Schneider Electric

TESTED VALIDATED

DOCUMENTED ARCHITECTURE : Distributed / Modbus TCP / Logic Controller M251

PLANT DESIGNATION : TVDA
DRAWING NUMBER : EIO0000001822.01

DEPARTMENT : Industry Business
PRODUCT DOMAIN : TVDA

CAE SYSTEM : ePlan P8 V 2.4.4
RELATED PRODUCTS : Logic Controller M251; Magelis HMIGTO; TM3 I/O-Expansion; iEM3150; Harmony ZBRN1; Altivar 32; Lexium 32M; TeSysU

INCOMING SUPPLY	: 400V 3~, N, PE, 50Hz
FEEDER	: Oelflex Classic 100 5G2,5mm²
POWER INPUT	: 3,90 kW
CONTROL VOLTAGE	: 24V dc
MANUFACTURING DATE	: 2013
CABINET TYPE	: Spacial, RAL 7035
CHECKED TO	: IEC 60364

RESPONSIBLE FOR PROJECT : Machine Solutions
CREATOR : TVDA
DATE CHANGED : 2015/11/13
REVISION DATE :

VERSION INDEX

0

This document is based on European standards and is not valid for use in U.S.A.

Structure identifier overview

First Level	Structure description	Second Level	Structure description	Third Level	Structure description
=COMM	Common pages	+COVER	Cover page	#PSD	Power Supply Distribution
=WIRD	Wiring diagramm	+CONT	Table of Content	#SAF	Safety
		+INFO	Informations	#PLC	PLC Pages
		+DEF	Definitions	#HMI	Human Machine Interface
		+LAYOUT	Layout Pages	#CTRL	Control
		+LOC	Local Equipments	#MOV	Movement
		+MC	Main Cabinet	#COM	Communication
		+RC1	Remote Cabinet 1		

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General project information

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The information, program and configuration contained herein are provided as general training on the products concerned, in part, by way of theoretical and/or hypothetical examples. Only you, the user, can be aware of all the conditions and factors present during setup, operation, and maintenance of your machine and its application; therefore, only you, the user, can determine the automation equipment and the related safeties and interlocks which can be properly used. When selecting automation and control equipment and related software for a particular application, you must refer to the applicable local and national standards and regulations.

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General project information

Equipment Grounding

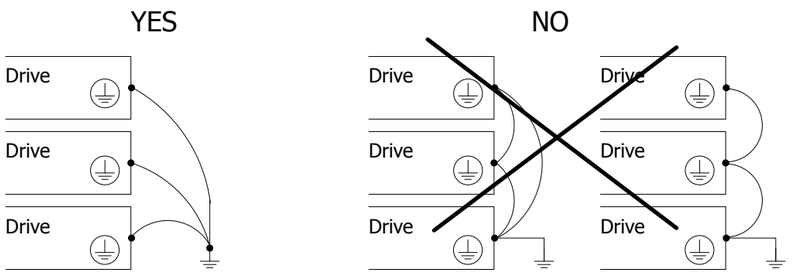
Secure the ground connection of the devices to the protective ground (PE) of your panel at a single point and in conformance with local and national electrical code requirements. Depending on these local and national code requirements, a minimum wire section (gauge) of 10 mm² (6 AWG) may be required to meet standards limiting leakage current.

⚠ DANGER

ELECTRIC SHOCK

- Properly ground your panel and equipment before applying power.
- Always comply with local wiring requirements regarding grounding cables and grounding cable shields.
- Ground devices independently at a single point.

Failure to follow these instructions will result in death or serious injury.



- Ensure that the resistance of ground is one ohm or less.
- When grounding several drives, you must connect each one directly, as as shown in the figure to the left.
- Do not loop the ground cables or connect them in series.

General project information

⚠ DANGER

LOSS OF CONTROL, ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- The designer of the machine and its control system must consider their potential failure modes and provide a means to achieve a safe state during and after a failure by installing and thoroughly testing security control devices.
- Power line and output circuits must be wired and fused in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- The designer of the machine and its control system is responsible for compliance with all international and national electrical standards in force concerning protective grounding of all equipment.

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

REGULATORY INCOMPATIBILITY

Be sure that all equipment applied and systems designed comply with all applicable local, regional, and national regulations and standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

INFORMATIONS ABOUT CHANGES

No.	Date	Editor	Changes	Plant	Location	Page
-	-	-	-	-	-	-
01	2015/10/13	kJakob	Changes for SoMachine V4.1 SP2 (Ethernet topology)	all	all	all

3

+DEF/1

Wiring Definitions

Main circuit	Black	1,5/2,5mm²
Neutral wire	Light-blue	1,5/2,5mm²
Control circuit 230V ac	Red	0,75-2,5mm²
Control circuit 120V ac	Red	0,75-2,5mm²
Control circuit 24V dc	Dark-blue	0,75-2,5mm²
Control circuit 0V dc	Dark-blue/white	0,75-2,5mm²
Control circuit ±15V dc	Violet	0,75mm²
External voltage	Orange	0,75-2,5mm²

Cable glands: If shielded cable use metal!

Plugdefinitions

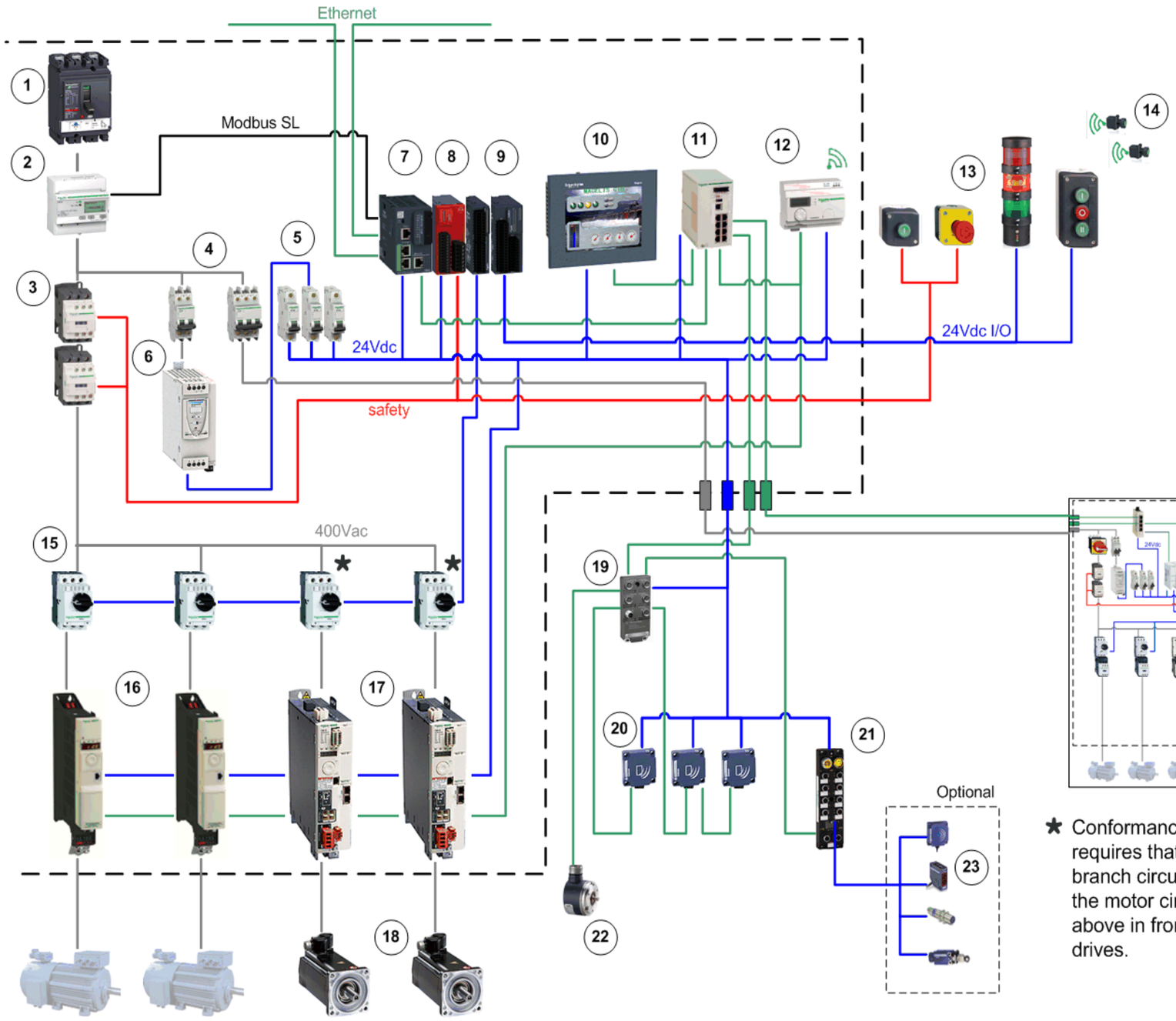
+MC-XSETH01 = RJ45/M12 adapter - Ethernet
+MC-XSETH02 = RJ45/M12 adapter - Ethernet
+MC-XSETH03 = RJ45/M12 adapter - Ethernet
+MC-XSETH04 = RJ45/M12 adapter - Ethernet
+RC1-XSETH01 = RJ45/M12 adapter - Ethernet
+RC1-XSETH02 = RJ45/M12 adapter - Ethernet

Terminaldefinitions

+MC-XD01 = Power Supply 400V ac
+MC-XD02 = Power Supply 400V ac Remote Cabinet
+MC-X01 = Power Supply 24V dc Distribution intern
+RC1-XD01 = Power Supply 400V ac
+RC1-X01 = Power Supply 24V dc Distribution intern

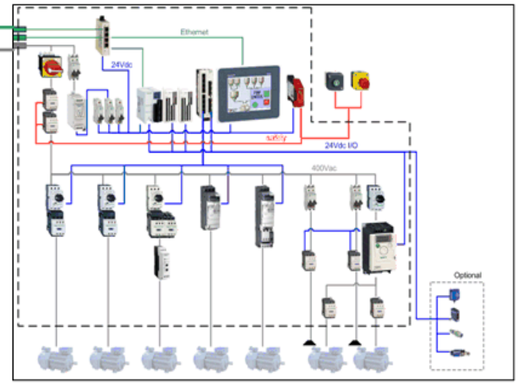
0	1	2	3	4	5	6	7	8	9

Distributed / Modbus TCP / Logic Controller M251



1 PowerPact circuit breaker
2 Energy Meter iEM3150
3 TeSysD Contactor
4 Multi9 Circuit-breaker UL489 C60N
5 Multi9 Circuit-breaker UL1077 C60N
6 Phaseo Power-Supply 24Vdc
7 Logic Controller M251
8 TM3 Embedded Safety Module
9 TM3 I/O expansion modules
10 Magelis touch panel HMI GTO
11 Managed Ethernet Switch
12 Harmony Wireless Receiver ZBRN1 (MB TCP)
13 Harmony signaling/control devices
14 Harmony wireless push-buttons
15 TeSys Motor circuit-breaker GV2P (UL)
16 Altivar 32 + Com. Module (MB TCP)
17 Lexium 32M+ Com. Module (MB TCP)
18 Servo motor BSH
19 unmanaged Ethernet switch IP67
20 RFID read/write device (MB TCP)
21 Advantys ETB 16 I/O module MB TCP
22 Encoder Modbus TCP
23 OsiSense optional sensors

Remote Cabinet



★ Conformance to UL standards requires that fuses are used for the branch circuit protection in place of the motor circuit breakers depicted above in front of the Lexium servo drives.

+DEF/1

2

			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251		Plant Layout Main Cabinet	=COMM	+LAYOUT
			Ed.	kJakob					
			Appr		TVDA			EIO0000001822.01	Page 1
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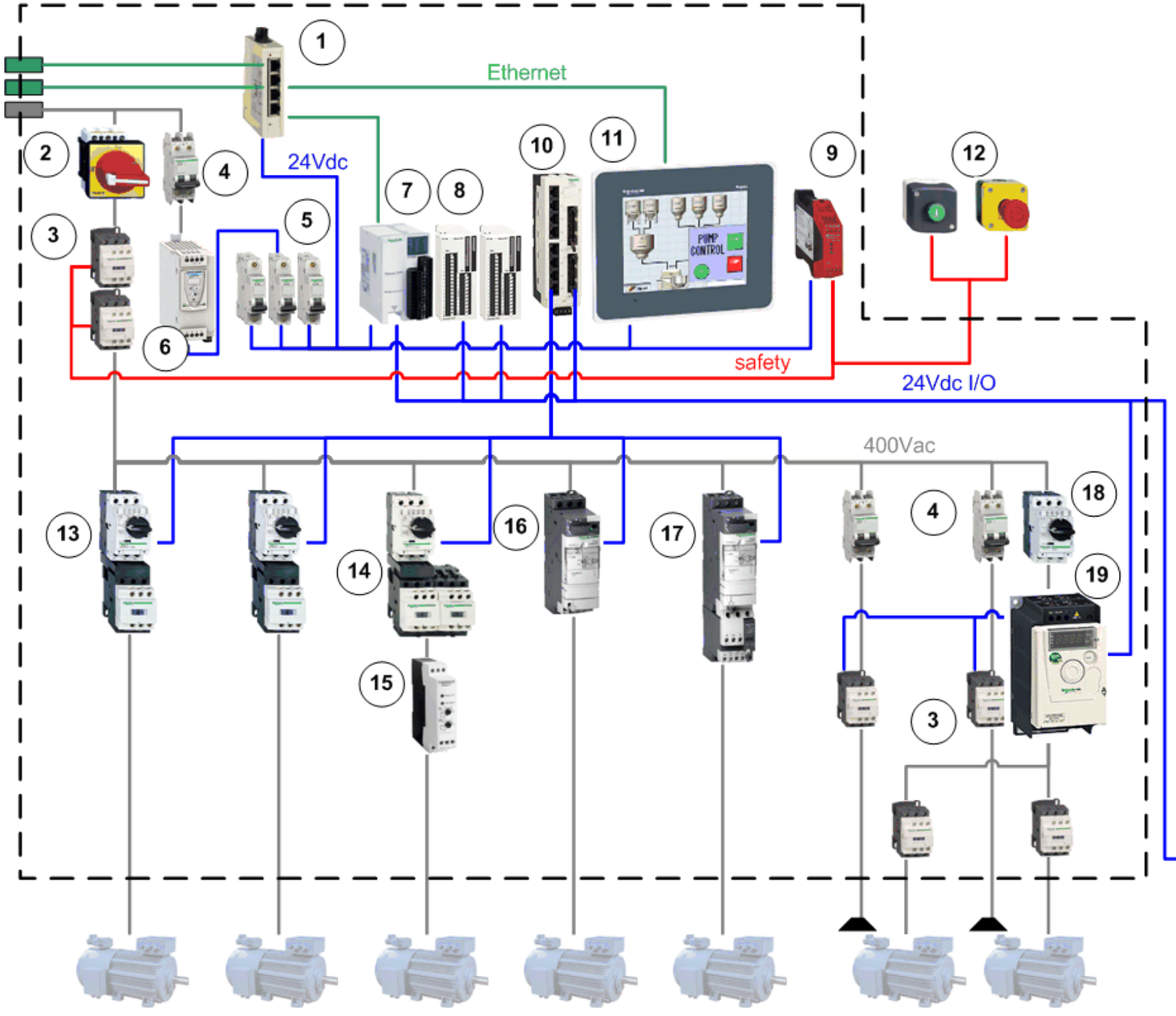
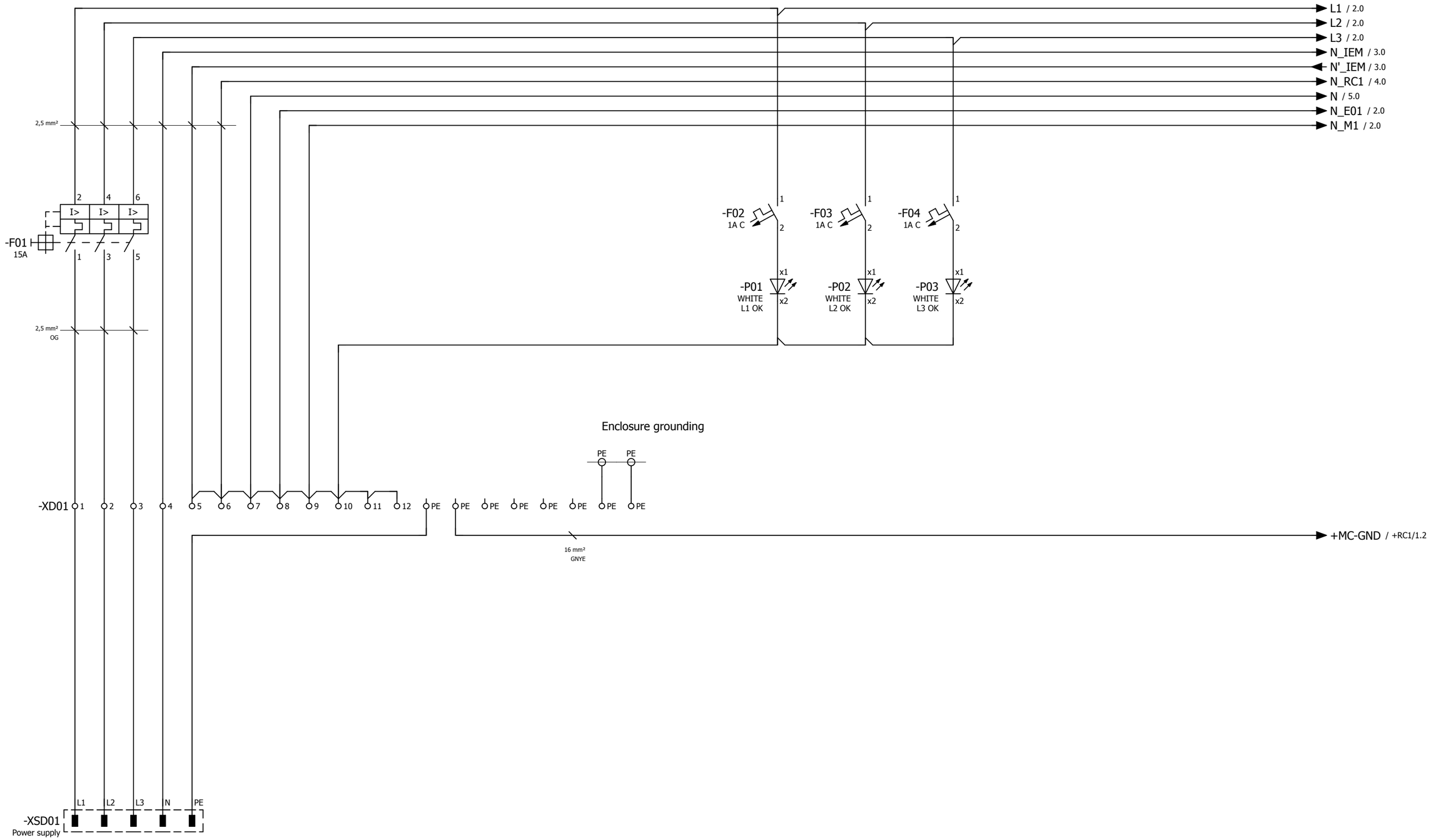
Distributed / Modbus TCP / Logic Controller M251 – Remote cabinet



1 unmanaged Ethernet switch
2 Vario disconnector switch
3 TeSysD Contactor
4 Multi9 Circuit-breaker UL489 C60N
5 Multi9 Circuit-breaker UL1077 C60N
6 Phaseo Power-Supply 24Vdc
7 OTB I/O module (MB TCP)
8 TM2 digital I/O expansion module
9 Preventa Safety Module TM3 Exp.
10 TeSys Splitter box parallel wiring
11 Magelis touch panel HMIGTO (stainless steel)
12 Harmony signaling/control devices
13 Motorstarter TeSysD + wiring kit
14 Motorstarter TeSysD reversable
15 Altistart ATS01N1 - Softstarter
16 Motorstarter TeSysU
17 Motorstarter TeSysU reversable
18 TeSys Motor circuit-breaker GV2P (UL)
19 Altivar 12
20 OsiSense Sensors + Switches

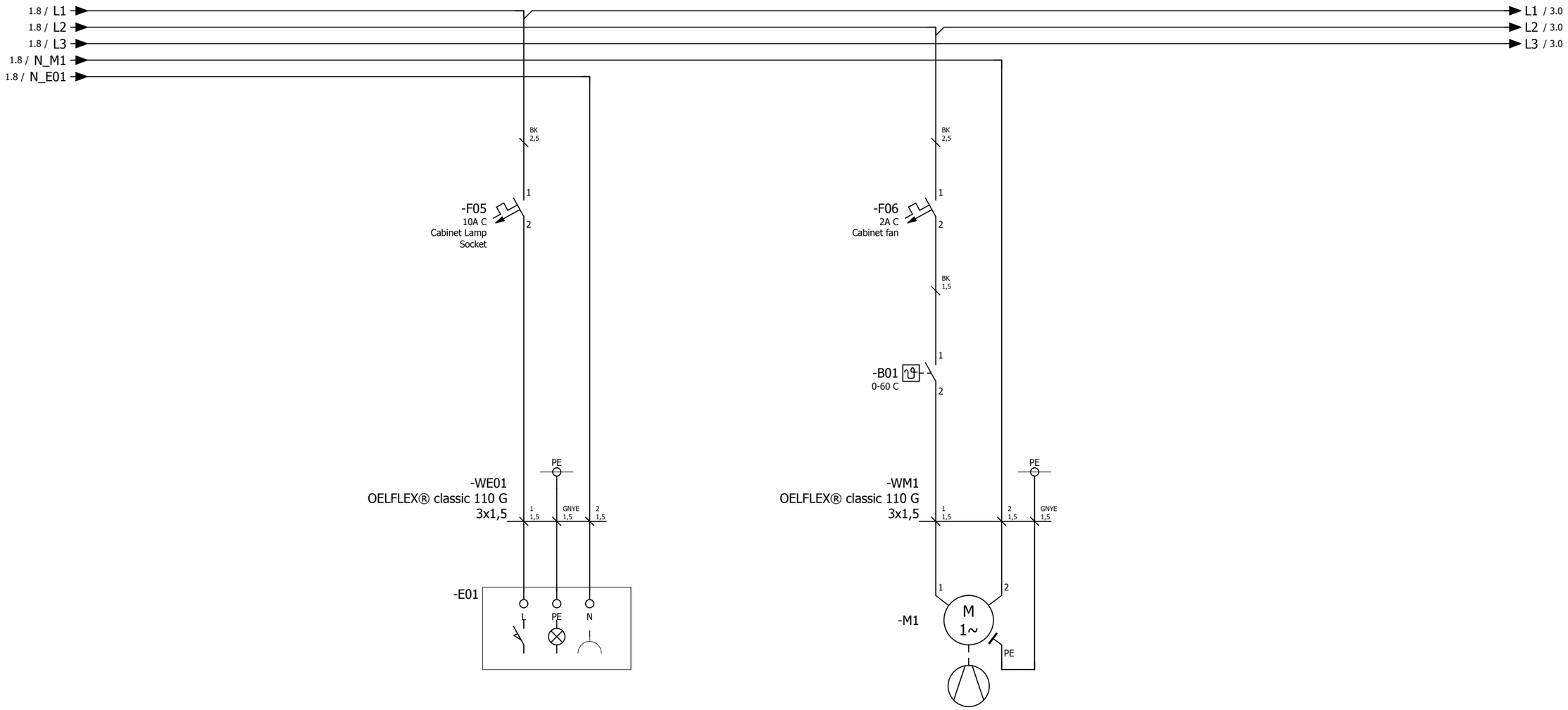


Note: In feed power supply must be adapted accordingly to the power consumption of the final plant.

Power supply

Phase control

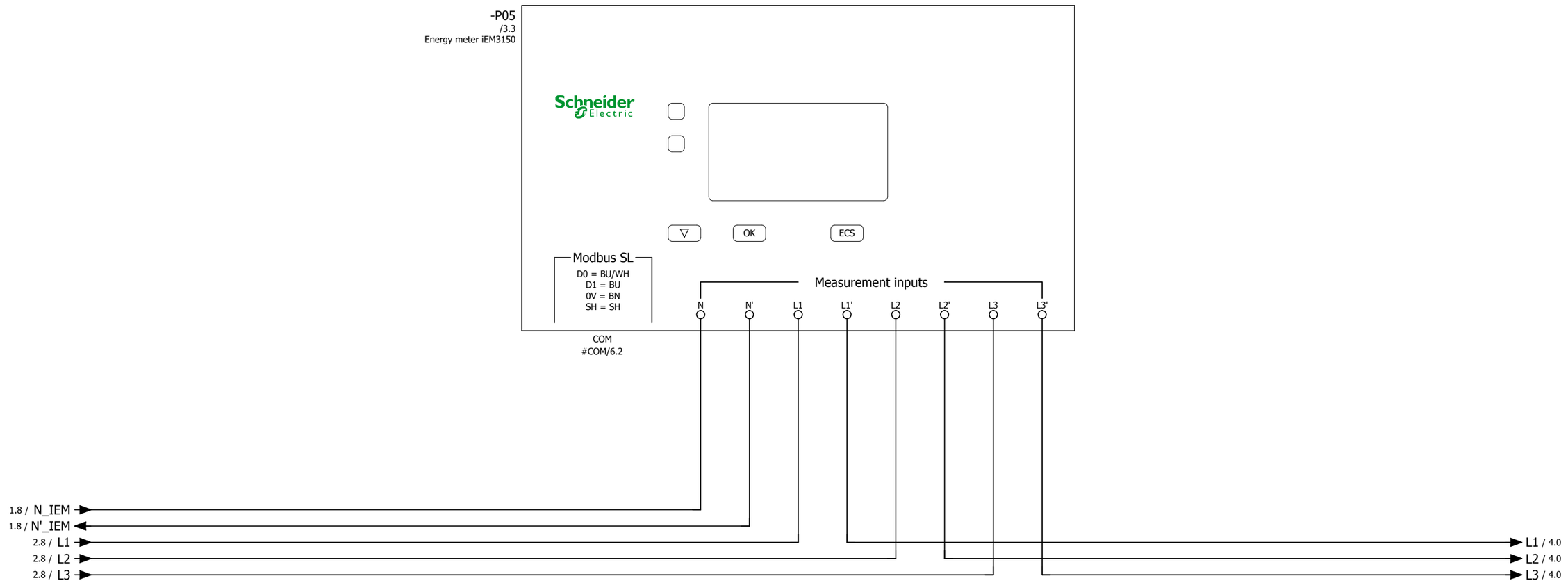
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power supply feed in	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PSD/1	of 10



