

Producer :	Normann Srl	Committed : 14213 - A3L00009	
Post code :	33074	Wiring Diagram : 14213 - 21.10.2024	
Street :	Guglielmo Oberdan 69 - z.i. La Croce	Projet Code : Sistema NAT-PLUS NORMANN	
City :	Fontanafredda (PN)	Description : QE NAT-PLUS 5 R290 ATEX 1x230V+N/50HZ - V6	
Phone :	0434.999079	Num. Sheets : 15	Cod. Art. Customer : A3L00009
Fax :	0434.999659	Rev. Index : 6	Cod. Art. : 14213
E-Mail :	info@normann.it	Rev. date : 23/01/2025	

Revision Notes :
Scheda Controllo EVCO

(*) There must be a current limiter before the supply of the electrical panel,
which guarantees the operation to the value of Icc current indicated



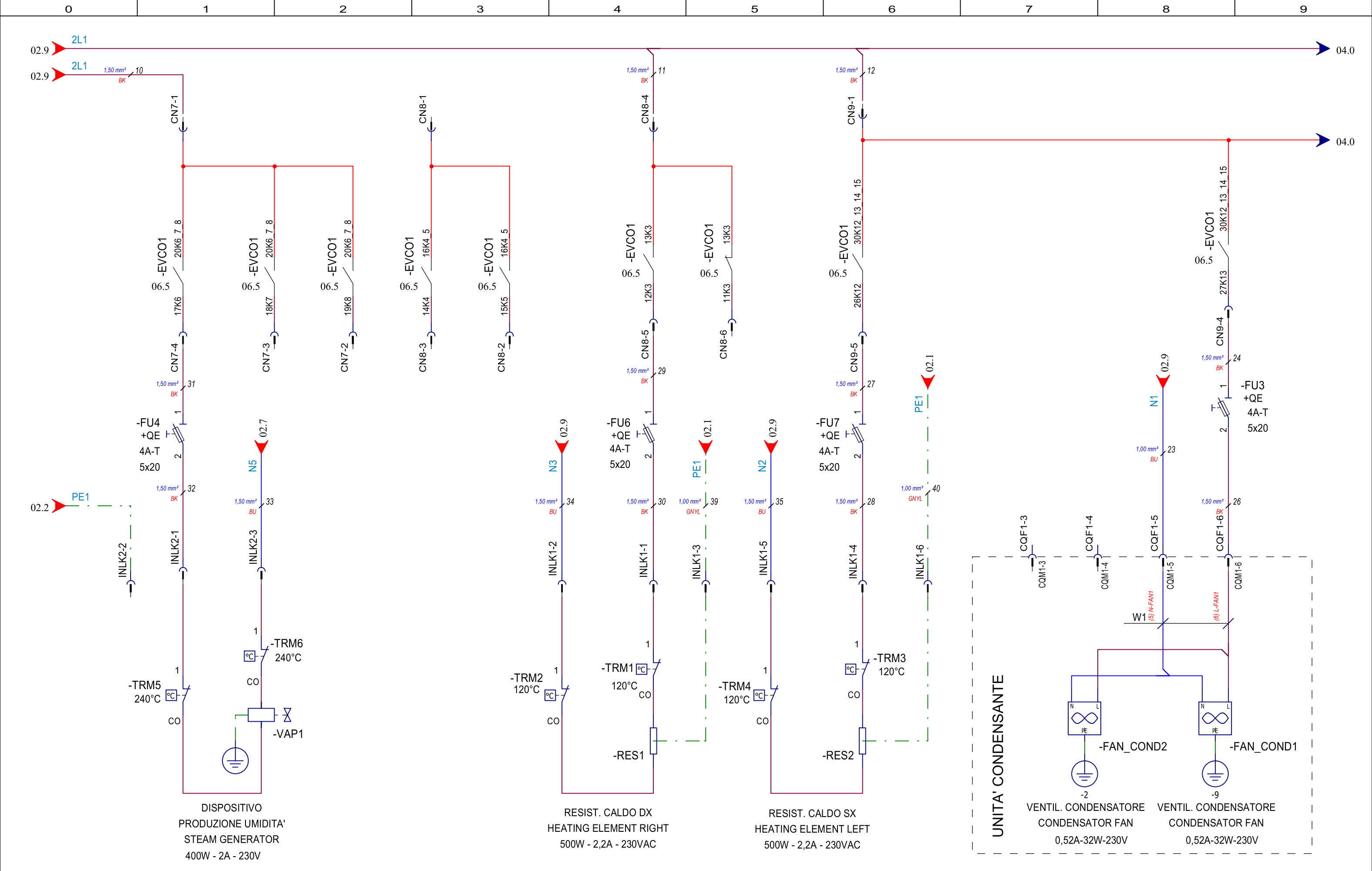
NORMANN
E X T R A O R D I N A R Y C H I L L I N G

