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INSTALLED	OPTIONAL COMPONENT
	Electronic water drains side 1,2 B1,B2 : DD Filter B3,B4 : WSD
	DD/PD Filter kit side 1,2 PDS11,13 : Delta P-switch for integrated DD filter PDS12,14 : Delta P-switch for integrated PD filter
	CO : Carbon monoxide transmitter CO2 : Carbon dioxide transmitter

MAIN POWER SUPPLY

VOLTAGE : V
FREQ : 50 Hz 1 PH

VOLTAGE : V
FREQ : 60 Hz 1 PH

MAX FUSE

IEC : Class gL/gG
..... A

F1-F2	F3-F4
__ 4 __ A	__ 5 __ A
F5 - F6	F7 & F8
__ 4 __ A	__ 5 __ A
F9 - F14	F15 - F16
__ 1.5 __ A	__ 1.5 __ A
F17 - F18	
__ 2.5 __ A	



NOTE; FUSES TO BE OF TYPE T CHARACTERISTIC UNLESS STATED OTHERWISE

All materials supplied are in compliance with the requirements of the List of Prohibited Substance

Name dMED DUPLEX Controller Service Diagram		Secrecy Class					
Material N/A		1102 K/ 2					
Treatment N/A		ACD					
Tolerances, if not indicated, according to: ATLAS COPCO STANDARD Class		Scale -:-	Family 0	A3	Compare	Drawing owner	
		Drawn by GCFJTN	Blank nr. 0		Replaces	ACM	
		Version Drwg 4.0	Blank wt. 0 Kg	Fini wt. 0 Kg	Designation		Sheet 01 OF 16
STATUS		Des checked	Prod checked	Approved	Date 10-05-19	2212 0215 09	
ISSUED							

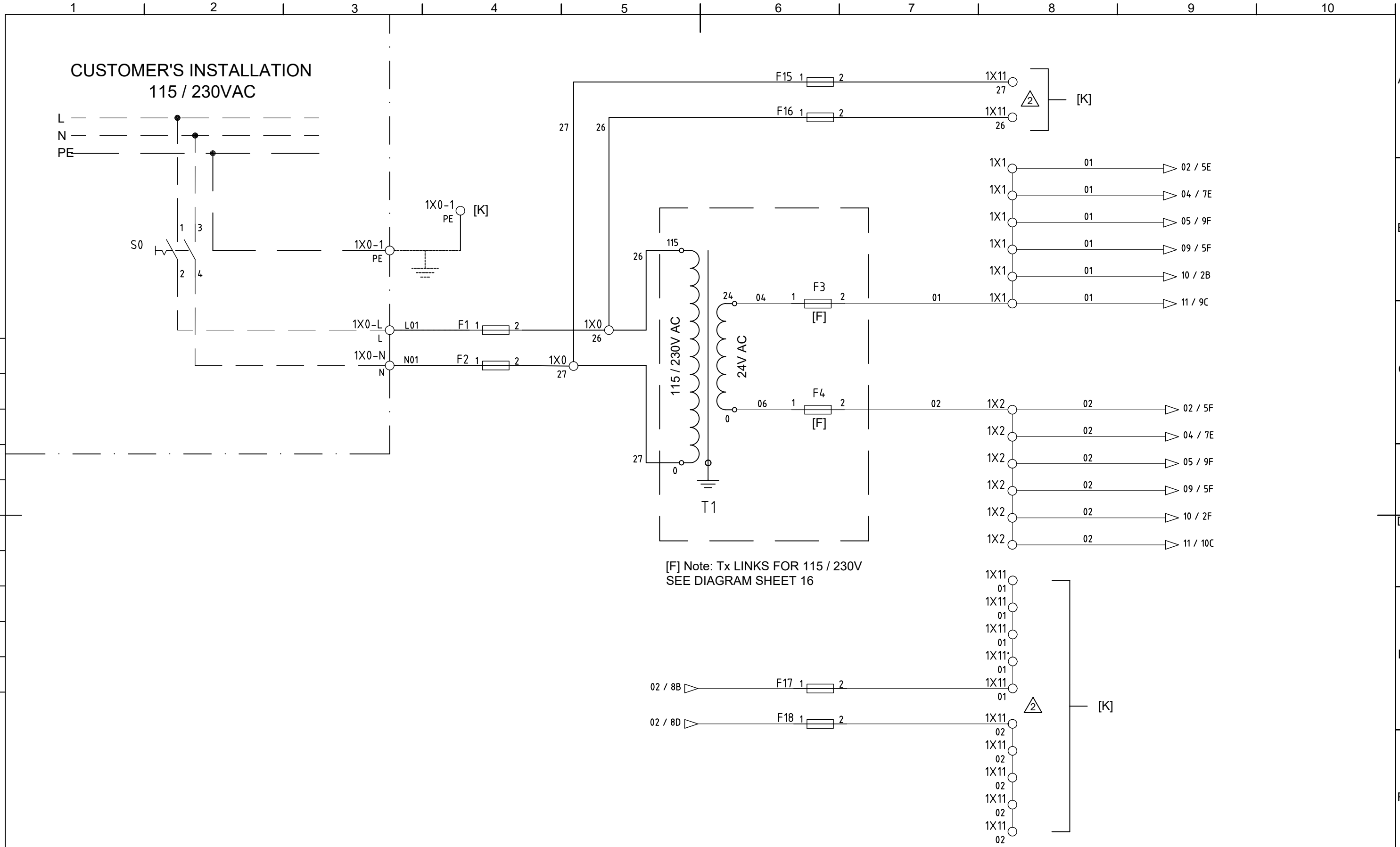
4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFJTN			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	

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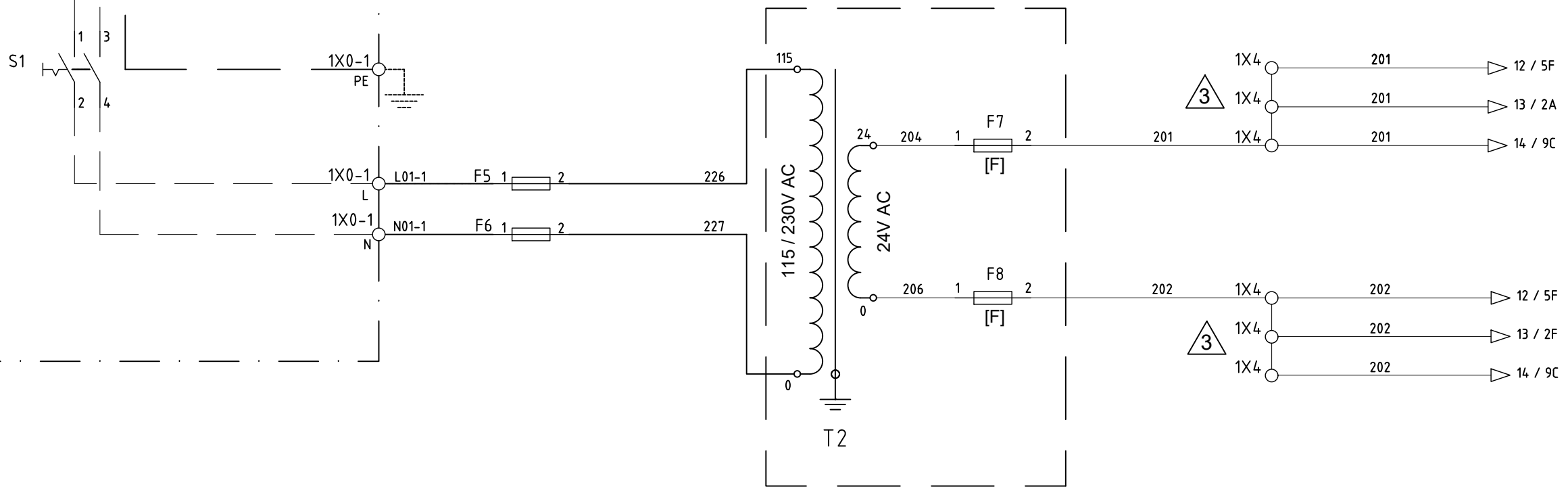
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Name					dMED DUPLEX Controller Service Diagram					Security Class																	
Material					N/A					1102 K/ 2																	
Treatment					N/A					ACD																	
Tolerances, if not indicated, according to:					ATLAS COPCO STANDARD Class					Scale		A3		Compare		Drawing owner											
Version					4.0					Drawn by		GCFJTN		Blank nr.		Replaces		ACM									
Status					ISSUED					Version Drwg		4.0		Blank wt.		0 Kg		Fini wt.		0 Kg		Designation		Sheet		02 OF 16	
Note					Modified from					Date		10-05-19		Date		10-05-19		2212 0215 09									

CUSTOMER'S INSTALLATION
115 / 230VAC

L
N
PE



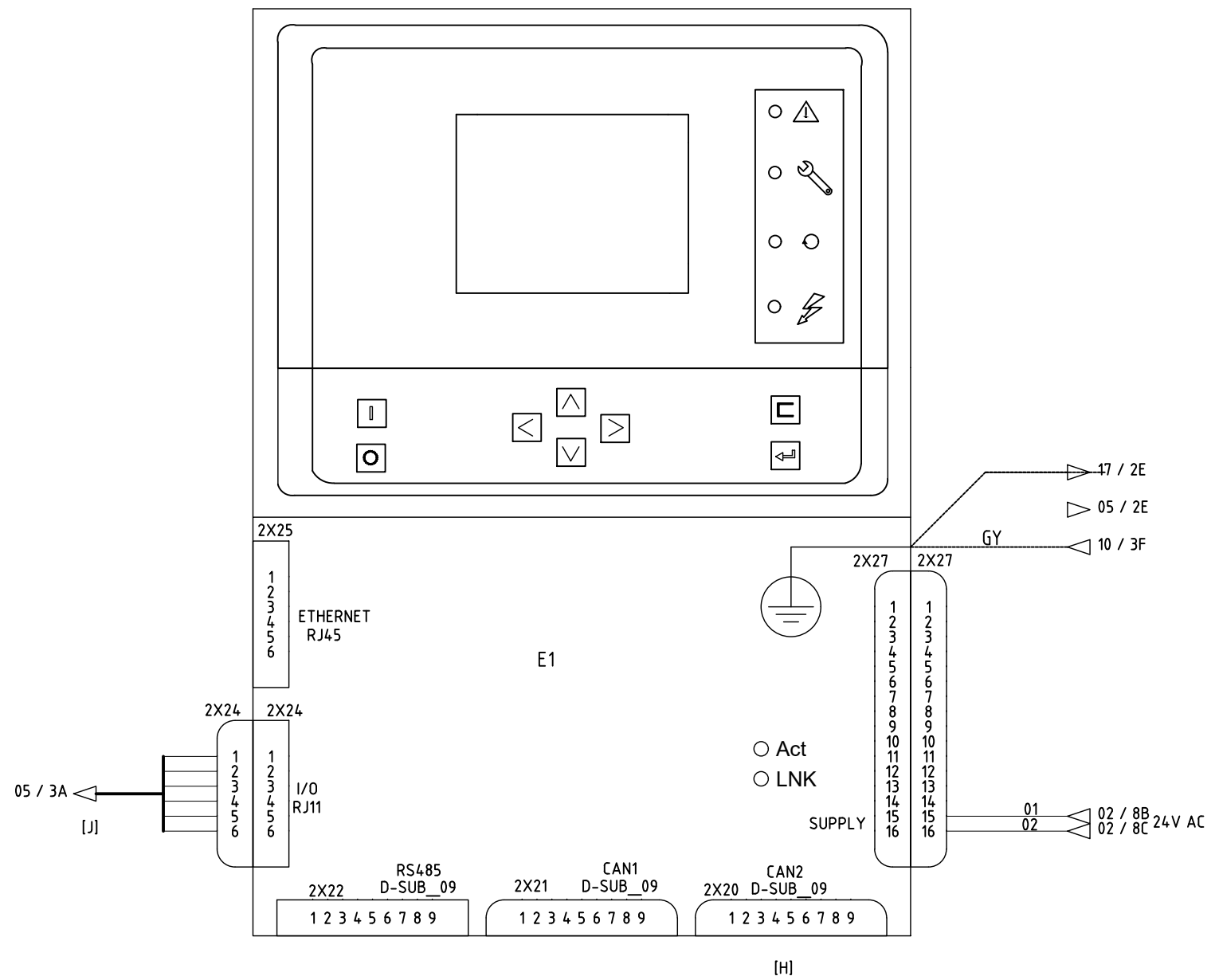
[F] Note: Tx LINKS FOR 115 / 230V
SEE DIAGRAM SHEET 16

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Name					dMED DUPLEX Controller Service Diagram					Security Class																	
Material					N/A					1102 K/ 2																	
Treatment					N/A					ACD																	
Tolerances, if not indicated, according to:					ATLAS COPCO STANDARD Class					Scale		A3		Compare		Drawing owner											
Version					4.0					Drawn by		GCFJTN		Blank nr.		Replaces		ACM									
STATUS					ISSUED					Version Drwg		4.0		Blank wt.		0 Kg		Fini wt.		0 Kg		Designation		Sheet		03 OF 16	
Note					Modified from					Date		10-05-19		Des checked		Prod checked		Approved		Date		10-05-19		2212 0215 09			

E1 ELEKTRONIKON MK5 GRAPHIC PLUS



[H] Note: CAN connector 3 of WH 1627-0166-00 need to be connected to CAN2

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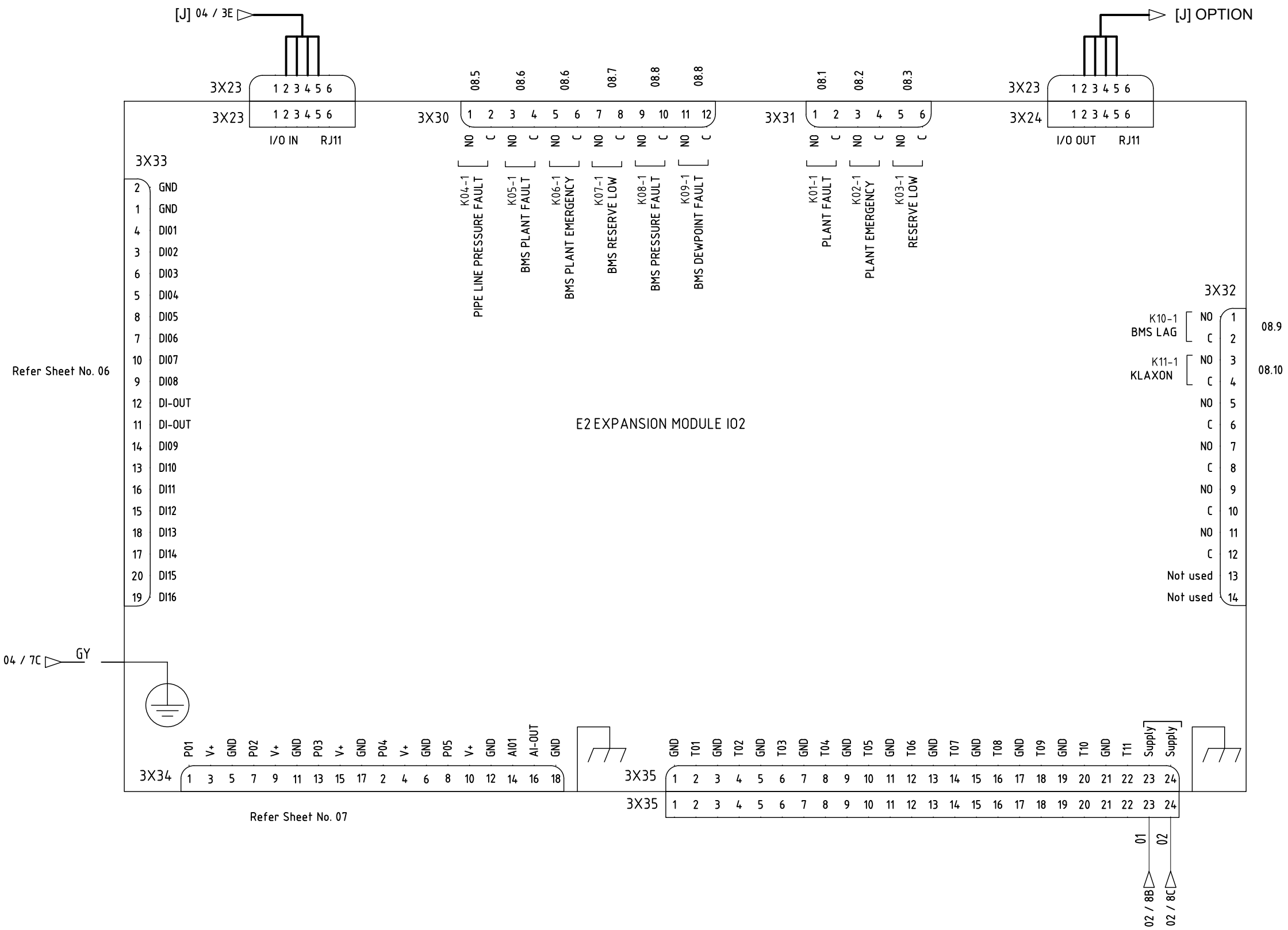
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Material		N/A				1102 K/ 2			
Treatment		N/A				ACD			
Tolerances, if not indicated, according to:				Scale	--	Family	0	A3	Compare
ATLAS COPCO STANDARD Class		STATUS		Drawn by	GCFJTN	Blank nr.	0		Replaces
4.0		Various		Update drawing references (IAR9925)	06/11/19	GCFPB			Drawing owner
Note		Position		Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	1
ISSUED		Des checked		Prod checked	Approved	Date	10-05-19	Designation 2212 0215 09	
		Blank wt.		0	Kg	Fini wt.	0	Kg	Sheet 04 OF 16