Cabinet Lamp, Socket

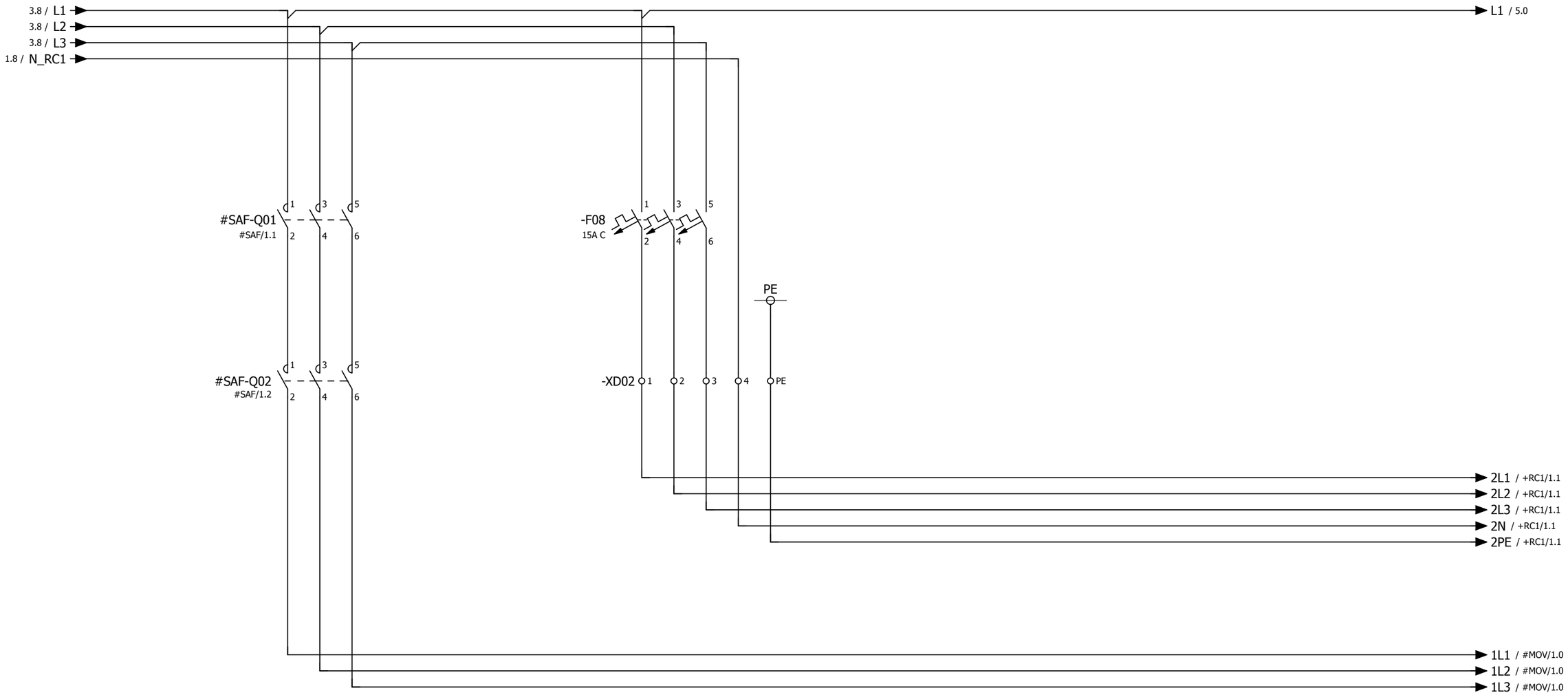
Cabinet fan

-P05
/3.3
Energy meter iEM3150



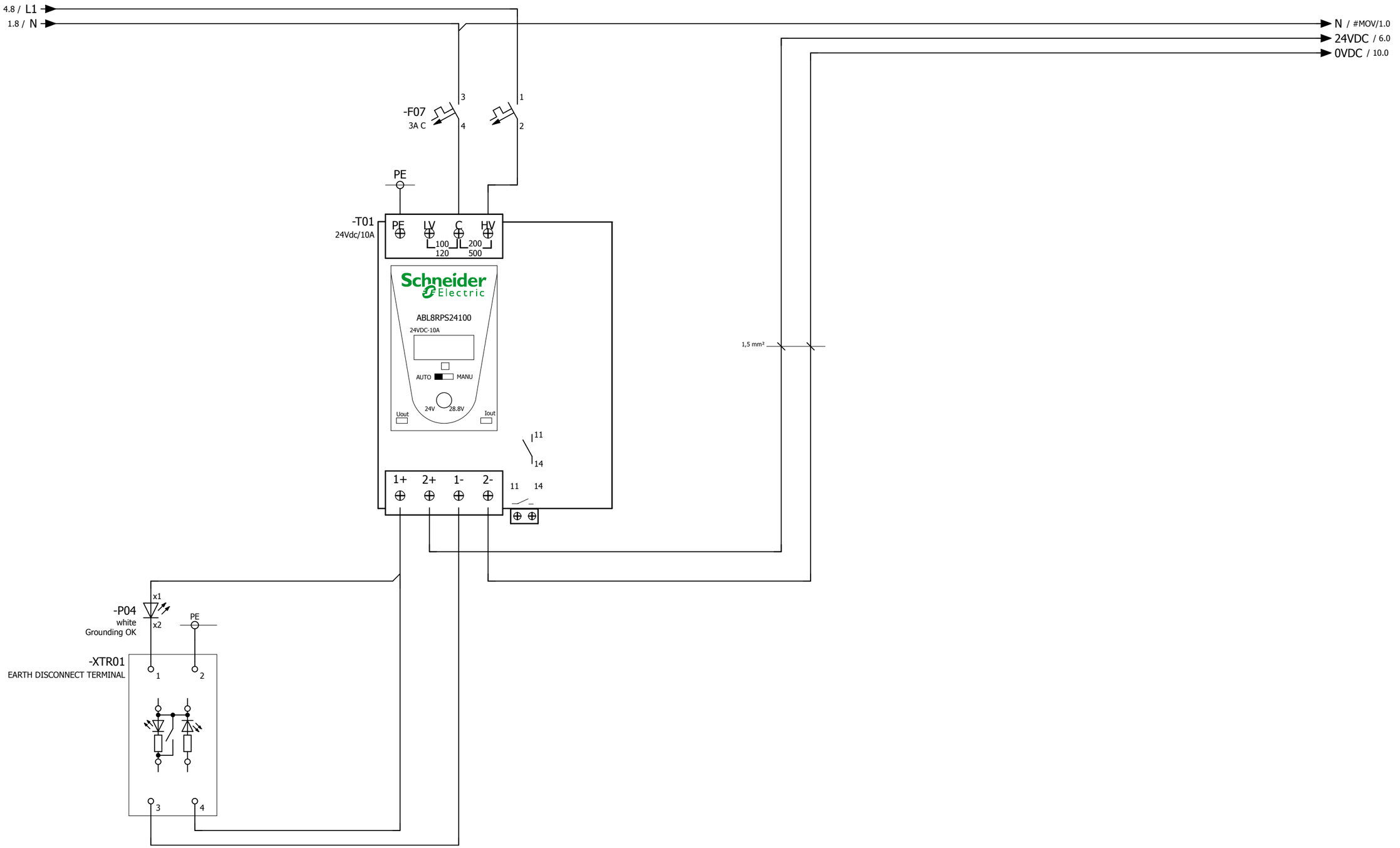
Energy Meter

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Energy Measurement - iEM3150	=WIRD +MC
			Ed.	kJakob				#PSD
			Appr		TVDA			EIO0000001822.01 Page 3
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#PSD/3 of 10



Power supply
Remote Cabinet

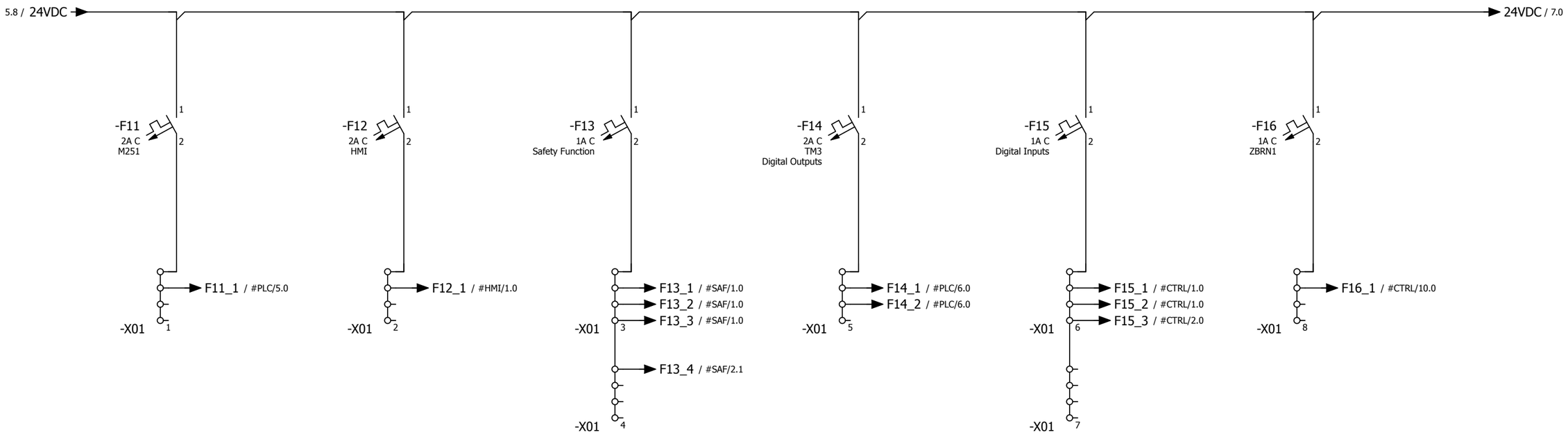
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Emergency Stop Main Power Supply	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 4
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#PSD/4	of 10



Earth disconnect terminal

Power Supply

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24V dc	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 5
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PSD/5	of 10



M251
power supply 24V dc

HMI
power supply 24V dc

Safety Function
power supply 24V dc

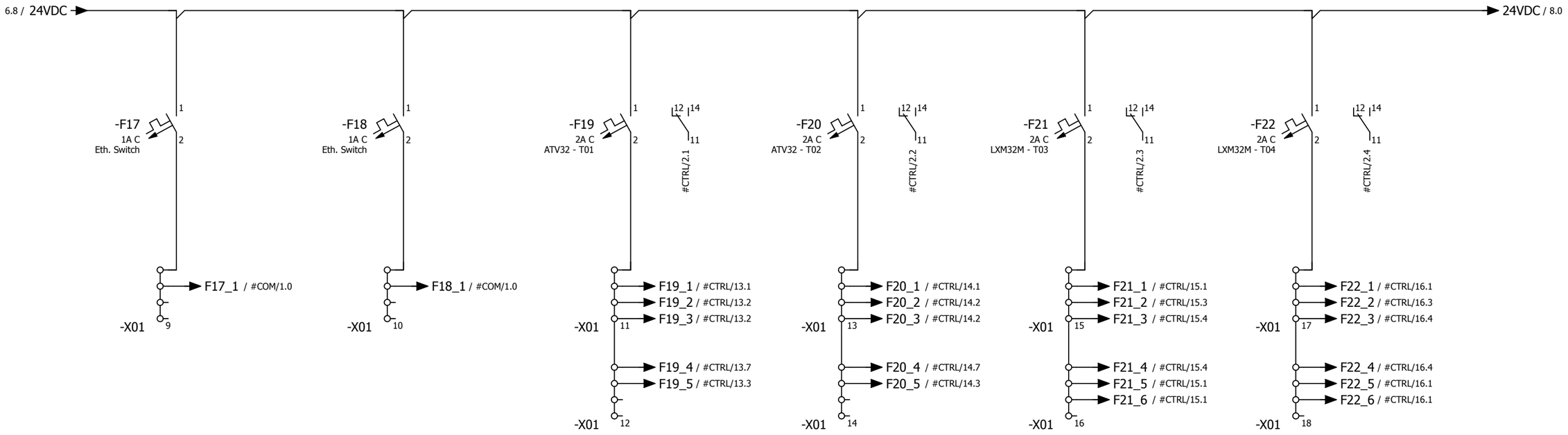
TM3 Digital Outputs
power supply 24V dc

Digital Inputs
power supply 24V dc

ZBRN1
power supply 24V dc

5 7

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24V dc	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 6
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PSD/6	of 10



Ethernet Switch
power supply 24V dc

Ethernet Switch
power supply 24V dc

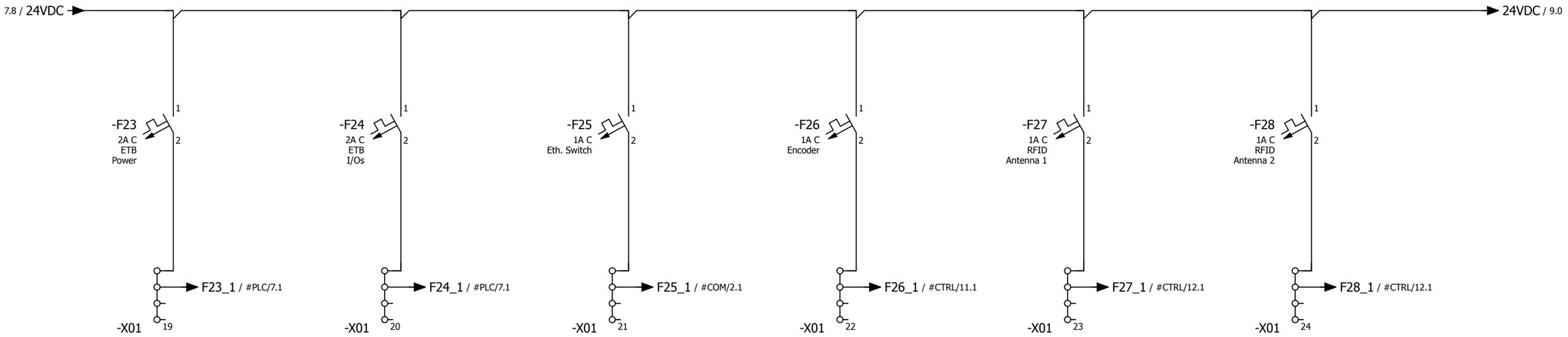
ATV32 - T01
power supply 24V dc

ATV32 - T02
power supply 24V dc

LXM32M - T03
power supply 24V dc

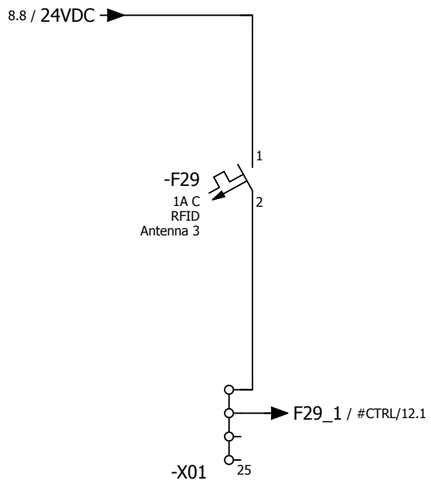
LXM32M - T04
power supply 24V dc

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24V dc	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 7
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PSD/7	of 10



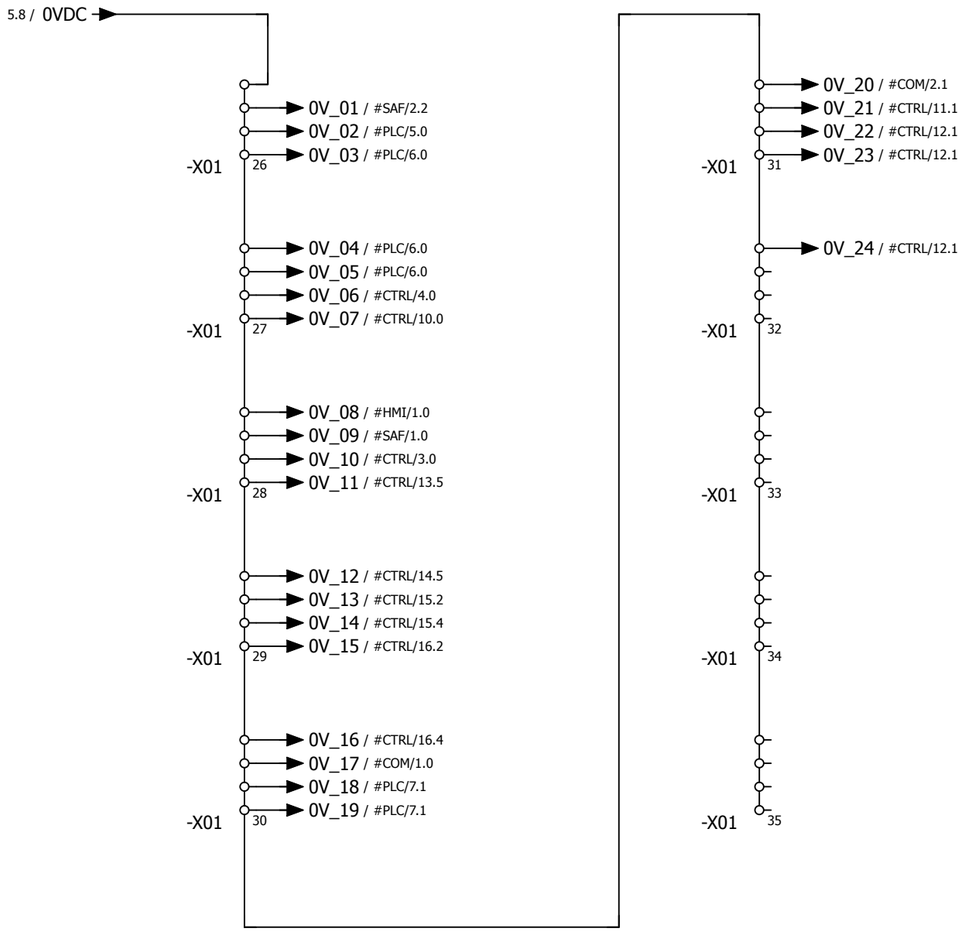
ETB	ETB I/O	Ethernet Switch	Encoder	RFID Antenna 1	RFID Antenna 2
power supply 24V dc	power supply 24V dc	power supply 24V dc	power supply 24V dc	power supply 24V dc	power supply 24V dc

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24V dc	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 8
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PSD/8	of 10



RFID Antenna 3
power supply 24V dc

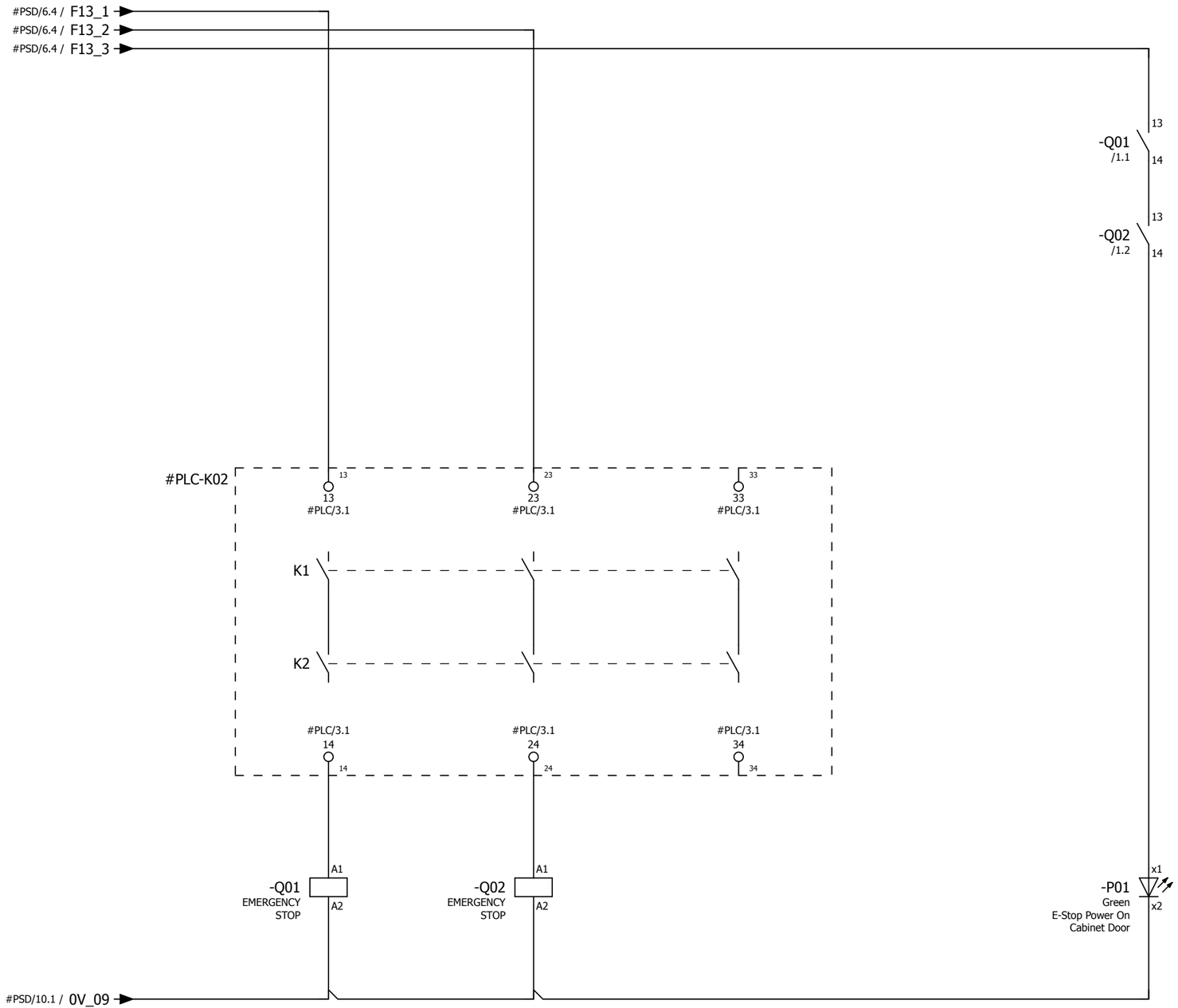
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24V dc		=WIRD +MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 9
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#PSD/9	of 10



Power supply 0V dc

Power supply 0V dc

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 0V dc	=WIRD	+MC
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 10
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PSD/10	of 10



1 2 #PSD/4.2
3 4 #PSD/4.2
5 6 #PSD/4.2
13 14 /1.5
21 22 /3.2

Emergency Stop
Main Contactor 1

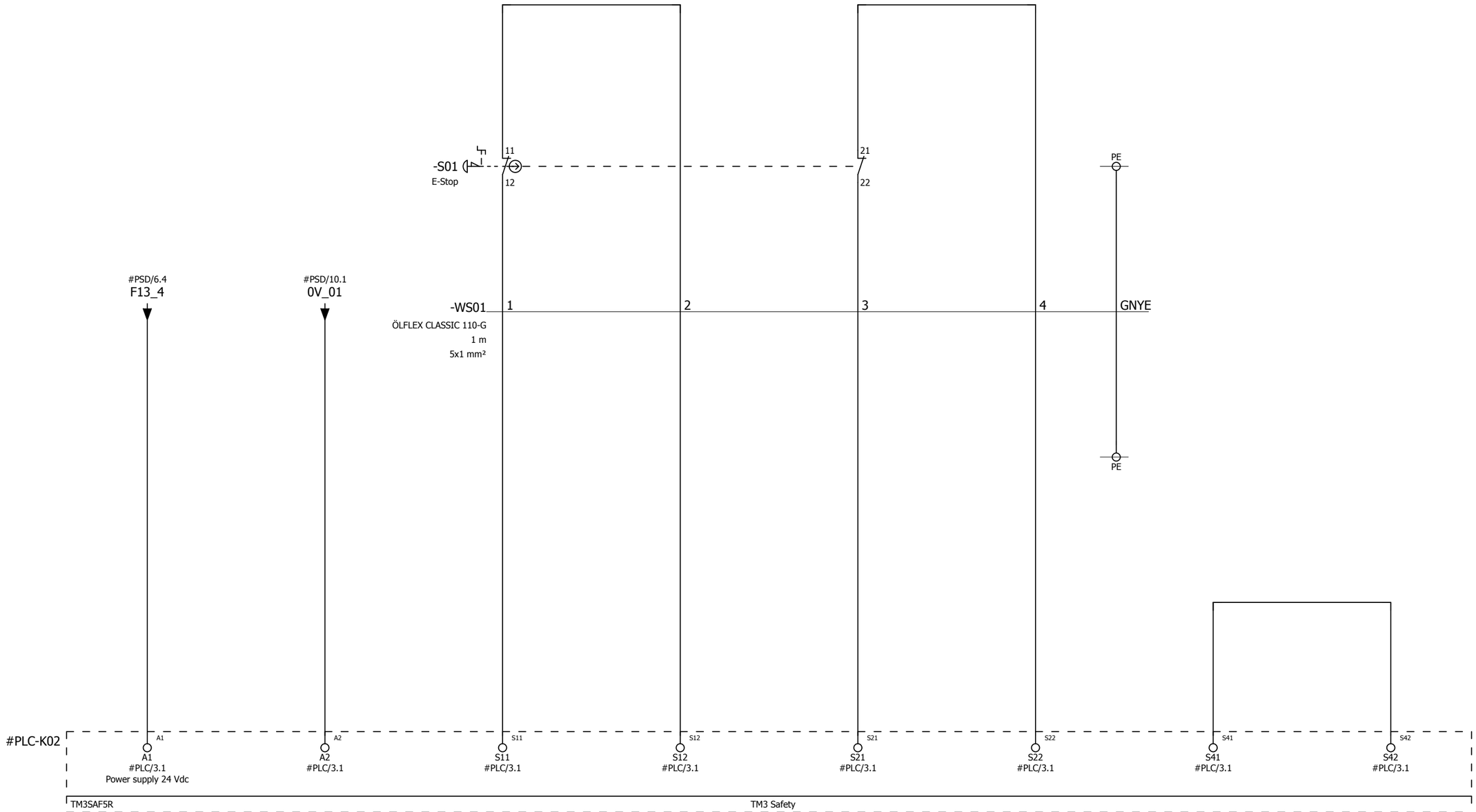
1 2 #PSD/4.2
3 4 #PSD/4.2
5 6 #PSD/4.2
13 14 /1.5
21 22 /3.2

Emergency Stop
Main Contactor 2

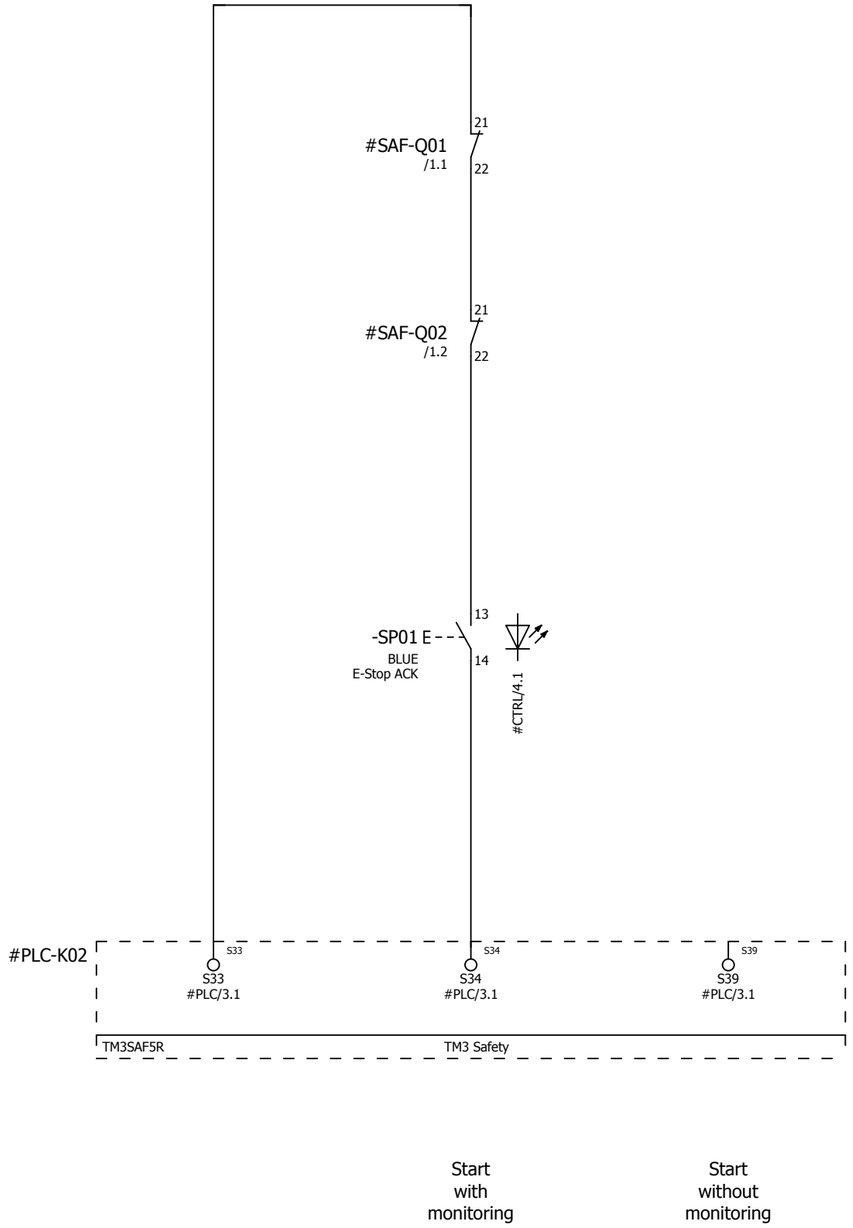
spare

Emergency Stop
Power-ON

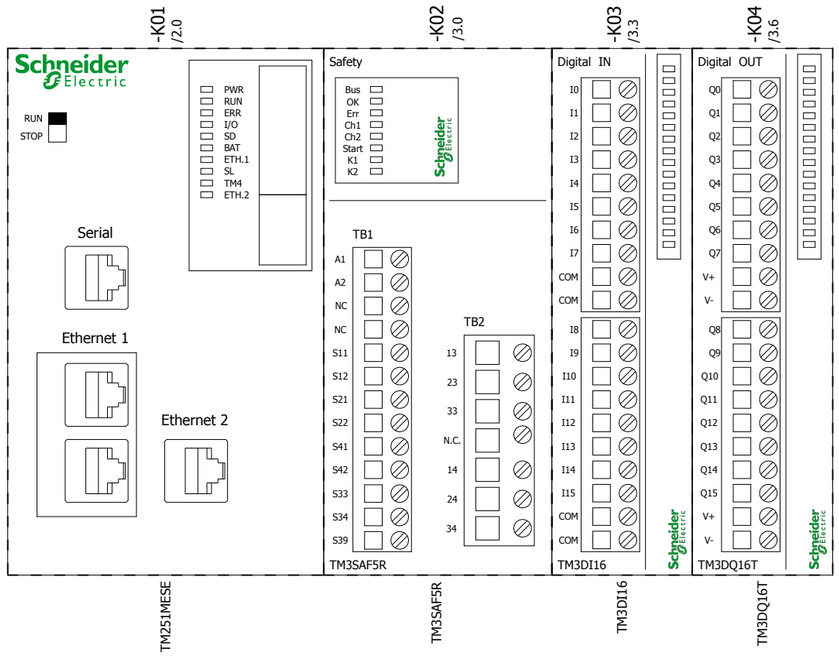
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Emergency Stop - Main Contactors	=WIRD	+MC
			Ed.	kJakob					#SAF
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#SAF/1	of 3



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	TM3-Safety module E-Stop - Power Supply + Safety Channels	=WIRD	+MC
			Ed.	kJakob					#SAF
			Appr		TVDA			EIO0000001822.01	Page 2
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#SAF/2	of 3



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	TM3-Safety module E-Stop - Feedback + Acknowledge	=WIRD	+MC
			Ed.	kJakob					#SAF
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#SAF/3	of 3



#SAF/3

2

			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Assembly layout M251	=WIRD	+MC
			Ed.	kJakob					#PLC
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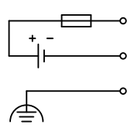
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PLC/1	of 7

-K01

Schneider Electric

TM251MESE
/5.1
/1.1

POWER

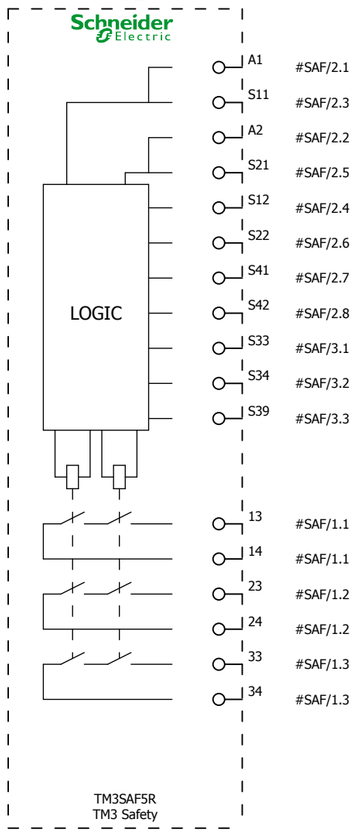


X0:+	/5.2	Power Supply PLC M251	
X0:-	/5.2		
X0:PE	/5.2		

Communication

Serial Line	SL	#COM/6.1
Ethernet 1 Port 1	ETH1.1	#COM/3.1
Ethernet 1 Port 2	ETH1.2	#COM/3.1
Ethernet 2	ETH2	#COM/4.1