NORMANN Srl

Via Guglielmo Oberdan 69 - z.i. La Croce
33074 Fontanafredda (PN) – Italy

T +39 0434 999079 - F +39 0434 999659
info@normann.it

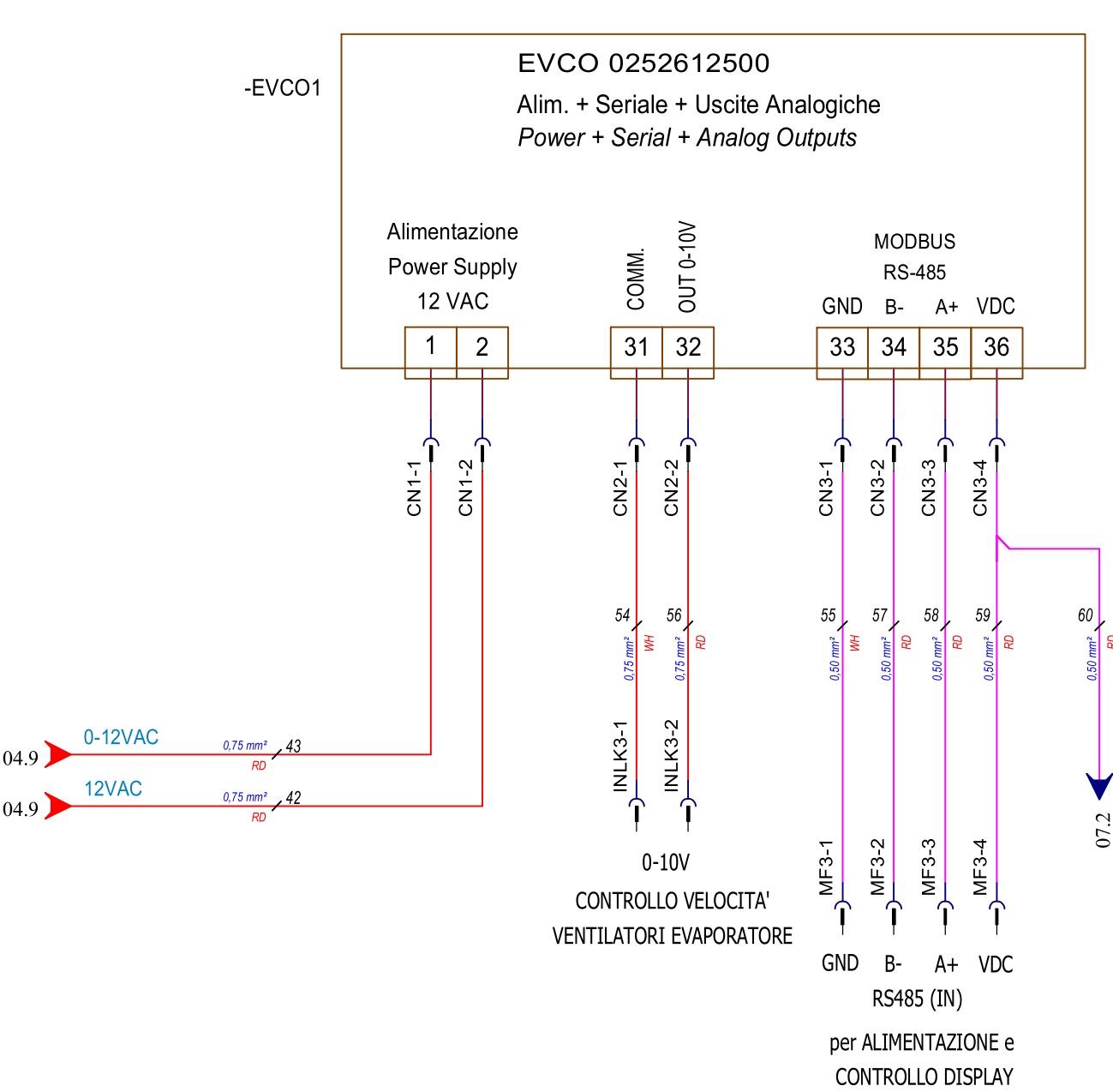
Drawer:	Tecso Srl	Working Voltage	230V
		Auxiliaries Voltage	24V-230V
Verifier:	Normann Srl	Signals Voltage	12V-24V-230V
		Frequency:	50Hz
Approver:	Normann Srl	Nominal current: 14,4 A	Icc Current (*) :
		Total power:	3,36 kW
Project manager:	Normann Srl	Protection level:	IP20