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1 2 3 4 5 6 7 8 9 10

A B C D E F G



[J] OPTION - service diagram 2212 0216 12

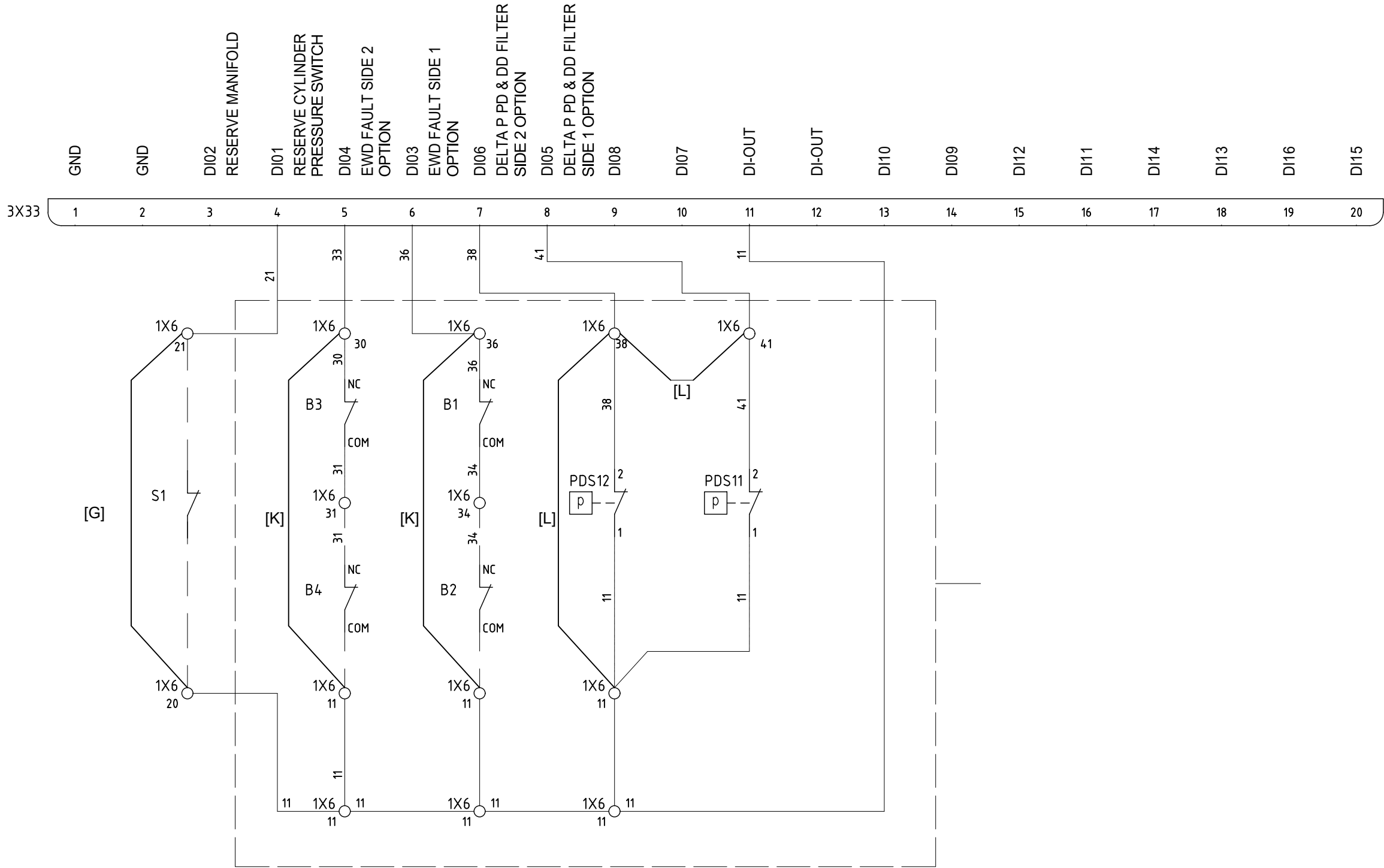
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Treatment		N/A				ACD			
Tolerances, if not indicated, according to:				Scale	:-	Family	0	A3	Compare
STATUS		ISSUED		Drawn by	GCFJTN	Blank nr.	0	Replaces	
Version Drwg		4.0		Blank wt.	0	Kg	0	Kg	Designation
Des checked		Prod checked		Approved		Date		10-05-19	
Parent 3D Model		Ed.Version 3D		1		Sheet		05 OF 16	
Note		Position		Modified from		Date		Intr./Appd.	
4.0		Various		Update drawing references (IAR9925)		06/11/19		GCFJTN	

2212 0215 09

G

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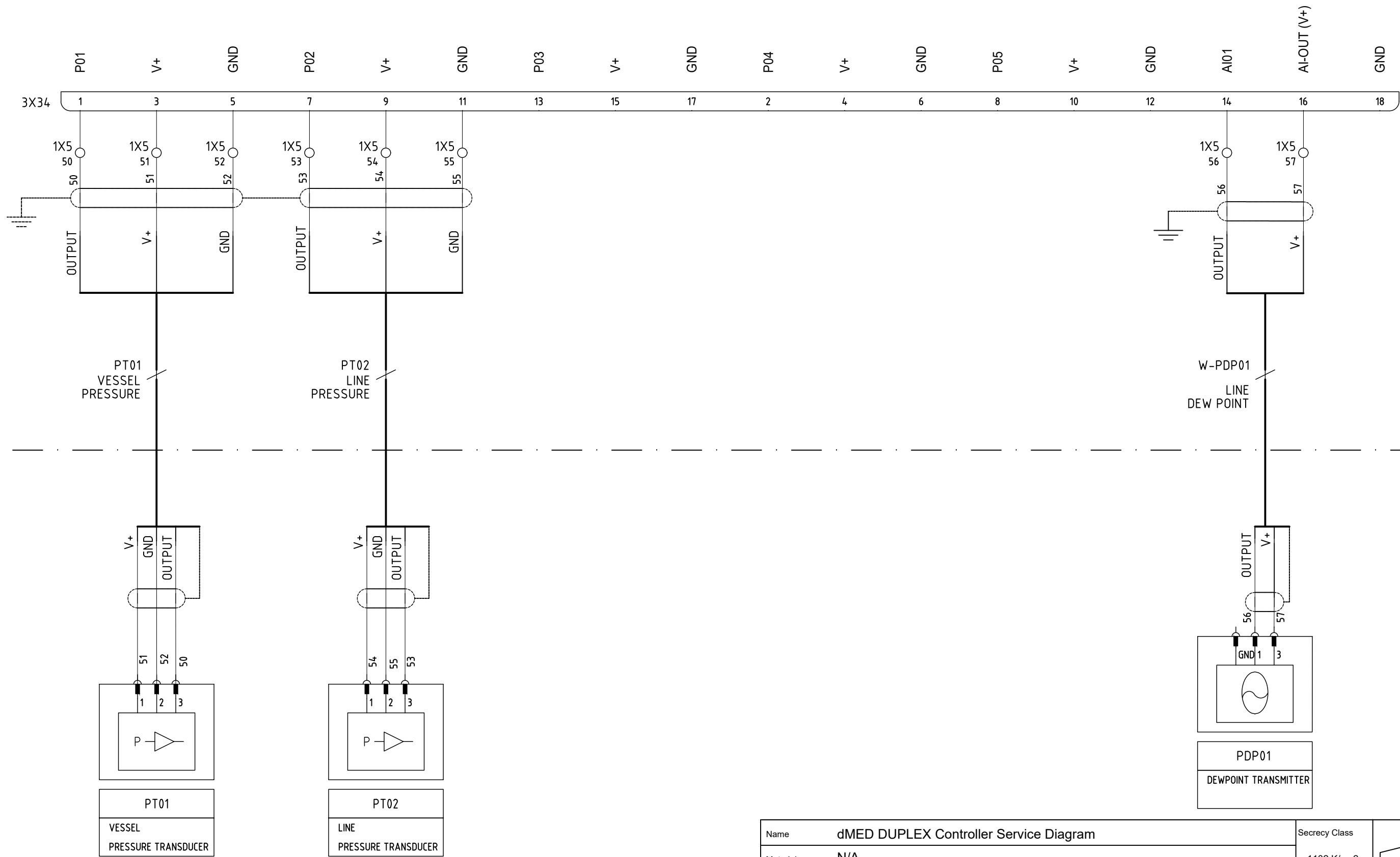


- [G] Remove wire when installing a reserve manifold pressure switch as input.
- [K] Remove wires when installing EWD option as input (Harness 2212 0216 18).
- [L] Remove wires when installing Filter option as input (Harness 2212 0216 30).

Name		dMED DUPLEX Controller Service Diagram				Security Class		
Material		N/A				1102 K/ 2		
Treatment		N/A				ACD		
Tolerances, if not indicated, according to:		Scale		Family		A3		Drawing owner
ATLAS COPCO STANDARD Class		--		0				
STATUS		Drawn by		Blank nr.		Replaces		ACM
ISSUED		GCFJTN		0				
Version Drwg		Blank wt.		Kg		Fini wt.		Designation
4.0		0				0		
Des checked		Prod checked		Approved		Date		2212 0215 09
						10-05-19		
Note		Position		Parent 3D Model		Ed.Version 3D		Sheet 06 OF 16
Modified from		Date		Intr./Appd.		Parent 3D Model		

4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFJPB			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	

E2 Expansion module IO2



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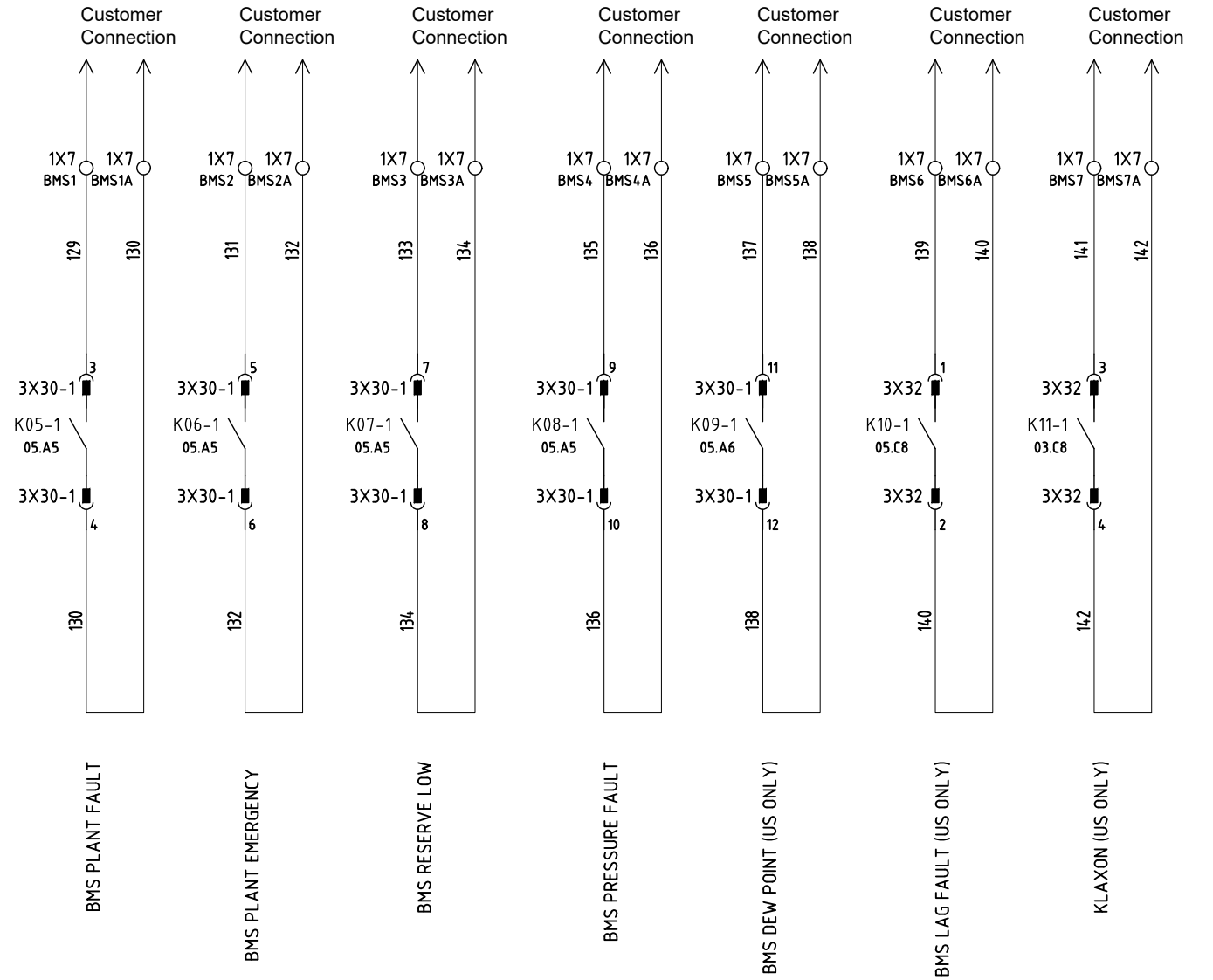
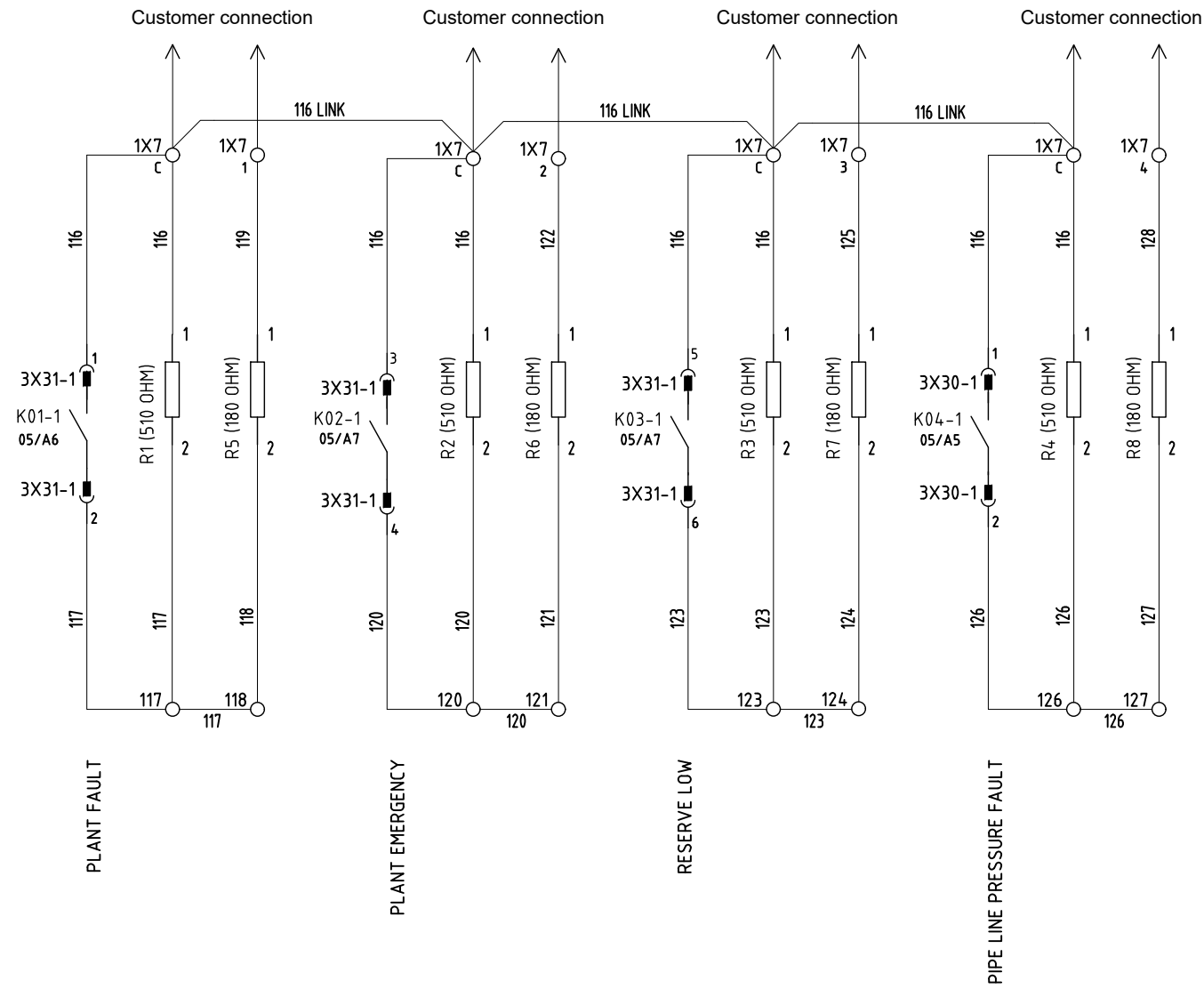
4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFPB			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	