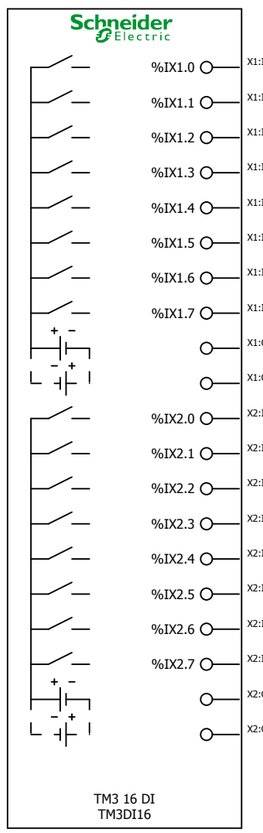
-K02



A1	#SAF/2.1
S11	#SAF/2.3
A2	#SAF/2.2
S21	#SAF/2.5
S12	#SAF/2.4
S22	#SAF/2.6
S41	#SAF/2.7
S42	#SAF/2.8
S33	#SAF/3.1
S34	#SAF/3.2
S39	#SAF/3.3
13	#SAF/1.1
14	#SAF/1.1
23	#SAF/1.2
24	#SAF/1.2
33	#SAF/1.3
34	#SAF/1.3

/1.2

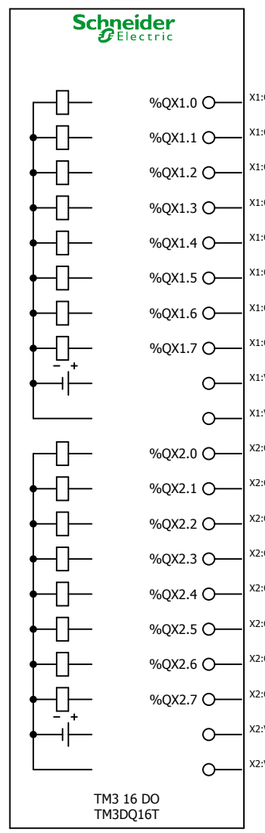
-K03



%IX1.0	X1:I0	#CTRL/1.1	Push Button Rerverse
%IX1.1	X1:I1	#CTRL/1.2	Push Button Stop
%IX1.2	X1:I2	#CTRL/1.3	Push Button Forward
%IX1.3	X1:I3	#CTRL/1.4	Ethernet Switch Okay
%IX1.4	X1:I4	#CTRL/1.5	spare
%IX1.5	X1:I5	#CTRL/1.6	spare
%IX1.6	X1:I6	#CTRL/1.7	spare
%IX1.7	X1:I7	#CTRL/1.8	spare
	X1:COM0	/6.1	COM
	X1:COM1	/6.1	COM
%IX2.0	X2:I8	#CTRL/2.1	Motor Circuit breaker Altivar 32 1
%IX2.1	X2:I9	#CTRL/2.2	Motor Circuit breaker Altivar 32 2
%IX2.2	X2:I10	#CTRL/2.3	Motor Circuit breaker Lexium 32 1
%IX2.3	X2:I11	#CTRL/2.4	Motor Circuit breaker Lexium 32 2
%IX2.4	X2:I12	#CTRL/2.5	spare
%IX2.5	X2:I13	#CTRL/2.6	spare
%IX2.6	X2:I14	#CTRL/2.7	spare
%IX2.7	X2:I15	#CTRL/2.8	spare
	X2:COM2	/6.2	COM
	X2:COM3	/6.2	COM

/1.3

-K04



%QX1.0	X1:Q0	#CTRL/3.2	Tower light green lamp
%QX1.1	X1:Q1	#CTRL/3.3	Tower light white lamp
%QX1.2	X1:Q2	#CTRL/3.4	Tower light red lamp
%QX1.3	X1:Q3	#CTRL/3.5	Tower light blue lamp
%QX1.4	X1:Q4	#CTRL/4.1	Indicator E-Stop
%QX1.5	X1:Q5	#CTRL/4.2	spare
%QX1.6	X1:Q6	#CTRL/4.3	spare
%QX1.7	X1:Q7	#CTRL/4.4	spare
	X1:V+	/6.3	24V dc Q0-Q7
	X1:V-	/6.4	0V dc
%QX2.0	X2:Q8	#CTRL/5.1	spare
%QX2.1	X2:Q9	#CTRL/5.2	spare
%QX2.2	X2:Q10	#CTRL/5.3	spare
%QX2.3	X2:Q11	#CTRL/5.4	spare
%QX2.4	X2:Q12	#CTRL/5.5	spare
%QX2.5	X2:Q13	#CTRL/5.6	spare
%QX2.6	X2:Q14	#CTRL/5.7	spare
%QX2.7	X2:Q15	#CTRL/5.8	
	X2:V+	/6.4	24V dc Q8-Q15
	X2:V-	/6.5	0V dc

/1.3

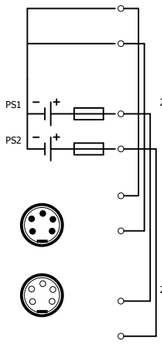
			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Overview TM3 Expansion	=WIRD	+MC
			Ed.	kJakob					#PLC
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PLC/3	of 7

+LOC-A03

Schneider Electric

Ethernet Block I/O Modules for Modbus TCP/IP, IP67
ETB1EM16CP00

POWER



0Vdc Out	PWR0:1	/7.1	Power Supply ETB
0Vdc PWR/In	PWR0:2	/7.1	
PE	PWR0:3	/7.2	
24Vdc PWR/In	PWR0:4	/7.2	
24Vdc Out	PWR0:5	/7.3	
0Vdc Out	PWR1:1	/7.3	
0Vdc PWR/In	PWR1:2	/7.4	
PE	PWR1:3	/7.4	
24Vdc PWR/In	PWR1:4	/7.5	
24Vdc Out	PWR1:5	/7.5	

Communication

ETH	ETH1	#COM/5.1	
ETH	ETH2	#COM/5.1	

Digital I/Os

24Vdc	X1:1	#CTRL/6.1	Power Supply Sensor/Actuator	
%IX18.0 B I/O	X1:2	#CTRL/6.2	spare	
0Vdc	X1:3	#CTRL/6.1		
%IX18.1 A I/O	X1:4	#CTRL/6.3	spare	
PE	X1:5	#CTRL/6.2		

24Vdc	X2:1	#CTRL/6.5	Power Supply Sensor/Actuator	
%IX18.2 B I/O	X2:2	#CTRL/6.6	spare	
0Vdc	X2:3	#CTRL/6.5		
%IX18.3 A I/O	X2:4	#CTRL/6.7	spare	
PE	X2:5	#CTRL/6.6		

24Vdc	X3:1	#CTRL/7.1	Power Supply Sensor/Actuator	
%IX18.4 B I/O	X3:2	#CTRL/7.2	spare	
0Vdc	X3:3	#CTRL/7.1		
%IX18.5 A I/O	X3:4	#CTRL/7.3	spare	
PE	X3:5	#CTRL/7.2		

24Vdc	X4:1	#CTRL/7.5	Power Supply Sensor/Actuator	
%IX18.6 B I/O	X4:2	#CTRL/7.6	spare	
0Vdc	X4:3	#CTRL/7.5		
%IX18.7 A I/O	X4:4	#CTRL/7.7	spare	
PE	X4:5	#CTRL/7.6		

Digital I/Os

24Vdc	X5:1	#CTRL/8.1	Power Supply Sensor/Actuator	
%IX19.0 B I/O	X5:2	#CTRL/8.2	spare	
0Vdc	X5:3	#CTRL/8.1		
%IX19.1 A I/O	X5:4	#CTRL/8.3	spare	
PE	X5:5	#CTRL/8.2		

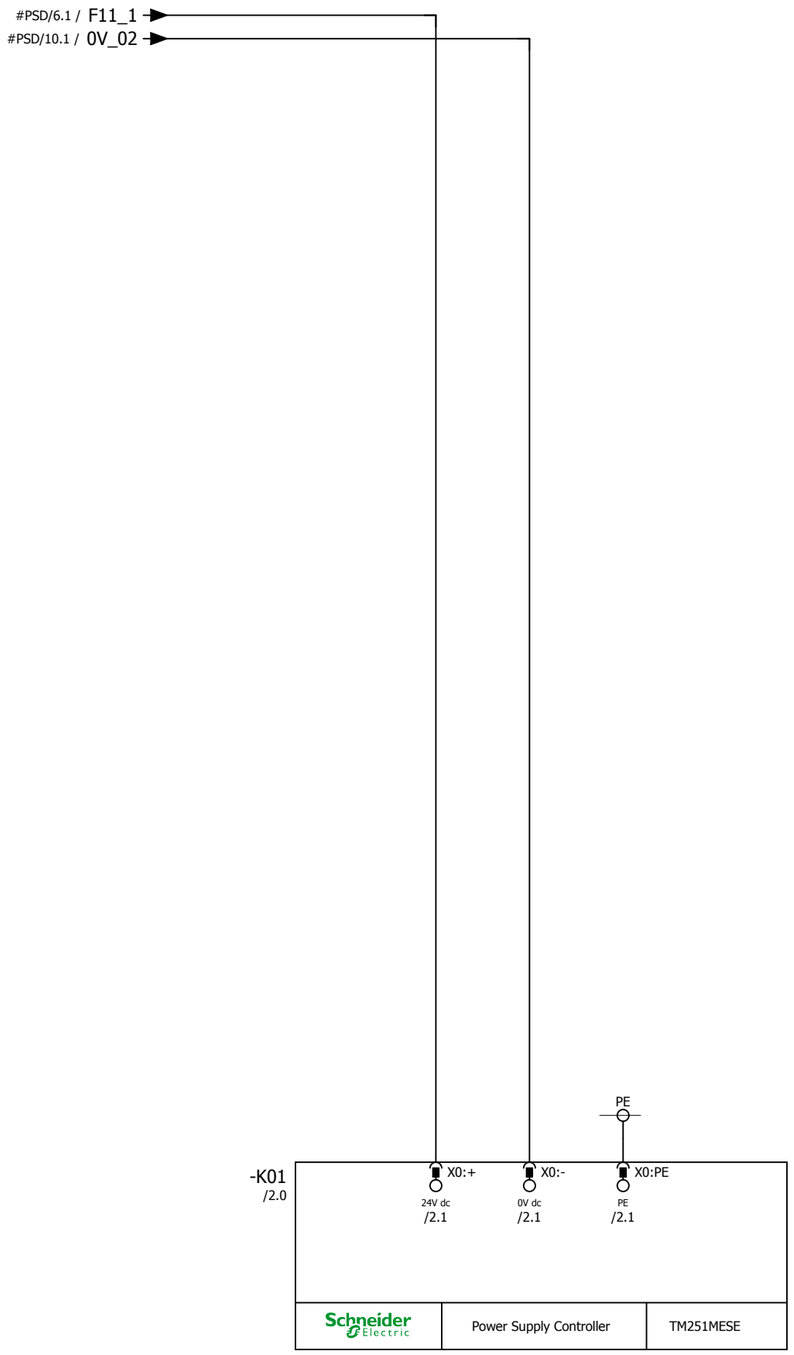
24Vdc	X6:1	#CTRL/8.5	Power Supply Sensor/Actuator	
%IX19.2 B I/O	X6:2	#CTRL/8.6	spare	
0Vdc	X6:3	#CTRL/8.5		
%IX19.3 A I/O	X6:4	#CTRL/8.7	spare	
PE	X6:5	#CTRL/8.6		

24Vdc	X7:1	#CTRL/9.1	Power Supply Sensor/Actuator	
%IX19.4 B I/O	X7:2	#CTRL/9.2	spare	
0Vdc	X7:3	#CTRL/9.1		
%IX19.5 A I/O	X7:4	#CTRL/9.3	spare	
PE	X7:5	#CTRL/9.2		

24Vdc	X8:1	#CTRL/9.5	Power Supply Sensor/Actuator	
%IX19.6 B I/O	X8:2	#CTRL/9.6	spare	
0Vdc	X8:3	#CTRL/9.5		
%IX19.7 A I/O	X8:4	#CTRL/9.7	spare	
PE	X8:5	#CTRL/9.6		

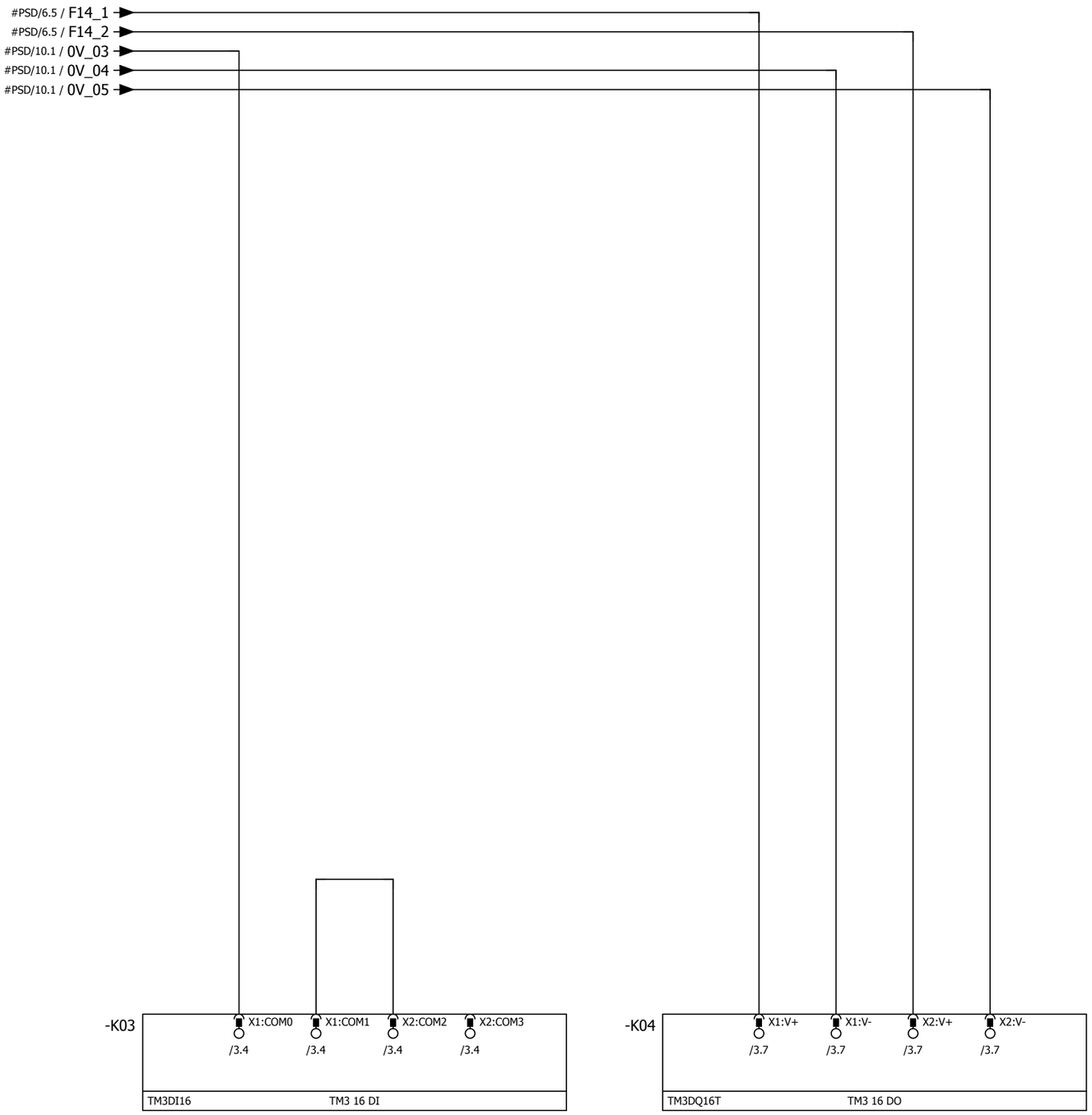
#COM/5.0
/4.4

			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Overview ETB I/O Module	=WIRD +MC
			Ed.	kJakob				#PLC
			Appr		TVDA			EIO0000001822.01 Page 4
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PLC/4 of 7

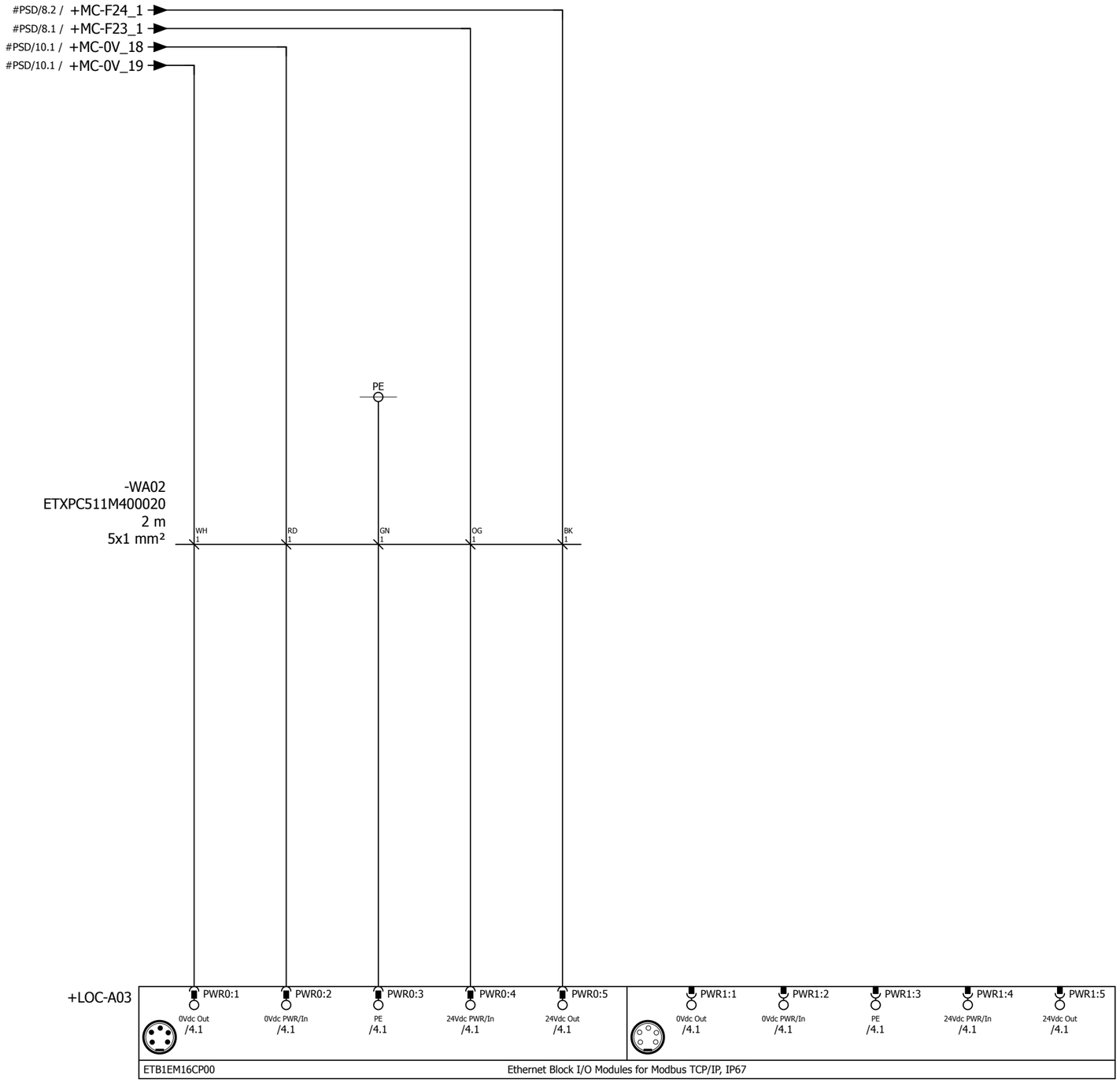


Power Supply PLC M251

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power supply M251	=WIRD	+MC
			Ed.	kJakob					#PLC
			Appr		TVDA			EIO0000001822.01	Page 5
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PLC/5	of 7

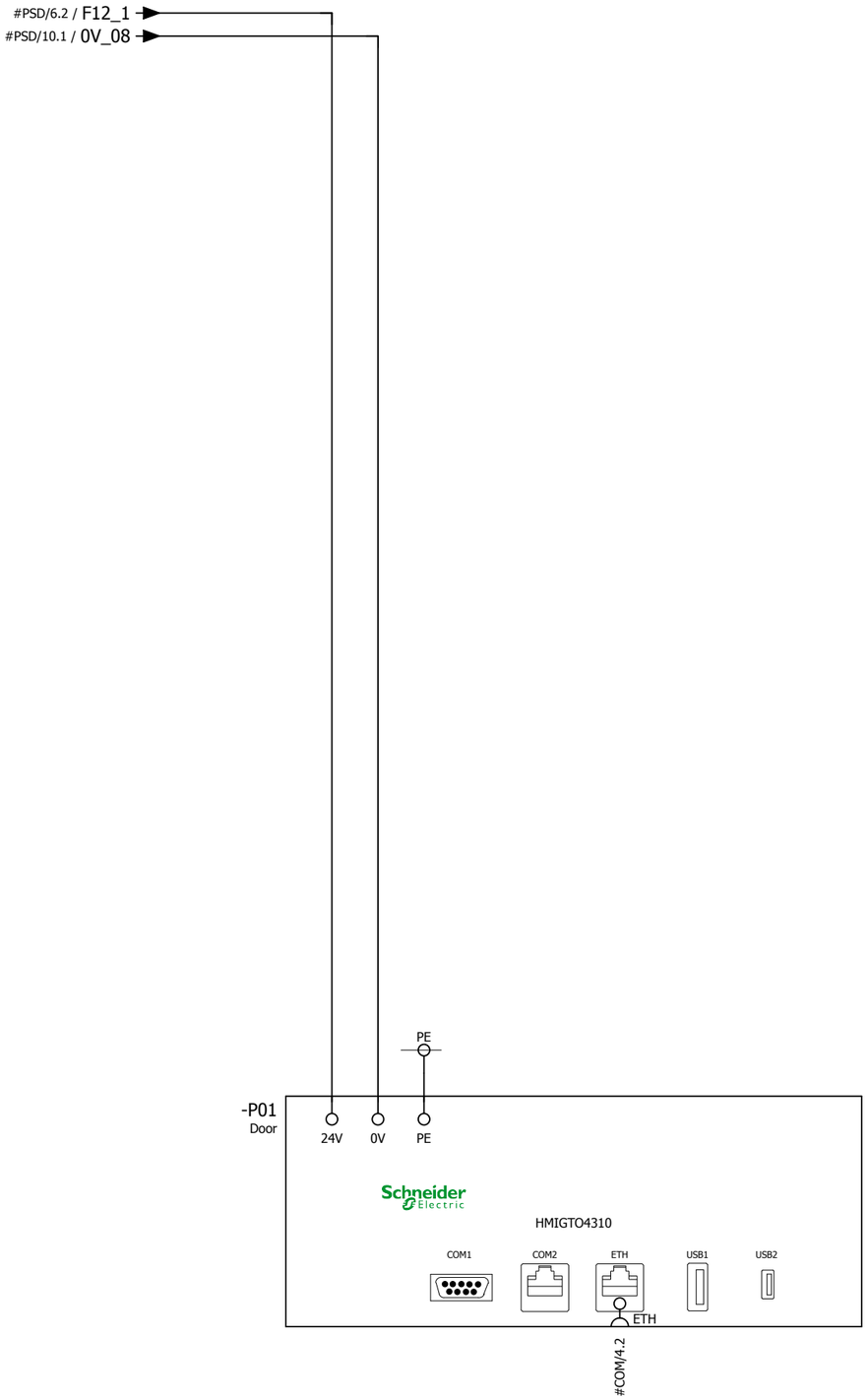


			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply TM3 Expansion	=WIRD	+MC
			Ed.	kJakob					#PLC
			Appr		TVDA			EIO0000001822.01	Page 6
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PLC/6	of 7



Power Supply ETB

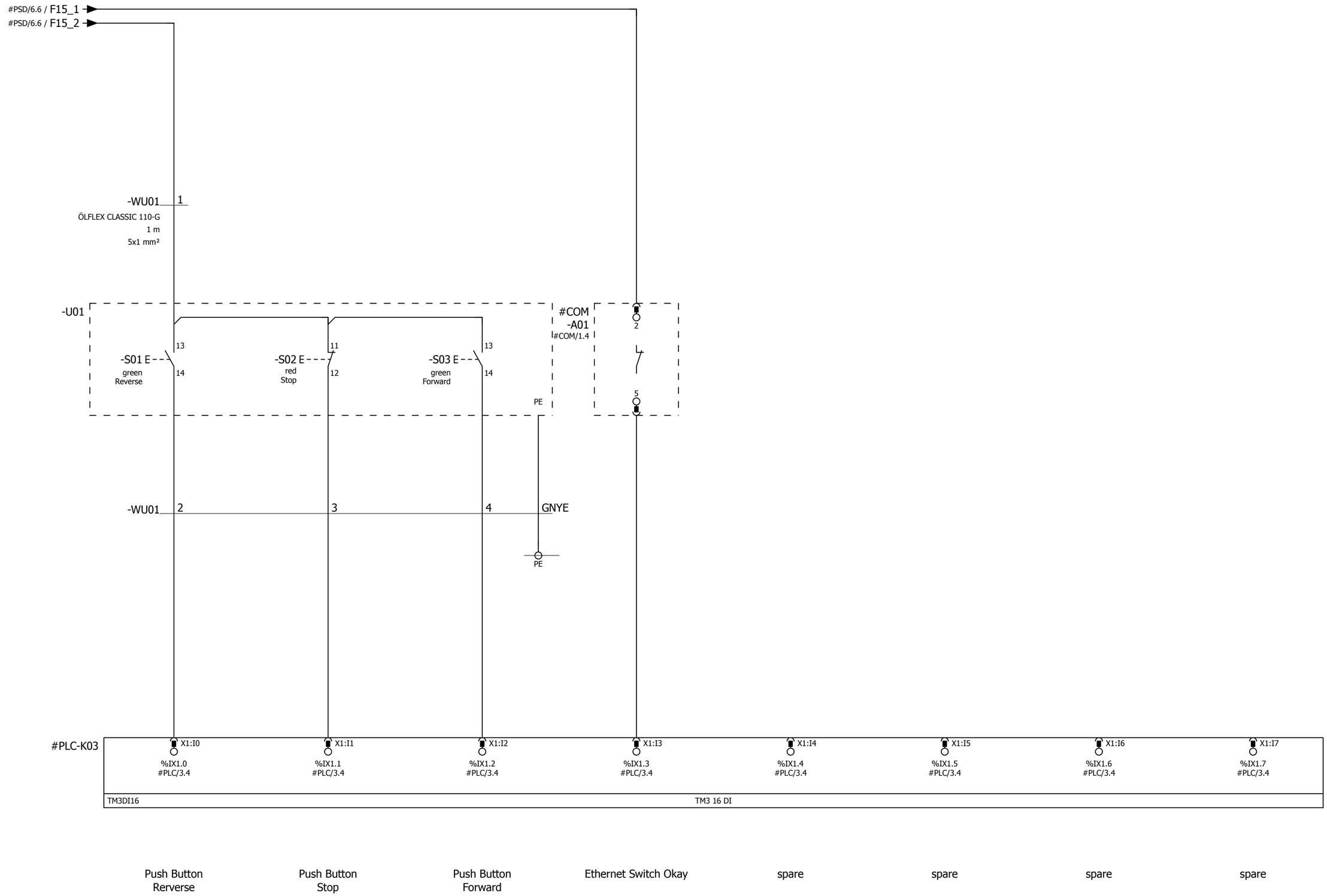
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply ETB I/O Module		=WIRD +MC
			Ed.	kJakob					#PLC
			Appr		TVDA			EIO0000001822.01	Page 7
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#PLC/7	of 7



#PLC/7

#CTRL/1

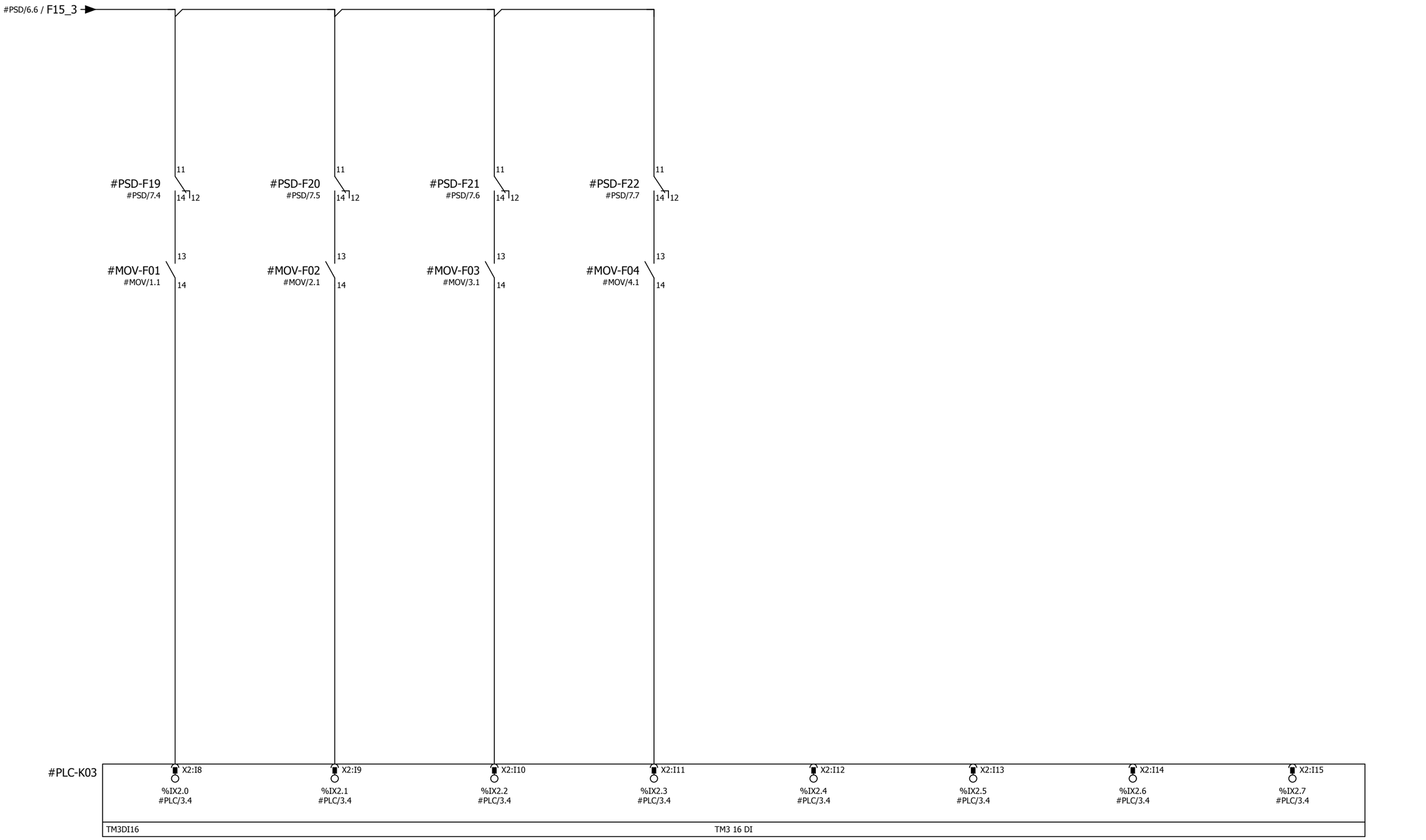
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	HMI Magelis Panel Power Supply	=WIRD +MC
			Ed.	kJakob				#HMI
			Appr		TVDA			EIO0000001822.01 Page 1
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#HMI/1 of 1