1	21/10/2024		
2	25/10/2024		
REV	DATE	SIGN.	CHANGE


NORMANN
Fontanafredda (PN) -ITALIA

PROJECT: Sistema NAT-PLUS NORMANN			SHEET 03
CUSTOMER: Normann Srl			
COMMITTED: 14213 - A3L00009			OF 15
TITLE: Sezione Potenza			02◀▶04
DRAW.: Tecso Srl	DATE:	LOC.:QE	



02.6 \{\}\

04.4 \{\}\

03.4 \{\}\

03.5

03.3 \{\}\

03.3 \{\}\

03.1 \{\}\

03.2 \{\}\

03.2 \{\}\

05.5 \{\}\

05.2 \{\}\

05.4 \{\}\

04.1

03.6 \{\}\

03.8 \{\}\

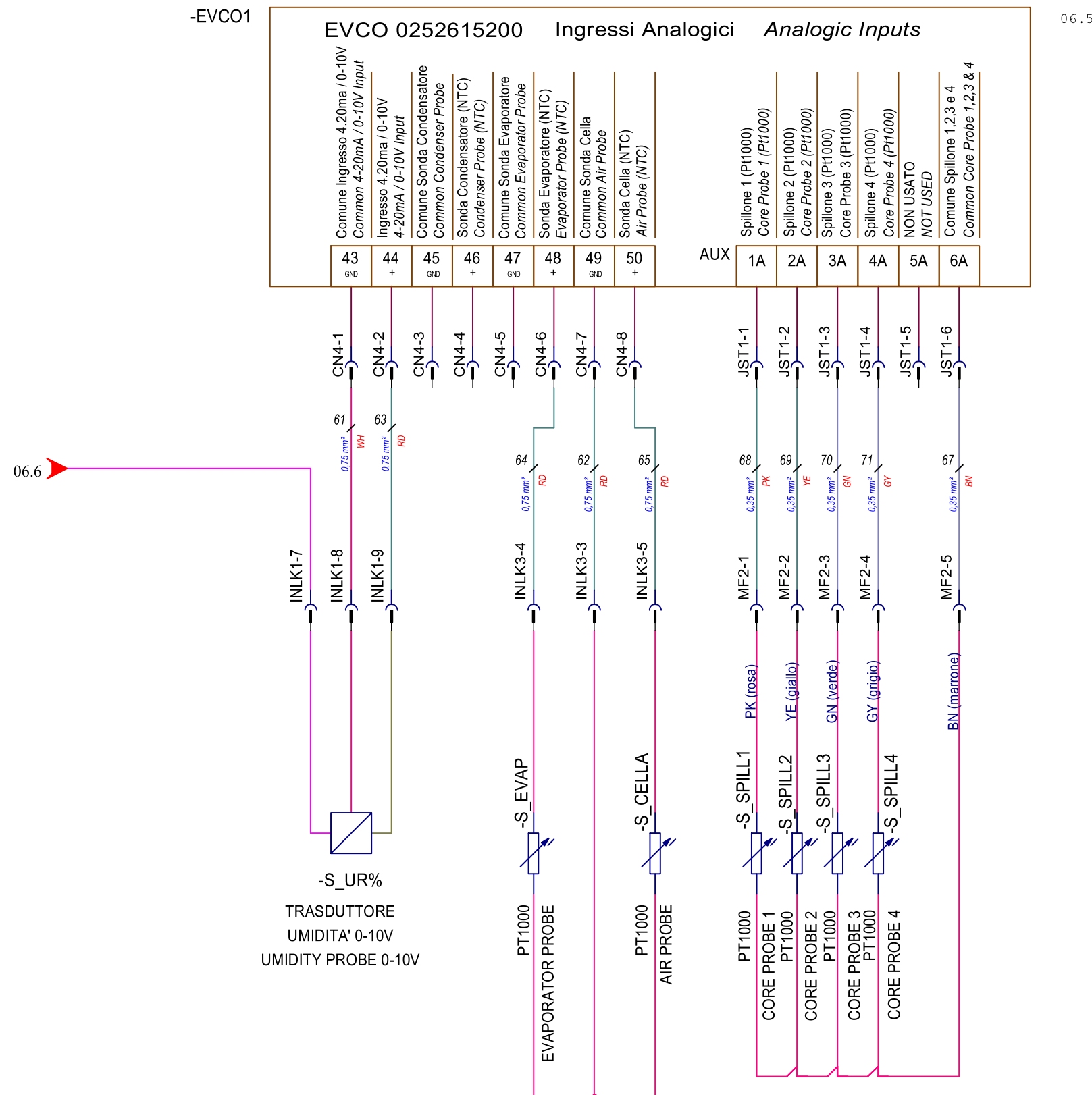
04.2 \{\}\

