					Designation 9829500760-01										Sheet 7 / 13				
					Des checked.					Prod checked.					Approved.					Date 21-12-2021																			
WorkInProgress																														9829500760-01									

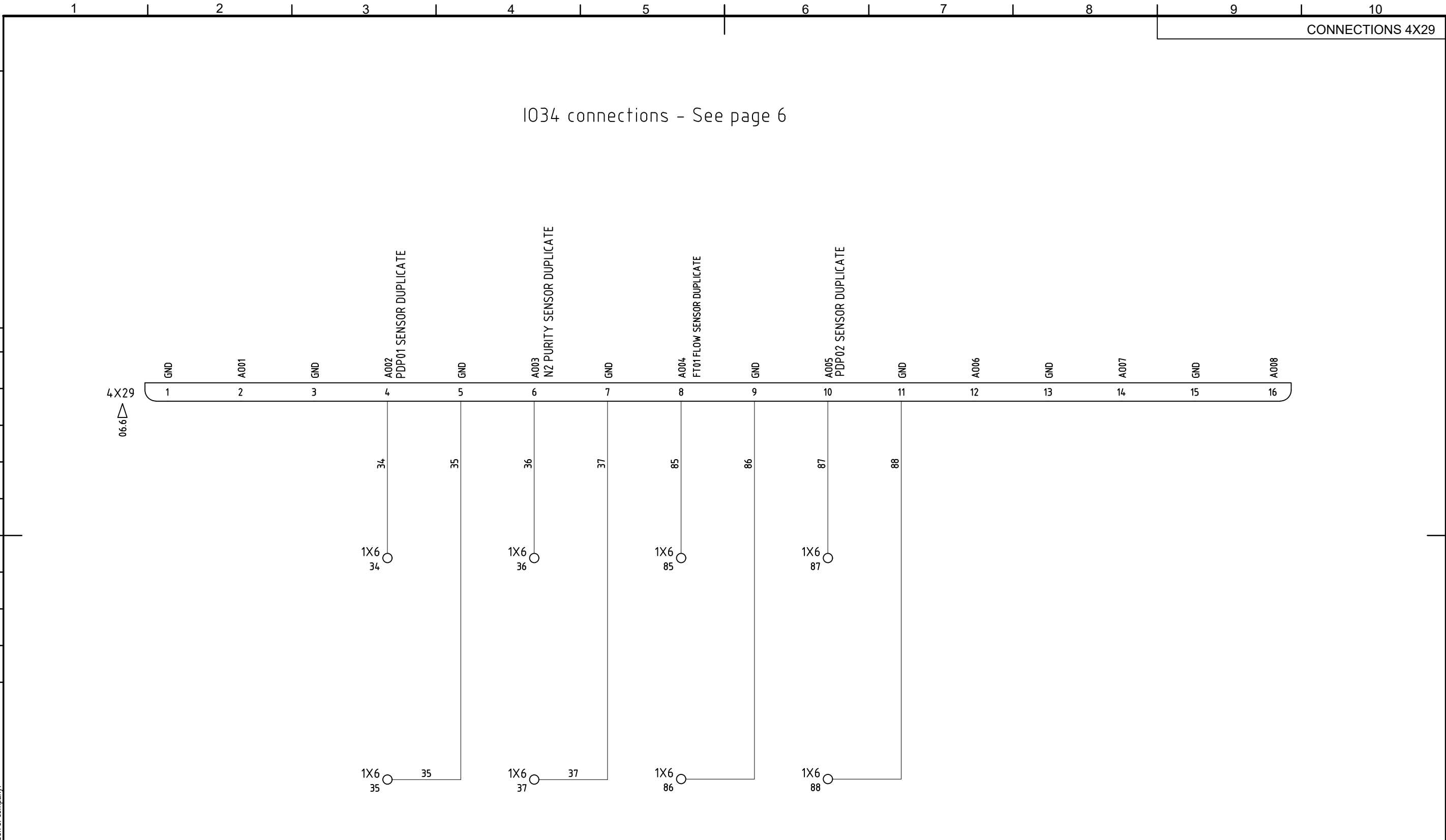
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1.2						
Ed	Posi- tion	Modified from	Date	Intr./Appd.	Parent 3D model	Ed . Version 3D