Tolerances, if not indicated, according to:
ATLAS COPCO STANDARD Class

Name dMED DUPLEX Controller Service Diagram						Security Class		
Material N/A						1102 K/ 2		
Treatment N/A						ACD		
Scale -:-			Family 0		A3	Compare		Drawing owner ACM
Drawn by GCFJTN			Blank nr. 0		Replaces			
Version Drwg 4.0			Blank wt. 0 Kg		Fini wt. 0 Kg		Designation Sheet 07 OF 16	
STATUS ISSUED			Des checked		Prod checked		Approved Date 10-05-19	
2212 0215 09								

CONNECTION TO MEDICAL ALARM SYSTEM

POTENTIAL FREE CONTACTS BUILDING MANAGEMENT SYSTEM



PLANT FAULT

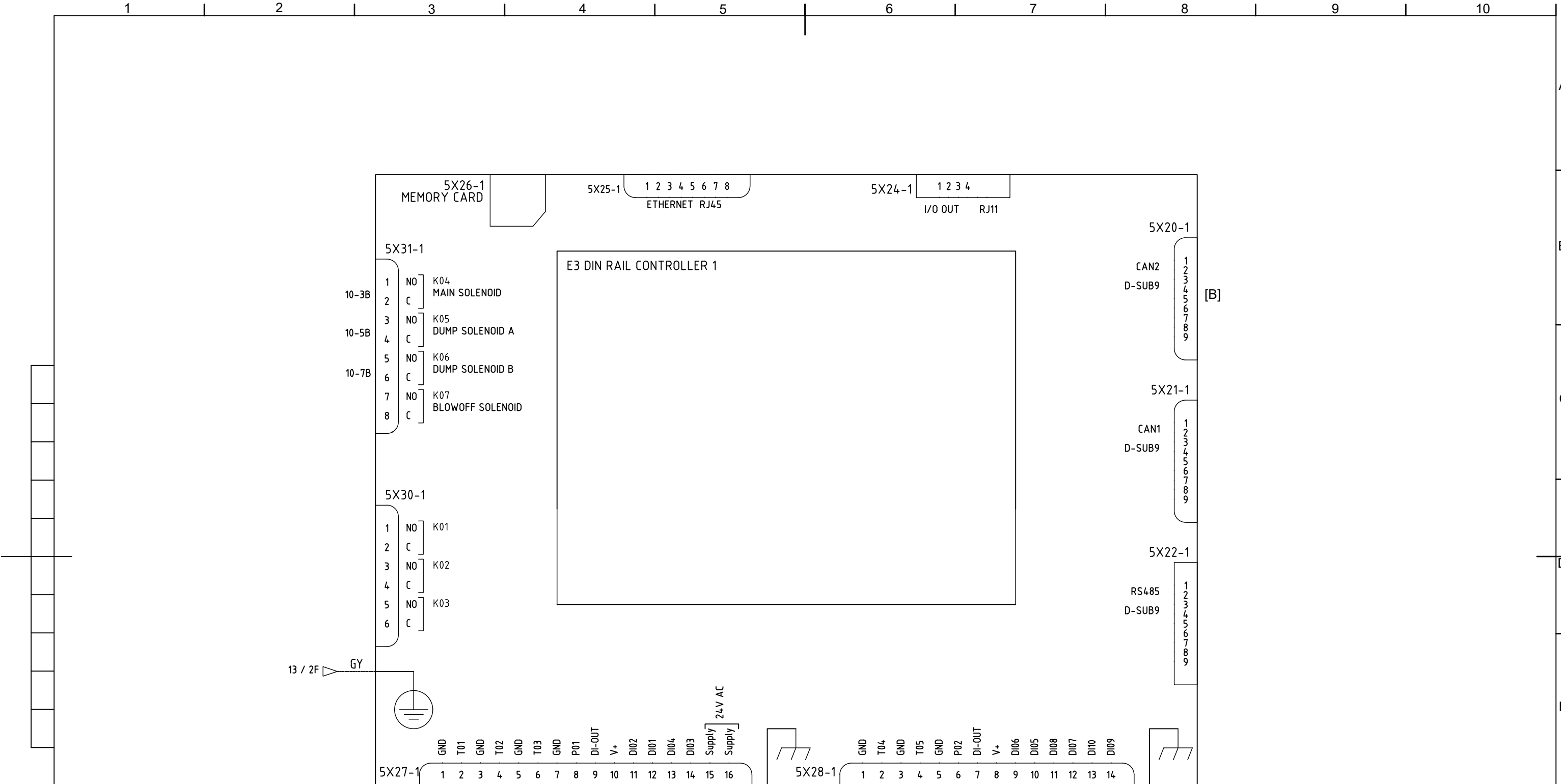
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Name					dMED DUPLEX Controller Service Diagram					Security Class			
Material					N/A					1102 K/ 2			
Treatment					N/A					ACD			
Tolerances, if not indicated, according to:					ATLAS COPCO STANDARD Class							Scale: -- Family: 0 A3 Compare	
Version					4.0					Drawn by: GCFJTN Blank nr.: 0 Replaces		Drawing owner: ACM	
Note					4.0 Various Update drawing references (IAR9925) 06/11/19 GCFPB					STATUS: ISSUED Des checked Prod checked Approved Date: 10-05-19		Designation: 2212 0215 09 Sheet: 08 OF 16	

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Refer Sheet No. 11

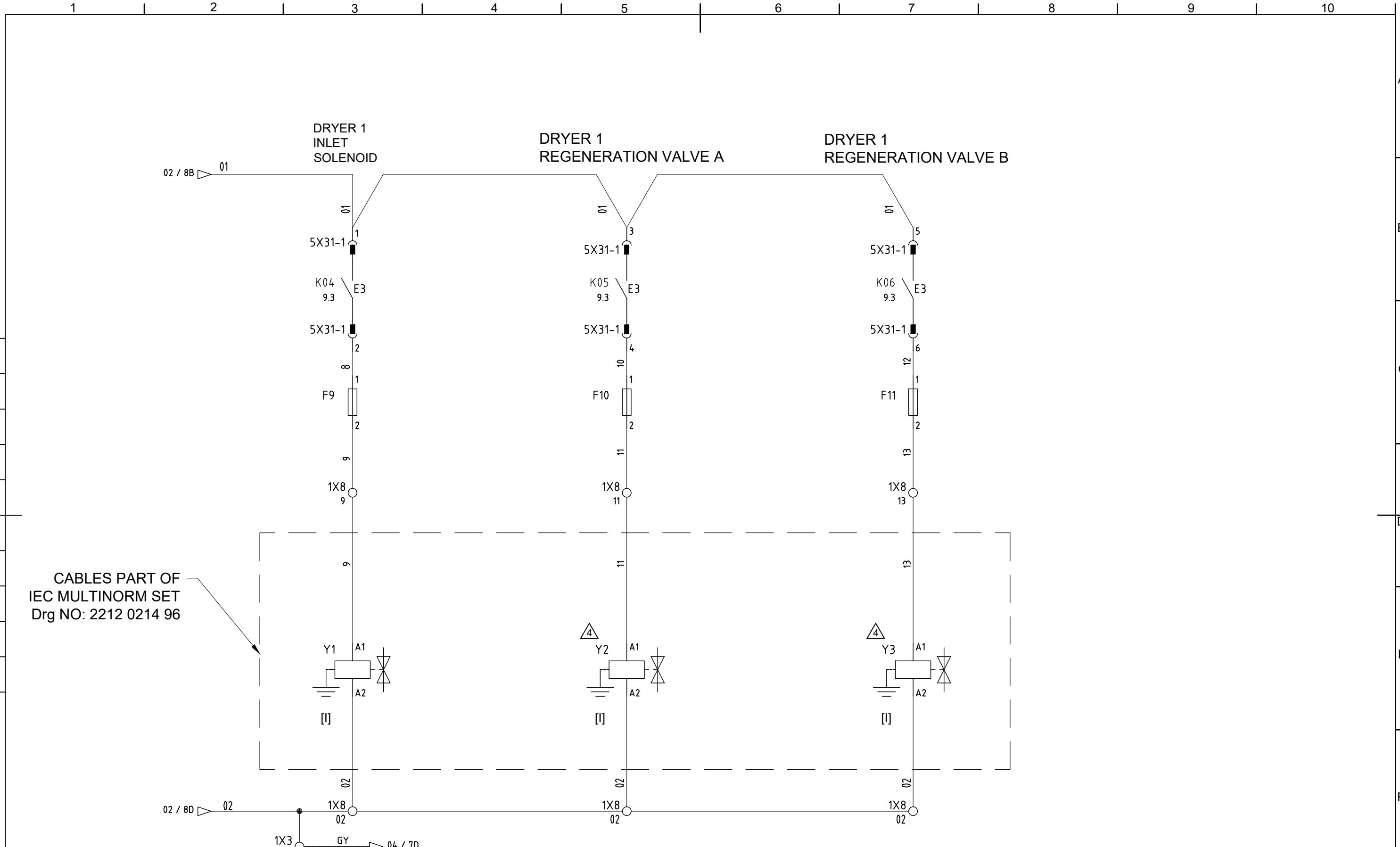
[B] Note: CAN connector 4 of WH 1627 0166 00 need to be connected to CAN2

Name		dMED DUPLEX Controller Service Diagram				Security Class			
Material		N/A				1102 K/ 2			
Treatment		N/A				ACD			
Tolerances, if not indicated, according to:		Scale		Family		A3		Compare	
ATLAS COPCO STANDARD Class		Atlas Copco		0		0		Drawing owner	
Ed. Version 3D		GCFJTN		0		0		ACM	
Version Drwg		4.0		Blank wt.		0 Kg		Fini wt.	
STATUS		ISSUED		Des checked		Prod checked		Approved	
Date		10-05-19		Designation		Sheet		09 OF 16	
Note		Position		Modified from		Date		2212 0215 09	

4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFPB			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed. Version 3D	

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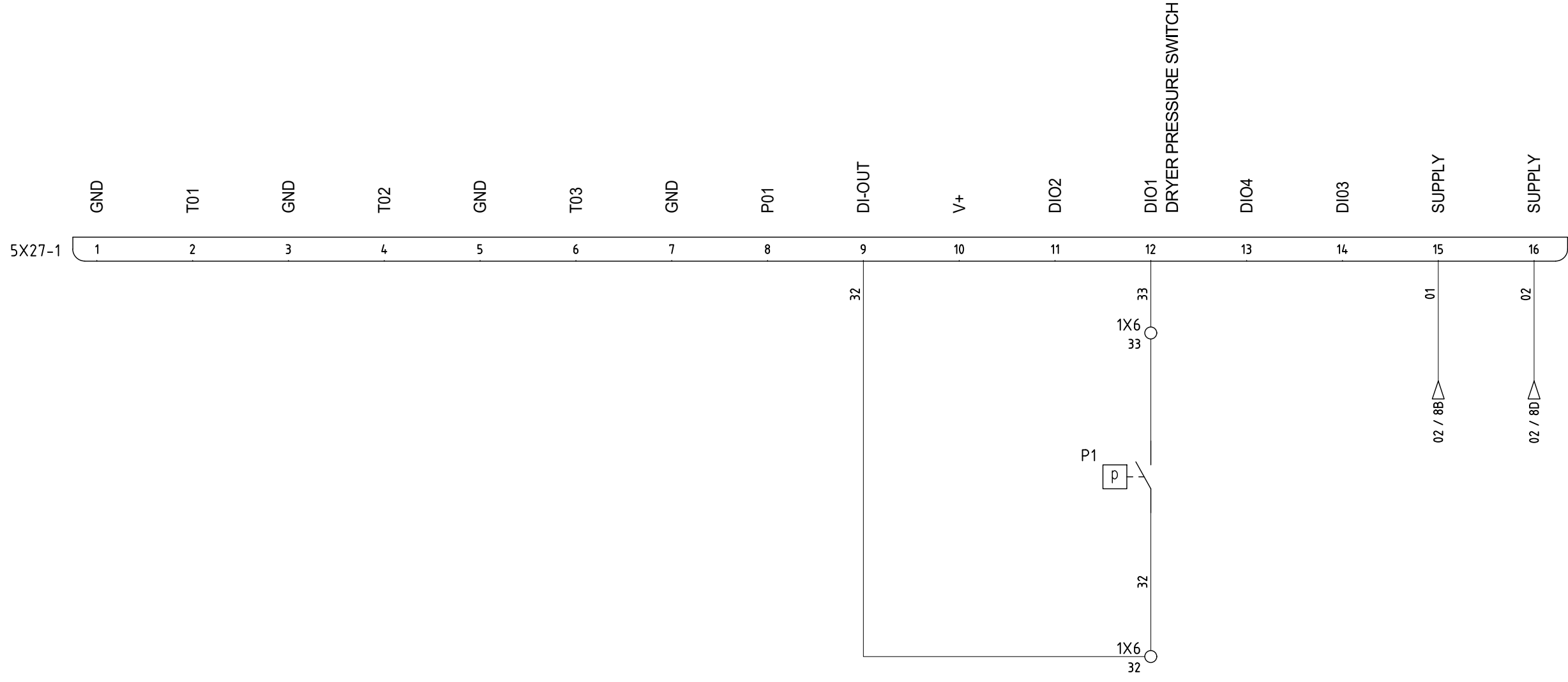
CABLES PART OF IEC MULTINORM SET
Drg NO: 2212 0214 96