04.1 \{\}\

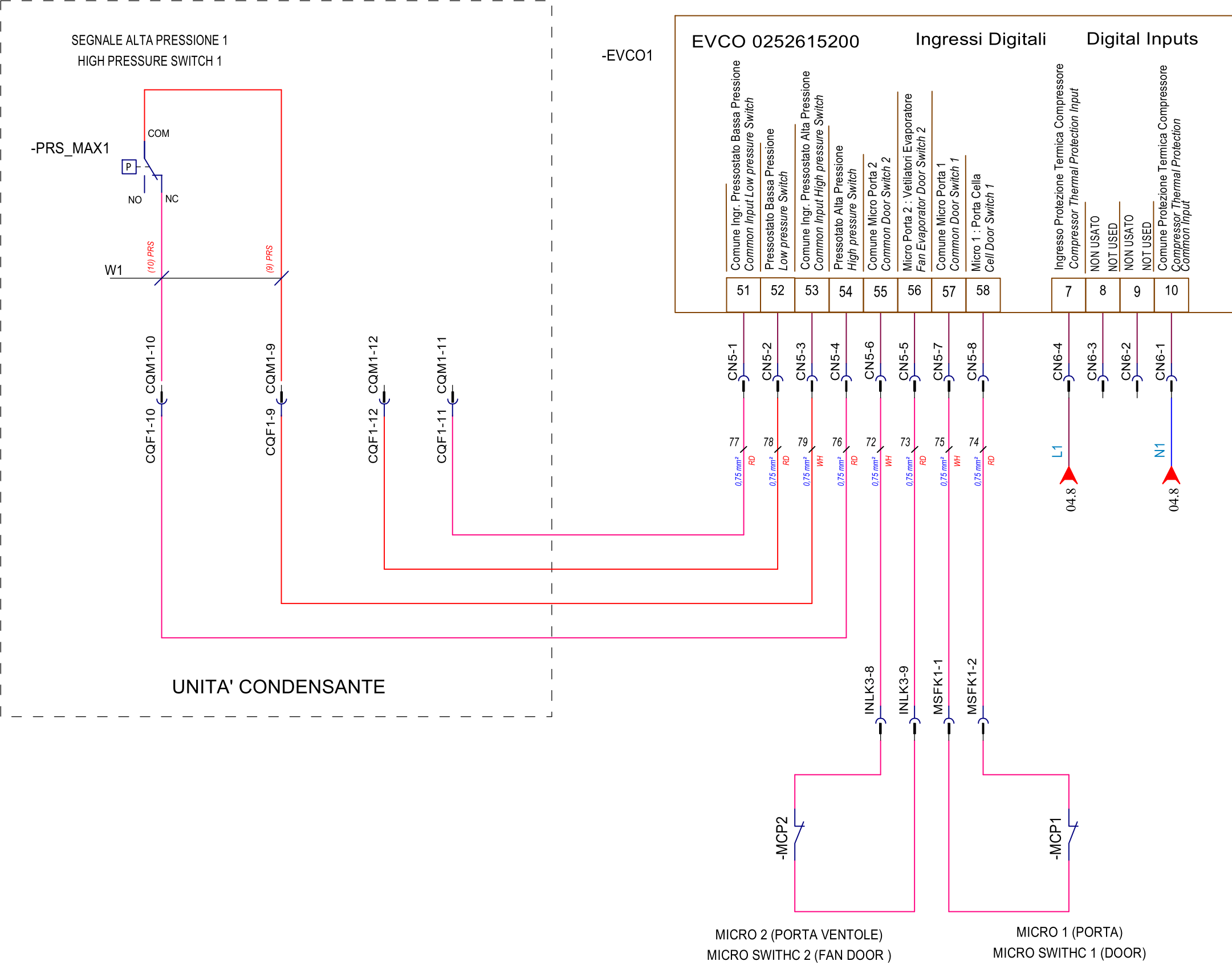
07.4

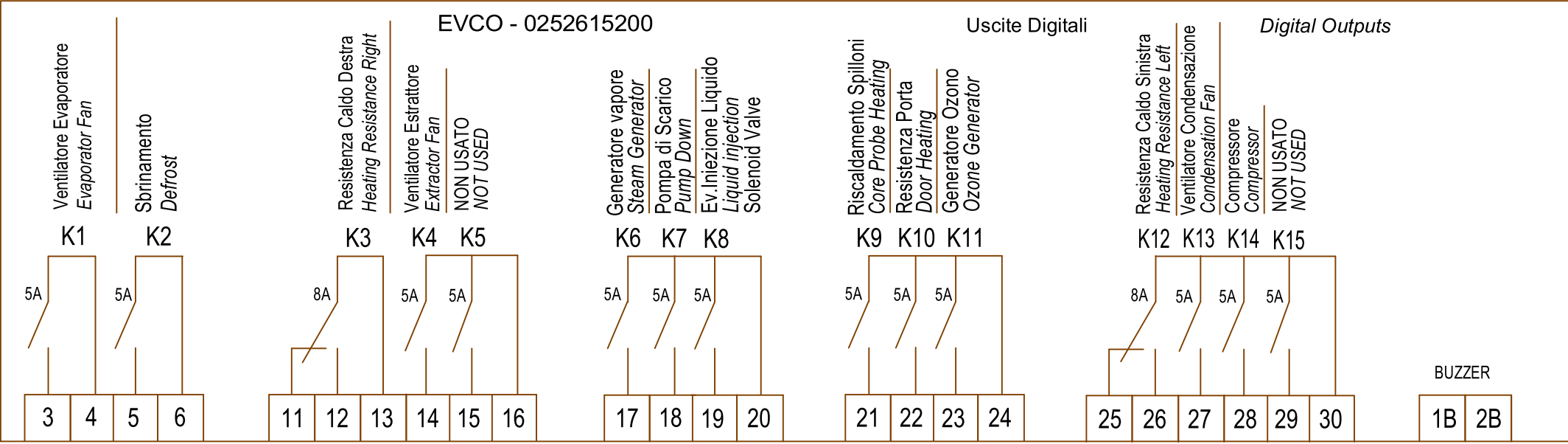
08.6

09.4



				 NORMANN Fontanafredda (PN) -ITALIA	PROJECT: Sistema NAT-PLUS NORMANN			SHEET 07 OF 15
					CUSTOMER: Normann Srl			
					COMMITTED: 14213 - A3L00009			
1	21/10/2024				TITLE: Scheda Controllo : INGR. ANALOGICI e ALIMENTAZIONE			06 ◀ ▶ 08
2	25/10/2024				Control Board : Analog Inputs & Power Supply			
REV	DATE	SIGN.	CHANGE		DRAW.: Tecso Srl	DATE:	LOC.:QE	