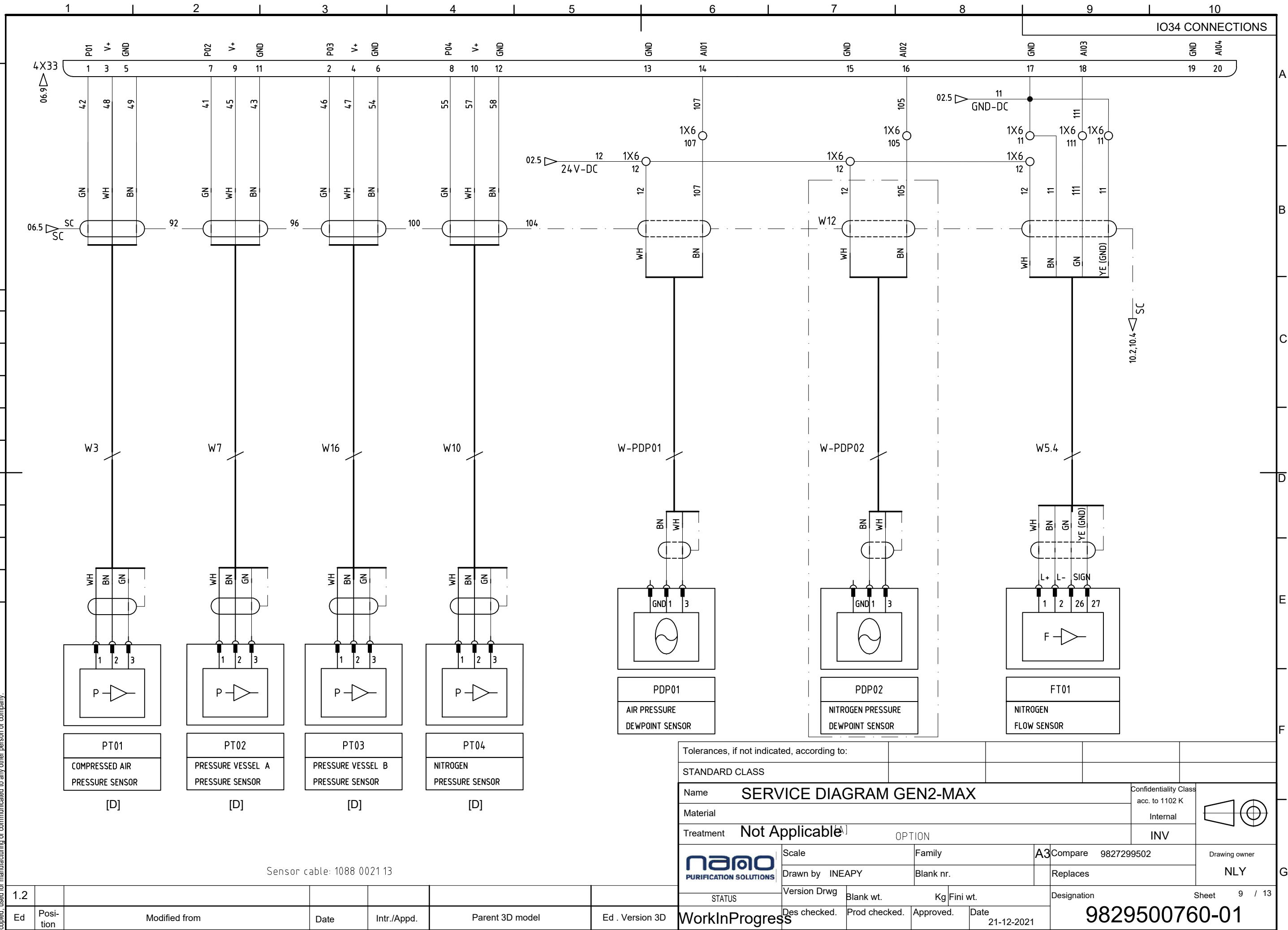
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STANDARD CLASS											
Name SERVICE DIAGRAM GEN2-MAX								Confidentiality Class acc. to 1102 K			
Material								Internal			
Treatment Not Applicable								INV			
		Scale		Family		A3Compare 9827299502		Drawing owner			
		Drawn by INEAPY		Blank nr.		Replaces		NLY			
STATUS		Version Drwg		Blank wt.		Kg	Fini wt.		Designation		
WorkInProgress		Des checked.		Prod checked.		Approved.		Date 21-12-2021		Sheet 8 / 13	
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Sensor cable: 1088 0021 13