Name		dMED DUPLEX Controller Service Diagram				Security Class			
Material		N/A				1102 K/ 2			
Treatment		N/A				ACD			
Scale		--		Family		A3		Compare	
Drawn by		GCFJTN		Blank nr.		0		Replaces	
Version Drwg		4.0		Blank wt.		0 Kg		Fini wt.	
Des checked		Prod checked		Approved		Date		10-05-19	
STATUS		ISSUED		Designation		Sheet		10 OF 16	
Parent 3D Model		Ed.Version 3D		1		2212 0215 09		Drawing owner	
Tolerances, if not indicated, according to:		ATLAS COPCO STANDARD Class		Atlas Copco		ACM			

4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFPB			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	

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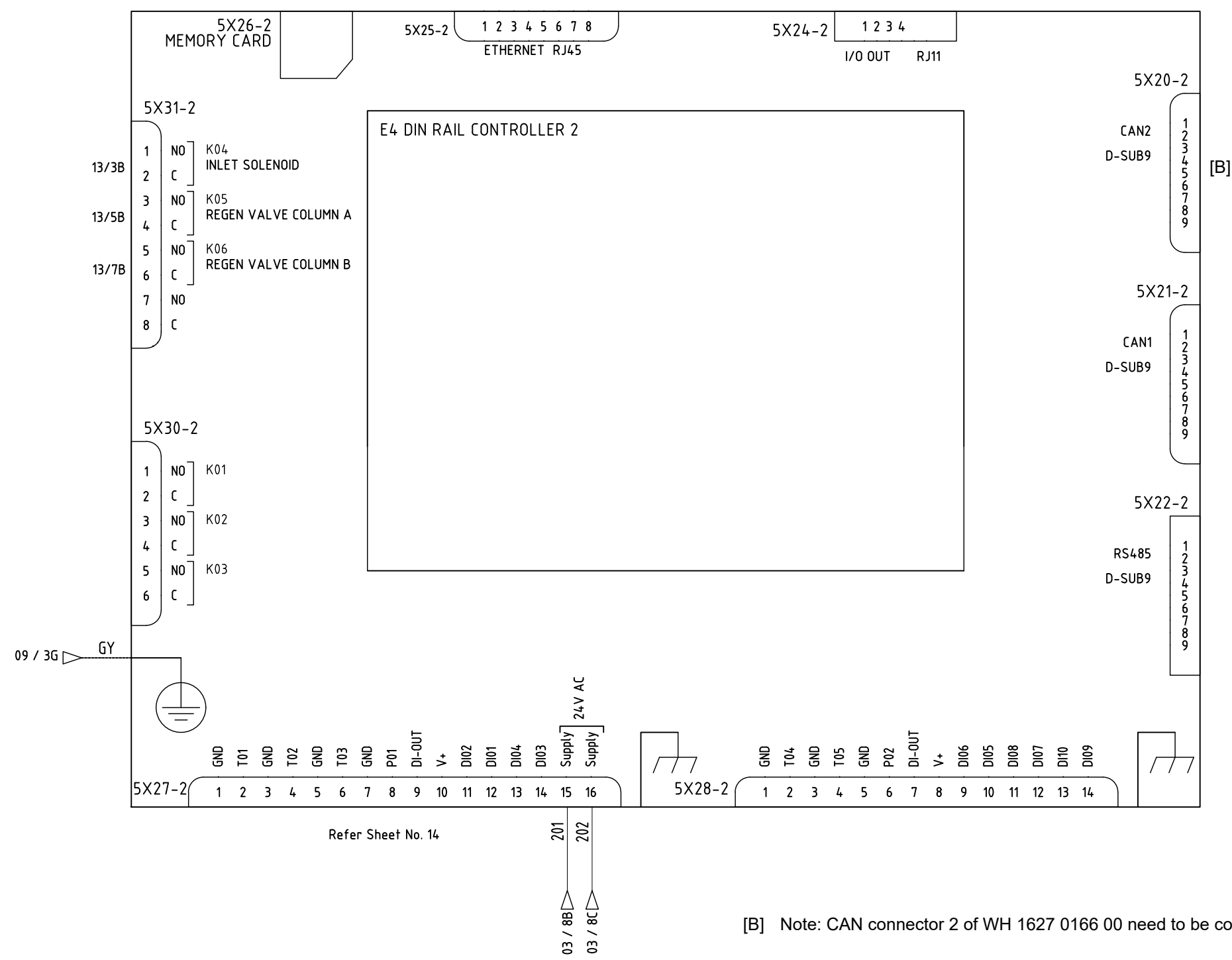


Name										dMED DUPLEX Controller Service Diagram					Security Class																		
Material										N/A					1102 K/ 2																		
Treatment										N/A					ACD																		
Tolerances, if not indicated, according to:										ATLAS COPCO STANDARD Class										Drawing owner													
										Scale		--		Family		0		A3		Compare		ACM											
										Drawn by		GCFJTN		Blank nr.		0		Replaces															
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Note										Position		Modified from		Date		Intr./Appd.		Parent 3D Model		Ed.Version 3D		ISSUED		Des checked		Prod checked		Approved		Date 10-05-19		<h1>2212 0215 09</h1>	

4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFPB			1	
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	ISSUED	Des checked

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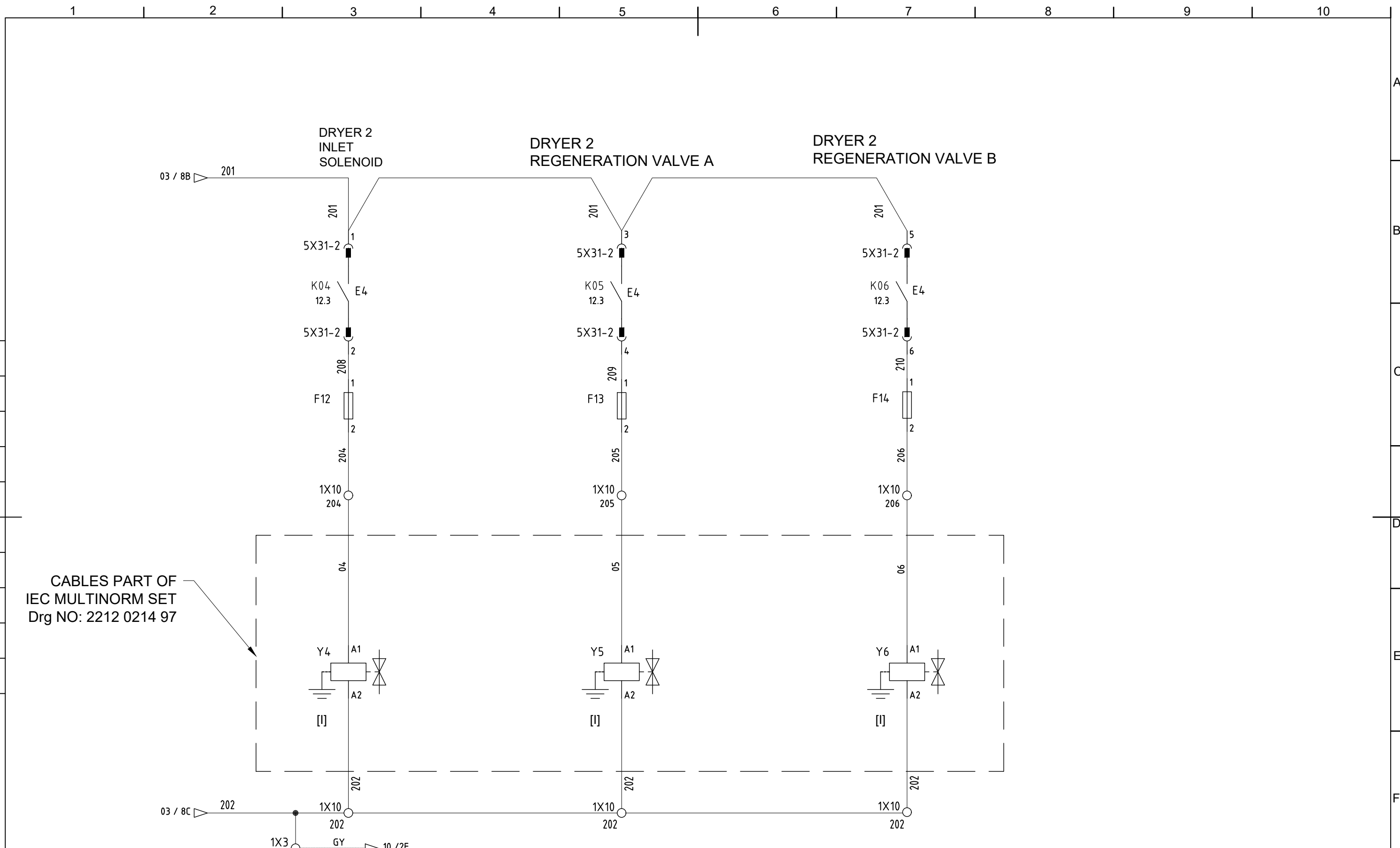


[B] Note: CAN connector 2 of WH 1627 0166 00 need to be connected to CAN2

Name					dMED DUPLEX Controller Service Diagram					Security Class									
Material					N/A					1102 K/ 2									
Treatment					N/A					ACD									
Tolerances, if not indicated, according to:										Scale		Family		A3		Compare		Drawing owner	
ATLAS COPCO STANDARD Class										Atlas Copco		GCFJTN		0		Replaces		ACM	
Version Drwg		4.0		Blank wt.		0 Kg		Fini wt.		0 Kg		Designation		Sheet 12 OF 16					
STATUS		ISSUED		Des checked		Prod checked		Approved		Date		10-05-19		2212 0215 09					
Note		Position		Modified from		Date		Intr./Appd.		Parent 3D Model		Ed.Version 3D		1					
4.0		Various		Update drawing references (IAR9925)		06/11/19		GCFPB											

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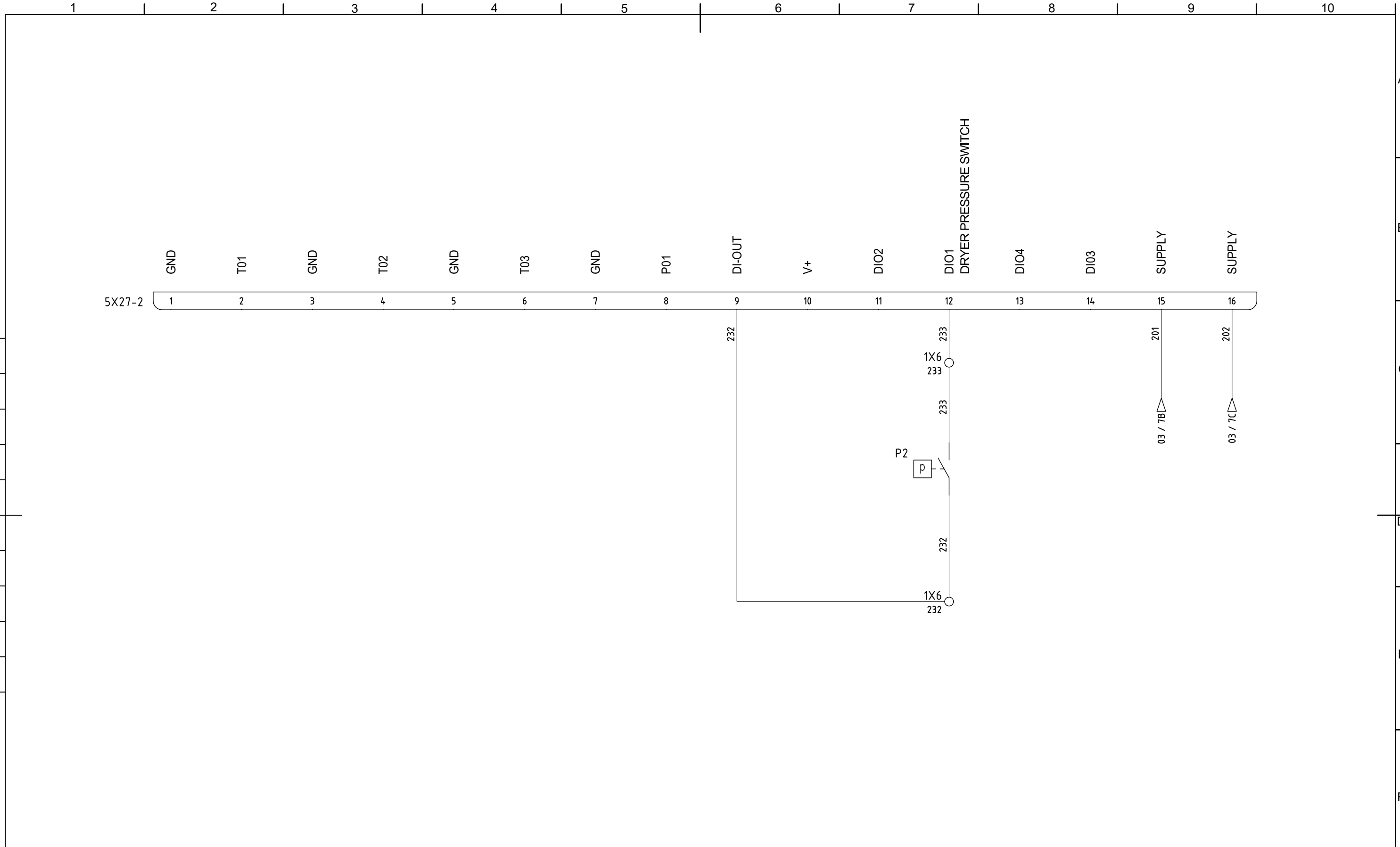
CABLES PART OF
IEC MULTINORM SET
Drg NO: 2212 0214 97

Name		dMED DUPLEX Controller Service Diagram				Security Class			
Material		N/A				1102 K/ 2			
Treatment		N/A				ACD			
Tolerances, if not indicated, according to:		Scale		Family		A3		Compare	
ATLAS COPCO STANDARD Class		--		0				Drawing owner	
		Atlas Copco		0				ACM	
Version Drwg		GCFJTN		Blank nr.		0		Replaces	
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4.0	Various	Update drawing references (IAR9925)	06/11/19	GCFJTN			1	
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D		

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				Tolerances, if not indicated, according to: ATLAS COPCO STANDARD Class						Scale: --		Family: 0		A3		Compare		Drawing owner			
										Drawn by: GCFJTN		Blank nr.: 0				Replaces		ACM			
4.0				Various				Update drawing references (IAR9925)		06/11/19		GCFJTN									
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												Blank wt. 0		Kg		Fini wt. 0		Kg		Designation	
																		Sheet		14 OF 16	
																		2212 0215 09			