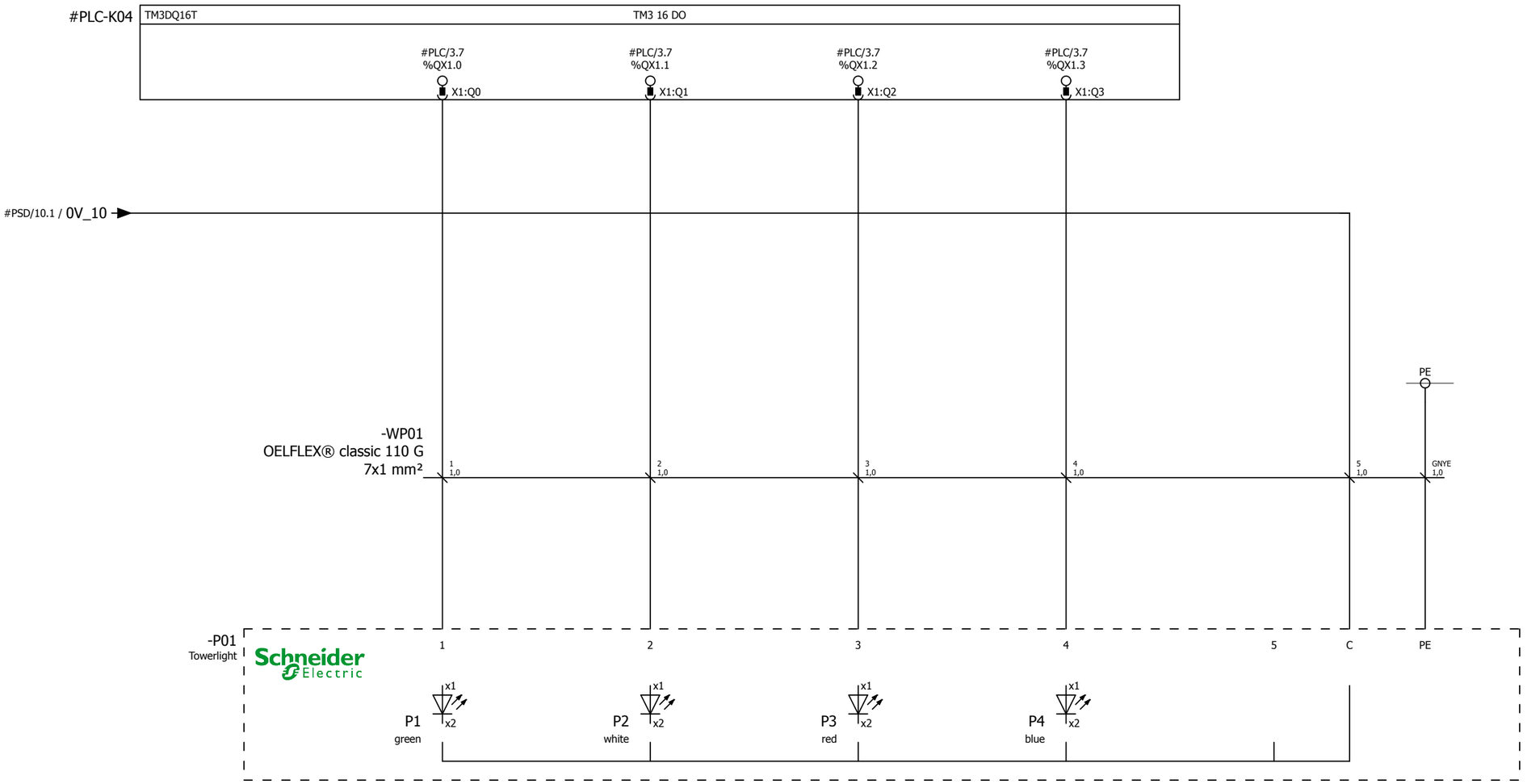
#HMI/1

2

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital inputs TM3	=WIRD +MC
			Ed.	kJakob				#CTRL
			Appr		TVDA			EIO0000001822.01 Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/1 of 16



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital inputs TM3	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 2
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/2	of 16



Tower light green lamp

Tower light white lamp

Tower light red lamp

Tower light blue lamp

Towerlight spare

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital outputs TM3	=WIRD +MC
			Ed.	kJakob				#CTRL
			Appr		TVDA			EIO0000001822.01 Page 3
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#CTRL/3 of 16

0	1	2	3	4	5	6	7	8	9

#PLC-K04

TM3DQ16T	TM3 16 DO		
#PLC/3.7 %QX1.4 X1:Q4	#PLC/3.7 %QX1.5 X1:Q5	#PLC/3.7 %QX1.6 X1:Q6	#PLC/3.7 %QX1.7 X1:Q7

#SAF-SP01
#SAF/3.2
BLUE
E-Stop ACK

#PSD/10.1 / 0V_06

Indicator E-Stop	spare	spare	spare

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital outputs TM3		=WIRD +MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 4
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/4	of 16

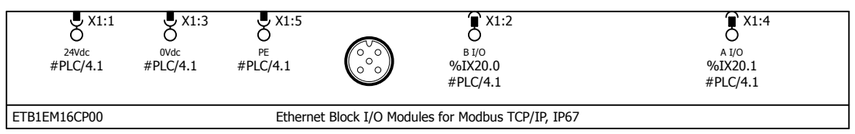
0	1	2	3	4	5	6	7	8	9

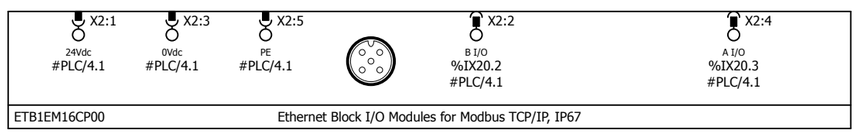
#PLC-K04

TM3DQ16T								TM3 16 DO
#PLC/3.7 %QX2.0 X2:Q8	#PLC/3.7 %QX2.1 X2:Q9	#PLC/3.7 %QX2.2 X2:Q10	#PLC/3.7 %QX2.3 X2:Q11	#PLC/3.7 %QX2.4 X2:Q12	#PLC/3.7 %QX2.5 X2:Q13	#PLC/3.7 %QX2.6 X2:Q14	#PLC/3.7 %QX2.7 X2:Q15	
spare	spare	spare	spare	spare	spare	spare	spare	

0	1	2	3	4	5	6	7	8	9

+LOC#PLC-A03





Power Supply
Sensor/Actuator

spare

spare

Power Supply
Sensor/Actuator

spare

spare

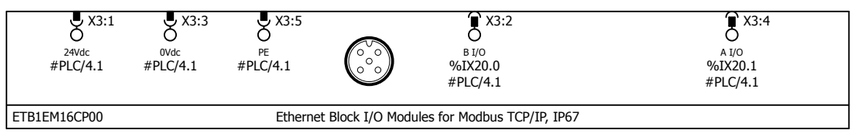
5

7

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	ETB Digital I/Os	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 6
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/6	of 16

0	1	2	3	4	5	6	7	8	9

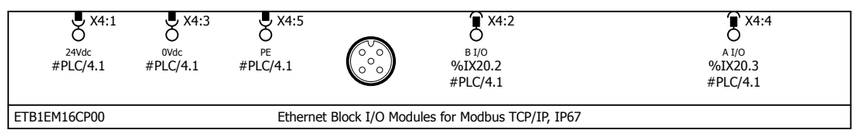
+LOC#PLC-A03



Power Supply
Sensor/Actuator

spare

spare



Power Supply
Sensor/Actuator

spare

spare

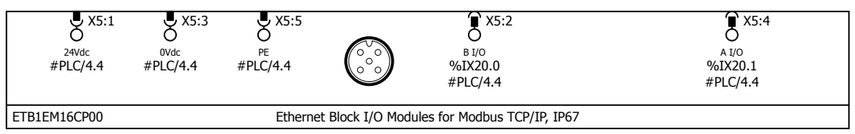
6

8

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	ETB Digital I/Os	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 7
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/7	of 16

0	1	2	3	4	5	6	7	8	9

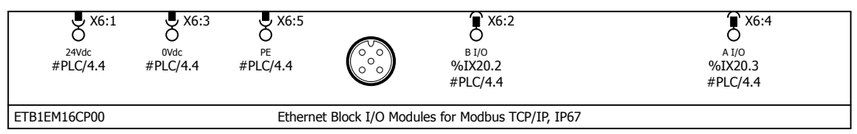
+LOC#PLC-A03



Power Supply
Sensor/Actuator

spare

spare



Power Supply
Sensor/Actuator

spare

spare

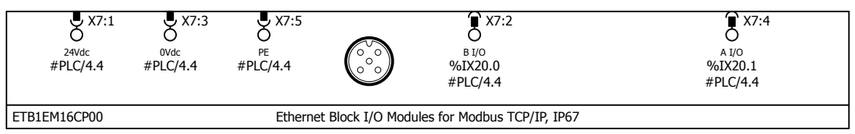
7

9

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	ETB Digital I/Os	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 8
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/8	of 16

0	1	2	3	4	5	6	7	8	9

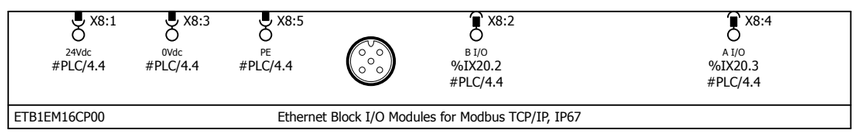
+LOC#PLC-A03



Power Supply
Sensor/Actuator

spare

spare



Power Supply
Sensor/Actuator

spare

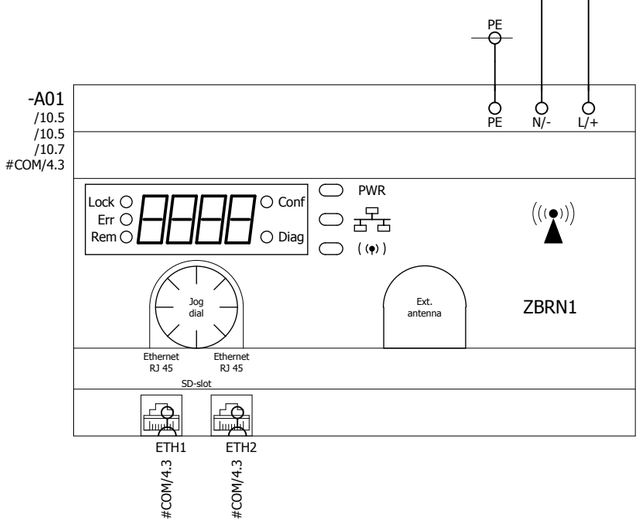
spare

8

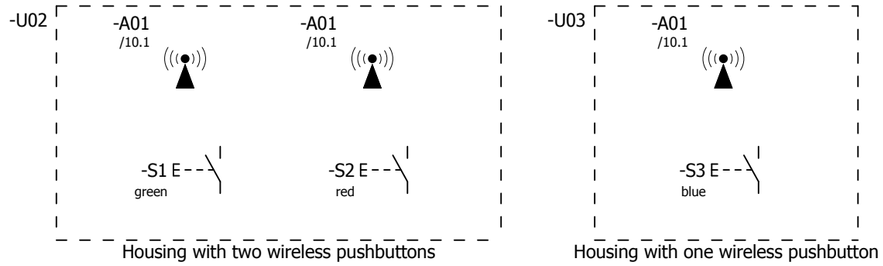
10

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	ETB Digital I/Os		=WIRD +MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 9
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/9	of 16

#PSD/6.7 / F16_1
#PSD/10.1 / 0V_07



Receiver
wireless pushbuttons

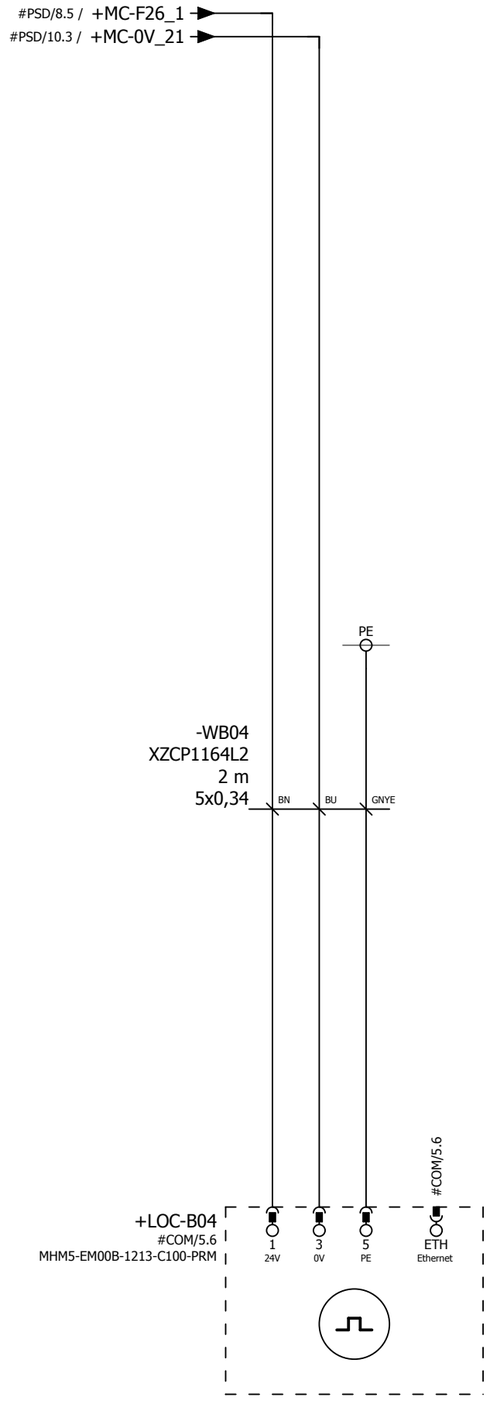


Housing with two wireless pushbuttons

Housing with one wireless pushbutton

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Wireless Push-Buttons	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 10
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/10	of 16

0	1	2	3	4	5	6	7	8	9



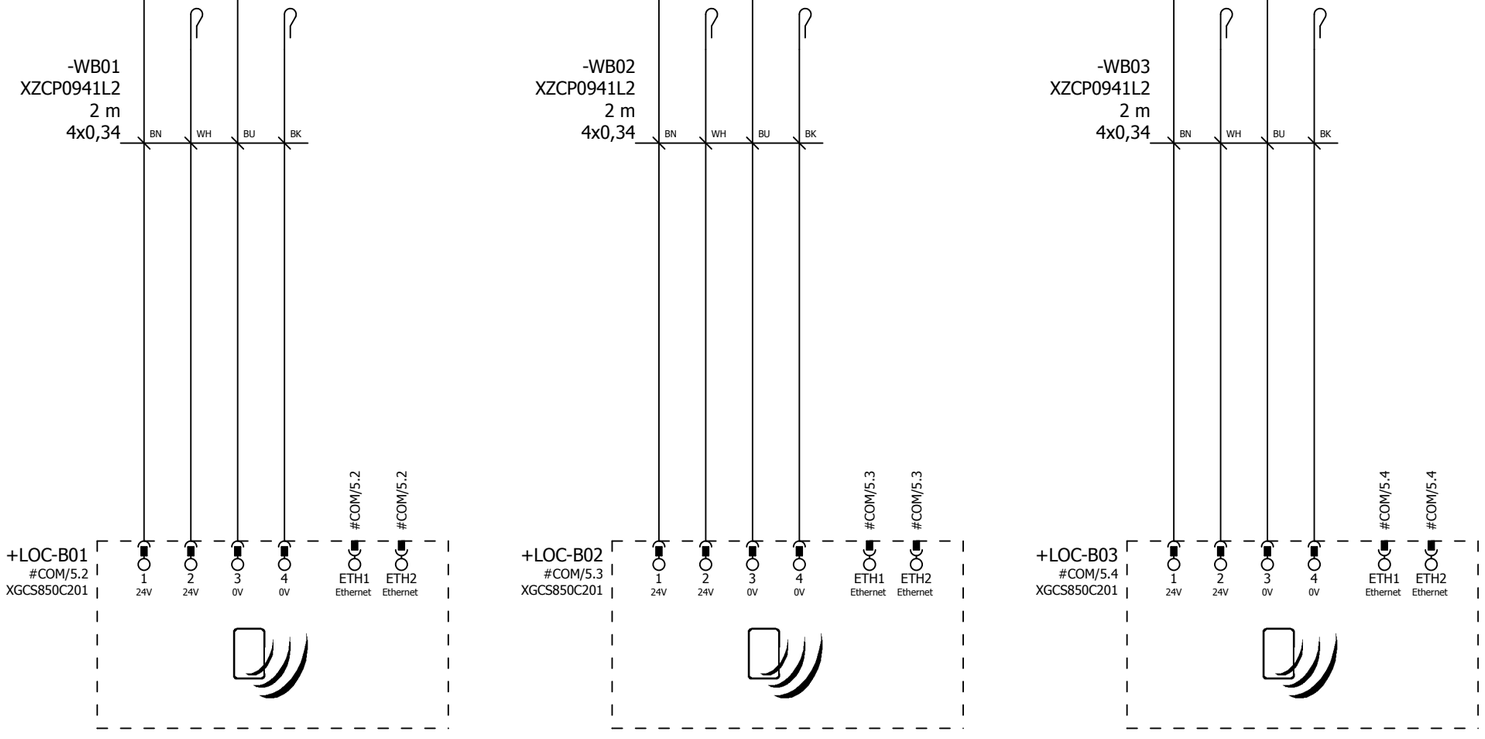
ENCODER 1

10

12

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251		Absolute Multiturn Encoder	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 11
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/11	of 16

#PSD/8.6 / +MC-F27_1
#PSD/10.3 / +MC-0V_22
#PSD/8.7 / +MC-F28_1
#PSD/10.3 / +MC-0V_23
#PSD/9.1 / +MC-F29_1
#PSD/10.3 / +MC-0V_24



RFID antenna 1 | RFID antenna 2 | RFID antenna 3

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	RFID Antennas	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 12
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#CTRL/12	of 16

Modification	Date	Name	Original	Replacement of
			Date 2015/11/13	
			Ed. kJakob	
			Appr	

Distributed / Modbus TCP / Logic Controller M251

TVDA

Schneider Electric

Drive 1 Control Terminals Altivar 32

EIO0000001822.01

Replaced by

=WIRD+MC.#CTRL/13

Page 13 of 16

=WIRD

+MC

#CTRL

#MOV-T01
#MOV/1.1

ATV32H037N4
Control Terminals

configurable relay output	R1A	
configurable relay output (common)	R1C	F19_1 / #PSD/7.4
configurable relay output	R1B	
configurable relay output	R2A	
configurable relay output (common)	R2C	F19_2 / #PSD/7.4
External power supply for control internal power supply for STO	P24	F19_3 / #PSD/7.4
STO input	STO	F19_5 / #PSD/7.4
Configrablae logic input	LI1	
Configrablae logic input	LI2	
Configrablae logic input	LI3	
Configrablae logic input	LI4	
Configrablae logic input	LI5	
Configrablae logic input	LI6	
Logic input power supply	+24V	
Power supply for reference potentiometer	+10V	
Common	COM1	0V_11 / #PSD/10.1
Analog current input	AI3	
Analog voltage input	AI2	
Analog voltage input	AI1	
Votage or current analog output	AO1	
Common	COM2	
Common	COM3	
Logic output	LO-	
Logic output	LO+	F19_4 / #PSD/7.4

14

#MOV-T02
#MOV/2.1

ATV32H037N4
Control Terminals

configurable relay output	R1A	
configurable relay output (common)	R1C	F20_1 / #PSD/7.5
configurable relay output	R1B	
configurable relay output	R2A	
configurable relay output (common)	R2C	F20_2 / #PSD/7.5
External power supply for control internal power supply for STO	P24	F20_3 / #PSD/7.5
STO input	STO	F20_5 / #PSD/7.5
Configrablae logic input	LI1	
Configrablae logic input	LI2	
Configrablae logic input	LI3	
Configrablae logic input	LI4	
Configrablae logic input	LI5	
Configrablae logic input	LI6	
Logic input power supply	+24V	
Power supply for reference potentiometer	+10V	
Common	COM1	0V_12 / #PSD/10.1
Analog current input	AI3	
Analog voltage input	AI2	
Analog voltage input	AI1	
Votage or current analog output	AO1	
Common	COM2	
Common	COM3	
Logic output	LO-	
Logic output	LO+	F20_4 / #PSD/7.5

Modification	Date	Name	Original	Replacement of
			Date	2015/11/13
			Ed.	klakob
			Appr	

Distributed / Modbus TCP / Logic Controller M251

TVDA

Schneider Electric

Drive 2 Control Terminals Altivar 32

Replaced by

EIO0000001822.01

=WIRD

+MC

#CTRL

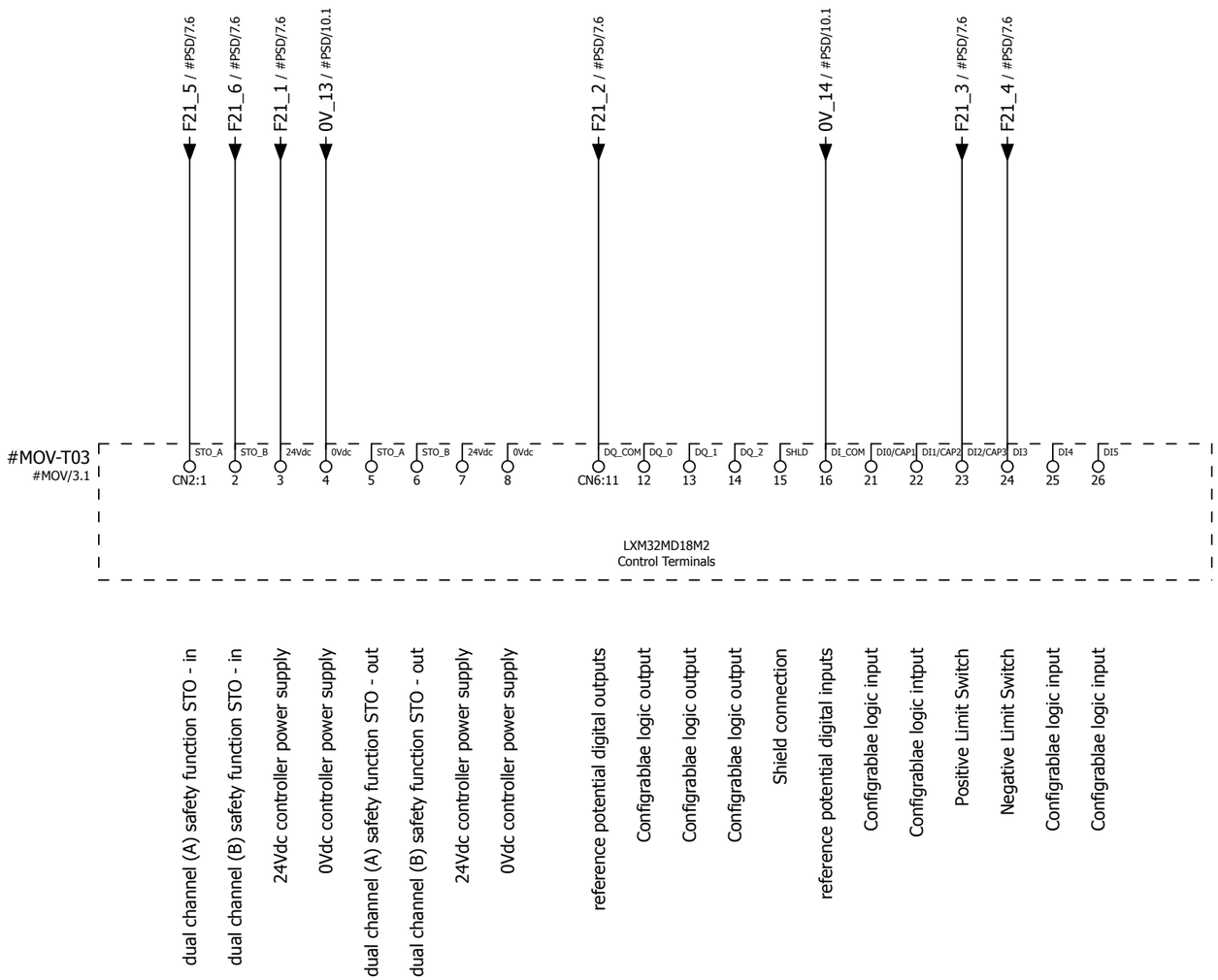
Page 14 of 16

=WIRD+MC.#CTRL/14

13 15

0	1	2	3	4	5	6	7	8	9

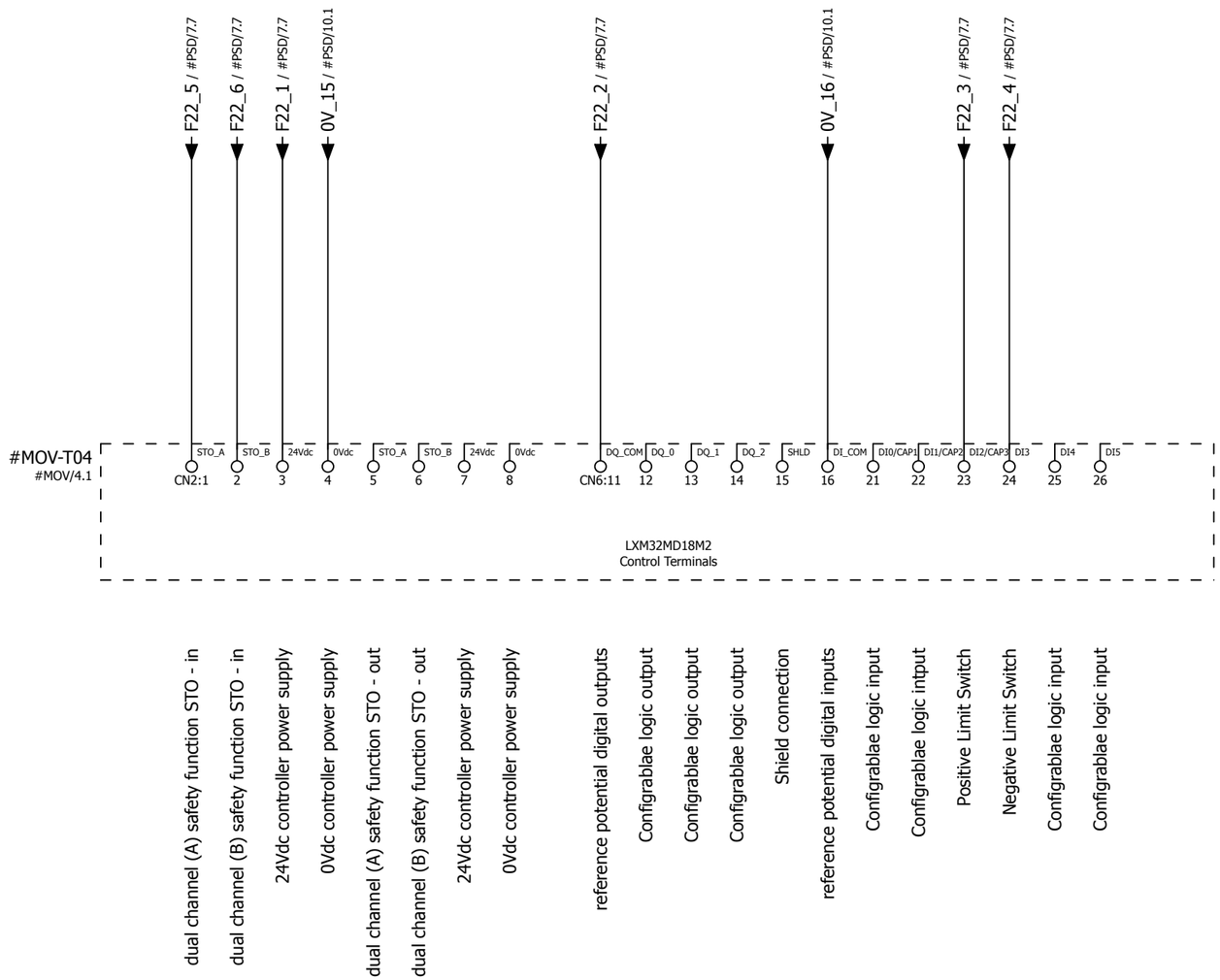
The axes in this architecture are used as modulo type, therefore the inputs for limit switches are connected to 24V dc permanently.