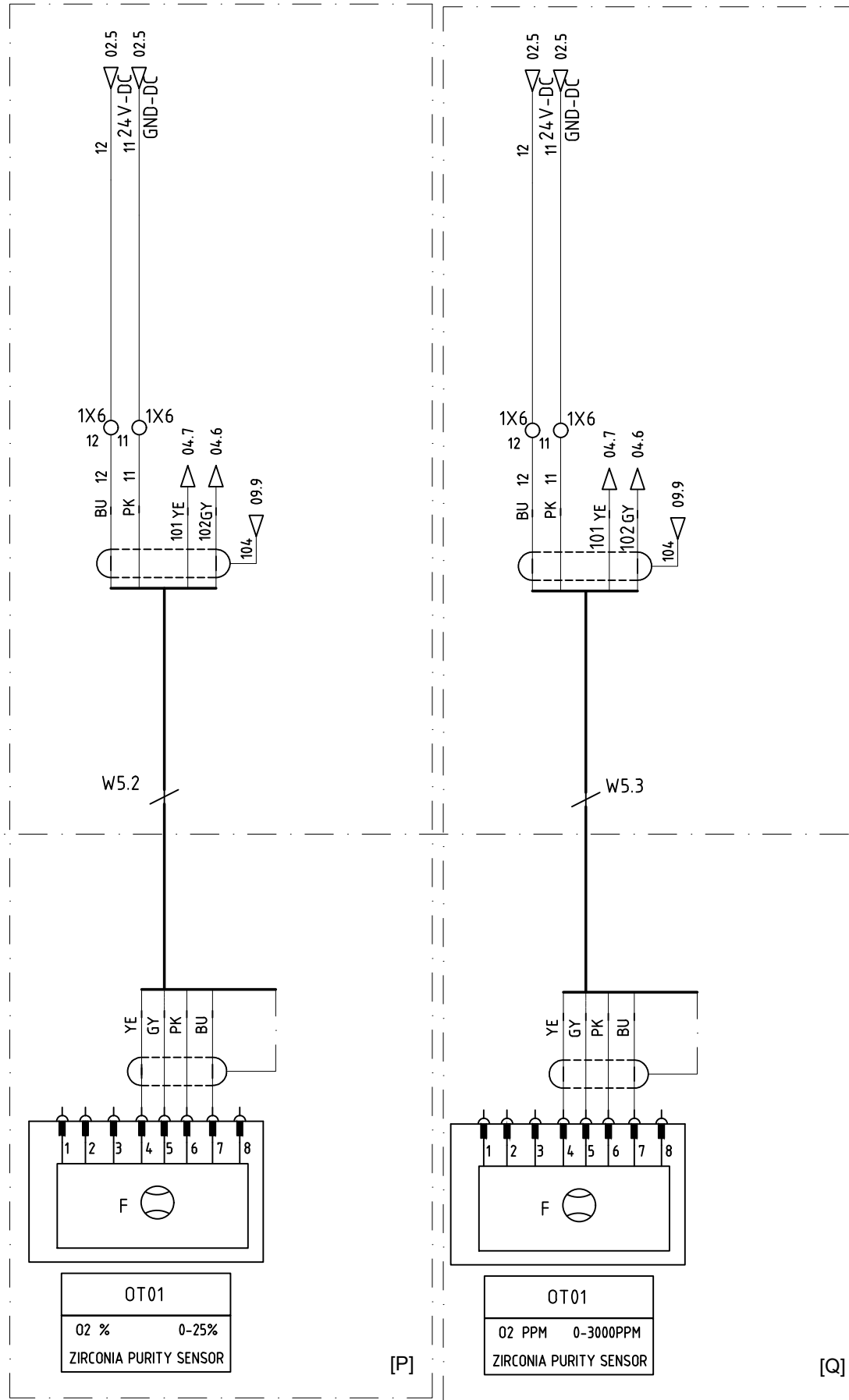
1.2							
Ed	Position	Modified from	Date	Intr./Appd.	Parent 3D model	Ed . Version 3D	