A
B
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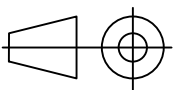
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LEGEND				
LOCATION	TAGNAME	SHEET	DESCRIPTION	FUNCTION
CANOPY	PDP01	7	DEWPOINT TRANSMITTER	
CANOPY	PT01	7	VESSEL	PRESSURE TRANSDUCER
CANOPY	PT02	7	LINE	PRESSURE TRANSDUCER
CANOPY	Y1	10	DRYER 1 INLET SOLENOID VALVE	DRYER 1
CANOPY	Y2 	10	DRYER 1 SIDE A REGENERATION VALVE	DRYER 1
CANOPY	Y3 	10	DRYER 1 SIDE B REGENERATION VALVE	DRYER 1
CANOPY	Y4	13	DRYER 2 INLET SOLENOID VALVE	DRYER 2
CANOPY	Y5	13	DRYER 2 SIDE A REGENERATION VALVE	DRYER 2
CANOPY	Y6	13	DRYER 2 SIDE B REGENERATION VALVE	DRYER 2
CONTROL PANEL	E1	4	REGULATOR	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	2X20	4	CAN2	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	2X21	4	CAN1	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	2X22	4	RS485	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	2X24	4	CONNECTOR	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	2X25	4	ETHERNET	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	2X27	4	CONNECTOR	ELEKTRINOIKON GRAPHIC PLUS
CONTROL PANEL	E3	9	REGULATOR	DIN RAIL CONTROLLER 1 - DRYER 1
CONTROL PANEL	5X27-1	11	CONNECTOR	
CONTROL PANEL	5X31-1	10	CONNECTOR	
CONTROL PANEL	E2	5	EXPANSION MODULE IO2	PURELOGIC GRAPHIC
CONTROL PANEL	3X23	5	CONNECTOR	IO EXPANSION - IO2
CONTROL PANEL	3X30	8	CONNECTOR	DIGITAL OUTPUTS
CONTROL PANEL	3X31	8	CONNECTOR	DIGITAL OUTPUTS
CONTROL PANEL	3X33	6	CONNECTOR	DIGITAL INPUTS
CONTROL PANEL	3X34	7	CONNECTOR	
CONTROL PANEL	3X35	5	CONNECTOR	

LEGEND				
LOCATION	TAGNAME	SHEET	DESCRIPTION	FUNCTION
CONTROL PANEL	F1	2	FUSE	TRANSFORMER 1 PROTECTION
CONTROL PANEL	F2	2	FUSE	TRANSFORMER 1 PROTECTION
CONTROL PANEL	F3	2	FUSES	24VAC CIRCUIT
CONTROL PANEL	F4	2	FUSE	24VAC CIRCUIT
CONTROL PANEL	F5	3	FUSE	TRANSFORMER 2 PROTECTION
CONTROL PANEL	F6	3	FUSE	TRANSFORMER 2 PROTECTION
CONTROL PANEL	F7	3	FUSE	24VAC CIRCUIT
CONTROL PANEL	F8	3	FUSE	24VAC CIRCUIT
CONTROL PANEL	F9	10	FUSE	SOLENOID Y1
CONTROL PANEL	F10	10	FUSE	SOLENOID Y2A
CONTROL PANEL	F11	10	FUSE	SOLENOID Y3A
CONTROL PANEL	F12	10	FUSE	SOLENOID Y4
CONTROL PANEL	F13	13	FUSE	SOLENOID Y5
CONTROL PANEL	F14	13	FUSE	SOLENOID Y6
CONTROL PANEL	F15	2	FUSE	OPTIONS PSU
CONTROL PANEL	F16	2	FUSE	OPTIONS PSU
CONTROL PANEL	F17	2	FUSE	OPTIONS IO EXPANSION - IO34
CONTROL PANEL	F18	2	FUSE	OPTIONS IO EXPANSION - IO34
CONTROL PANEL	E4	12	REGULATOR	DIN RAIL CONTROLLER 2
CONTROL PANEL	5X27-2	14	CONNECTOR	DIN RAIL CONTROLLER 2
CONTROL PANEL	5X31-2	13	CONNECTOR	DIN RAIL CONTROLLER 2
CONTROL PANEL	P1	11	DRYER PRESSURE SWITCH	
CONTROL PANEL	T1	2	MAIN TRANSFORMER	CONTROL CIRCUIT
CONTROL PANEL	T2	3	MAIN TRANSFORMER	CONTROL CIRCUIT
CONTROL PANEL	P2	14	DRYER PRESSURE SWITCH	
CUSTOMER	S0	2	MAIN SWITCH	CUSTOMER INSTALLATION
CUSTOMER	S0-1	3	MAIN SWITCH	CUSTOMER INSTALLATION

4.0	Various	Update drawing references (TCR9925)	06/11/19/	GCFPB			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	

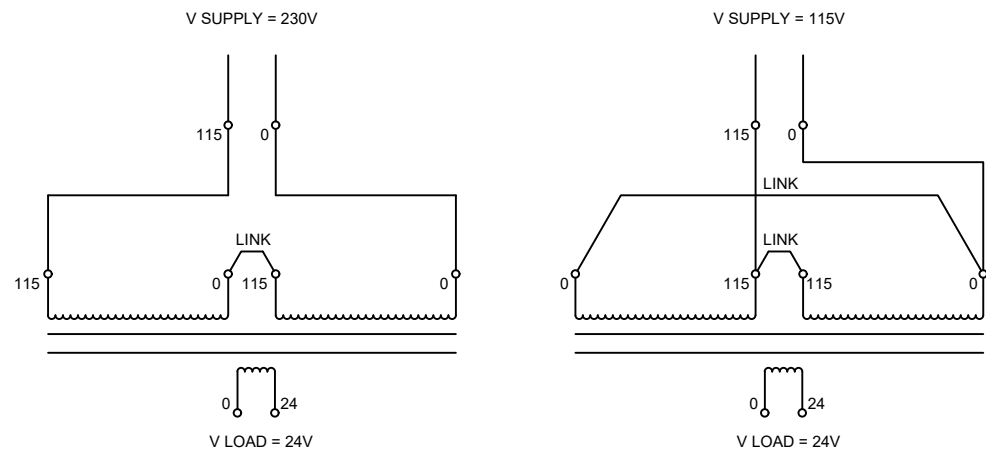
Tolerances, if not indicated, according to:
ATLAS COPCO STANDARD Class

Name		dMED DUPLEX Controler Service Diagram			Secrecy Class				
Material		N/A			1102 K/ 2				
Treatment		N/A			ACD				
Scale		--		Family		0		A3	
Drawn by		GCFJTN		Blank nr.		0		Replaces	
Version Drwg		4.0		Blank wt.		0 Kg		Fini wt.	
STATUS		ISSUED		Des checked		Prod checked		Approved	
Date		10-05-19		Designation		Sheet		15 OF 16	
								2212 0215 09	
								Drawing owner	
								ACM	

NOTES :

- [A] Maximum fuses with regard to short circuit protection of starter.
- [B] Note: CAN connector 2 of WH 1627 0166 00 need to be connected to CAN2
- [C] For field wiring: use copper wire only
- [E] Tightening torque of bolts:
 For contactors
 metric thread size M6 8Nm (6lbft)
 metric thread size M8 20Nm (15lbft)
 metric thread size M10 40Nm (29lbpf)

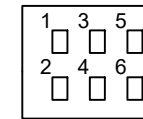
 For terminal
 metric thread size M6 3Nm (2lbft)
 metric thread size M8 6Nm (4lbft)
 metric thread size M10 10Nm (7lbft)
- [F] Transformer connections for 115 or 230V supply



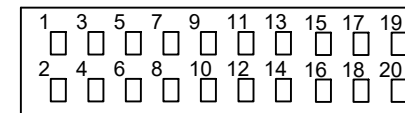
- [G] Remove wire when installing a reserve manifold pressure switch as input
- [H] Note: CAN connector 3 of WH 1627-0166-00 need to be connected to CAN2
- [I] F.P.C.Field Provided Components 24VAC
- [J] OPTION - service diagram 2212 0216 12
- [K] OPTION - service diagram 2212 0216 18
- [L] OPTION - service diagram 2212 0216 30

Marking of connectors

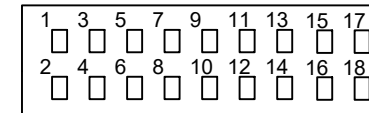
3X31



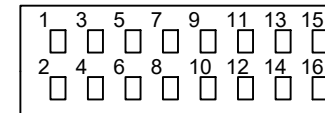
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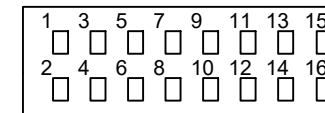
3X34



5X27-1



5X27-2



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Name		dMED DUPLEX Controller Service Diagram				Secrecy Class			
Material		N/A				1102 K/ 2			
Treatment		N/A				ACD			
Tolerances, if not indicated, according to:		Scale		Family		A3		Compare	
ATLAS COPCO STANDARD Class		--		0				Drawing owner	
				0				ACM	
Version Drwg		GCFJTN		Blank nr.		0		Replaces	
4.0		0		Kg		0		Kg	
STATUS		Des checked		Prod checked		Approved		Date	
ISSUED								10-05-19	
Designation		Sheet		16		OF		16	
2212 0215 09									

4.0	Various	Update drawing references	06/11/19	GCFPB			1
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	

SH	DESCRIPTION
1	INDEX
2	POWER CIRCUIT
3	POWER CIRCUIT
4	SUPPLY CIRCUIT CONTROL
5	CONTROL CIRCUIT
6	CONTROL CIRCUIT CONVERTER
7	REGULATOR MK5 (OPTIONAL)
8	REGULATOR MK5S
9	SMARTBOX
10	INPUT CONNECTIONS 2X27
11	INPUT CONNECTIONS 2X28
12	OPTIONAL CONTACTS
13	LEGEND
14	LEGEND
15	NOTES

INSTALLED	OPTIONAL COMPONENTS
	Smartbox U2: 24VDC supply E10: smartbox
	Energy recovery TT53 : Temp. sensor energy recovery IN TT54 : Temp. sensor energy recovery OUT

MAIN POWER SUPPLY

VOLTAGE : V
FREQ : Hz 3 PH

MAX FUSE A		
	380-400-460 V	200-230-500-575 V
IEC	aR	gL/gG
UL	Class T	Class K5
CSA	Class T	HRC Form II

Use of Circuit Breaker i.s.o. Main Fuses is not allowed.

SETTINGS

Q15	1.6 A
-----	-------

FUSE VALUES

F4	1.25 A
F5	1.25 A
F6	1.25 A
F35	... A
F36	... A
F37	... A

MOTOR DATA CSA/UL ONLY

M1	kW	HP	SF : 1.25
M2	kW	HP	

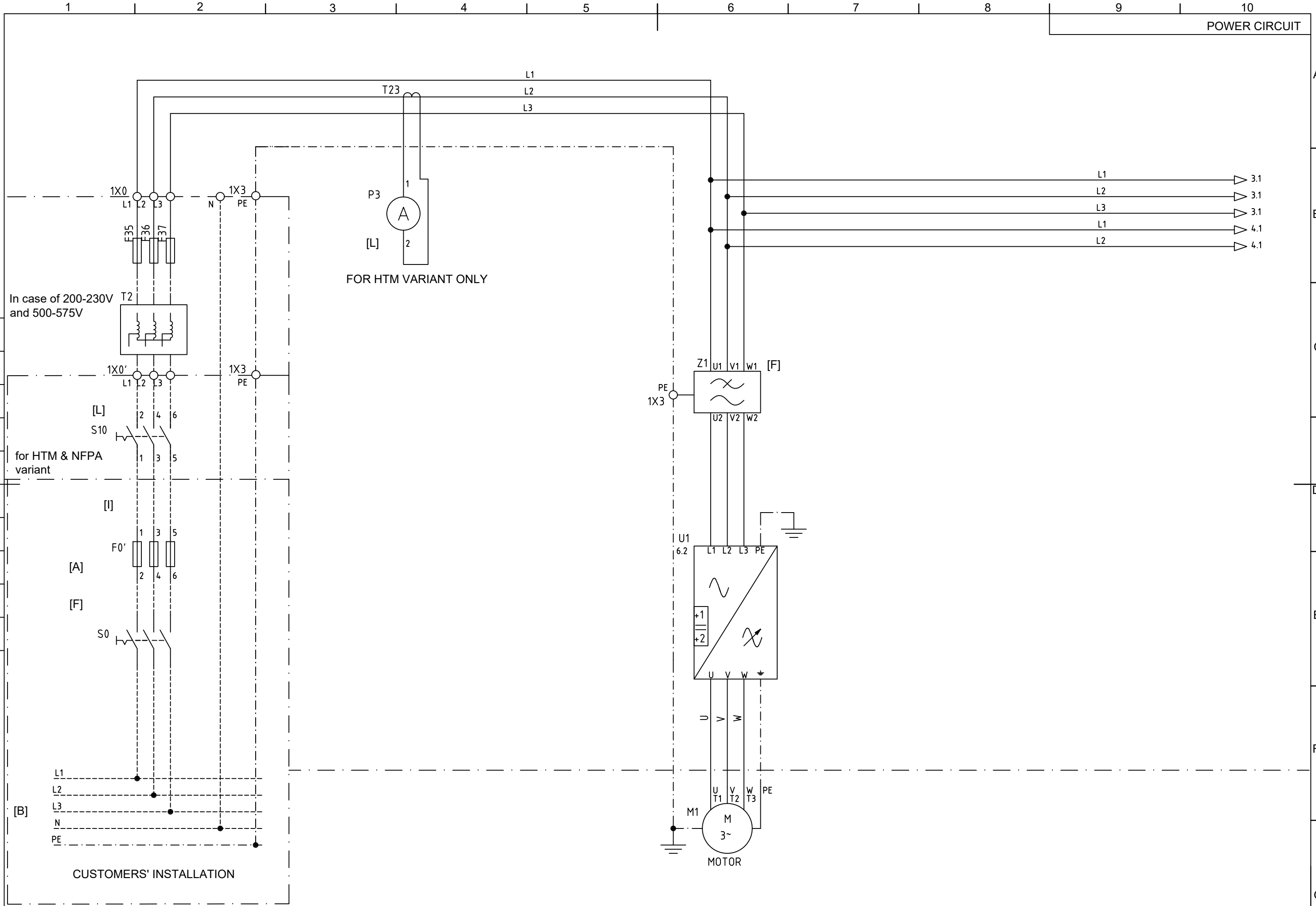
All materials supplied are in compliance with the requirements of the List of Prohibited Substance

Name	DIAGRAM SERVICE	GA18-30VSD+ MED ISO/HTM/NFPA	Confidentiality Class	1102 K/ Internal						
Material	Not Applicable			ACDE						
Treatment	Not Applicable									
	Scale	1:1	Family	Not Applicable	A3	Compare	Drawing owner API			
STATUS	Drawn by	ATLASCOPCO\INEB	Blank nr.	Not Applicable		Replaces				
	Version Drwg	00	Blank wt.	N/A	Kg	Fini wt.	0	Kg	Designation	Sheet 01 (15)
	Des checked.		Prod checked.		Approved.	Date	16/04/2020 13:09:47	9820707130		