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Drive 3 Control Terminals Lexium 32M	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 15
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#CTRL/15	of 16

0	1	2	3	4	5	6	7	8	9

The axes in this architecture are used as modulo type, therefore the inputs for limit switches are connected to 24V dc permanently.



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Drive 4 Control Terminals Lexium 32M	=WIRD	+MC
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 16
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#CTRL/16	of 16

#PSD/4.8 / 1L1 → 1L1 / 2.0
#PSD/4.8 / 1L2 → 1L2 / 2.0
#PSD/4.8 / 1L3 → 1L3 / 2.0
#PSD/5.8 / N → N / 2.0

-F01
1.6-2.5A
1 3 5 21 13
I> I> I>
2 4 6 22 14
#CTRL/2.1

PE

-T01
#CTRL/13.1
#COM/4.1
Altivar 32
0.37 kW, 2.1 A

R S T
L1 L2 L3 PE1

RUN run RUN err
Ref Mon Conf
Value Unit
ESC

Schneider Electric
ATV32H037N4

#CTRL/13.1	#CTRL/13.1	#CTRL/13.2	#CTRL/13.2	#CTRL/13.2	#CTRL/13.2	#CTRL/13.3	#CTRL/13.3	#CTRL/13.3	#CTRL/13.3	#CTRL/13.4	#CTRL/13.4	#CTRL/13.4	#CTRL/13.5
R1A	R1C	R1B	R2A	R2C	P24	STO	LI1	LI2	LI3	LI4	LI5	LI6	+24V

change over contact of programmable relay R1
NO contact of R2 programmable relay
External power supply for control circuit / Internal power supply for STO
STO (Safe Torgue Off) safety function input
Configurable logic inputs
Programable logic input or Pulse input 20 kpps
Programable logic input or Input for PTC probes
Logic input power supply

Filter settings: Normal / IT system
LI6 input switch SW2: PTC / LI
Logic input switch SW1: Source / Sink Ext / Sink Int

Output to braking resistor (+ polarity)		DC bus (+) polarity	DC bus (-) polarity	Power supply for reference potentiometer	Analog I/O common	Analog current input	Analog voltage input	Analog voltage input	Voltage or current analog output (collector)	Analog I/O common	Analog I/O common	Logic output		CANopen/Modbus RJ45
PBe	PB	PA	PC	+10V	COM1	AI3	AI2	AI1	AO1	COM2	COM3	LO-	LO+	CAN
		+	-	#CTRL/13.5	#CTRL/13.5	#CTRL/13.5	#CTRL/13.6	#CTRL/13.6	#CTRL/13.6	#CTRL/13.6	#CTRL/13.7	#CTRL/13.7	#CTRL/13.7	

-A01
Communication Module
VW3A3616
Slot for Communication Module
ETH ETH
ETH1 ETH2
#COM/4.2 #COM/4.2

T1 T2 T3 PE2
U V W

-WM01
OELFLEX® classic 110 G
5 m
4x1,5 mm²
1 1,5 | 2 1,5 | 3 1,5 | GNYE 1,5

U V W
M 3~
PE

-M01
0,18kW / 0,47A
230/400V

Drive 1

#CTRL/16

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Drive 1 Variable speed drive Altivar 32	=WIRD	+MC
			Ed.	kJakob				#MOV
			Appr		TVDA		EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of / Replaced by		=WIRD+MC#MOV/1	of 4

1.8 / 1L1 → 1L1 / 3.0
1.8 / 1L2 → 1L2 / 4.0
1.8 / 1L3
1.8 / N → N / 3.0

-F02
1.6-2.5A
1 3 5 21 13
I> I> I>
2 4 6 22 14
#CTRL/2.2

PE

-T02
#CTRL/14.1
#COM/4.3
Altivar 32
0.37 kW, 2.1 A

R S T
L1 L2 L3 PE1

#CTRL/14.1 #CTRL/14.1 #CTRL/14.2 #CTRL/14.2 #CTRL/14.2 #CTRL/14.2 #CTRL/14.3
R1A R1C R1B R2A R2C P24 STO

#CTRL/14.3 #CTRL/14.3 #CTRL/14.3 #CTRL/14.4 #CTRL/14.4 #CTRL/14.4 #CTRL/14.5
LI1 LI2 LI3 LI4 LI5 LI6 +24V

RUN run RUN err
Ref Mon Conf
Value Unit
ESC

Schneider Electric
ATV32H037N4

change over contact of programmable relay R1
NO contact of R2 programmable relay
External power supply for control circuit / Internal power supply for STO
STO (Safe Torgue Off) safety function input
Configurable logic inputs
Programable logic input or Pulse input 20 kpps
Programable logic input or Input for PTC probes
Logic input power supply

Filter settings
Normal IT system
LI6 input switch SW2
PTC LI
Logic input switch SW1
Source Sink Ext Sink Int

Output to braking resistor
(+ polarity)
DC bus (+) polarity
DC bus (-) polarity
Power supply for reference potentiometer
Analog I/O common
Analog current input
Analog voltage input
Analog voltage input
Voltage or current analog output (collector)
Analog I/O common
Analog I/O common
Logic output
CANopen/Modbus RJ45

T1 T2 T3 PE2
U V W
PBe PB PA PC +10V COM1 AI3 AI2 AI1 AO1 COM2 COM3 LO- LO+
+

#CTRL/14.5 #CTRL/14.5 #CTRL/14.5 #CTRL/14.6 #CTRL/14.6 #CTRL/14.6 #CTRL/14.6 #CTRL/14.7 #CTRL/14.7 #CTRL/14.7

-A01
Communication Module
VW3A3616
Slot for Communication Module
ETH ETH
CAN
ETH1 ETH2
#COM/4.3 #COM/4.4

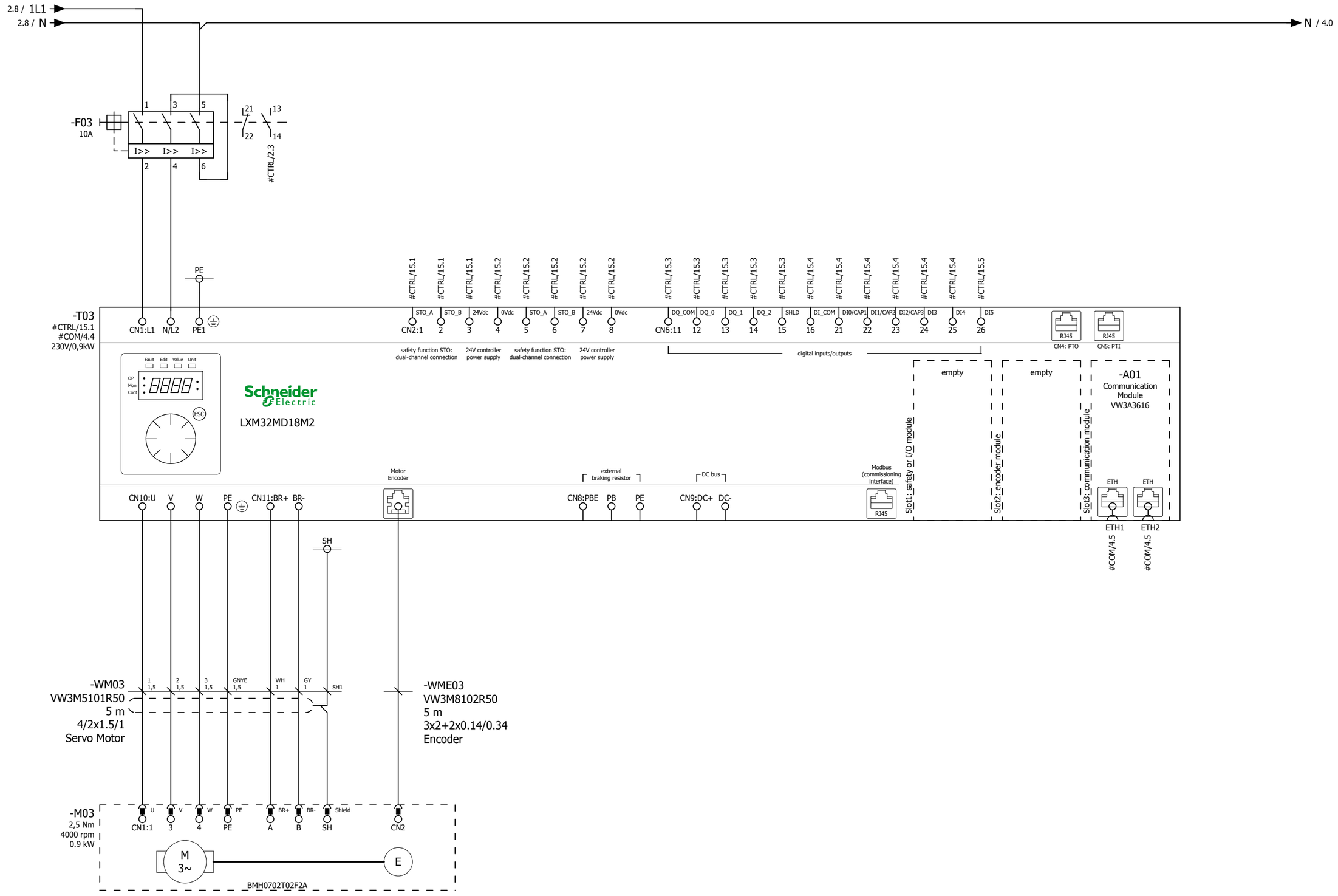
-WM02
OELFLEX® classic 110 G
5 m
4x1,5 mm²
1 1,5 | 2 1,5 | 3 1,5 | GNYE 1,5
U V W

-M02
0,18kW / 0,47A
230/400V
M 3~
PE

Drive 2

1 3

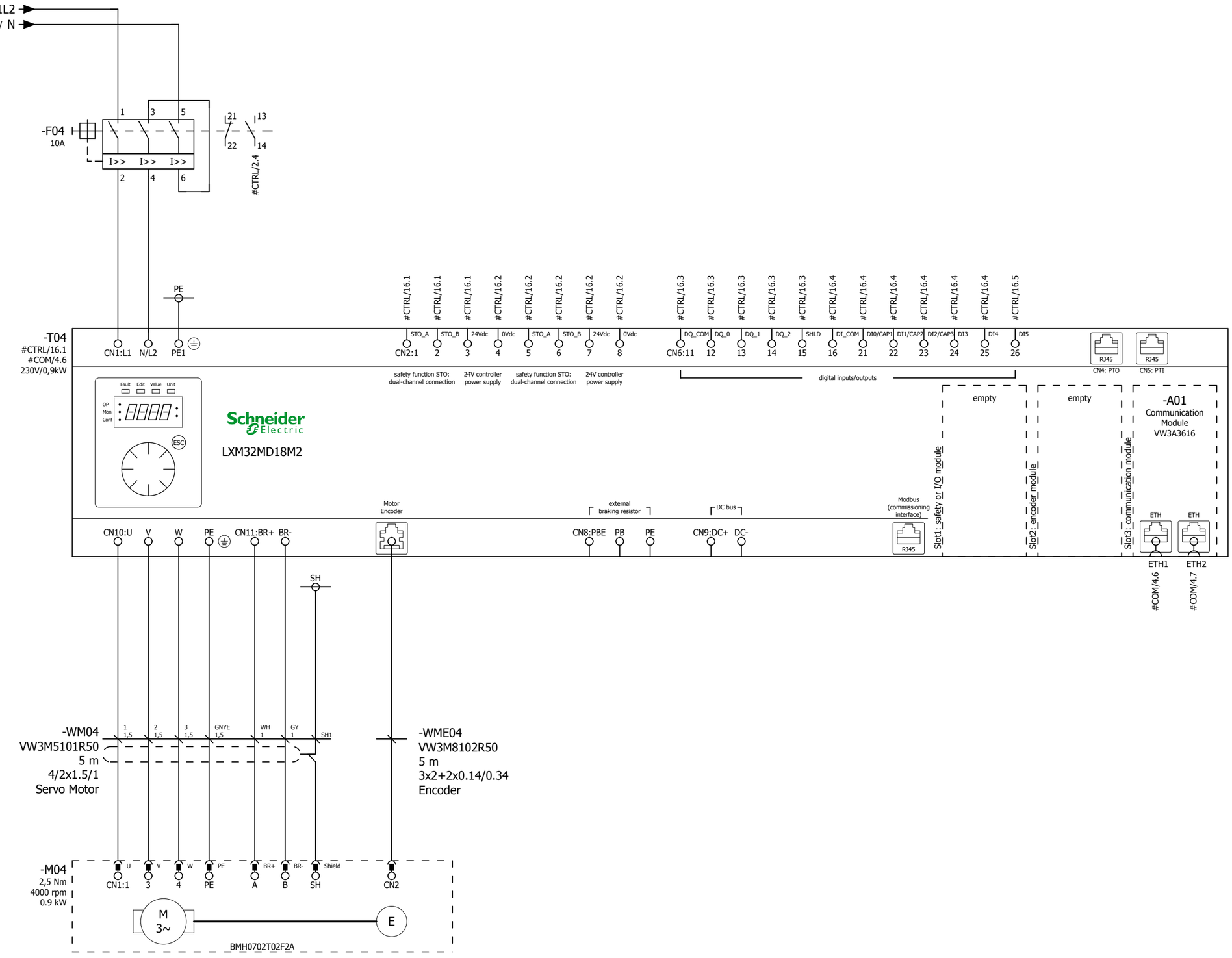
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Drive 2 Variable speed drive Altivar 32	=WIRD +MC
			Ed.	kJakob				#MOV
			Appr		TVDA			EIO0000001822.01 Page 2
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#MOV/2 of 4



Drive 3

2 4

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Drive 3 Servo drive Lexium 32M	=WIRD	+MC
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#MOV/3	of 4



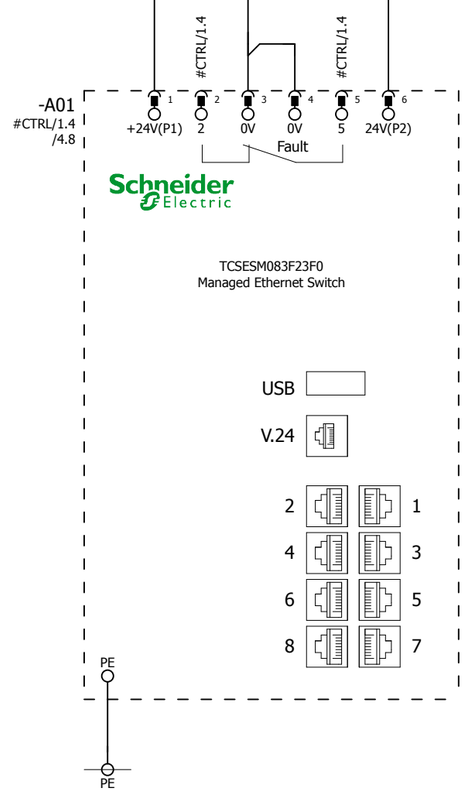
Drive 4

#COM/1

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Drive 4 Servo drive Lexium 32M	=WIRD	+MC
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 4
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+MC#MOV/4	of 4

0	1	2	3	4	5	6	7	8	9

#PSD/7.1 / F17_1
#PSD/7.2 / F18_1
#PSD/10.1 / 0V_17



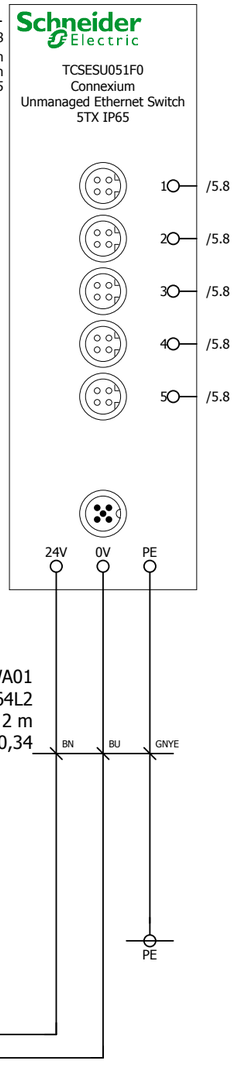
#MOV/4

2

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251		Power Supply Ethernet Switch	=WIRD	+MC
			Ed.	kJakob					#COM
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#COM/1	of 6

0	1	2	3	4	5	6	7	8	9

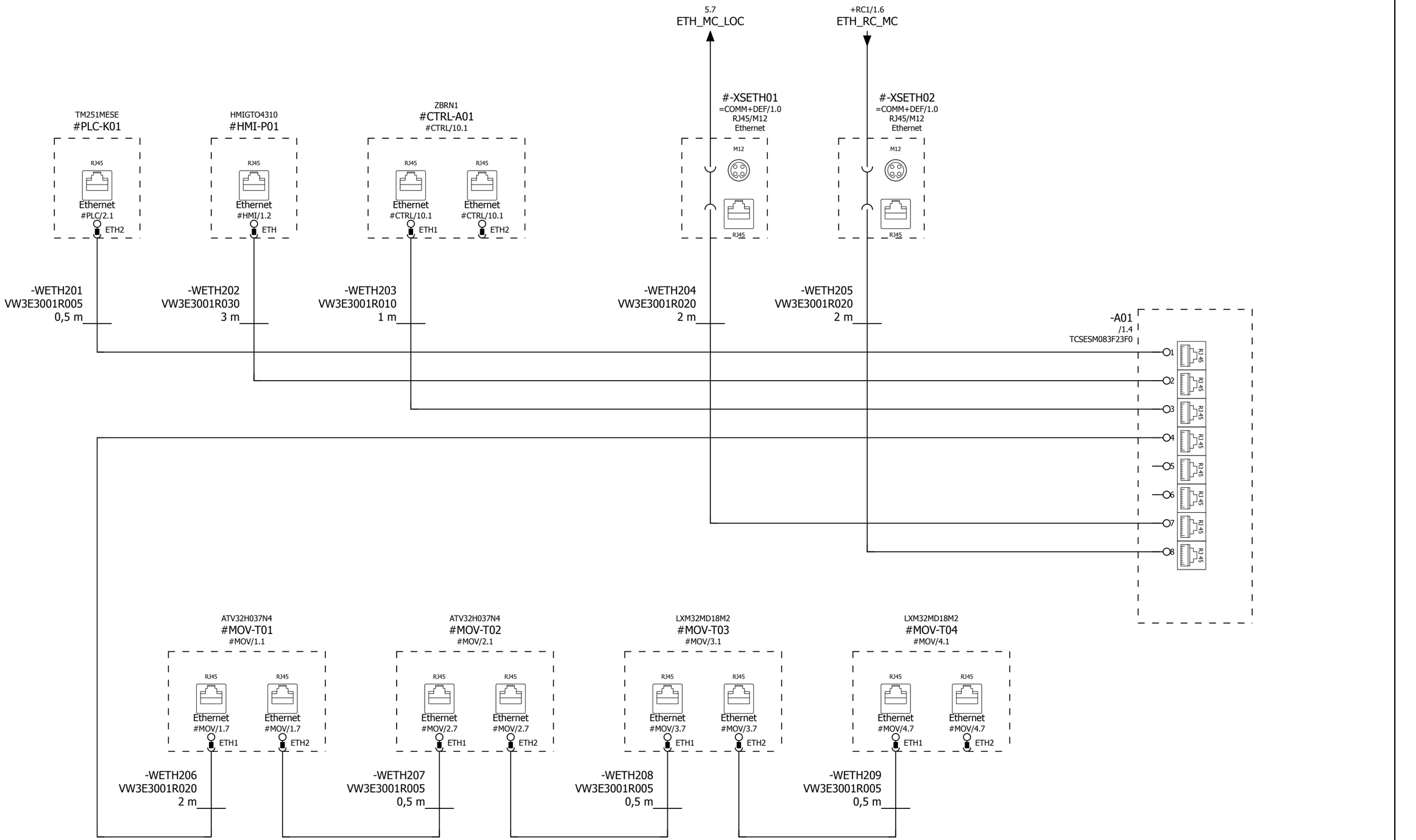
+LOC-A01
/5.8
Connexium
Unmanaged Ethernet Switch
5TX IP65



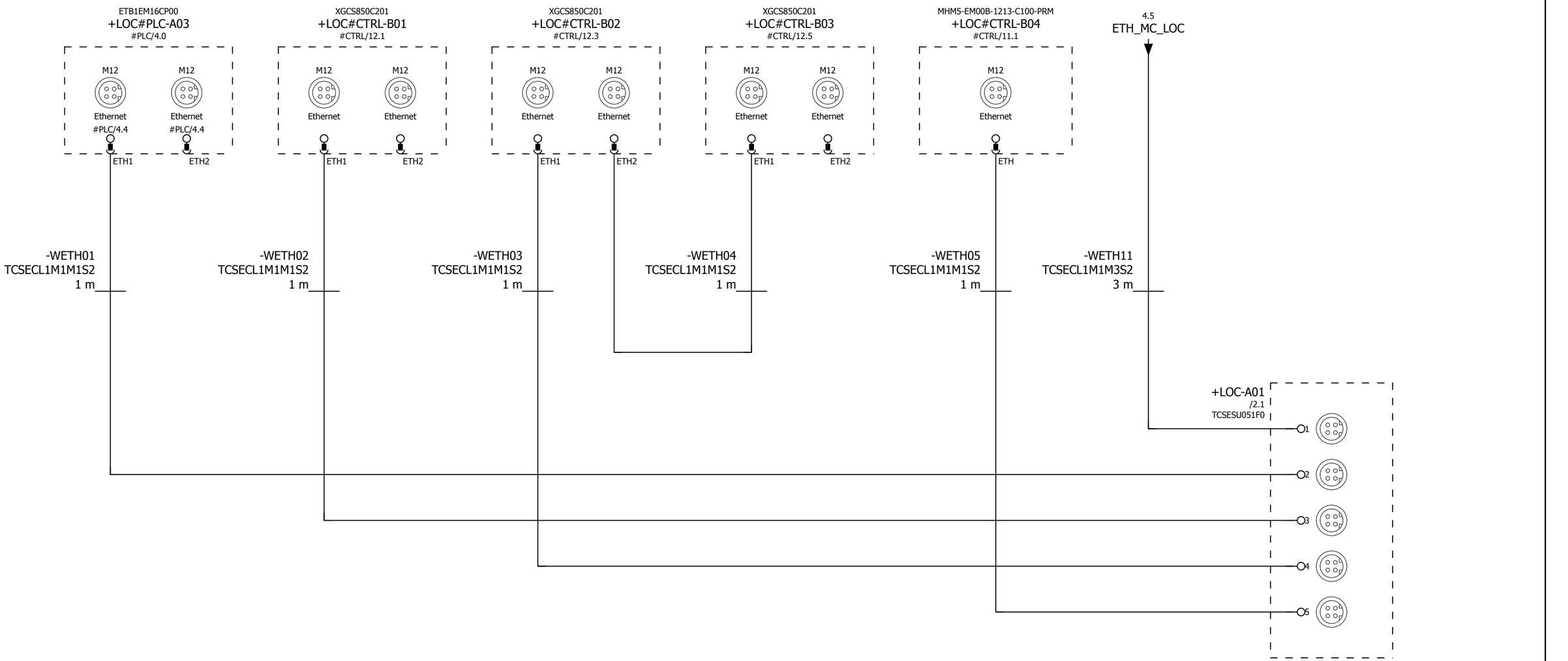
1 3

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply Ethernet Switch		=WIRD +MC
			Ed.	kJakob					#COM
			Appr		TVDA			EIO0000001822.01	Page 2
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#COM/2	of 6

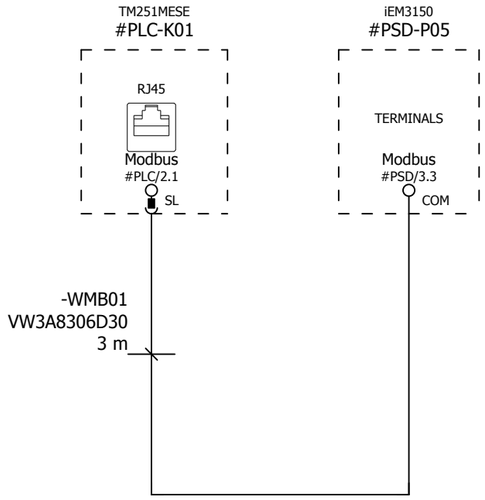
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Ethernet topology - Ethernet network 1	=WIRD	+MC
			Ed.	kJakob					#COM
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#COM/3	of 6



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Ethernet topology - Modbus TCP Fieldbus	=WIRD	+MC
			Ed.	kJakob					#COM
			Appr		TVDA			EIO0000001822.01	Page 4
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#COM/4	of 6



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Ethernet topology - Modbus TCP Fieldbus LOCAL	=WIRD	+MC
			Ed.	kJakob					#COM
			Appr		TVDA			EIO0000001822.01	Page 5
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+MC#COM/5	of 6

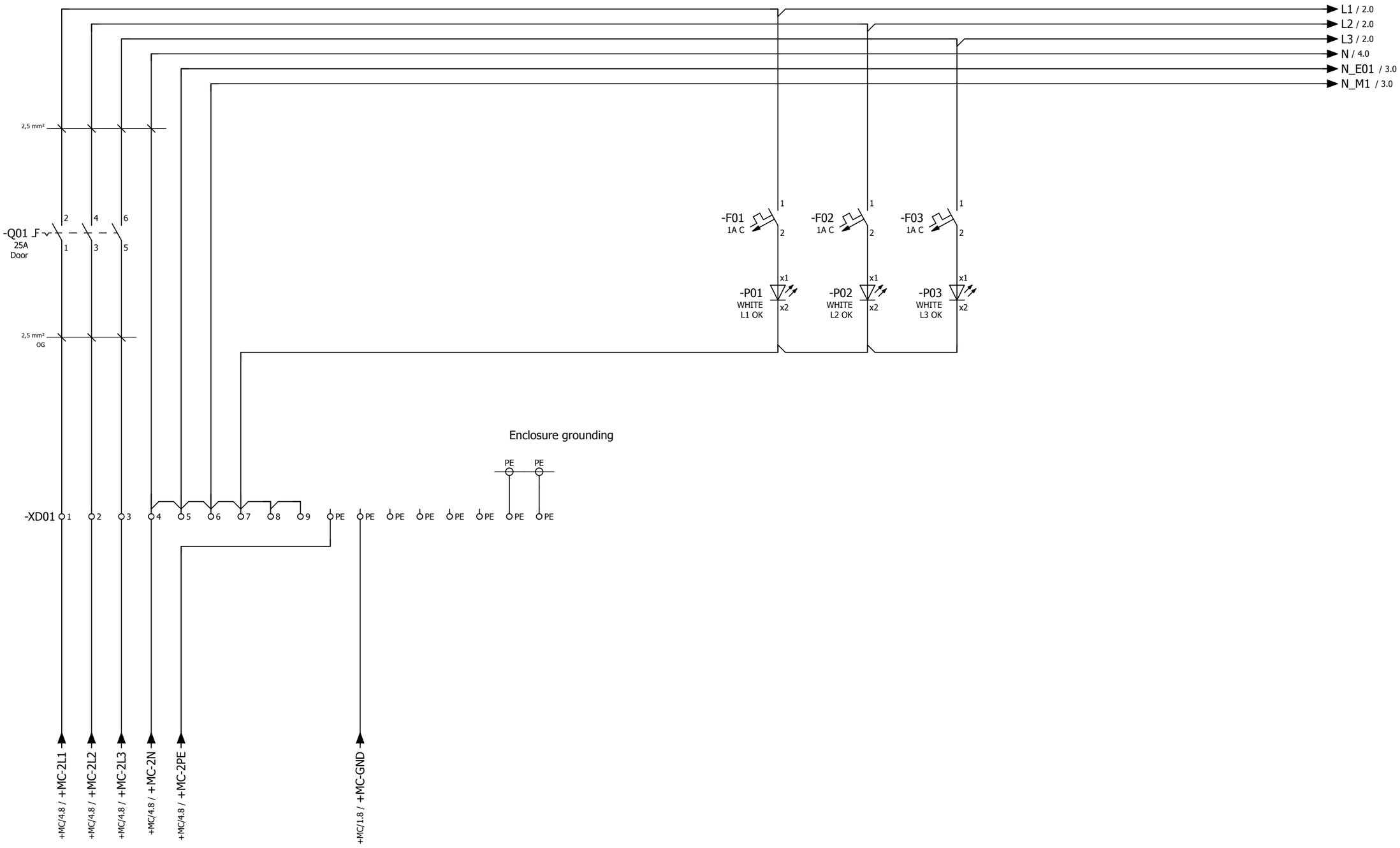


VW3A8603D30 - wiring		
RJ45	color	iEM3150
1	wh/gn	nc
2	gn	nc
3	wh/or	nc
4	bu	D1
5	wh/bu	D0
6	or	nc
7	wh/bn	nc
8	bn	GND