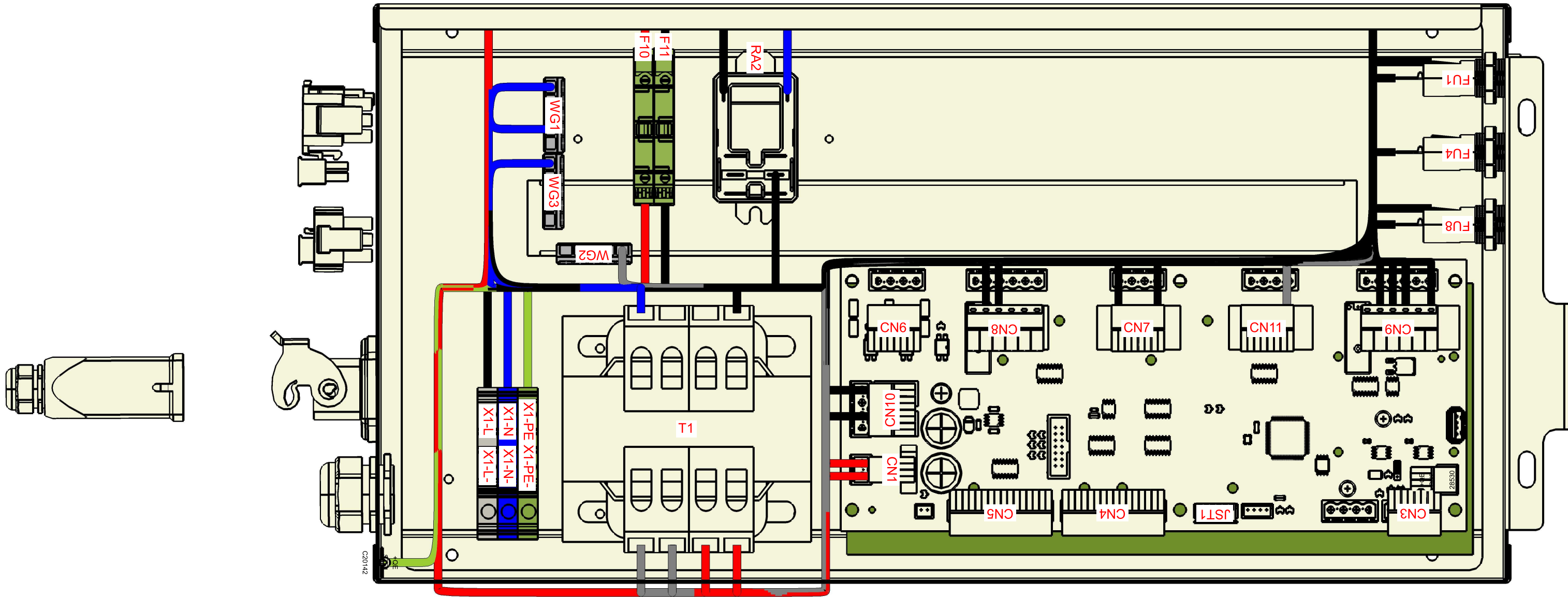


-EVCO1
06.5

1	21/10/2024		
6	23/01/2025		Scheda Controllo EVCO
REV	DATE	SIGN.	CHANGE


NORMANN
Fontanafredda (PN) -ITALIA

PROJECT: Sistema NAT-PLUS NORMANN		
CUSTOMER: Normann Srl		
COMMITTED: 14213 - A3L00009		
TITLE: Scheda Controllo : USCITE DIGITALI Control Borad : Digital Outputs		
DRAW.: Tecso Srl	DATE:	LOC.:QE