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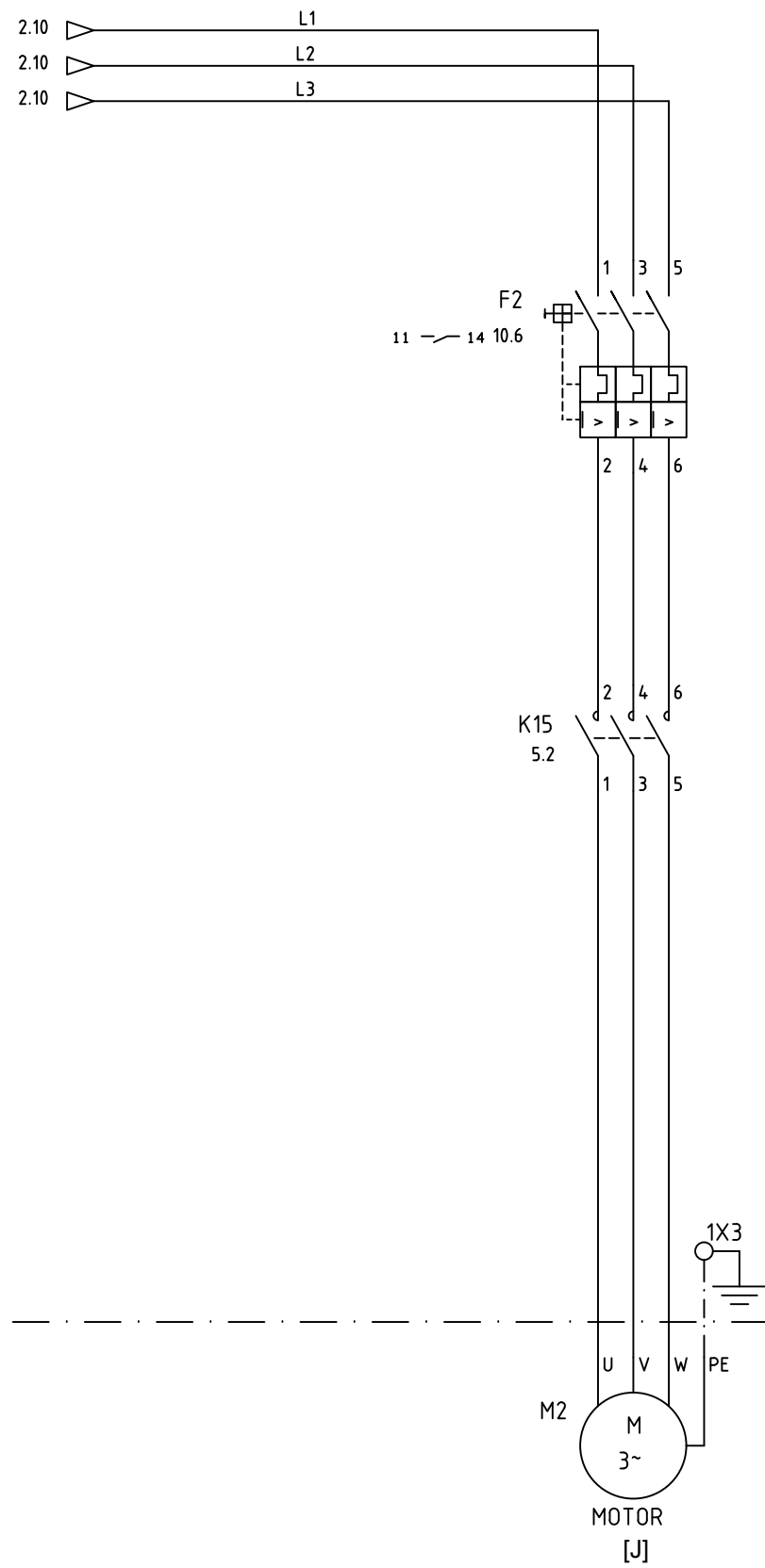
00	First Release					Not Applicable	Not Applicable
Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D	Approved Internal



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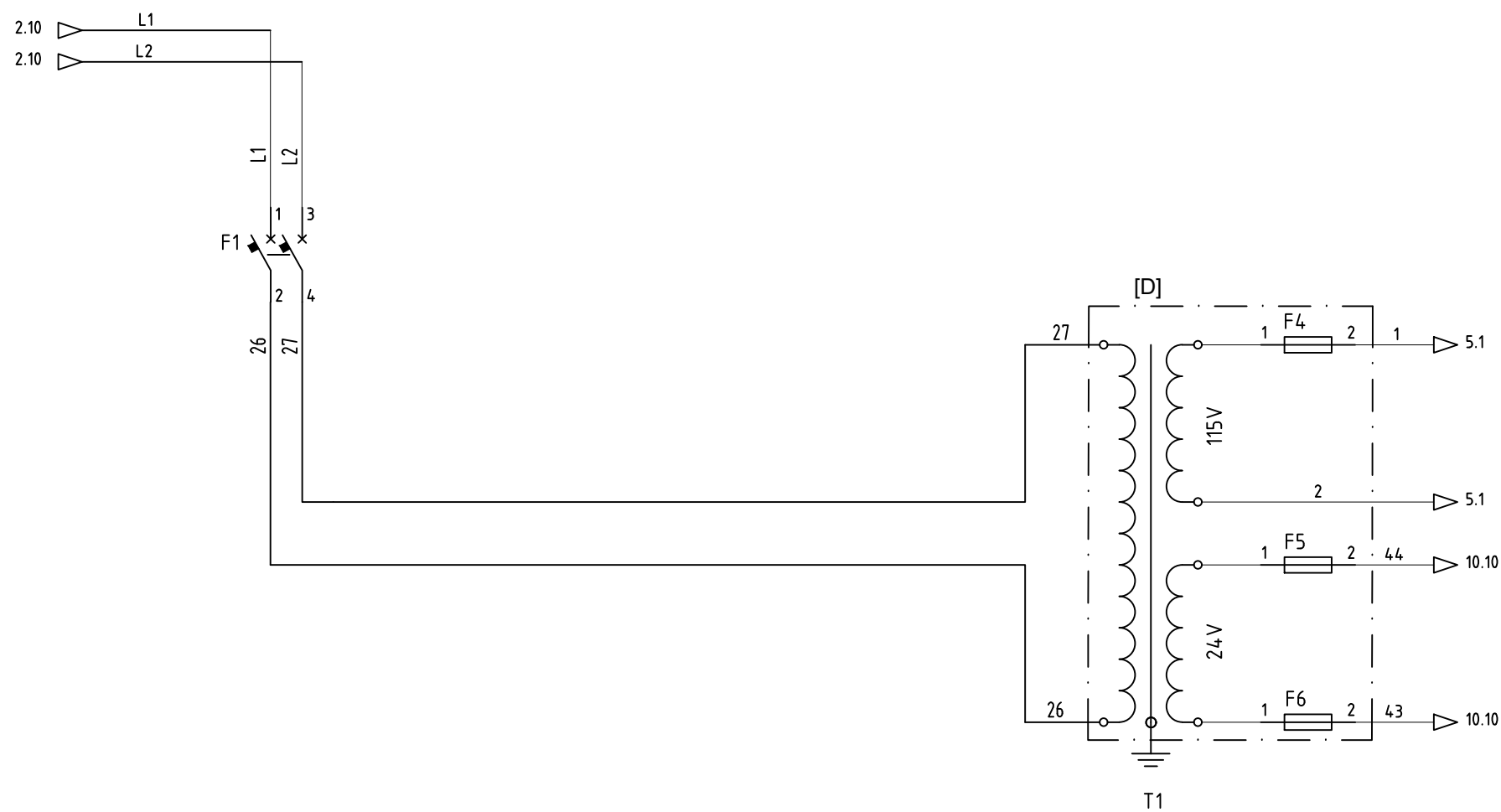
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	Drawing owner API				Approved Internal	00		Drawn by ATLASCOPCO\INE	Date 2020/04/20 13:09:59		9820707130	



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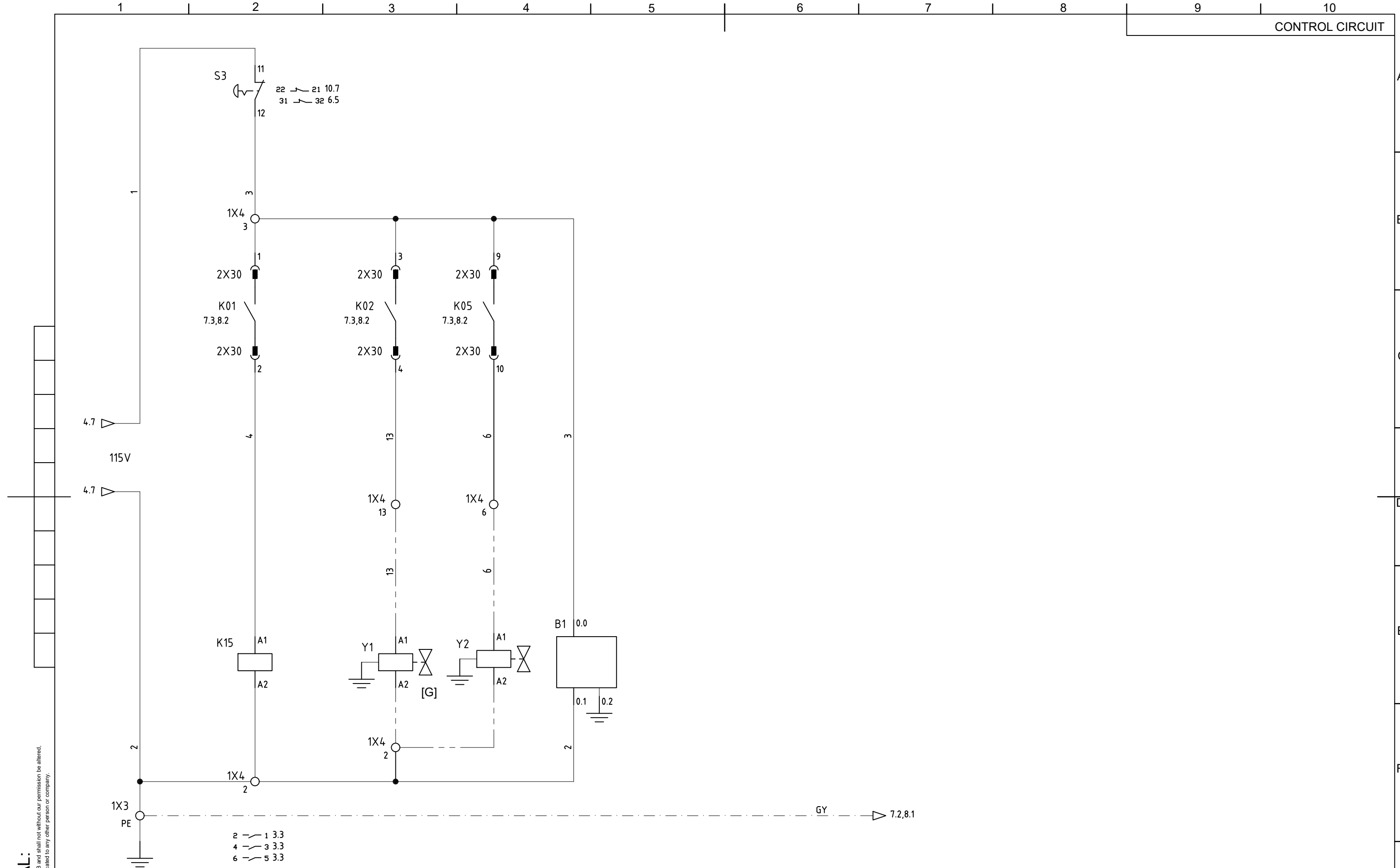
	ACDE	Name	DIAGRAM SERVICE	GA18-30VSD+ MED ISO/HTM/NFPA	STATUS	Ed.	Date	Prev. Page 2	Next Page 4	A3	Designation	Sheet 3 (15)
	Drawing owner API				Approved Internal	00		Drawn by ATLASCOPCO\INE	Date 2020/04/20 13:10:14		9820707130	



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	ACDE	Name	DIAGRAM SERVICE	GA18-30VSD+ MED ISO/HTM/NFPA	STATUS	Ed.	Date	Prev. Page 3	Next Page 5	A3	Designation	Sheet 4 (15)
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	Drawing owner API				Approved Internal	00		Drawn by ATLASCOPCO\INE	Date 2020/04/20 13:10:33		9820707130	

1

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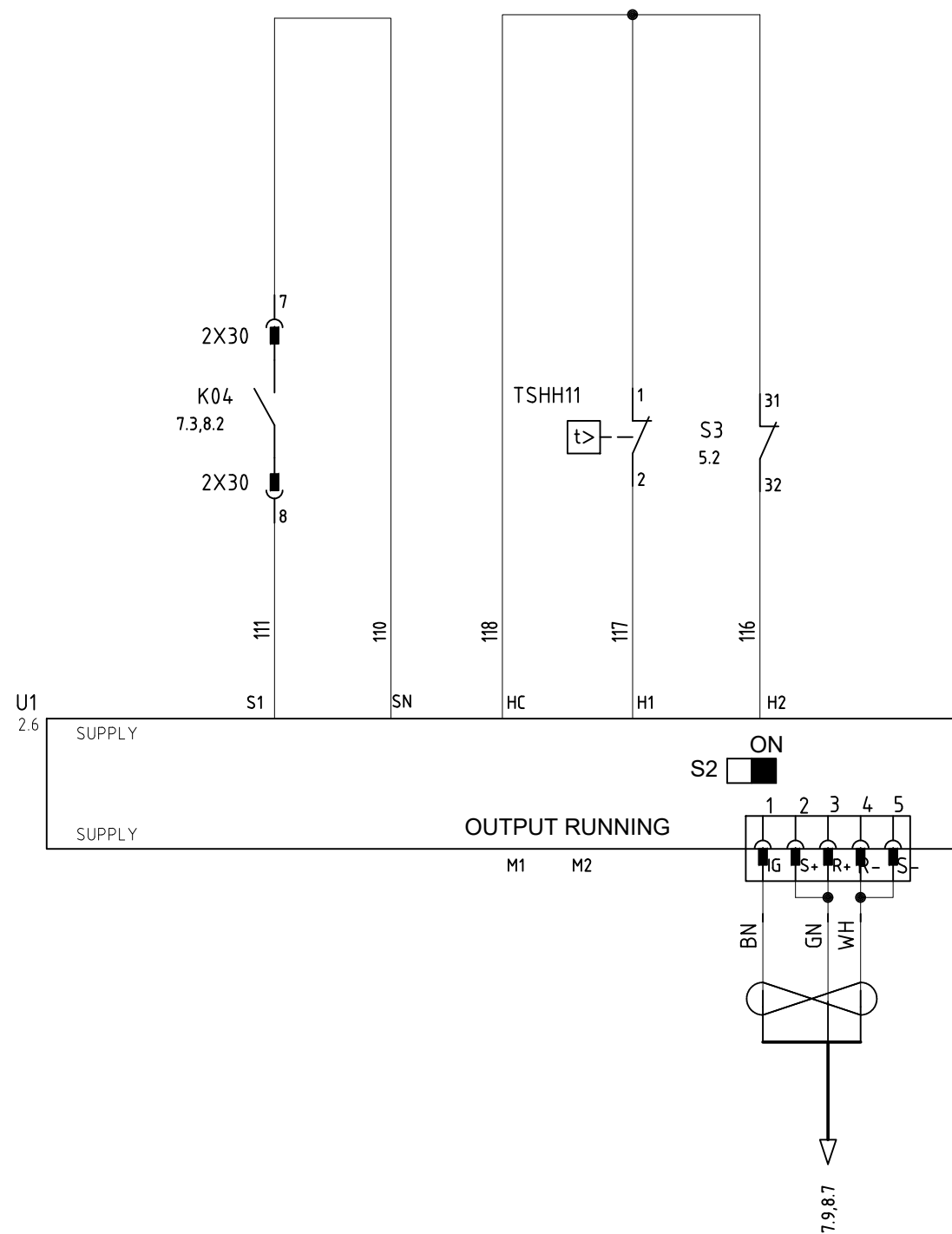
8