5

+RC1#PSD/1

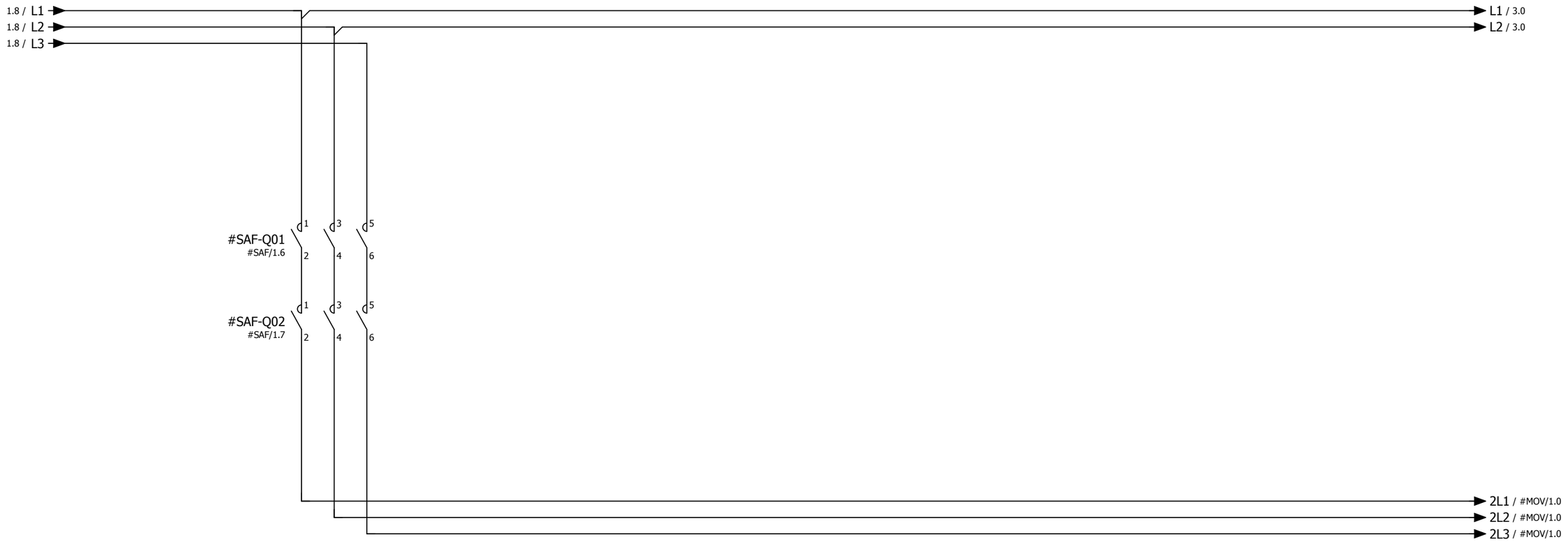
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Modbus topology		=WIRD	+MC
			Ed.	kJakob						#COM
			Appr		TVDA				EIO0000001822.01	Page 6
Modification	Date	Name	Original		Replacement of	Replaced by			=WIRD+MC#COM/6	of 6



+MC#COM/6

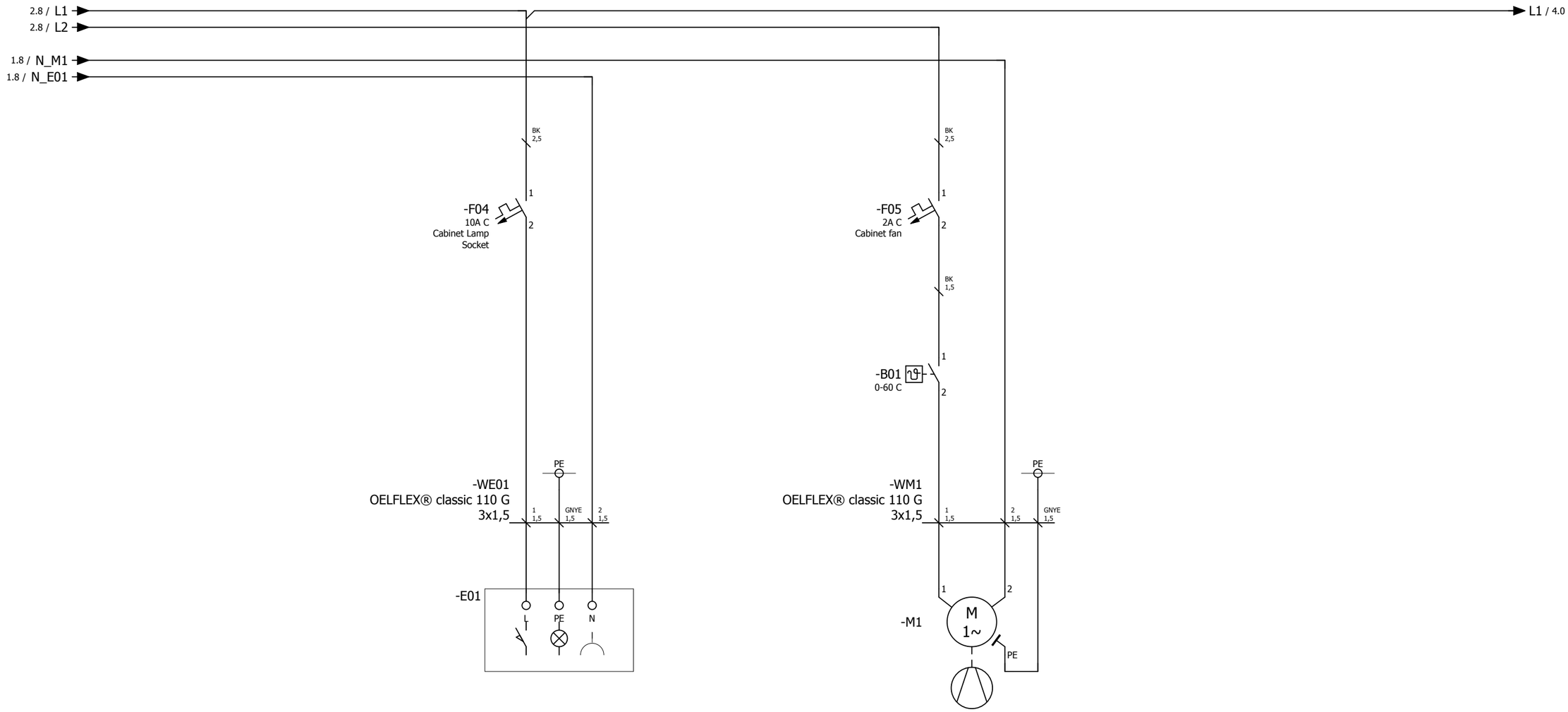
2

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 400V ac	=WIRD +RC1
			Ed.	kJakob				#PSD
			Appr		TVDA			EIO0000001822.01 Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PSD/1 of 7



Main Contactors

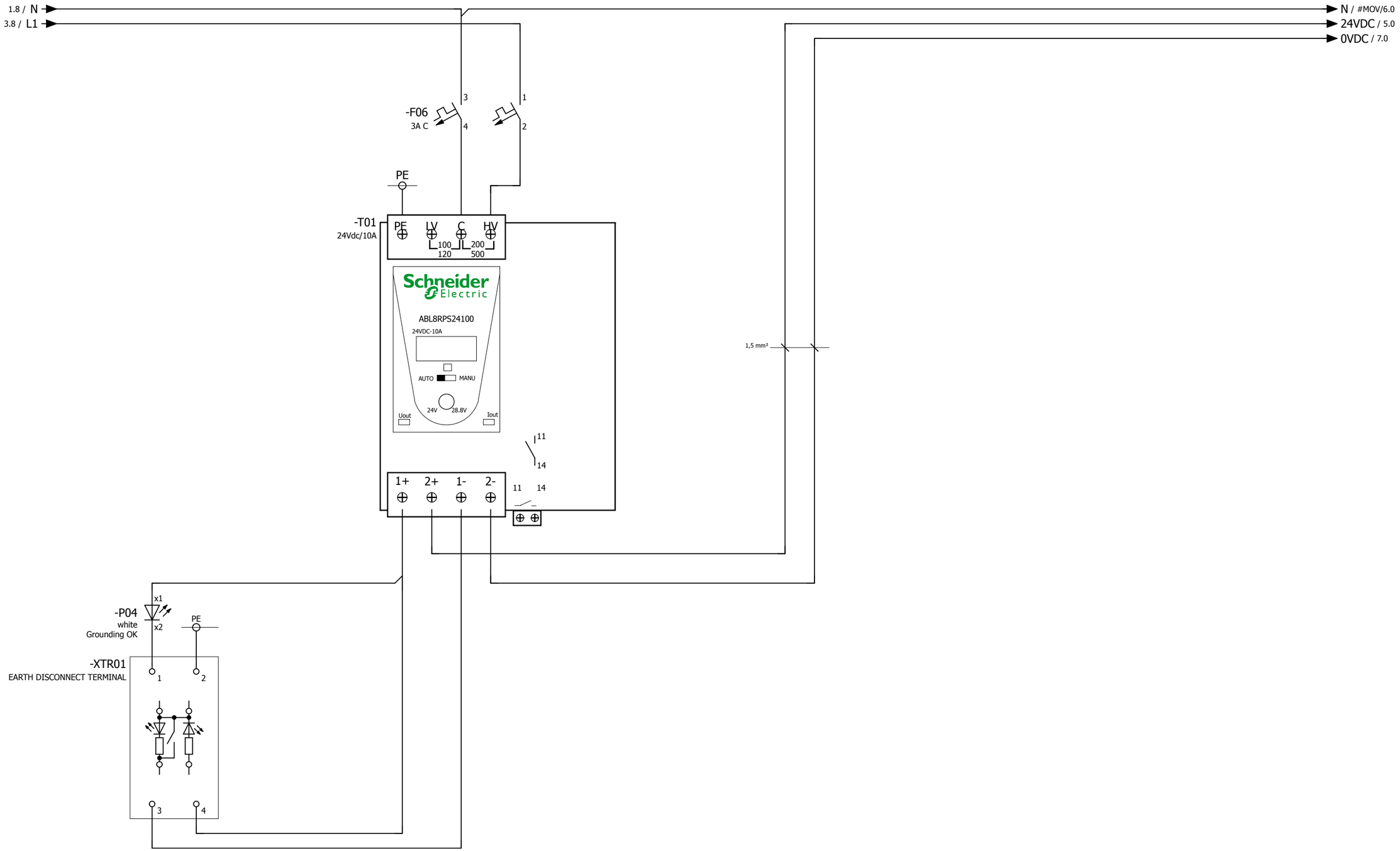
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 400V ac	=WIRD	+RC1
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 2
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PSD/2	of 7



Cabinet Lamp, Socket

Cabinet fan

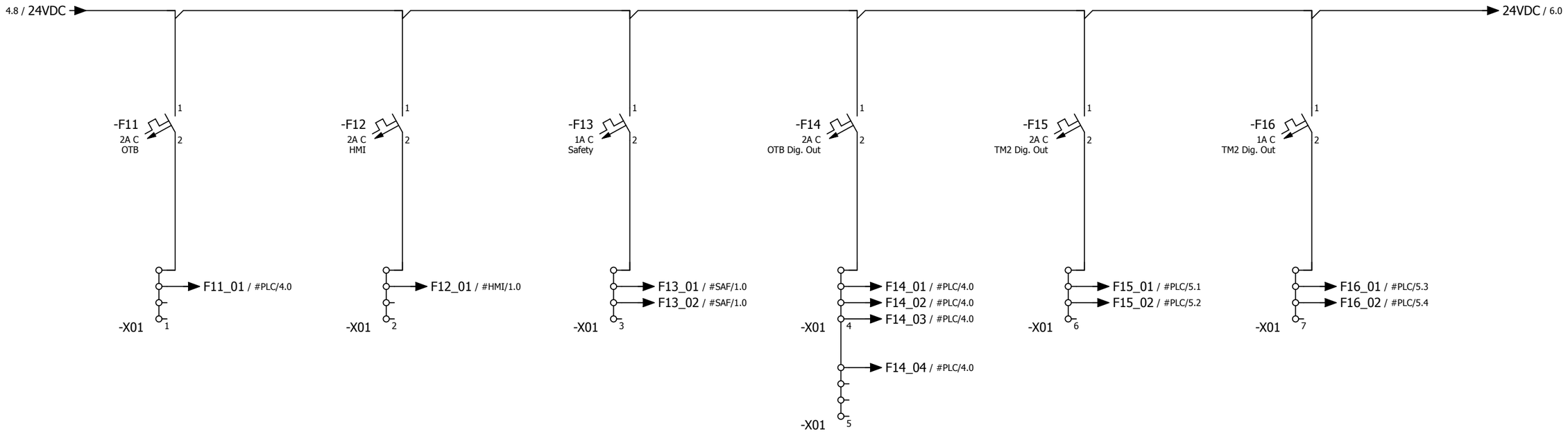
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Cabinet Lamp, Socket, Fan	=WIRD	+RC1
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#PSD/3	of 7



Earth disconnect terminal

Power Supply

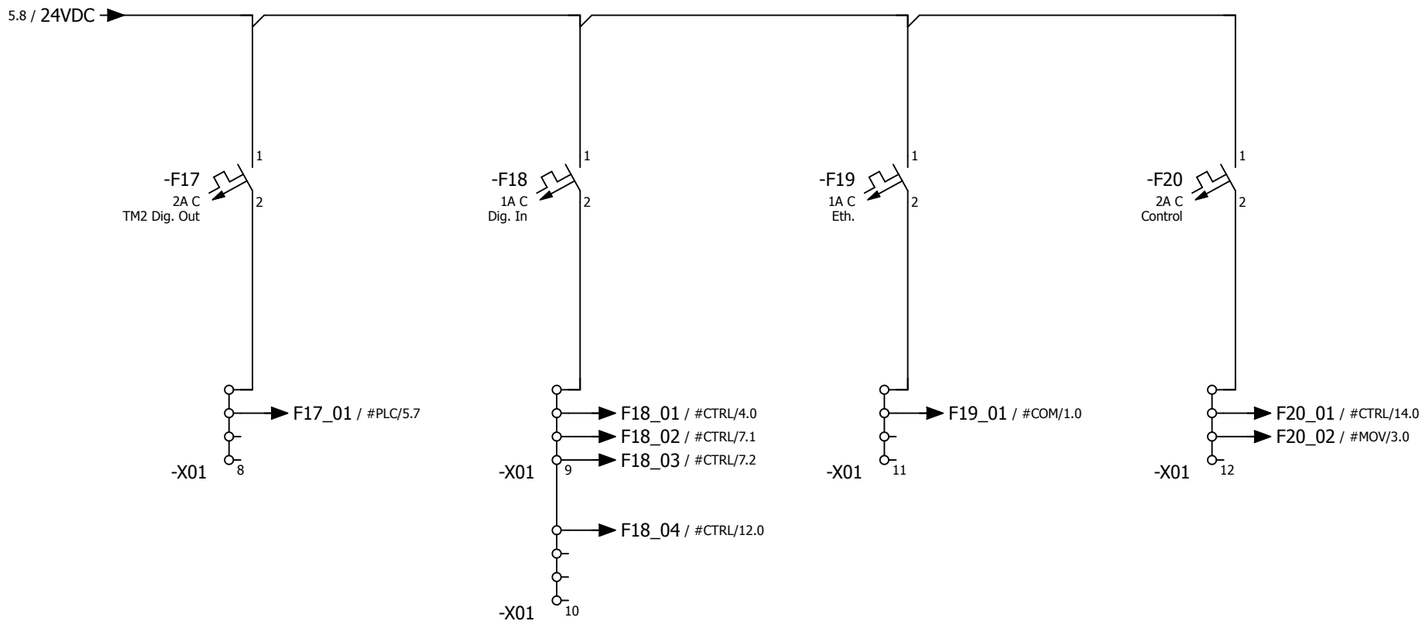
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24V dc	=WIRD	+RC1
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 4
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PSD/4	of 7



OTB	HMI	Safety Function	OTB Digital Outputs	TM2 Digital Outputs	TM2 Digital Outputs
power supply 24V dc	power supply 24V dc	power supply 24V dc	power supply 24V dc	power supply 24V dc	power supply 24V dc

4 6

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24 V dc		=WIRD +RC1
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 5
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PSD/5	of 7



TM2 Digital Outputs
power supply 24V dc

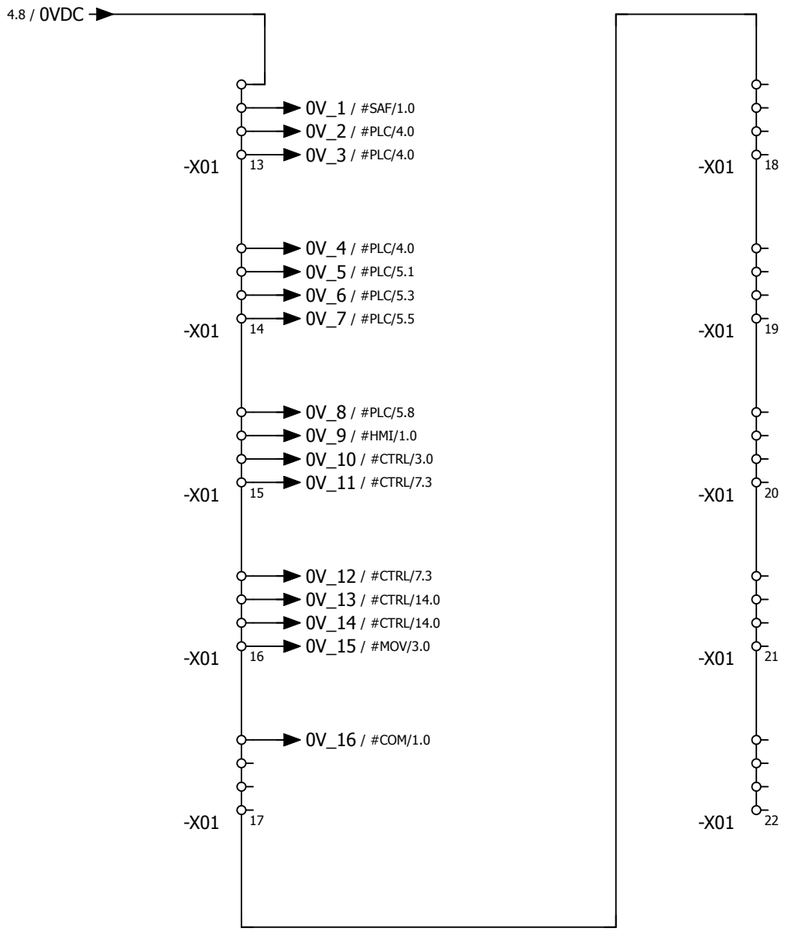
Digital Inputs
power supply 24V dc

Ethernet Switch
power supply 24V dc

Control
power supply 24V dc

5 7

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 24 V dc	=WIRD	+RC1
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 6
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PSD/6	of 7



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply 0 V dc	=WIRD	+RC1
			Ed.	kJakob					#PSD
			Appr		TVDA			EIO0000001822.01	Page 7
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#PSD/7	of 7

0	1	2	3	4	5	6	7	8	9

#PSD/5.4 / F13_01

#PSD/5.4 / F13_02

F13_02 / #CTRL/1.0

-Q02
/1.7

-Q01
/1.6

-SP01 E
BLUE
E-Stop ACK

#CTRL/3.1

-S01
E-Stop
Door

-K01
/1.6
/1.7
#CTRL/1.1

A1 S33 S34 S39 13 23 33

LOGIC
A1/A2
K1
K2
24VAC/DC
Schneider Electric
XPS AF5130

A2 S11 S12 S21 S22 14 24 34

/1.6 /1.7 #CTRL/1.1

-K01
/1.1
13
K1
K2
14

-K01
/1.1
23
K1
K2
24

-Q01
4kW / 24V dc
A1
A2

-Q02
4kW / 24V dc
A1
A2

#PSD/7.1 / 0V_1

1 2 #PSD/2.2
3 4 #PSD/2.2
5 6 #PSD/2.2
13 14
21 22 /1.2

Outputchannel
Main Contactor 1

1 2 #PSD/2.2
3 4 #PSD/2.2
5 6 #PSD/2.2
13 14
21 22 /1.2

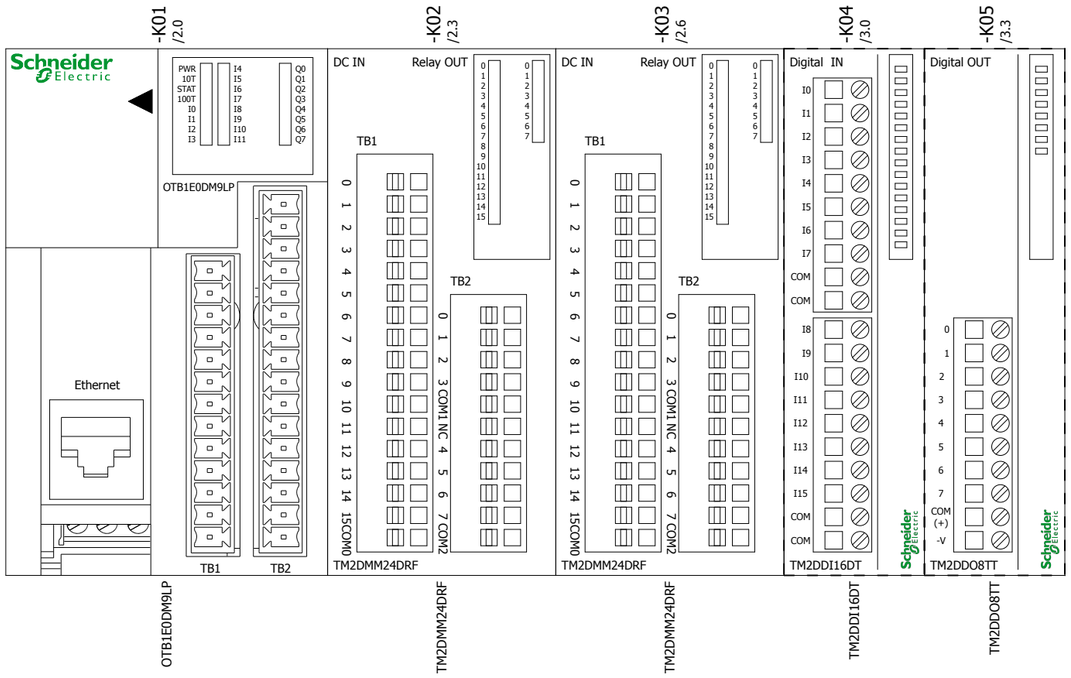
Outputchannel
Main Contactor 2

EMERGENCY STOP

#PSD/7

#PLC/1

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Emergency Stop	=WIRD	+RC1
			Ed.	kJakob					#SAF
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#SAF/1	of 1



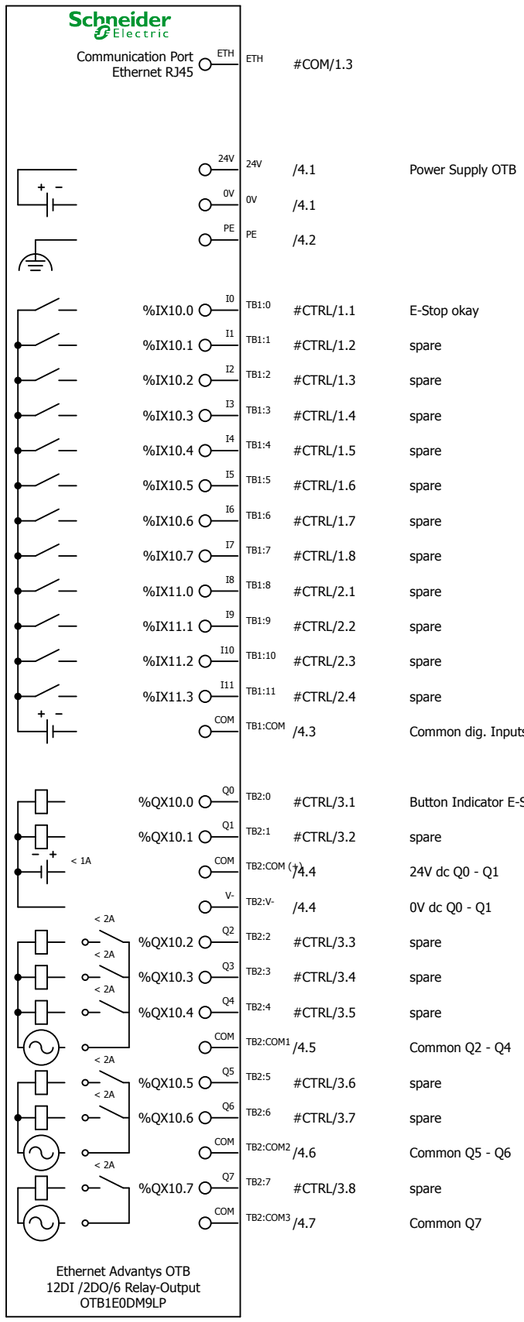
#SAF/1

2

			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Assembly layout OTB I/O island	=WIRD	+RC1
			Ed.	kJakob					#PLC
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PLC/1	of 5