REV	DATE	SIGN.	CHANGE
1	21/10/2024		
2	25/10/2024		



NORMANN
Fontanafredda (PN) -ITALIA

PROJECT: Sistema NAT-PLUS NORMANN		
CUSTOMER: Normann Srl		
COMMITTED: 14213 - A3L00009		
TITLE: Layout1		
DRAW.: Tecso Srl	DATE:	LOC.:QE

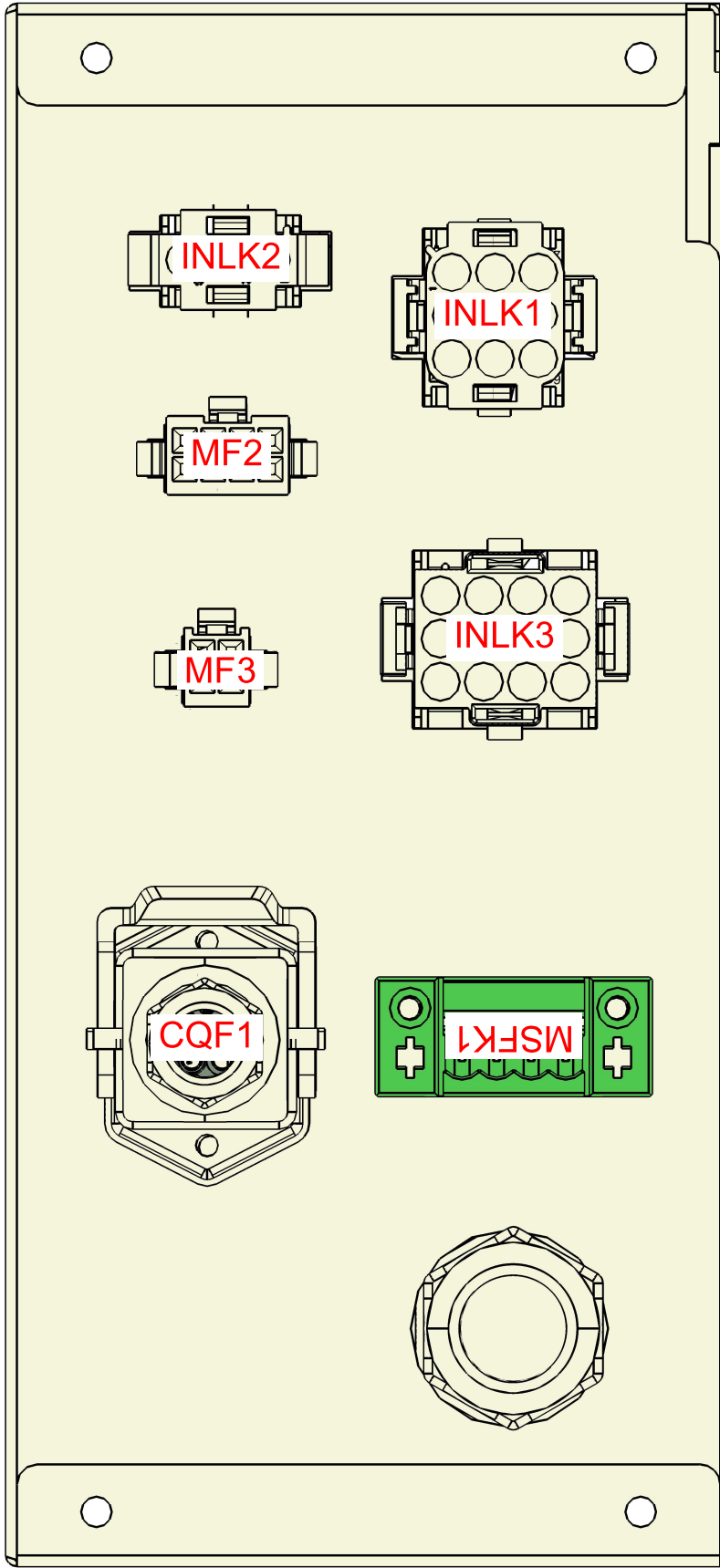


1	21/10/2024		
2	25/10/2024		
6	23/01/2025		Scheda Controllo EVCO
REV	DATE	SIGN.	CHANGE