Tolerances, if not indicated, according to:							
STANDARD CLASS							
Name				SERVICE DIAGRAM GEN2-MAX			
Material							
Treatment				Not Applicable			
Scale				A3			
Family				Compare			
Blank nr.				9827299502			
Replaces				9829500760-01			
Version Drwg				21-12-2021			
Blank wt.				Kg			
Fini wt.				Kg			
Des checked.				Prod checked.			
Approved.				Date			
STATUS				WorkInProgress			
Designation				9829500760-01			
Sheet				9 / 13			

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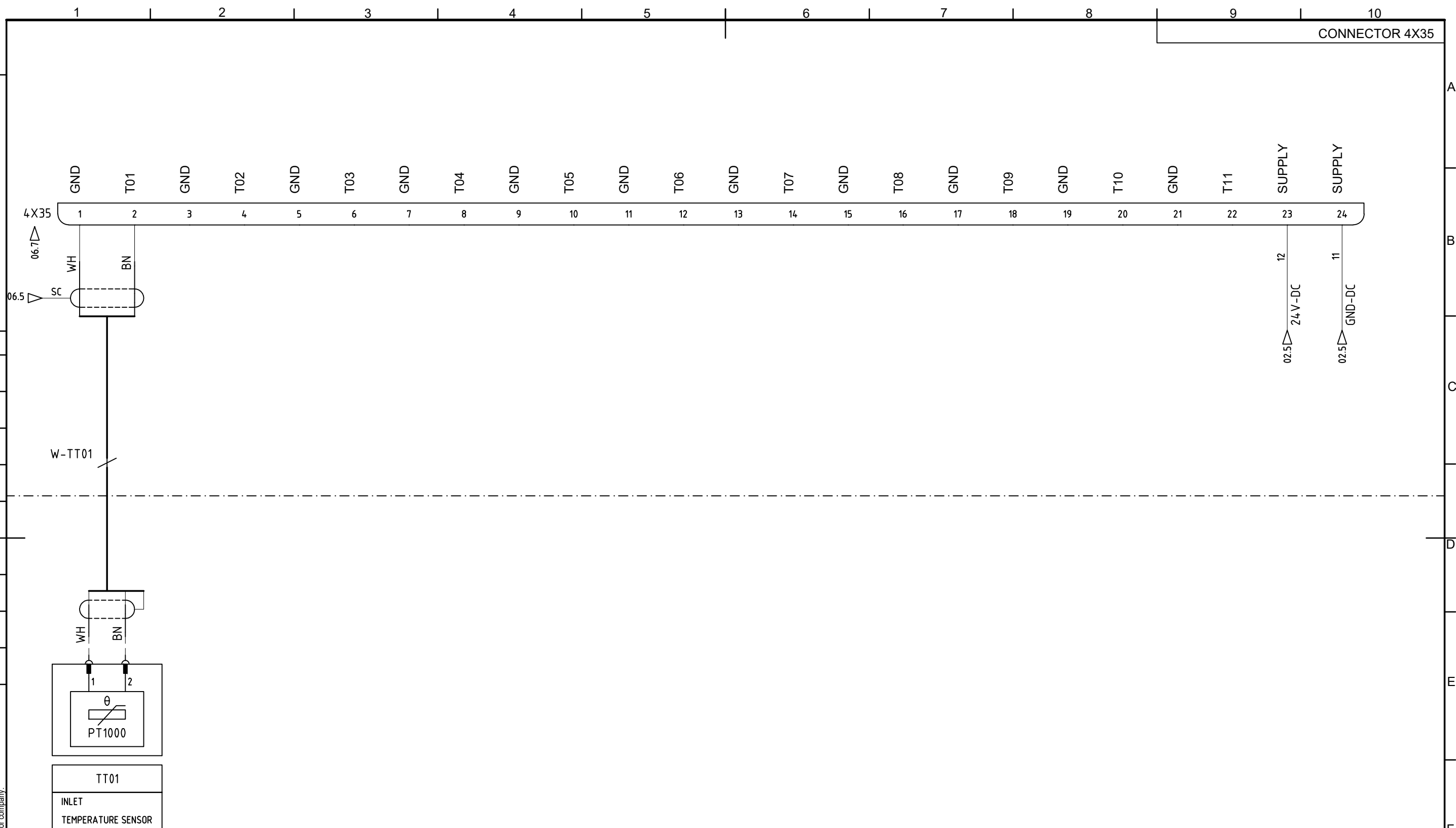
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Name			Confidentiality Class	
SERVICE DIAGRAM GEN2-MAX			acc. to 1102 K	
Material			Internal	
Treatment			INV	
	Scale		Family	A3
	Drawn by INEAPY		Blank nr.	Replaces
	Version Drwg		Blank wt.	Kg Fini wt.
STATUS		Des checked.	Prod checked.	Approved.
WorkInProgress		Date		21-12-2021
Designation			Sheet	
9829500760-01			10 / 13	
Drawing owner			NLY	