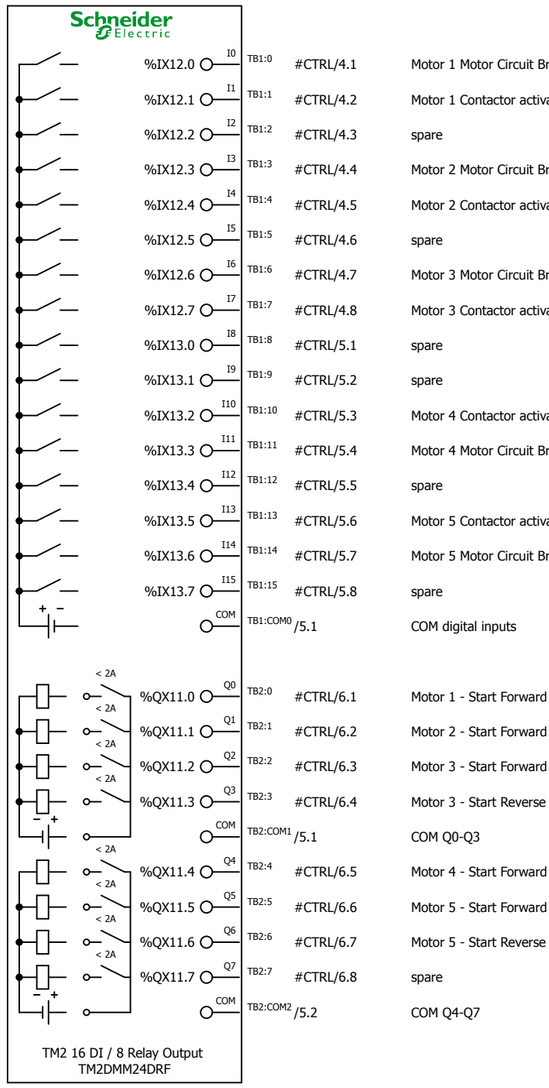
0	1	2	3	4	5	6	7	8	9

-K01



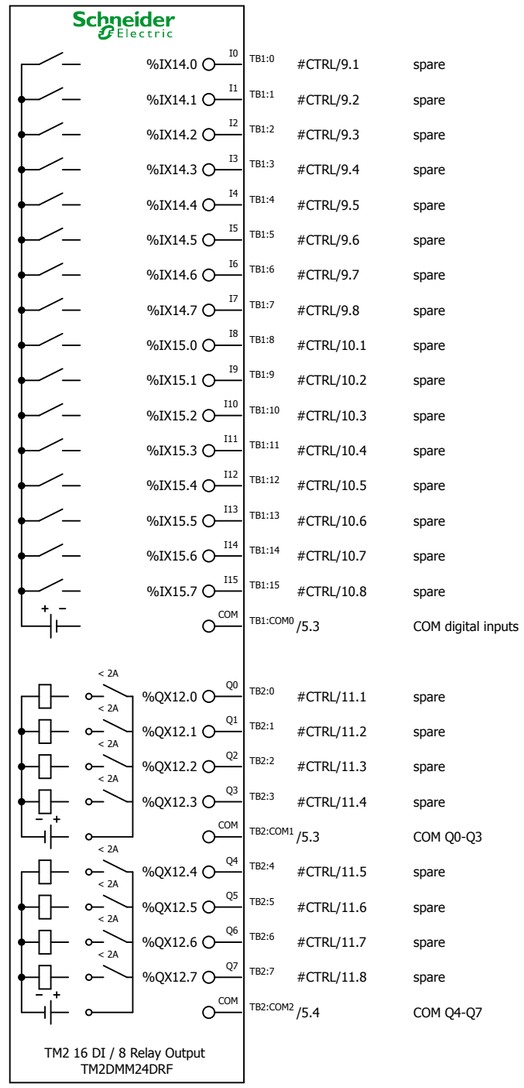
/4.1
#COM/1.3
/1.0

-K02



/1.1

-K03

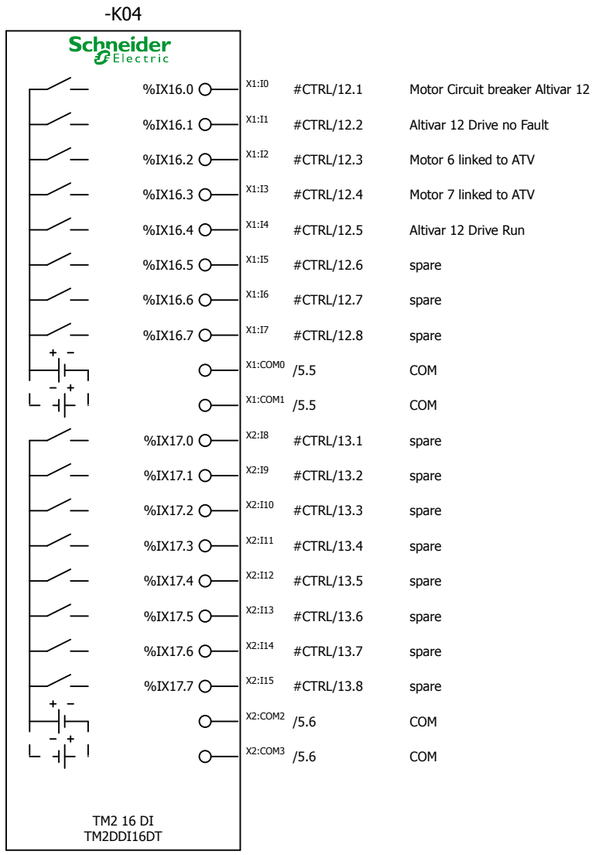


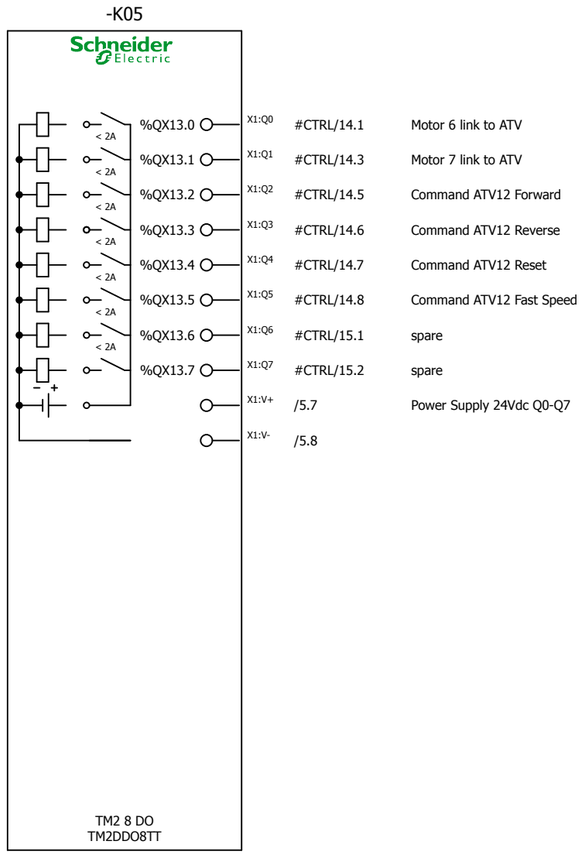
/1.2

1 3

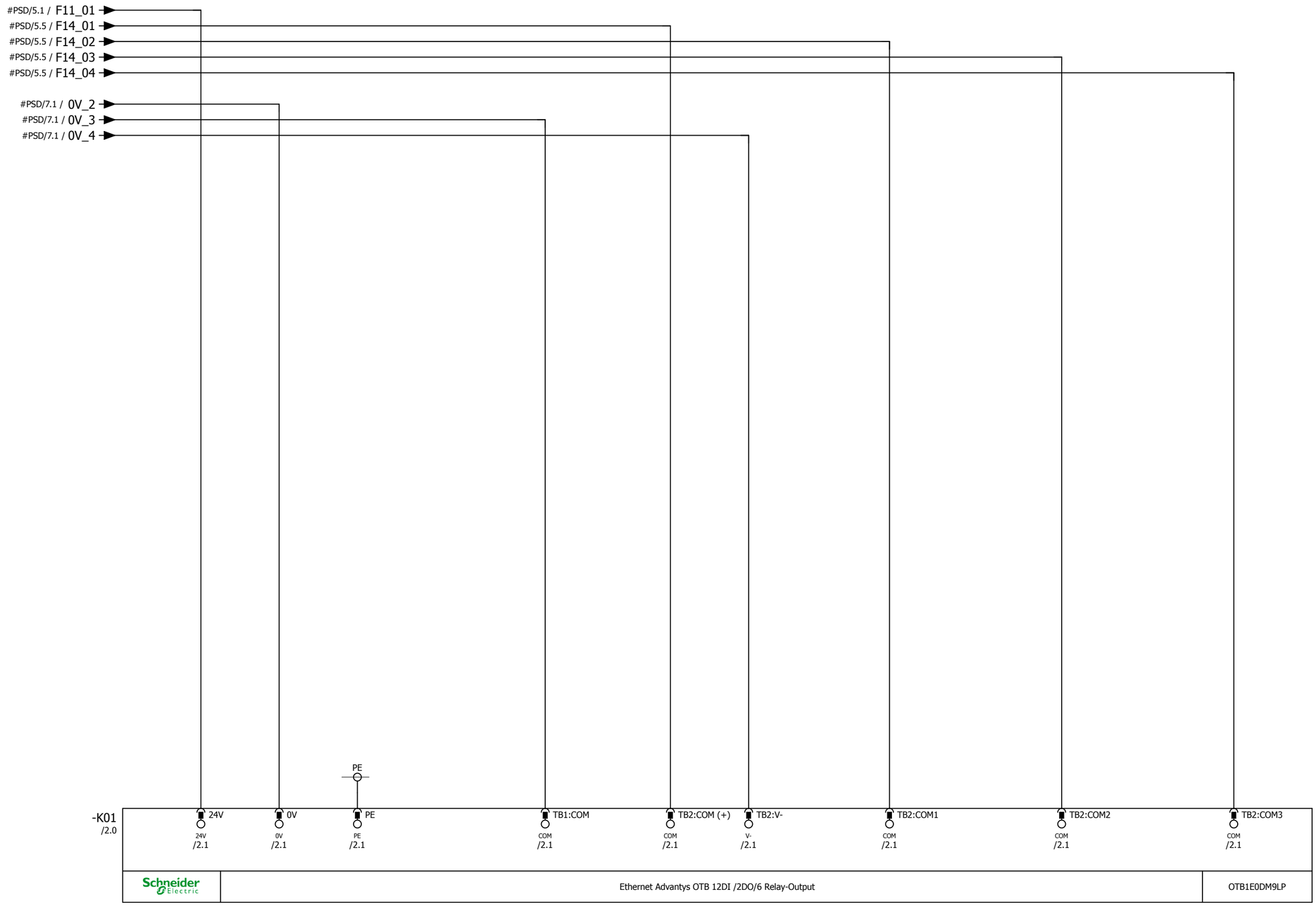
			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Overview OTB + TM2 Expansion	=WIRD +RC1
			Ed.	kJakob				#PLC
			Appr		TVDA			EIO0000001822.01 Page 2
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PLC/2 of 5

0	1	2	3	4	5	6	7	8	9





			Date	2015/10/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Overview TM2 Expansion	=WIRD	+RC1
			Ed.	kJakob					#PLC
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PLC/3	of 5



Power Supply OTB

Common dig. Inputs

24V dc
Q0 - Q1

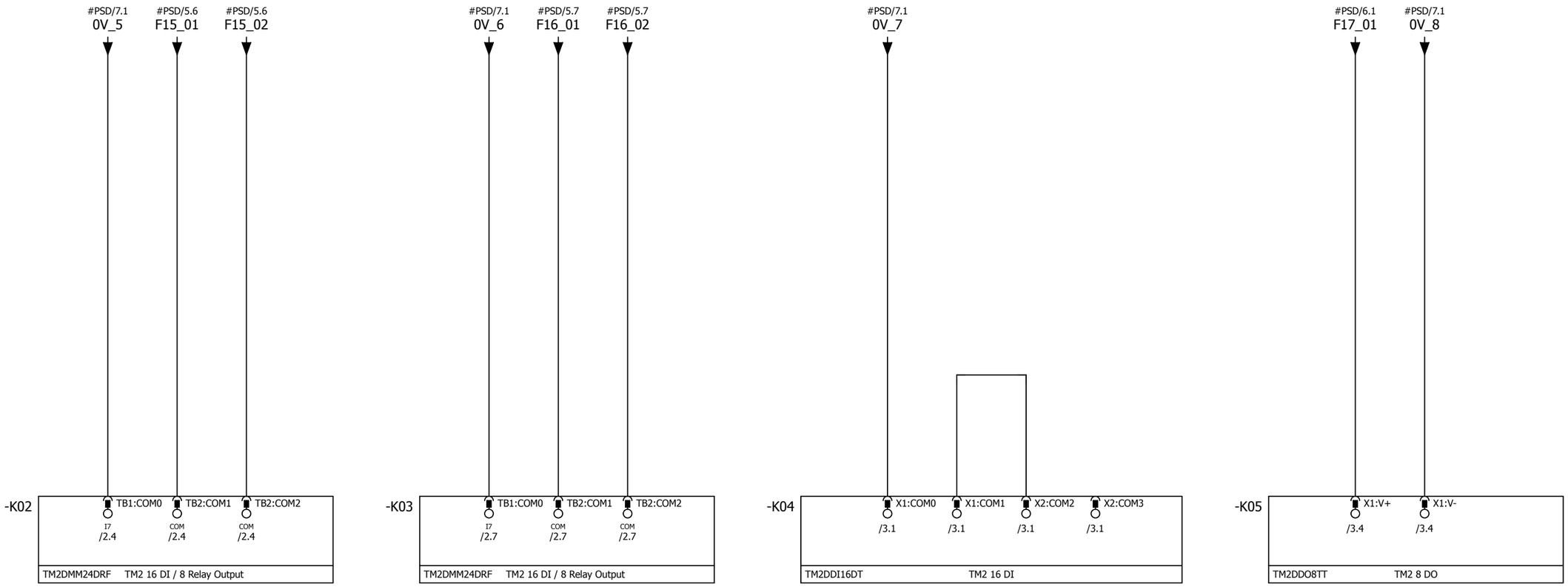
0V dc
Q0 - Q1

Common
Q2 - Q4

Common
Q5 - Q6

Common
Q7

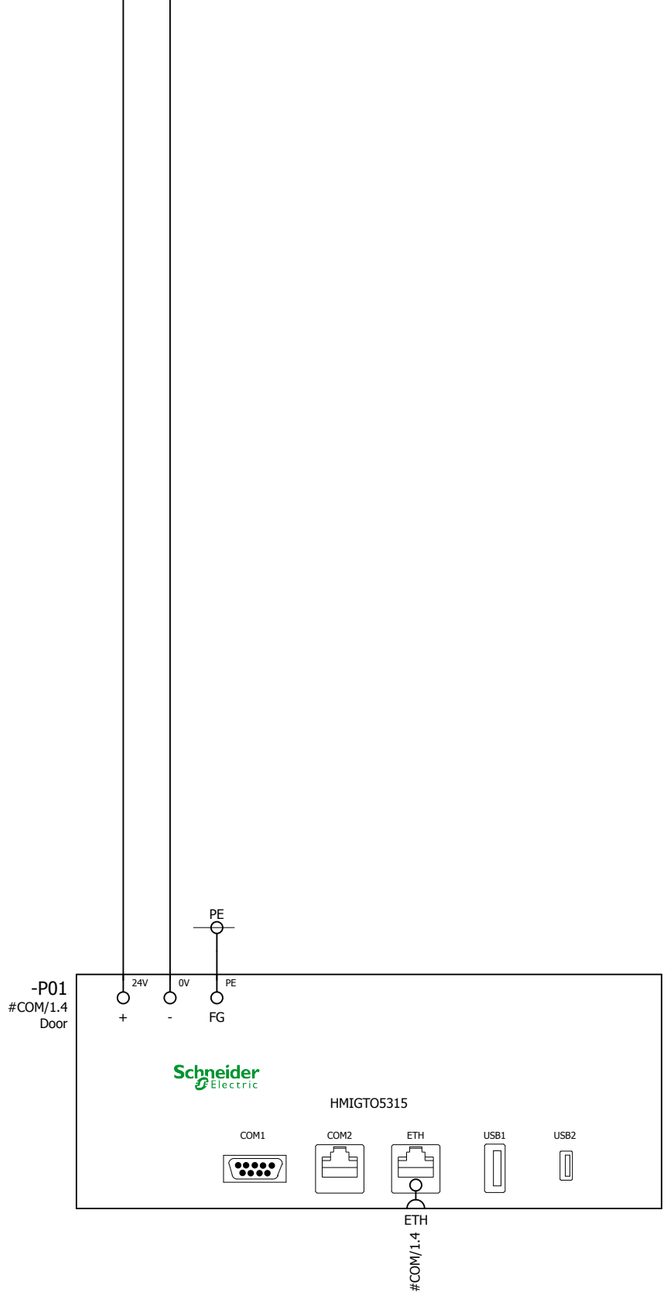
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power supply OTB	=WIRD +RC1
			Ed.	kJakob				#PLC
			Appr		TVDA			EIO0000001822.01 Page 4
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PLC/4 of 5



#HMI/1

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Power Supply TM2	=WIRD +RC1
			Ed.	kJakob				#PLC
			Appr		TVDA			EIO0000001822.01 Page 5
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#PLC/5 of 5

#PSD/5.2 / F12_01
#PSD/7.1 / 0V_9

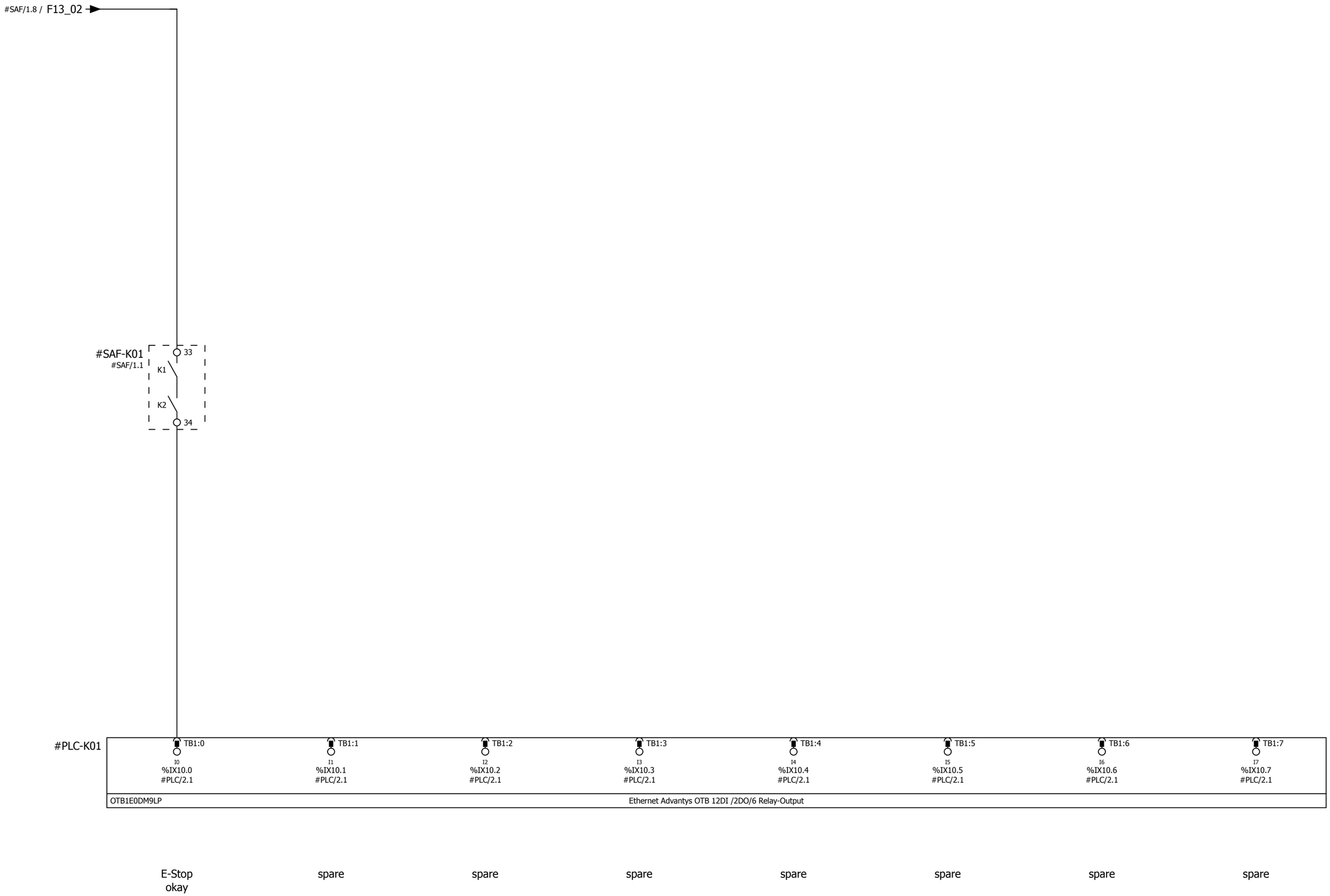


#PLC/5

#CTRL/1

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	HMI Magelis Panel Power Supply	=WIRD	+RC1
			Ed.	kJakob					#HMI
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#HMI/1	of 1

0	1	2	3	4	5	6	7	8	9



#HMI/1

2

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Inputs OTB	=WIRD	+RC1
			Ed.	kJakob				#CTRL	
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/1	of 15

0	1	2	3	4	5	6	7	8	9

#PLC-K01

TB1:8	TB1:9	TB1:10	TB1:11
I8	I9	I10	I11
%IX11.0	%IX11.1	%IX11.2	%IX11.3
#PLC/2.1	#PLC/2.1	#PLC/2.1	#PLC/2.1
OTB1E0DM9LP	Ethernet Advantys OTB 12DI /2DO/6 Relay-Output		

spare | spare | spare | spare

1 3

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Inputs OTB		=WIRD +RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 2
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/2	of 15

0	1	2	3	4	5	6	7	8	9

#PLC-K01

OTB1E0DM9LP	Ethernet Advantys OTB 12DI /2DO/6 Relay-Output

#PLC/2.1 %QX10.0 Q0	#PLC/2.1 %QX10.1 Q1	#PLC/2.1 %QX10.2 Q2	#PLC/2.1 %QX10.3 Q3	#PLC/2.1 %QX10.4 Q4	#PLC/2.1 %QX10.5 Q5	#PLC/2.1 %QX10.6 Q6	#PLC/2.1 %QX10.7 Q7
TB2:0	TB2:1	TB2:2	TB2:3	TB2:4	TB2:5	TB2:6	TB2:7
#SAF-SP01 #SAF/1.2							
#PSD/7.1 / 0V_10							
Button Indicator E-Stop ACK	spare	spare	spare	spare	spare	spare	spare

2 4

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Outputs OTB		=WIRD +RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/3	of 15

#PSD/6.2 / F18_01

7.1 / WXTSY01X9_1

F18_01 / 12.0

#MOV-FQ01-F01 43 44

#MOV-FQ02-F01 43 44

#MOV-FQ03-F01 43 44

WH/GN

BN/GN

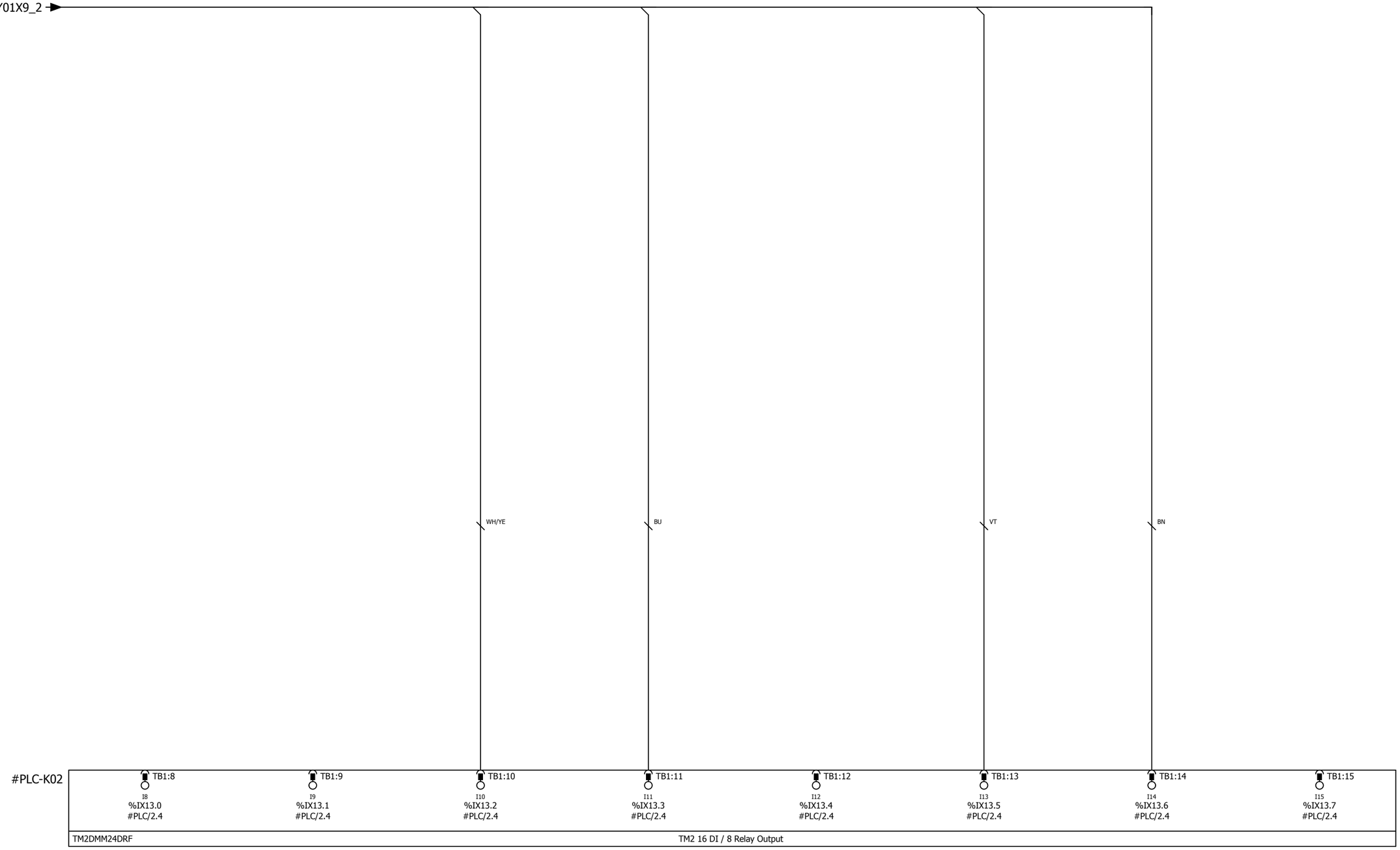
BK

#PLC-K02

TB1:0	TB1:1	TB1:2	TB1:3	TB1:4	TB1:5	TB1:6	TB1:7
I0	I1	I2	I3	I4	I5	I6	I7
%IX12.0	%IX12.1	%IX12.2	%IX12.3	%IX12.4	%IX12.5	%IX12.6	%IX12.7
#PLC/2.4	#PLC/2.4	#PLC/2.4	#PLC/2.4	#PLC/2.4	#PLC/2.4	#PLC/2.4	#PLC/2.4
TM2DMM24DRF	TM2 16 DI / 8 Relay Output						
Motor 1 Motor Circuit Breaker ready	Motor 1 Contactor activated	spare	Motor 2 Motor Circuit Breaker ready	Motor 2 Contactor activated	spare	Motor 3 Motor Circuit Breaker ready	Motor 3 Contactor activated

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Inputs TM2	=WIRD +RC1
			Ed.	kJakob				#CTRL
			Appr		TVDA			EIO0000001822.01 Page 4
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/4 of 15

7.1 / WXTSY01X9_2



spare | spare | Motor 4 Contactor activated | Motor 4 Motor Circuit Breaker trip | spare | Motor 5 Contactor activated | Motor 5 Motor Circuit Breaker trip | spare

4 6

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Inputs TM2		=WIRD +RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 5
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/5	of 15

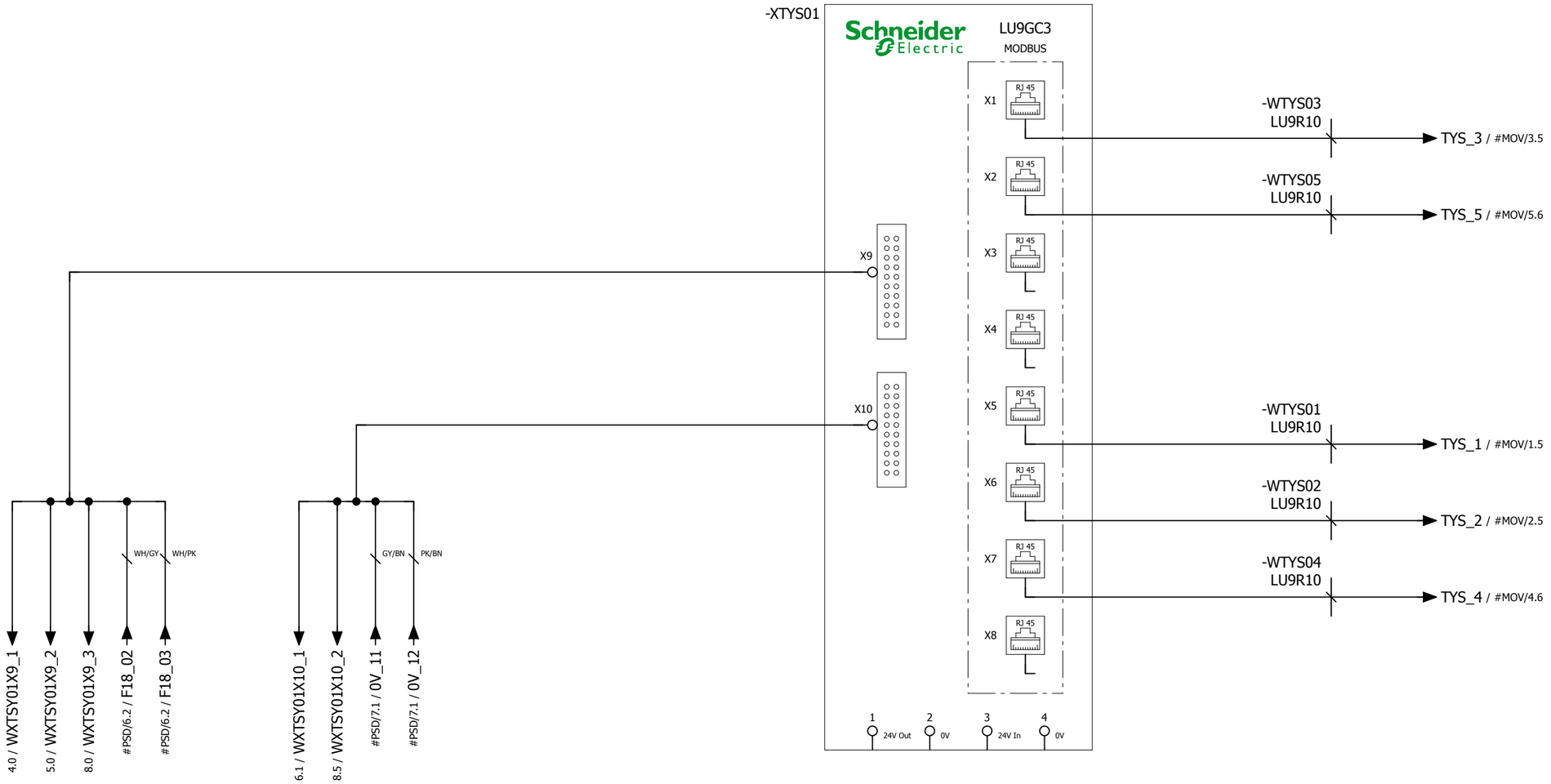
#PLC-K02

TM2DMM24DRF — TM2 16 DI / 8 Relay Output

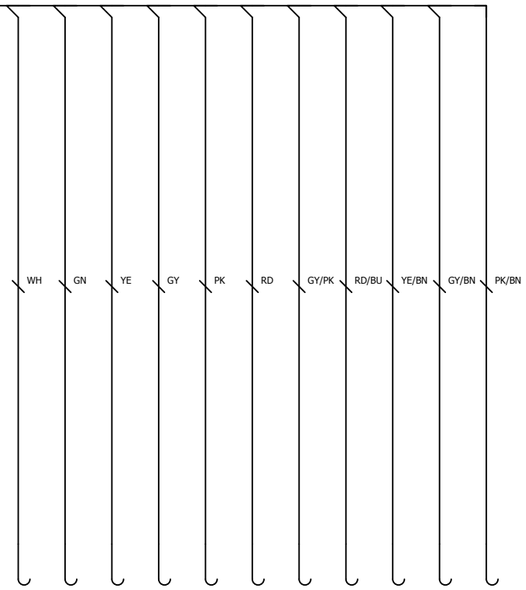
#PLC/2.4 %QX11.0 Q0	#PLC/2.4 %QX11.1 Q1	#PLC/2.4 %QX11.2 Q2	#PLC/2.4 %QX11.3 Q3	#PLC/2.4 %QX11.4 Q4	#PLC/2.4 %QX11.5 Q5	#PLC/2.4 %QX11.6 Q6	#PLC/2.4 %QX11.7 Q7
TB2:0	TB2:1	TB2:2	TB2:3	TB2:4	TB2:5	TB2:6	TB2:7
GY	PK	WH	BK	BU	BN	VT	
7.2 / WXTSY01X10_1							
Motor 1 - Start Forward	Motor 2 - Start Forward	Motor 3 - Start Forward	Motor 3 - Start Reverse	Motor 4 - Start Forward	Motor 5 - Start Forward	Motor 5 - Start Reverse	spare

5 7

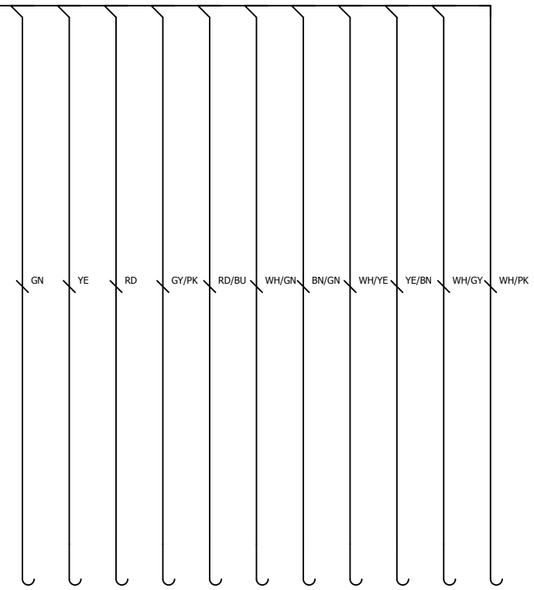
			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Outputs TM2	=WIRD +RC1
			Ed.	kJakob				#CTRL
			Appr		TVDA			EIO0000001822.01 Page 6
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/6 of 15


-XTYS01
Schneider Electric
LU9GC3
MODBUS
X1
X2
X3
X4
X5
X6
X7
X8
RJ 45
-WTYS03
LU9R10
TYS_3 / #MOV/3.5
-WTYS05
LU9R10
TYS_5 / #MOV/5.6
-WTYS01
LU9R10
TYS_1 / #MOV/1.5
-WTYS02
LU9R10
TYS_2 / #MOV/2.5
-WTYS04
LU9R10
TYS_4 / #MOV/4.6
X9
X10
1 24V Out
2 0V
3 24V In
4 0V
WH/GY
WH/PK
GY/BN
PK/BN
4.0 / WXTSY01X9_1
5.0 / WXTSY01X9_2
8.0 / WXTSY01X9_3
#PSD/6.2 / F18_02
#PSD/6.2 / F18_03
6.1 / WXTSY01X10_1
8.5 / WXTSY01X10_2
#PSD/7.1 / 0V_11
#PSD/7.1 / 0V_12

7.1 / WXTSY01X9_3 →

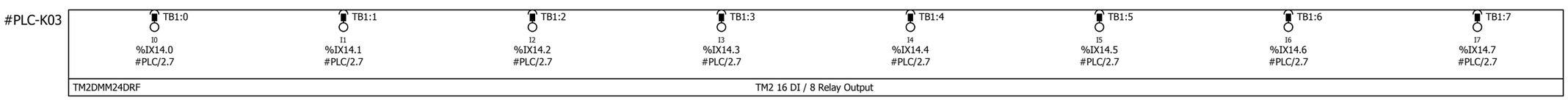


7.2 / WXTSY01X10_2 →



Unused wires of the pre-formed cables connected to the HE10 connectors X9 and X10 on the TeSys splitterbox LU9G02 #CTRL-XTYS01.