9

10

CONTROL CIRCUIT CONVERTER

CONVERTER CONTROL



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ACDE
Drawing owner API

Name	DIAGRAM SERVICE	GA18-30VSD+ MED ISO/HTM/NFPA
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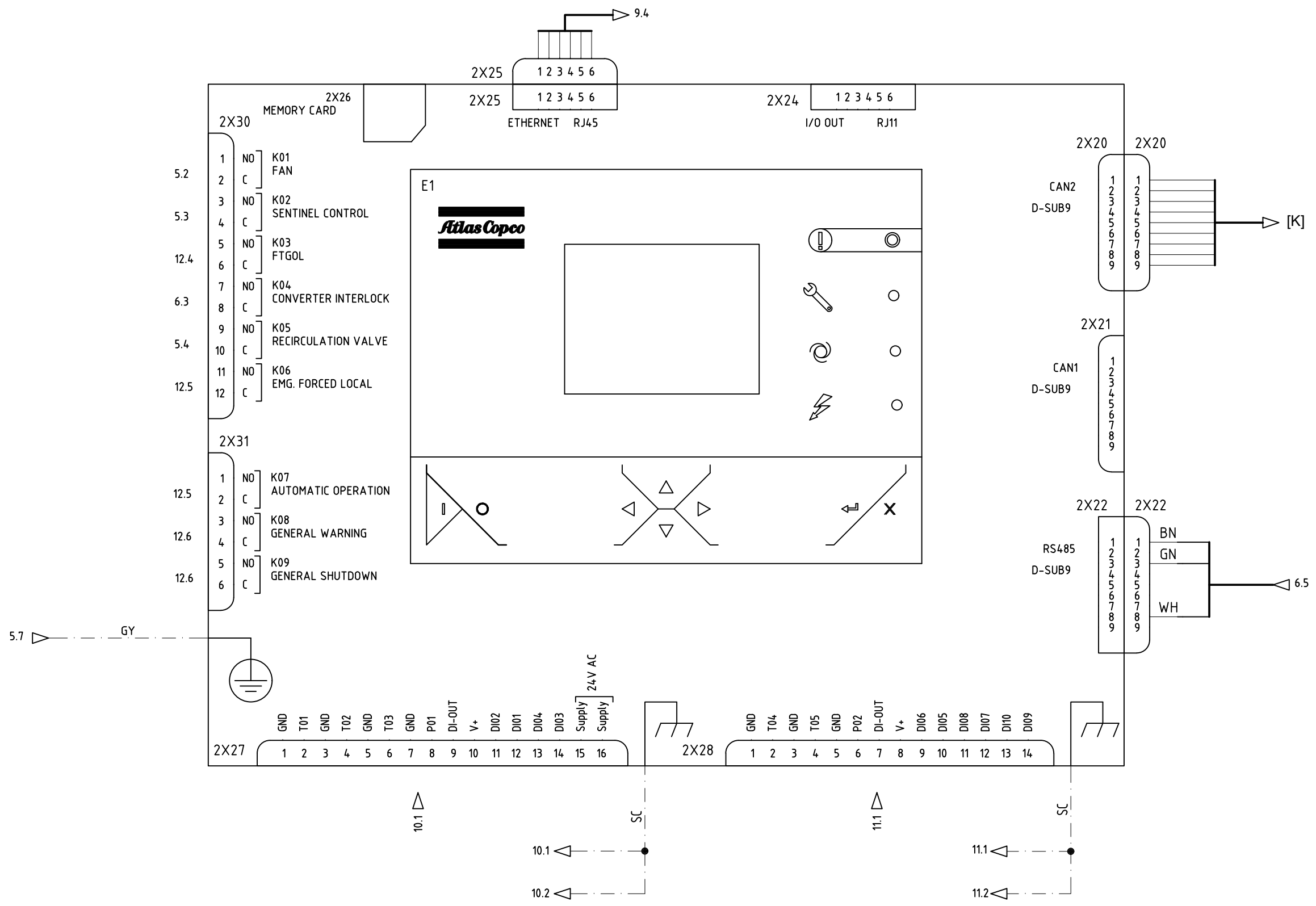
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Approved Internal	00	

Prev. Page	5
Next Page	7

Drawn by	Date
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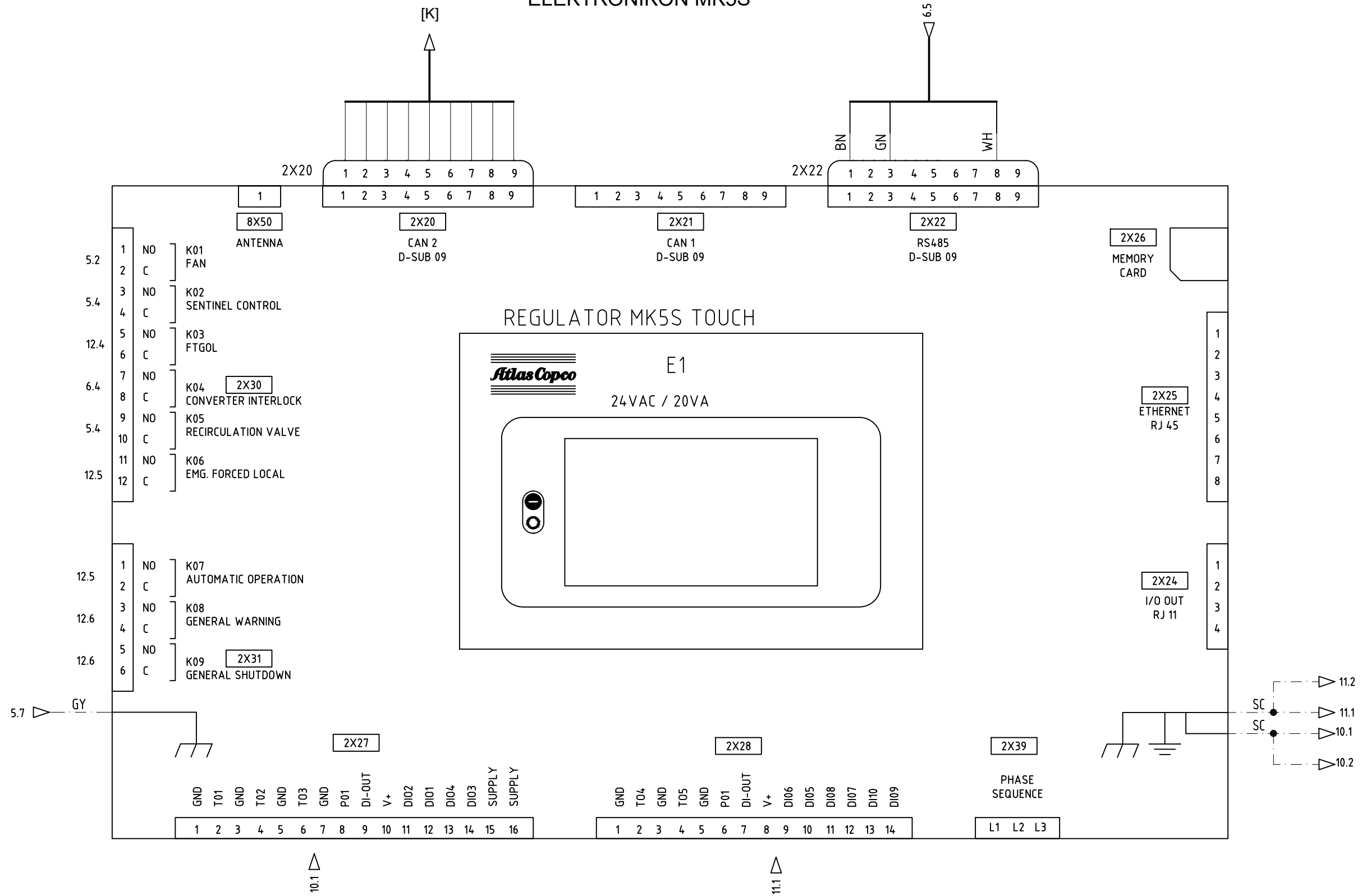
Designation	Sheet 6 (15)
9820707130	

ELEKTRONIKON Mk5 GRAPHIC



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ELEKTRONIKON MK5S



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ACDE
Drawing owner
API

Name
DIAGRAM SERVICE

GA18-30VSD+ MED ISO/HTM/NFPA

STATUS
Approved Internal

Ed. 00
Date

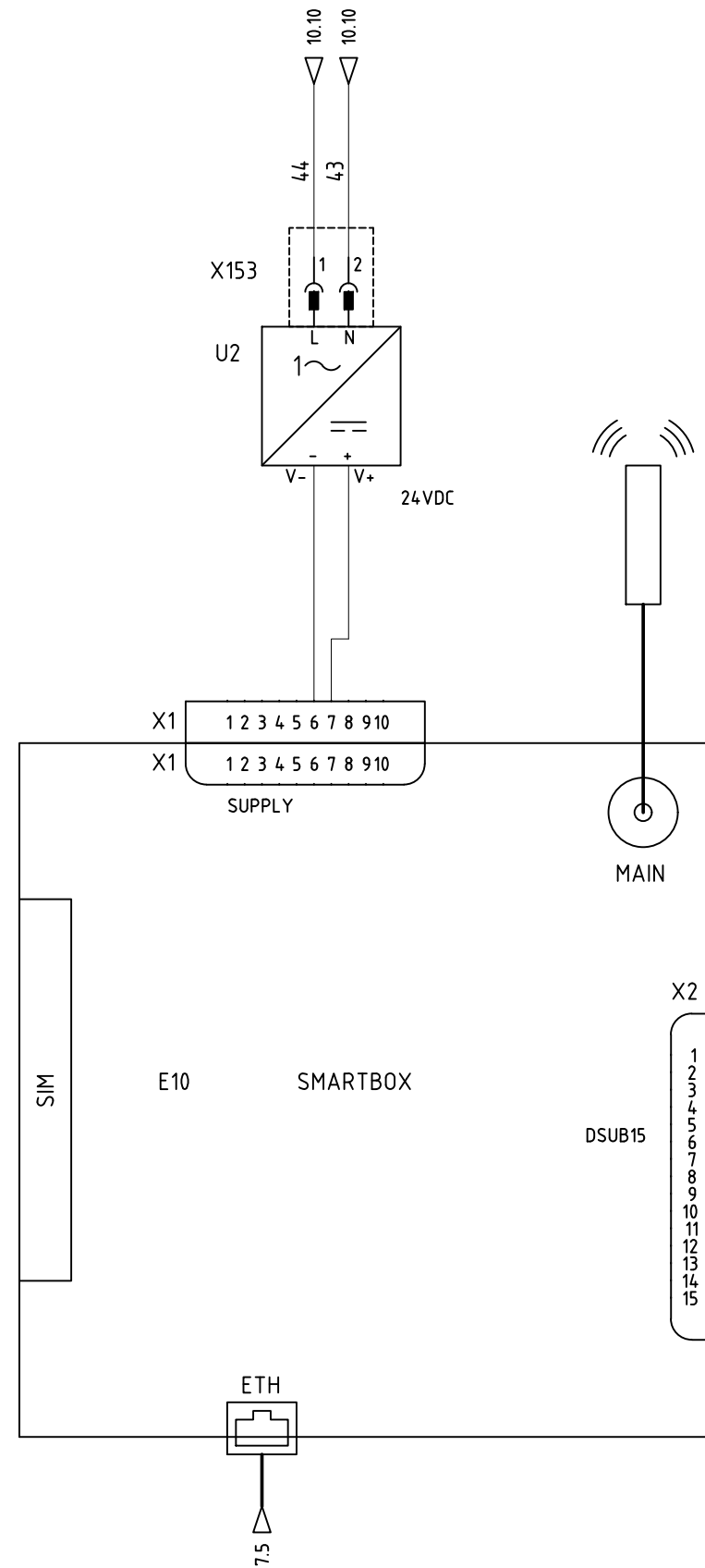
Prev. Page 7
Date
ATLAS COPCO

Next Page 9
Date
2020 13:11:00

A3 Designation
Sheet 8 (15)
9820707130

SMARTBOX OPTIONAL

SMARTBOX



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API

Name DIAGRAM SERVICE

GA18-30VSD+ MED ISO/HTM/NFPA

STATUS

Ed.

Date

Prev. Page 8

Next Page 10

A3

Designation

Sheet 9 (15)

Approved Internal

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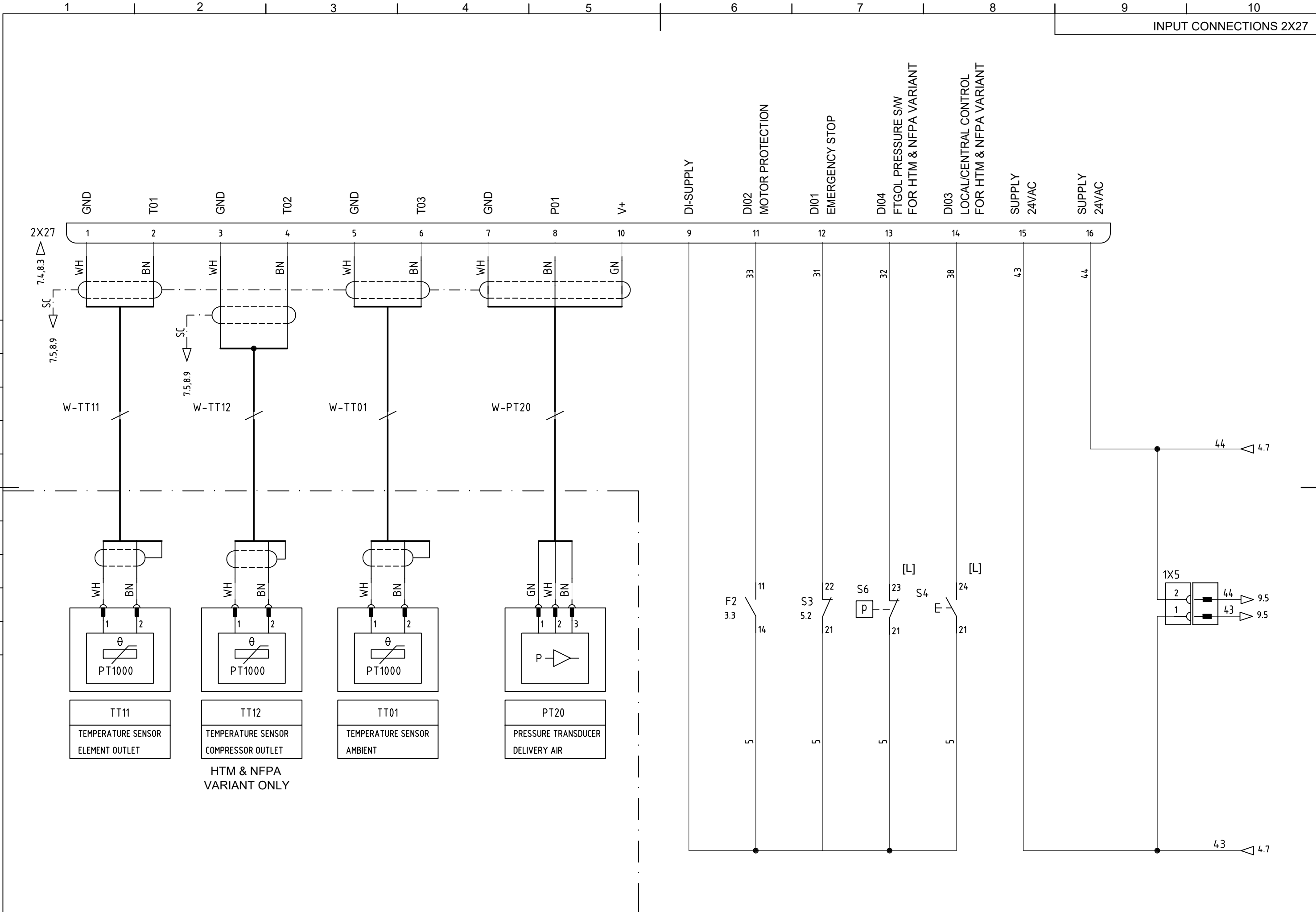
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ATLASCOPCO\INE