IO34 CONNECTIONS

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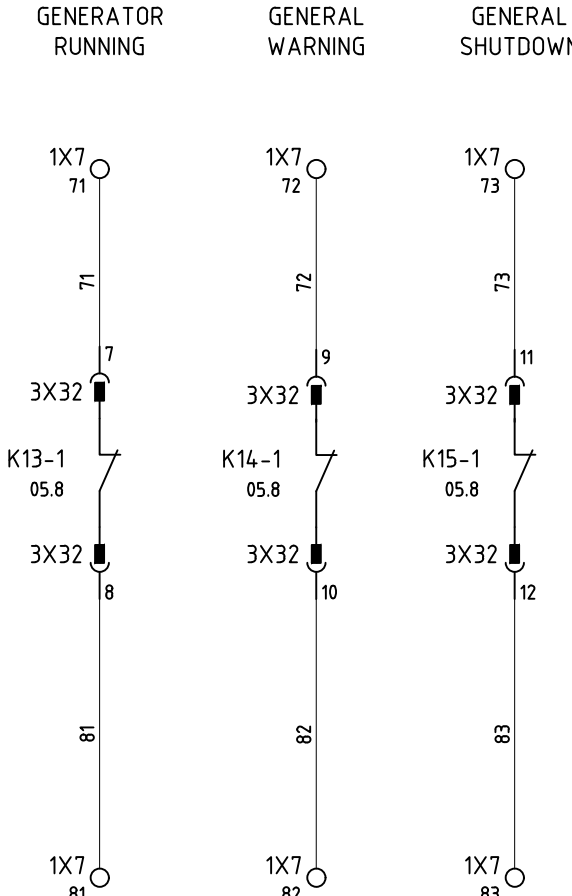
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Tolerances, if not indicated, according to:					
STANDARD CLASS					
Name SERVICE DIAGRAM GEN2-MAX				Confidentiality Class acc. to 1102 K	
Material					
Treatment Not Applicable				Internal	
				INV	
	Scale		Family	A3 Compare 9827299502	Drawing owner NLY
	Drawn by INEAPY		Blank nr.	Replaces	
STATUS	Version Drwg	Blank wt.	Kg	Fini wt.	Designation
	Des checked.	Prod checked.	Approved.	Date 21-12-2021	
WorkInProgress					Sheet 11 / 13 9829500760-01

VOLTAGE FREE CONTACTS



OPTIONAL CONTACTS

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STANDARD CLASS					
Name SERVICE DIAGRAM GEN2-MAX				Confidentiality Class acc. to 1102 K	
Material					
Treatment Not Applicable				Internal	
				INV	
	Scale		Family	A3 Compare 9827299502	Drawing owner NLY
	Drawn by INEAPY		Blank nr.	Replaces	
STATUS	Version Drwg	Blank wt.	Kg	Fin. wt.	Designation
	Des checked.	Prod checked.	Approved.	Date 21-12-2021	
WorkInProgress					Sheet 12 / 13 9829500760-01

ing owner

LY

12 / 13

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1.2							
Ed	Posi- tion	Modified from	Date	Intr./Appd.	Parent 3D model	Ed . Version 3D	

LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
GENERATOR	Y1	03	INLET SOLENOID VALVE	VESSEL A
GENERATOR	Y2	03	INLET SOLENOID VALVE	VESSEL B
GENERATOR	Y3	03	EQUALIZATION VALVE	BOTTOM
GENERATOR	Y4	03	EXHAUST VALVE	VESSEL A
GENERATOR	Y5	03	EXHAUST VALVE	VESSEL B
GENERATOR	Y6	03	EQUALIZATION VALVE	TOP
GENERATOR	Y7	03	OUTLET VALVE	VESSEL A
GENERATOR	Y8	03	OUTLET VALVE	VESSEL B
GENERATOR	Y9	03	MPV	
GENERATOR	Y10	03	CONSUMER VALVE	
GENERATOR	Y11	03	INLET FLUSHING VALVE	
GENERATOR	Y12	03	OUTLET FLUSHING VALVE	
GENERATOR	Y13	03	INLET PDP SOLENOID	
GENERATOR	Y14	03	PURITY SENSOR SOLENOID	
GENERATOR	Y15	03	OUTLET PDP SOLENOID	OPTIONAL
CONTROL PANEL	1X10	04	CONNECTOR	CAN2
CONTROL PANEL	1X11	04	M12 connector	1088001744
CONTROL PANEL	2X20	04	CONNECTOR	CAN2
CONTROL PANEL	2X22	04	CONNECTOR	RS485
CONTROL PANEL	2X24	04	CONNECTOR	I/O-RJ11
CONTROL PANEL	3X23	05	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	3X24	05	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	3X35	05	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	3X32	05	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	3X40	03	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	3X40	03	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	3X41	03	CONNECTOR	EXPANSION MODULE IO2
CONTROL PANEL	4X23	06	CONNECTOR	EXPANSION MODULE IO34
CONTROL PANEL	4X35	11	CONNECTOR	EXPANSION MODULE IO34
CONTROL PANEL	4X29	08	CONNECTOR	EXPANSION MODULE IO34
CONTROL PANEL	4X33	09	CONNECTOR	EXPANSION MODULE IO34
CONTROL PANEL	E1	04	ELEKTRONIKON	PURELOGIC TOUCH
CONTROL PANEL	E2	05	EXPANSION MODULE IO2	
CONTROL PANEL	E3	06	EXPANSION MODULE IO34	
CONTROL PANEL	U1	02	POWER SUPPLY	24VDC / 5A
CUSTOMER	S0'	02	MAIN SWITCH	CUSTOMER INSTALLATION

LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CUSTOMER	F0'	02	FUSE	CUSTOMER
CUSTOMER	F1'	02	FUSE	CUSTOMER
CONTROL PANEL	F5	02	FUSE	12A
CONTROL PANEL	F4	02	FUSE	
CONTROL PANEL	FT01	09	NITROGEN	FLOW SENSOR
GENERATOR	IF1	07	INLET FILTER 1	PRESSURE DROP SWITCH
GENERATOR	IF2	07	INLET FILTER 2	PRESSURE DROP SWITCH
GENERATOR	OF1	07	OUTLET FILTER 1	PRESSURE DROP SWITCH
GENERATOR	OT01	10	OXYGEN LEVEL TRANSMITTER	0-25%
GENERATOR	OT01	10	OXYGEN LEVEL TRANSMITTER	0-3000PPM
GENERATOR	PDP01	09	AIR PRESSURE	DEWPOINT SENSOR
GENERATOR	PDP02	09	NITROGEN PRESSURE	DEWPOINT SENSOR
GENERATOR	PT01	09	COMPRESSED AIR	PRESSURE SENSOR
GENERATOR	PT02	09	PRESSURE VESSEL A	PRESSURE SENSOR
GENERATOR	PT03	09	PRESSURE VESSEL B	PRESSURE SENSOR
GENERATOR	PT04	09	NITROGEN	PRESSURE SENSOR
GENERATOR	TT01	11	INLET	TEMPERATURE SENSOR

Tolerances, if not indicated, according to:									
STANDARD CLASS									
Name SERVICE DIAGRAM GEN2-MAX							Confidentiality Class acc. to 1102 K		
Material							Internal		
Treatment Not Applicable							INV		
		Scale		Family		A3Compare 9827299502		Drawing owner NLY	
		Drawn by INEAPY		Blank nr.		Replaces			
STATUS		Version Drwg		Blank wt.		Kg Fini wt.		Designation 9829500760-01	Sheet 13 / 13
WorkInProgress		Des checked.		Prod checked.		Approved. Date 21-12-2021			