0	1	2	3	4	5	6	7	8	9



spare	spare	spare	spare	spare	spare	spare	spare							

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Inputs TM2	=WIRD	+RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 9
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/9	of 15

0	1	2	3	4	5	6	7	8	9

#PLC-K03

TB1:8	TB1:9	TB1:10	TB1:11	TB1:12	TB1:13	TB1:14	TB1:15
I8	I9	I10	I11	I12	I13	I14	I15
%IX15.0	%IX15.1	%IX15.2	%IX15.3	%IX15.4	%IX15.5	%IX15.6	%IX15.7
#PLC/2.7	#PLC/2.7	#PLC/2.7	#PLC/2.7	#PLC/2.7	#PLC/2.7	#PLC/2.7	#PLC/2.7
TM2DMM24DRF	TM2 16 DI / 8 Relay Output						
spare	spare	spare	spare	spare	spare	spare	spare

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Inputs TM2		=WIRD +RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 10
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/10	of 15

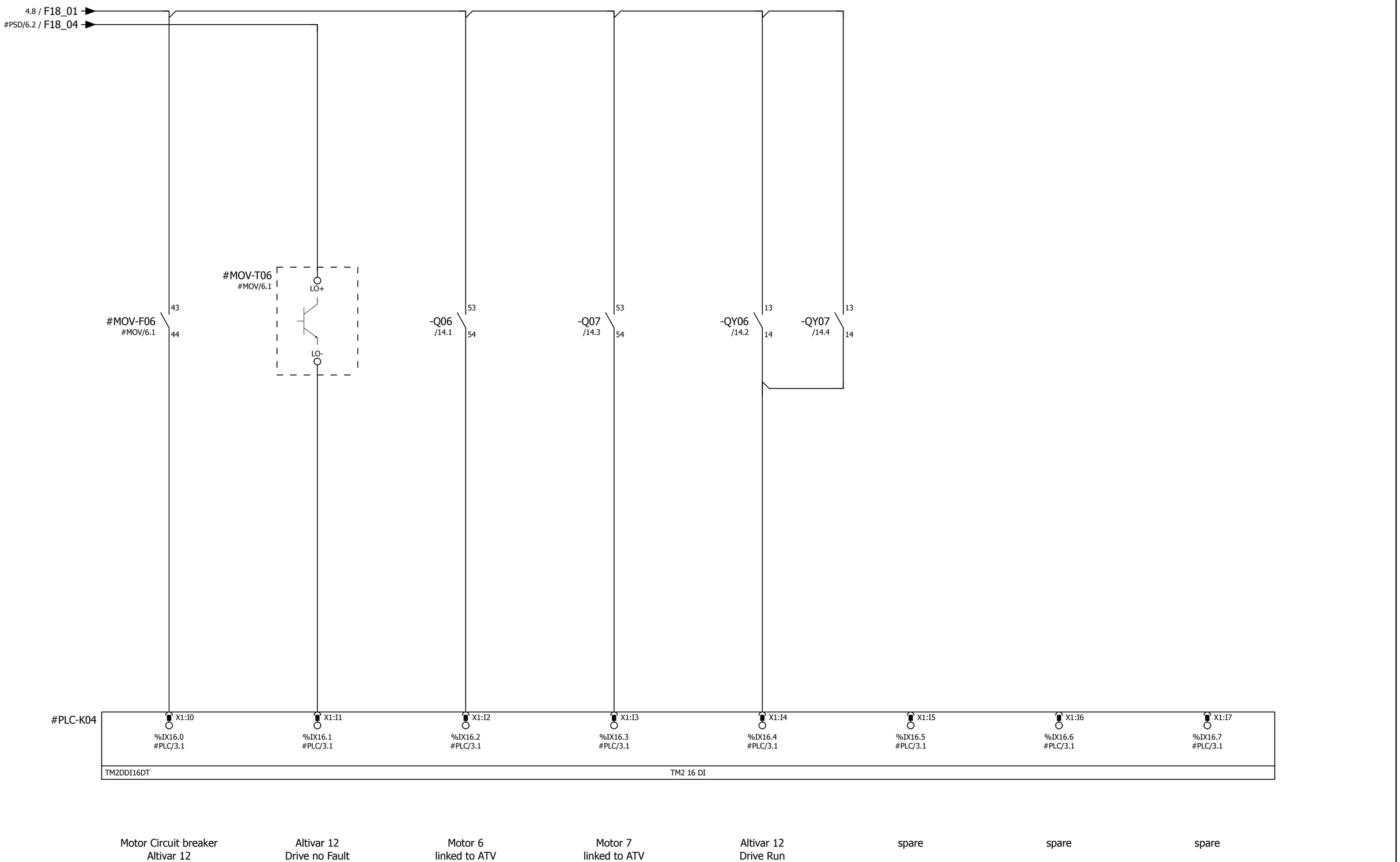
0	1	2	3	4	5	6	7	8	9

#PLC-K03

TM2DMM24DRF	TM2 16 DI / 8 Relay Output						
#PLC/2.7 %QX12.0 Q0 TB2:0	#PLC/2.7 %QX12.1 Q1 TB2:1	#PLC/2.7 %QX12.2 Q2 TB2:2	#PLC/2.7 %QX12.3 Q3 TB2:3	#PLC/2.7 %QX12.4 Q4 TB2:4	#PLC/2.7 %QX12.5 Q5 TB2:5	#PLC/2.7 %QX12.6 Q6 TB2:6	#PLC/2.7 %QX12.7 Q7 TB2:7
spare	spare	spare	spare	spare	spare	spare	spare

10 12

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Outputs TM2		=WIRD +RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 11
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/11	of 15



			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital inputs TM2	=WIRD +RC1
			Ed.	kJakob				#CTRL
			Appr		TVDA			EIO0000001822.01 Page 12
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/12 of 15

0	1	2	3	4	5	6	7	8	9

#PLC-K04

X2:I8	X2:I9	X2:I10	X2:I11	X2:I12	X2:I13	X2:I14	X2:I15
%IX17.0 #PLC/3.1	%IX17.1 #PLC/3.1	%IX17.2 #PLC/3.1	%IX17.3 #PLC/3.1	%IX17.4 #PLC/3.1	%IX17.5 #PLC/3.1	%IX17.6 #PLC/3.1	%IX17.7 #PLC/3.1
TM2DDI16DT	TM2 16 DI						
spare	spare	spare	spare	spare	spare	spare	spare

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251		Digital inputs TM2	=WIRD	+RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 13
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/13	of 15

#PLC-K05 — TM2DDO8TT — TM2 8 DO

#PLC/3.4 %QX13.0 X1:Q0	#PLC/3.4 %QX13.1 X1:Q1	#PLC/3.4 %QX13.2 X1:Q2	#PLC/3.4 %QX13.3 X1:Q3	#PLC/3.4 %QX13.4 X1:Q4	#PLC/3.4 %QX13.5 X1:Q5

#PSD/6.5 / F20_01

#MOV-T06 #MOV/6.1 — R1A, R1C

#MOV-FY06 #MOV/7.2 — 11, 14, 12

#MOV-FY07 #MOV/7.5 — 11, 14, 12

-Q07 /14.3 — 21, 22

-Q06 /14.1 — 13, 14

-Q06 /14.1 — 21, 22

-Q07 /14.3 — 13, 14

-Q06 4kW / 24V dc — A1, A2

-QY06 4kW / 24V dc — A1, A2

-Q07 4kW / 24V dc — A1, A2

-QY07 4kW / 24V dc — A1, A2

#MOV-T06 #MOV/6.1 — LI1, LI2, LI3, LI4, COM1

#PSD/7.1 / 0V_13

#PSD/7.1 / 0V_14

Motor 6 link to ATV	Brake Motor 6	Motor 7 link to ATV	Brake Motor 7	Command ATV12 Forward	Command ATV12 Reverse	Command ATV12 Reset	Command ATV12 Fast Speed
1 2 #MOV/7.1	1 2 #MOV/7.2	1 2 #MOV/7.4	1 2 #MOV/7.5				
3 4 #MOV/7.1	3 4 #MOV/7.2	3 4 #MOV/7.4	3 4 #MOV/7.5				
5 6 #MOV/7.1	5 6	5 6 #MOV/7.4	5 6				
13 14 /14.2	13 14 /12.5	13 14 /14.4	13 14 /12.6				
21 22 /14.3	21 22	21 22 /14.1	21 22				
53 54 /12.3		53 54 /12.4					
61 62		61 62					

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 6+7 Control Contactors	=WIRD +RC1
			Ed.	kJakob				#CTRL
			Appr		TVDA			EIO0000001822.01 Page 14
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/14 of 15

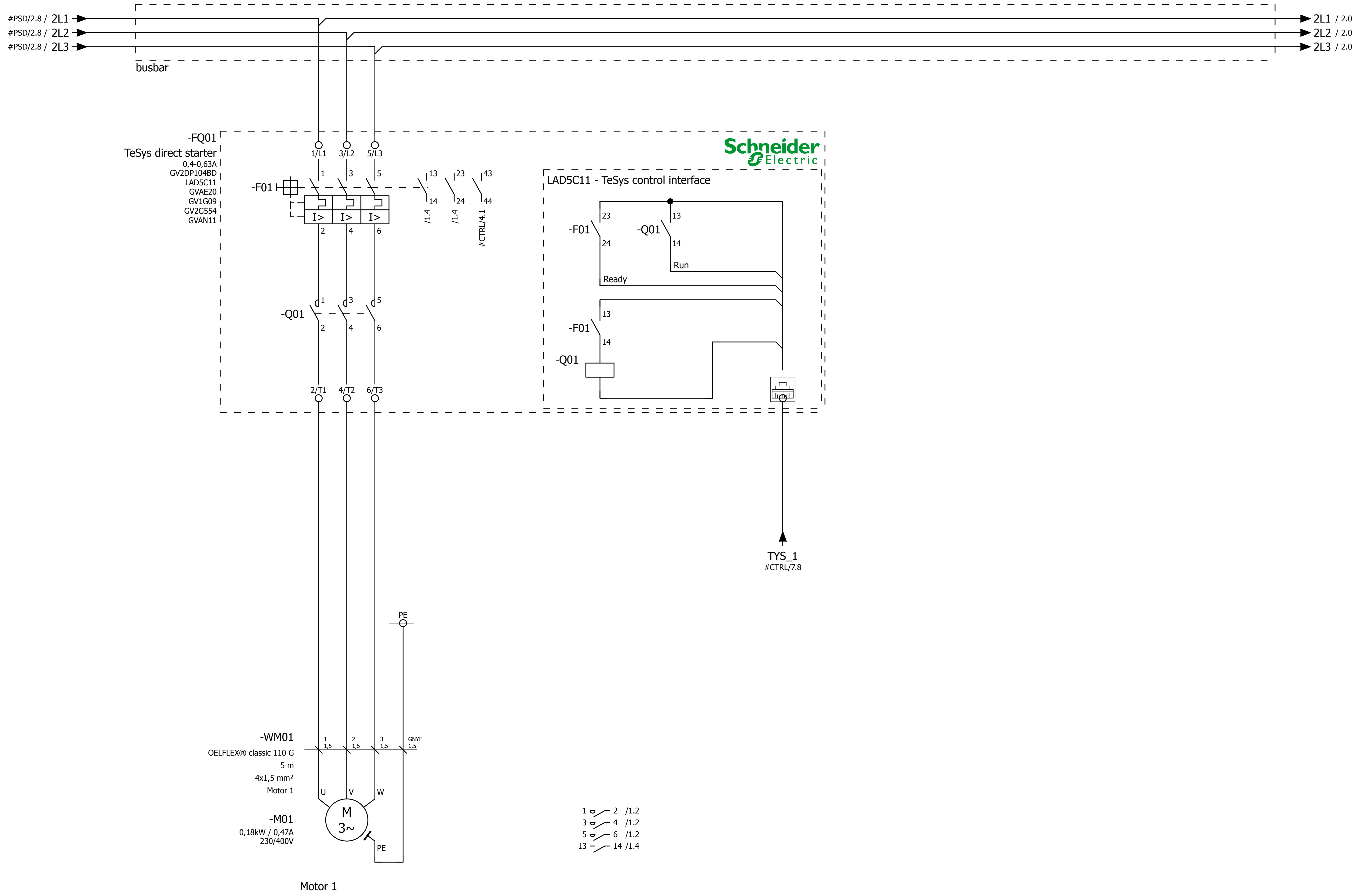
0	1	2	3	4	5	6	7	8	9

#PLC-K05

TM2DDO8TT	TM2 8 DO
#PLC/3.4 %QX13.6 X1:Q6	#PLC/3.4 %QX13.7 X1:Q7

spare spare

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Digital Outputs TM2	=WIRD	+RC1
			Ed.	kJakob					#CTRL
			Appr		TVDA			EIO0000001822.01	Page 15
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#CTRL/15	of 15



#CTRL/15

2

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 1 TeSys Direct Starter + Softstart	=WIRD	+RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#MOV/1	of 7

busbar

1.8 / 2L1
1.8 / 2L2
1.8 / 2L3

2L1 / 3.0
2L2 / 3.0
2L3 / 3.0

-FQ02
TeSys direct starter
0,4-0,63A
GV2DP104BD
LAD5C11
GVAE20
GVAN11

Schneider Electric

LAD5C11 - TeSys control interface

-F01
-Q01

1/L1 3/L2 5/L3
2/T1 4/T2 6/T3

/2.4 /2.4 #CTRL/4.4

Ready
Run

TYS_2
#CTRL/7.8

-WM02
OELFLEX® classic 110 G
5 m
4x1,5 mm²
Motor 2

GNYE 1,5

-M02
0,18kW / 0,47A
230/400V

PE
U V W
M 3~

1 2 /2.2
3 4 /2.2
5 6 /2.2
13 14 /2.4

Motor 2

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 2 TeSys Direct Starter + Softstart	=WIRD	+RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 2
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#MOV/2	of 7

2.8 / 2L1
2.8 / 2L2
2.8 / 2L3
busbar
#PSD/6.5 / F20_02
#PSD/7.1 / 0V_15

2L1 / 4.0
2L2 / 4.0
2L3 / 4.0

-FQ03
TeSys direct starter
0,4-0,63A
GV2DP204BD
LAD5C12
GVAE20
LADN11
GV1G10
GVAN11

-F01
1/L1 3/L2 5/L3
2/T1 4/T2 6/T3
I> I> I>
/3.4 /3.4 #CTRL/4.7

-Q01 -Q02

Schneider Electric

LAD5C12 - TeSys control interface
-F01 -Q01 -Q02
Run
Ready
-F01 -Q01 -Q02

-FQ03-Q01 -FQ03-Q02

-T03
3A
Softstarter
ATS01N103FT
1/L1 3/L2 5/L3
2/T1 4/T2 6/T3
24V
CL2
CL1/0
PE

TYS_3
#CTRL/7.8

-WM03
OELFLEX® classic 110 G
5 m
4x1,5 mm²
Motor 3
1 1,5 | 2 1,5 | 3 1,5 | GNYE 1,5
U V W

-M03
0,18kW / 0,47A
230/400V
M 3~
PE

Motor 3

1 2 /3.2
3 4 /3.2
5 6 /3.2
13 14 /3.4
53 54 /3.6

1 2 /3.3
3 4 /3.3
5 6 /3.3
13 14 /3.5
53 54 /3.7

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 3 TeSys Direct Starter + Softstart	=WIRD	+RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 3
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#MOV/3	of 7

3.8 / 2L1
3.8 / 2L2
3.8 / 2L3
busbar

2L1 / 5.0
2L2 / 5.0
2L3 / 5.0

-FQ04
TESYS U starter controller
0,15..0,6A
LUB120
LUCAX6BL
LUFC00
LU9BN11C
GV2G254

1/L1 3/L2 5/L3
Control unit
2/T1 4/T2 6/T3
A1 A2
13 14 21 22

LUFC00 - parallel wiring module
Trip
Run
Ready
OA3 OA1 COM

TYS_4
#CTRL/7.8

PE

-WM04
OELFLEX® classic 110 G
5 m
4x1,5 mm²
Motor 4

1 1,5 | 2 1,5 | 3 1,5 | GNYE 1,5
U V W

-M04
0,18kW / 0,47A
230/400V
M
3~
PE

Motor 4

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 4 TeSysU Starter Controller	=WIRD	+RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 4
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#MOV/4	of 7

4.8 / 2L1
4.8 / 2L2
4.8 / 2L3
busbar

2L1 / 6.0
2L2 /
2L3 /

-FQ05
TESYS U starter controller
0,15..0,6A
LU2BA0BL
LUCAX6BL
LUFC00
LU9MRC

Schneider Electric

1/L1 3/L2 5/L3

Control unit

Pre-wiring

81
84 82

Reverser

2/T1 4/T2 6/T3

A3 B3 A1 B1 A2

LUFC00 - parallel wiring module

Trip
Run
Ready

OA3 OA1 COM

TYS_5
#CTRL/7.8

PE

-WM05
OELFLEX® classic 110 G
5 m
4x1,5 mm²
Motor 5

1 1,5 | 2 1,5 | 3 1,5 | GNYE 1,5

U V W

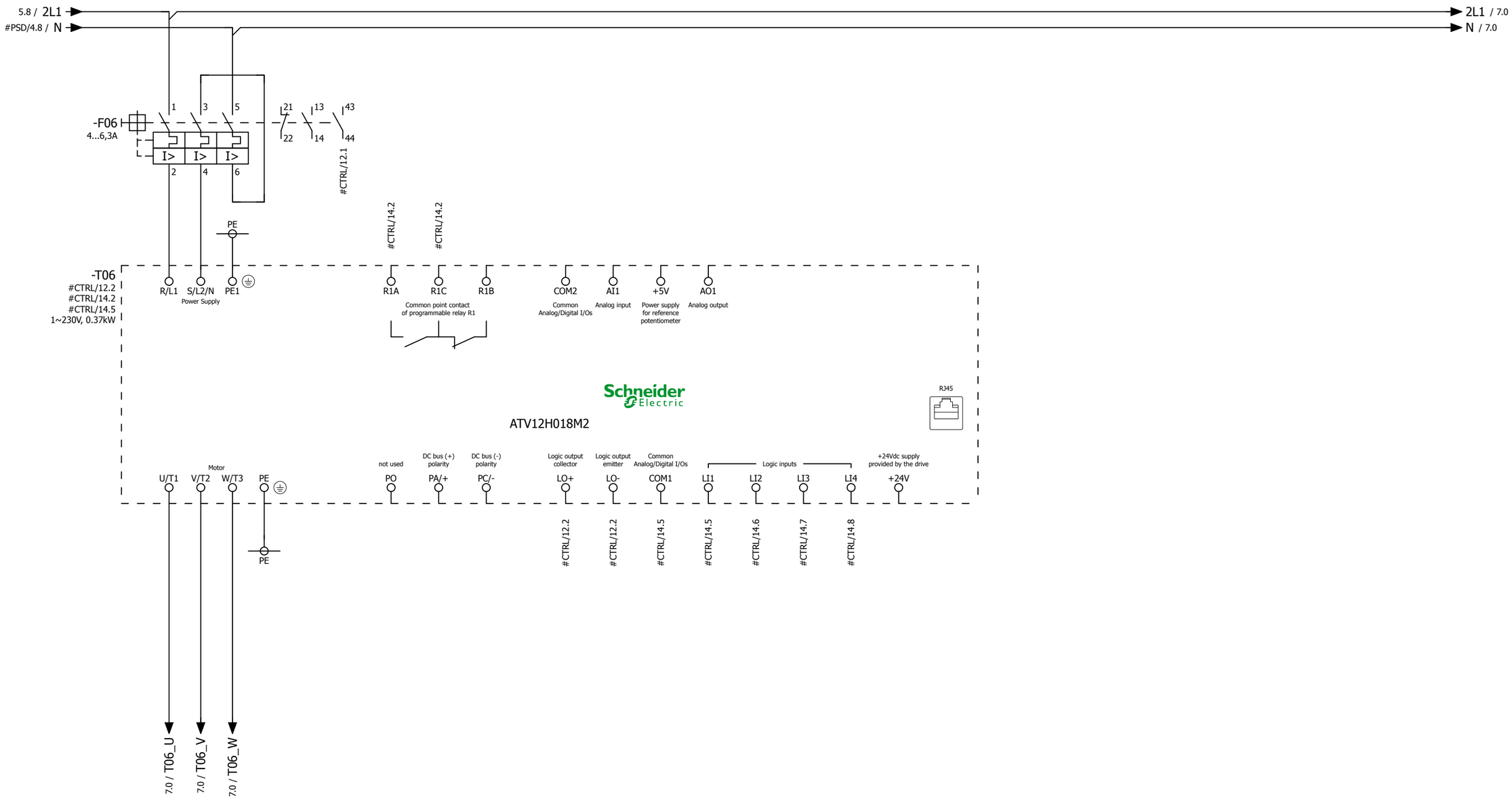
-M05
0,18kW / 0,47A
230/400V

M
3~

PE

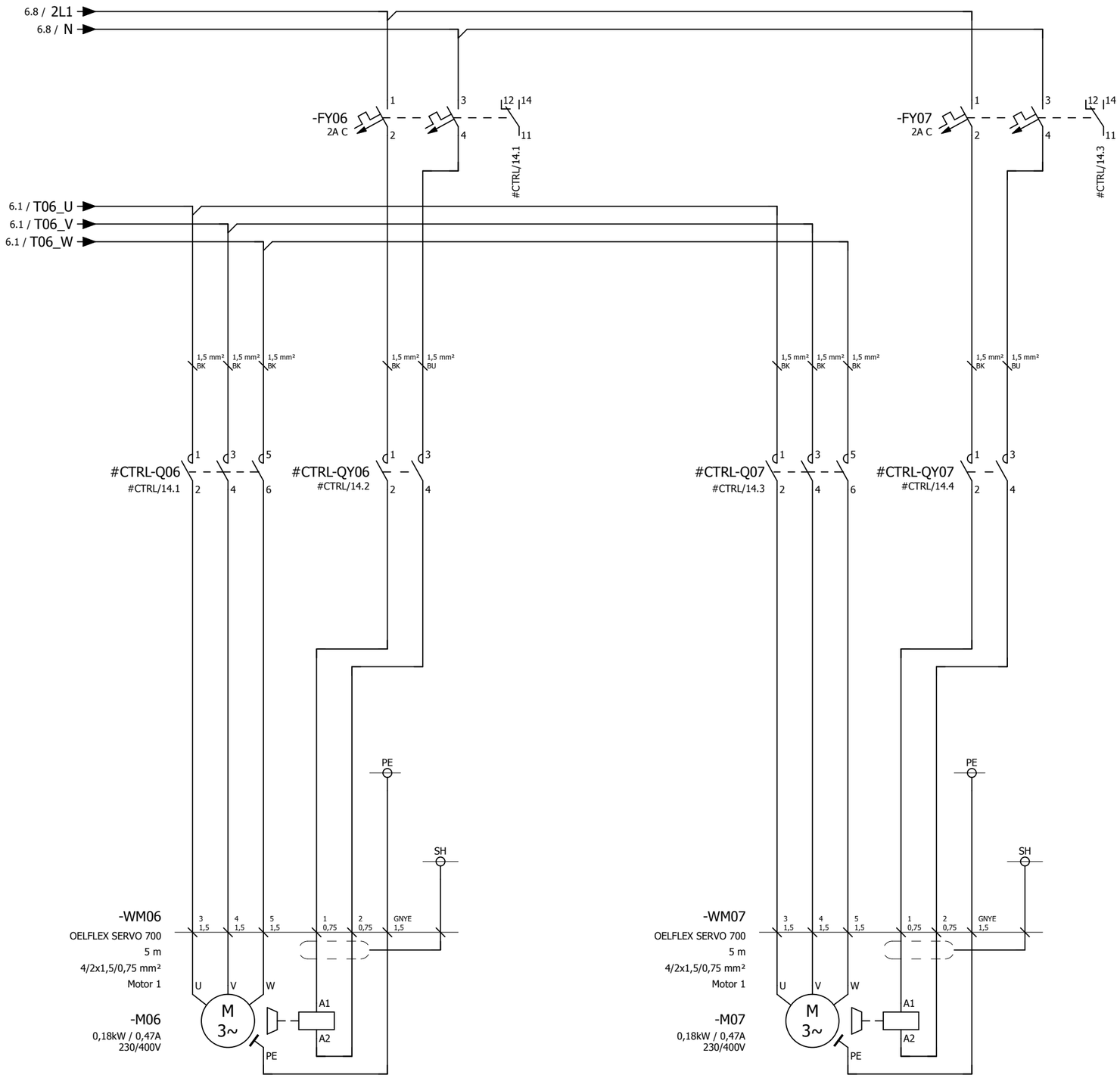
Motor 5

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 5 TeSysU Starter Controller	=WIRD	+RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 5
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#MOV/5	of 7



5 7

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 6+7 Altivar 12		=WIRD +RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 6
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#MOV/6	of 7



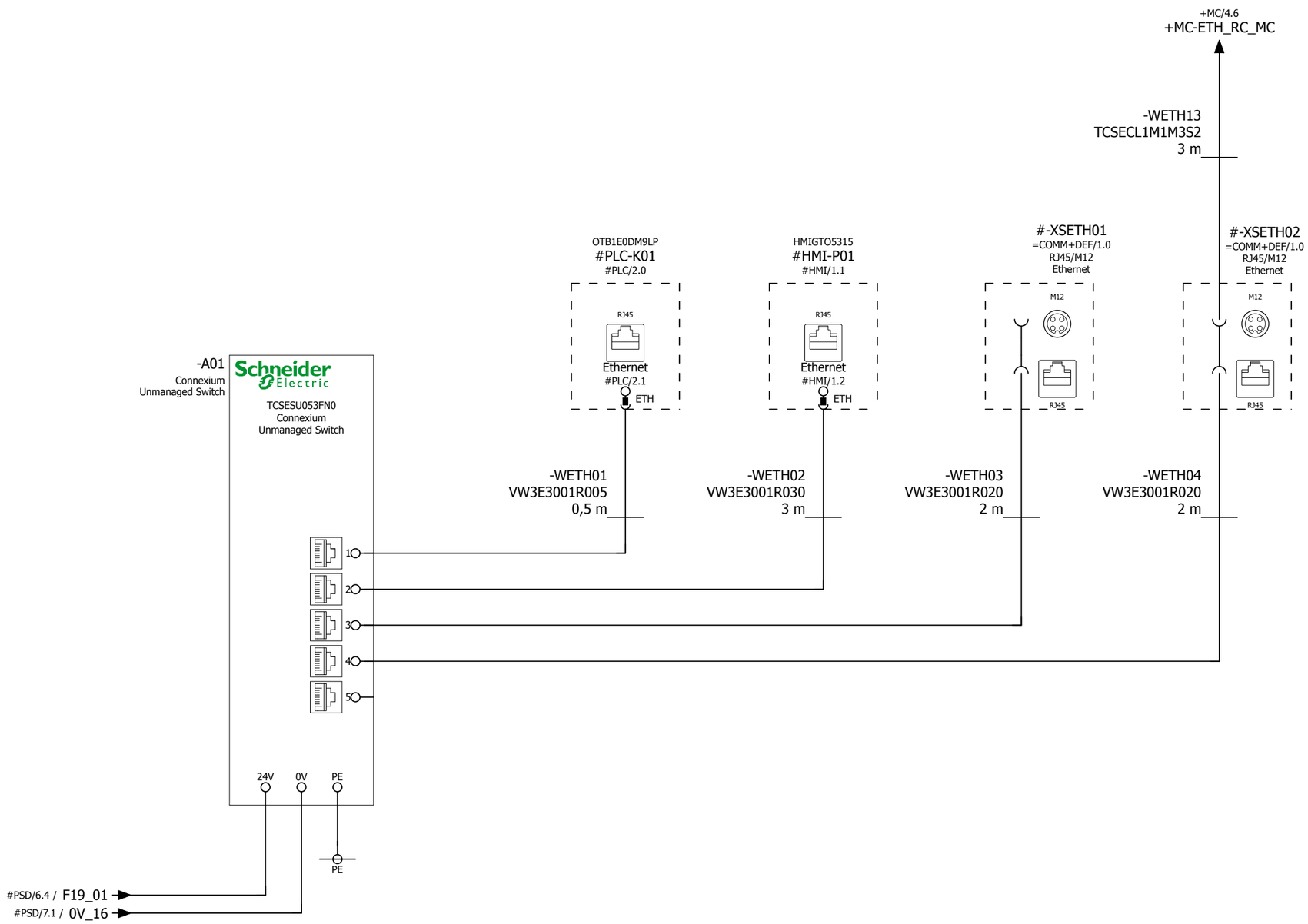
Motor 6

Motor 7

6

#COM/1

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Motor 6+7 Contactors	=WIRD	+RC1
			Ed.	kJakob					#MOV
			Appr		TVDA			EIO0000001822.01	Page 7
Modification	Date	Name	Original		Replacement of	Replaced by		=WIRD+RC1#MOV/7	of 7



#MOV/7

			Date	2015/11/13	Distributed / Modbus TCP / Logic Controller M251	Schneider Electric	Ethernet topology - Modbus TCP Fieldbus RC		=WIRD +RC1
			Ed.	kJakob					#COM
			Appr		TVDA			EIO0000001822.01	Page 1
Modification	Date	Name	Original		Replacement of / Replaced by			=WIRD+RC1#COM/1	of 1