Date
2020/04/20 13:11:15

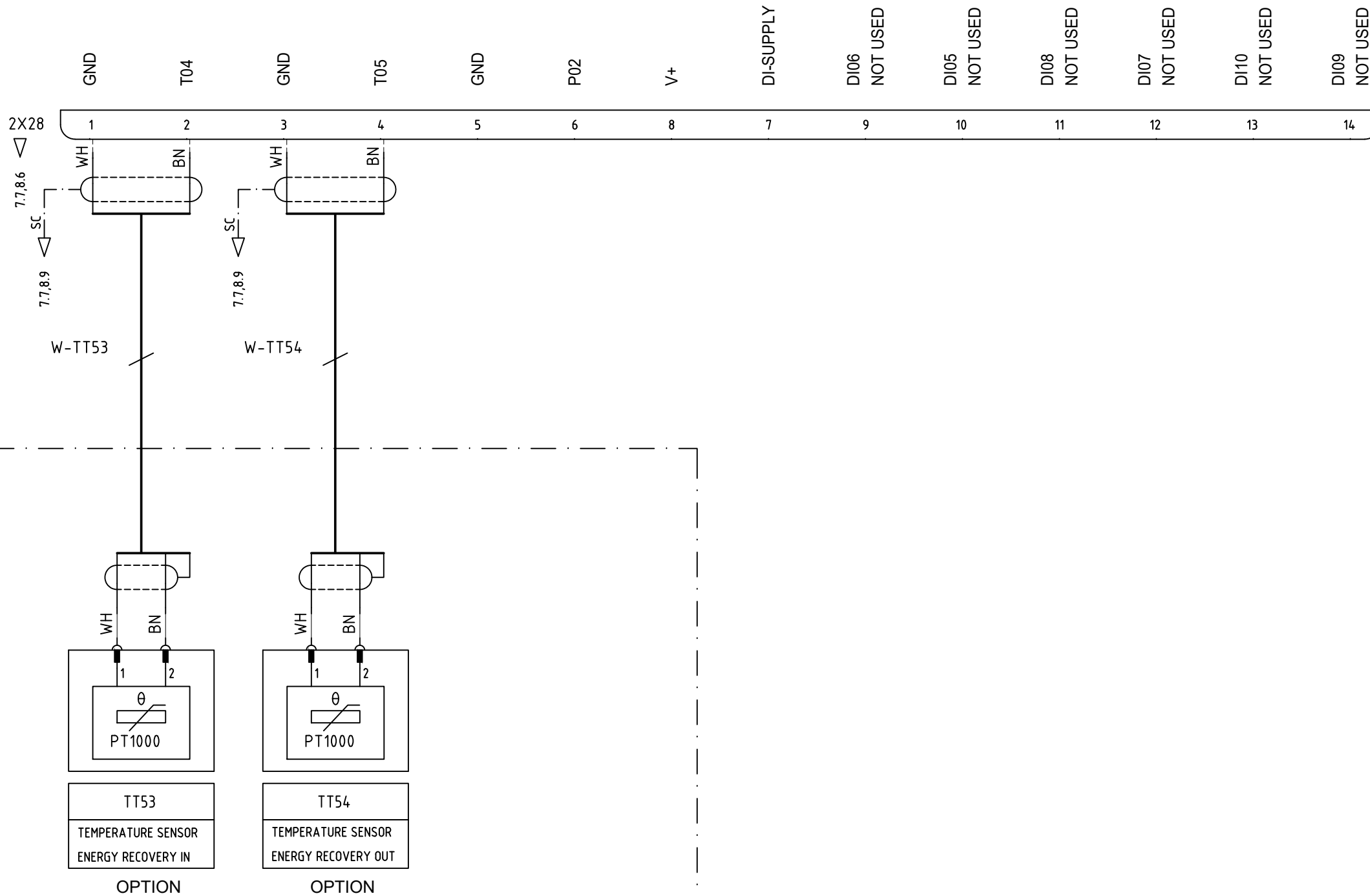
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	ACDE	Name	DIAGRAM SERVICE	GA18-30VSD+ MED ISO/HTM/NFPA	STATUS	Ed.	Date	Prev. Page	9	Next Page	11	A3	Designation	Sheet 10 (15)
	Drawing owner	API			Approved Internal	00		Drawn by	ATLASCOPCO\INE	Date	2020/04/20 13:11:32		9820707130	



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Drawing owner
API

Name DIAGRAM SERVICE

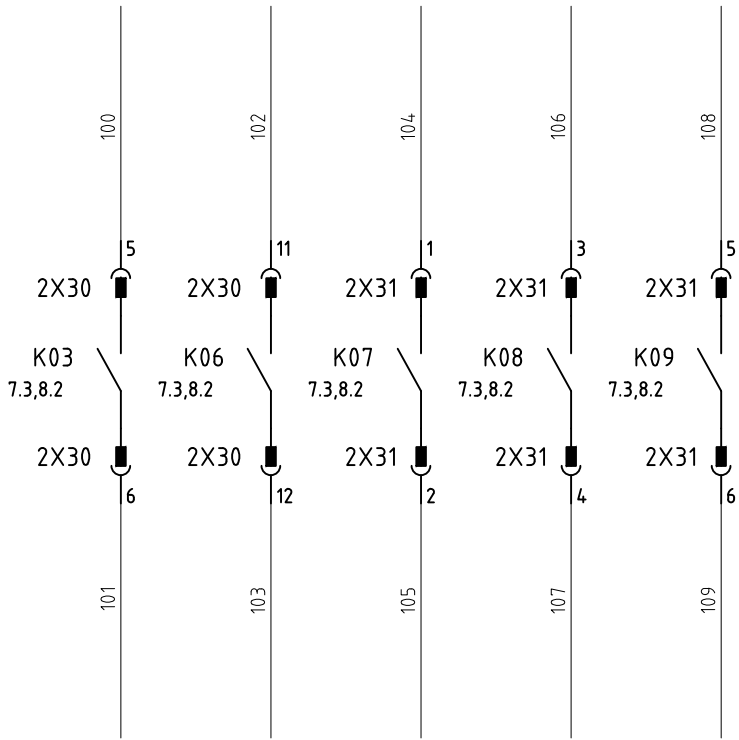
GA18-30VSD+ MED ISO/HTM/NFPA

STATUS	Ed.	Date	Prev. Page 10	Next Page 12	A3
Approved Internal	00		Drawn by ATLASCOPCO\INE	Date 2020/04/20 13:11:41	

Designation Sheet 11 (15)

9820707130

POTENTIAL FREE CONTACTS
(250VAC 10A AC11)



FAILED TO GO ON LOAD
FOR HTM & NFPA VARIANT

EMERGENCY FORCED LOCAL
FOR HTM, ISO & NFPA VARIANT

MANUAL/AUTOMATIC OPERATION

GENERAL WARNING

GENERAL SHUTDOWN

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ACDE
Drawing owner
API

Name DIAGRAM SERVICE GA18-30VSD+ MED ISO/HTM/NFPA

STATUS	Ed.	Date	Prev. Page 11	Next Page 13	A3
Approved Internal	00		Drawn by ATLASCOPCO\INE	Date 2020/04/20 13:12:01	

Designation Sheet 12 (15)

9820707130

LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CUSTOMER	F0'	2	MAIN PROTECTION	CUSTOMER INSTALLATION
COMPRESSOR	F35	2	FUSES	TRANSFORMER
COMPRESSOR	F36	2	FUSES	TRANSFORMER
COMPRESSOR	F37	2	FUSES	TRANSFORMER
COMPRESSOR	M1	2	MOTOR	MAIN
CUSTOMER	S0	2	MAIN SWITCH	CUSTOMER INSTALLATION
CUSTOMER	S10	2	MAIN SWITCH	FOR HTM & NFPA VARIANT
COMPRESSOR	T2	2	AUTO TRANSFORMER	ONLY 200-230V/500-575V
CONTROL PANEL	Z1	2	EMC FILTER	IT VERSION 380..500V ONLY
CONTROL PANEL	T23	2	CURRENT TRANSFORMER	FOR HTM VARIANT
CONTROL PANEL	P3	2	AMMETER	FOR HTM VARIANT
CONTROL PANEL	F2	3	CIRCUIT BREAKER	FAN MOTOR
COMPRESSOR	M2	3	MOTOR	FAN
CONTROL PANEL	F1	4	CIRCUIT BREAKER	CONTROL TRANSFO PROTECTION
CONTROL PANEL	F4	4	FUSE	CONTROL CIRCUIT 115V
CONTROL PANEL	F5	4	FUSE	CONTROL CIRCUIT 24V
CONTROL PANEL	F6	4	FUSE	CONTROL CIRCUIT 24V
CONTROL PANEL	T1	4	TRANSFORMER	CONTROL CIRCUIT
CONTROL PANEL	2X30	5	CONNECTOR	ELEKTRONIKON Mk5S
COMPRESSOR	B1	5	ELECTRONIC DRAIN	COOLER
CONTROL PANEL	K15	5	CONTACTOR	FAN MOTOR
CONTROL PANEL	S3	5	EMERGENCY STOP PUSH BUTTON	
COMPRESSOR	Y1	5	SOLENOID VALVE	BLOW OFF
COMPRESSOR	Y2	5	SOLENOID VALVE	RECIRCULATION VALVE
CONTROL PANEL	2X30	6	CONNECTOR	ELEKTRONIKON Mk5S
COMPRESSOR	TSHH11	6	TEMPERATURE SWITCH	ELEMENT OUTLET
CONTROL PANEL	U1	6	FREQUENCY CONVERTER	MAIN MOTOR
CONTROL PANEL	2X20	7	CONNECTOR	RS485 COMMUNICATION
CONTROL PANEL	2X22	7	CONNECTOR	RS485 COMMUNICATION
CONTROL PANEL	2X25	7	ETHERNET	RJ45
CONTROL PANEL	2X26	7	MEMORY CARD	
CONTROL PANEL	E1	7	REGULATOR	ELEKTRONIKON Mk5 GRAPHIC
CONTROL PANEL	2X20	8	CONNECTOR	RS485 COMMUNICATION
CONTROL PANEL	2X22	8	CONNECTOR	RS485 COMMUNICATION
CONTROL PANEL	U2	9	POWER SUPPLY	24VAC/24VDC
CONTROL PANEL	X1	9	CONNECTOR OF E10	SUPPLY SMARTBOX

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A
B
C
D
E
F
G

LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CONTROL PANEL	X153	9	CONNECTOR	SMARTBOX
COMPRESSOR SKID	S6	10	FTGOL	PRESSURE SWITCH (FOR HTM & NFPA VARIANT)
COMPRESSOR	PT20	10	PRESSURE TRANSDUCER	DELIVERY AIR
COMPRESSOR	TT01	10	TEMPERATURE SENSOR	AMBIENT
COMPRESSOR	TT11	10	TEMPERATURE SENSOR	ELEMENT OUTLET
COMPRESSOR	TT12	10	TEMPERATURE SENSOR	COMPRESSOR OUTLET (FOR HTM & NFPA VARIANT)
CONTROL PANEL	1X5	10	CONNECTOR	SUPPLY DOWNLOAD REGULATOR
CONTROL PANEL	2X27	10	CONNECTOR	ELEKTRONIKON MK5S
CONTROL	S4	10	LOCAL/CENTRAL CONTROL	LAN/LOCAL (FOR HTM & NFPA VARIANT)
COMPRESSOR	TT53	11	TEMPERATURE SENSOR	ENERGY RECOVERY IN
COMPRESSOR	TT54	11	TEMPERATURE SENSOR	ENERGY RECOVERY OUT
CONTROL PANEL	2X28	11	CONNECTOR	ELEKTRONIKON MK5S
CONTROL PANEL	2X30	12	CONNECTOR	ELEKTRONIKON MK5 GRAPHIC
CONTROL PANEL	2X30	12	CONNECTOR	ELEKTRONIKON MK5 GRAPHIC
CONTROL PANEL	2X31	12	CONNECTOR	ELEKTRONIKON MK5 GRAPHIC

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NOTES :

[A] Maximum fuses with regard to short circuit protection of starter.
Cable section might impose fuses of smaller value.

[B] Power supply to be connected for :
1. CLOCKwise rotation of fanmotor

[D] To connect correct transfo-voltage see on transfo

[F] For field wiring : use copper wire only

[G] F.P.E. field provided equipment
Y1: 115V 17VA
B1: 115V 7VA

[I] Tightening Torque Values:

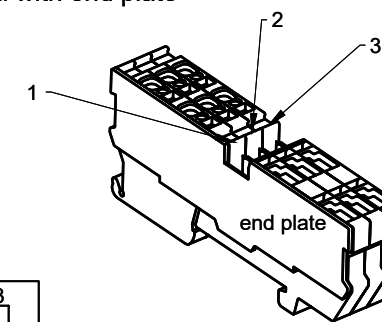
Component	Reference	Connection Type	Torque Min-Max (Nm)	Unit
EMC Filter	Z1	Terminal Screw / PE-Bolt M6	2 - 4 / 6	GA18-22VSD+
EMC Filter	Z1	Terminal Screw / PE-Bolt M8	2,5 - 5 / 12	GA26-30VSD+
EMC Filter	Z1	Terminal Screw / PE-Bolt M10	3 - 6 / 20	GA18-30VSD+ (IT)
Inverter	U1	Bolt M8	9 - 11	GA18-30VSD+
Circuit Breaker	F1	Terminal Screw (M3,5)	2,8	GA18-30VSD+
Circuit Breakers	Q15	Terminal Screw	0,8 - 1,2	GA18-30VSD+
Contactors	K15	Terminal Screw	0.8 - 1,2	GA18-30VSD+
Terminal	1X0:PE	Terminal Screw (M5)	2,5 - 3	GA18-30VSD+
Terminal	1X0	Terminal Screw (M6)	3,2 - 3,7	GA18-30VSD+
Terminal	1X0:N	Terminal Screw (M6)	3,2 - 3,7	GA18-30VSD+
Terminal	1X0:PE	Terminal Screw (M6)	3,2 - 3,7	GA18-30VSD+
Terminal	1X0 to Q15	Terminal Screw (M3)	0,6 - 0,8	GA18-30VSD+

[J] For left turning electro-magnetic field, connections: U,V,W
For right turning electro-magnetic field (Europe), connections: U,W,V

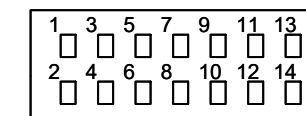
[K] CAN cable 1625 6252 11 needs to be connected to CAN2

[L] S10,S4,S6,P3 & T23 To be Mounted on AC Production Line

Marking of connectors and terminals
Terminal #1 = Terminal with end plate



2X27, 2X28



Pressure transducer pin configuration

- 1 : Supply V+
- 2 : Ground
- 3 : Signal
- 4 : Sealed with dummy