NORMANN
Fontanafredda (PN) -ITALIA

PROJECT: Sistema NAT-PLUS NORMANN			SHEET 11 OF 15
CUSTOMER: Normann Srl			
COMMITTED: 14213 - A3L00009			
TITLE: Layout2			10◀▶12
DRAW.: Tecso Srl	DATE:	LOC.:QE	



1	21/10/2024		
2	25/10/2024		
REV	DATE	SIGN.	CHANGE



NORMANN
Fontanafredda (PN) -ITALIA

PROJECT: Sistema NAT-PLUS NORMANN		
CUSTOMER: Normann Srl		
COMMITTED: 14213 - A3L00009		
TITLE: Layout3		
DRAW.: Tecso Srl	DATE:	LOC.:QE

0	1	2	3	4	5	6	7	8	9	
LISTA MATERIALI / MATERIALS LIST										
Sigla / Label	Descrizione / Description			Qty	Cod. / Code	Cod. Int.	Costruttore / Supplier		Local. Posiz./Posit.	
WG1	Connettore 5Px4MMQ da Cassetta Derivazione 5Px4MMQ connector from junction box			3	200141	324221-415	WAGO3		QE 02.	
WG2	Connettore 5Px4MMQ da Cassetta Derivazione 5Px4MMQ connector from junction box				200141	324221-415	WAGO3		QE 05.	
WG3	Connettore 5Px4MMQ da Cassetta Derivazione 5Px4MMQ connector from junction box				200141	324221-415	WAGO3		QE 02.	
MSFK1	Connettore maschio 4 poli da pannello, con attacchi a faston 2,8x0,5, 4-pole male panel mount connector, with 2.8x0.5 faston connections, 5.			1	200488	DFK2,5-4P-P5,08	PHOENIX		QE .	
FU1	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL			8	200907	HTB-36M	OMEGA		QE 02.4	
FU2	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 02.6	
FU3	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 03.8	
FU4	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 03.1	
FU6	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 03.4	
FU7	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 03.6	
FU8	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 04.7	
FU9	PORTAFUSIBILE da PANNELLO 5x20 - UL SWITCH FUSE HOLDER 5x20 - UL				200907	HTB-36M	OMEGA		QE 04.7	
RA2	RELE' DI POTENZA 2 SCAMBI 30A-250V b=24VAC - ATEX RELAY SERIE 66 2DPDT 30A-250V - c=24VAC - ATEX			1	201685	66.82.8.024.0303	FINDER		QE 04.2	
T1	TRF.TRD. 0-208V//12V (20VA) - 24V(100VA) - 120VA - ATEX INSULATION TRANSFORMER 0-208V//12V (20VA) - 24V(100VA) - 120VA - ATEX			1	201687	TM0625410-ATEX	BOTTER		QE 04.7	
EVCO1	Scheda EVCO per QE NAT-PLUS R290 EVCO Electronic Board for PANELS NAT-PLUS R290			1	201765	0252612500	EV.CO.		QE 06.5	
FU1	FUSIBILE UL 5x20 10A-T 250V UL FUSE 5x20 10A-T 250V			1	22131	CT520310	OMEGA		QE 02.4	
X1-L	Morsetto GRIGIO passante 2 vie 6MMQ a vite 2-way 6MMQ screw GRAY through terminal			2	23823	CBC.6	CABUR		QE 02.0	
X1-L-	Morsetto GRIGIO passante 2 vie 6MMQ a vite 2-way 6MMQ screw GRAY through terminal				23823	CBC.6	CABUR		QE 02.0	
X1-PE	Morsetto di Terra G/V 2vie 6MMQ a vite - ATEX CQ403 2-way 6MMQ screw G/Y screw through terminal - ATEX CQ403			2	23824	TE.6/O	CABUR		QE 02.0	
X1-PE-	Morsetto di Terra G/V 2vie 6MMQ a vite - ATEX CQ403 2-way 6MMQ screw G/Y screw through terminal - ATEX CQ403				23824	TE.6/O	CABUR		QE 02.0	
				 NORMANN Fontanafredda (PN) -ITALIA			PROJECT: Sistema NAT-PLUS NORMANN		SHEET 13 OF 15	
			CUSTOMER: Normann Srl							
			COMMITTED: 14213 - A3L00009							
			TITLE: Lista materiali				12◀▶14			
1	21/10/2024							DRAW.: Tecso Srl	DATE:	LOC.:QE
REV	DATE	SIGN.	CHANGE							

0	1	2	3	4	5	6	7	8	9
LISTA MATERIALI / MATERIALS LIST									
Sigla / Label	Descrizione / Description			Qty	Cod. / Code	Cod. Int.	Costruttore / Supplier	Local.	Posiz./Posit.
MF3	Connettore Femmina 4 poli per contatti Maschi a crimpare MOLEX 4-pole female connector for male MOLEX crimp contacts			1	24222	MINIFIT_4P_F	MOLEX	QE	06.
X1-N	Morsetto BLU passante 6MMQ a vite 2-way 6MMQ screw BLUE through terminal			2	25641	CBI06	CABUR	QE	02.0
X1-N-	Morsetto BLU passante 6MMQ a vite 2-way 6MMQ screw BLUE through terminal				25641	CBI06	CABUR	QE	02.0
F10	PORTAFUSIBILE SEZIONALBILE 1POLI 5x20 SECTIONABLE FUSE HOLDER 1P 5x20			2	26019	SFR4	CABUR	QE	04.8
F11	PORTAFUSIBILE SEZIONALBILE 1POLI 5x20 SECTIONABLE FUSE HOLDER 1P 5x20				26019	SFR4	CABUR	QE	04.2
CQF1	CONNETTORE FRUTTO PRESA - 12POLI - 400V-10A (per CONTAT. a CRIMPARE) 12-POLE SOCKET CONNECTOR - 400V-10A (for CRIMP CONTACTOR)			1	27363	CQF12	ILME	QE	.
CQM1	CONNETTORE FRUTTO SPINA 12POLI - 400V-10A (per CONTAT. a CRIMPARE)			1	27364	CQM12	ILME	QE	.
CN1	Connettore maschio 2 poli volante, con attacchi a vite, passo 5,08 3-pole flying male connector, with screw connections, pitch 5.08			2	28530	CGM02P5,08	PHOENIX	QE	06.
CN2	Connettore maschio 2 poli volante, con attacchi a vite, passo 5,08 3-pole flying male connector, with screw connections, pitch 5.08				28530	CGM02P5,08	PHOENIX	QE	06.
CN6	Connettore maschio 4 poli volante, con attacchi a vite, passo 5,08 4-pole flying male connector, with screw connections, pitch 5.08			1	28532	CGM04P5,08	PHOENIX	QE	08.
CN8	Connettore maschio 6 poli volante, con attacchi a vite, passo 5,08 Free 6-pole male connector, with screw connections, pitch 5.08			2	28534	CGM06P5,08	PHOENIX	QE	03.
CN9	Connettore maschio 6 poli volante, con attacchi a vite, passo 5,08 Free 6-pole male connector, with screw connections, pitch 5.08				28534	CGM06P5,08	PHOENIX	QE	.
CN4	Connettore maschio 8 poli volante, con attacchi a vite, passo 5,08 Free 8-Pole male connector, with screw connections, pitch 5,08mm			2	28539	CGM08P5,08	PHOENIX	QE	07.
CN5	Connettore maschio 8 poli volante, con attacchi a vite, passo 5,08 Free 8-Pole male connector, with screw connections, pitch 5,08mm				28539	CGM08P5,08	PHOENIX	QE	08.
F11	FUSIBILE UL 5x20 1A-T 250V UL FUSE 5x20 1A-T 250V			1	28615	ST522210	OMEGA	QE	04.2
FU9	FUSIBILE UL 5x20 6,3A-T 250V UL FUSE 5x20 6,3A-T 250V			1	29193	ST522263	OMEGA	QE	04.7
F10	FUSIBILE UL 5x20 4A-T 250V UL FUSE 5x20 4A-T 250V			7	29199	ST522240	OMEGA	QE	04.8
FU2	FUSIBILE UL 5x20 4A-T 250V UL FUSE 5x20 4A-T 250V				29199	ST522240	OMEGA	QE	02.6
FU3	FUSIBILE UL 5x20 4A-T 250V UL FUSE 5x20 4A-T 250V				29199	ST522240	OMEGA	QE	03.8
FU4	FUSIBILE UL 5x20 4A-T 250V UL FUSE 5x20 4A-T 250V				29199	ST522240	OMEGA	QE	03.1
				 NORMANN Fontanafredda (PN) -ITALIA		PROJECT: Sistema NAT-PLUS NORMANN		SHEET 14 OF 15	
						CUSTOMER: Normann Srl			
						COMMITTED: 14213 - A3L00009			
						TITLE: Lista materiali		13◀▶15	
1	21/10/2024					DRAW.: Tecso Srl			
REV	DATE	SIGN.	CHANGE						

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