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MASTER WIRING DIAGRAM

Unit Name

EWAT040CZ(N/P/H)(-/A/B)A2
EWYT040CZ(N/P/H)(-/A/B)A2
EWAT050CZ(N/P/H)(-/A/B)A2
EWYT050CZ(N/P/H)(-/A/B)A2

Type Starting Compressor

VFD

Type Starting Fans

VFD

Power Supply: 400V ~ 3ph+N 50 Hz

Auxiliary Power Supply: 230Vac/24Vdc

Max. Current Electr.Panel: SEE TABLE ON PAGE +WD1

Max conditional short-circuit current: 10 kA

Rated short-time current Icw: 1,5 kA

IP: x4

Ref. Normative: IEC

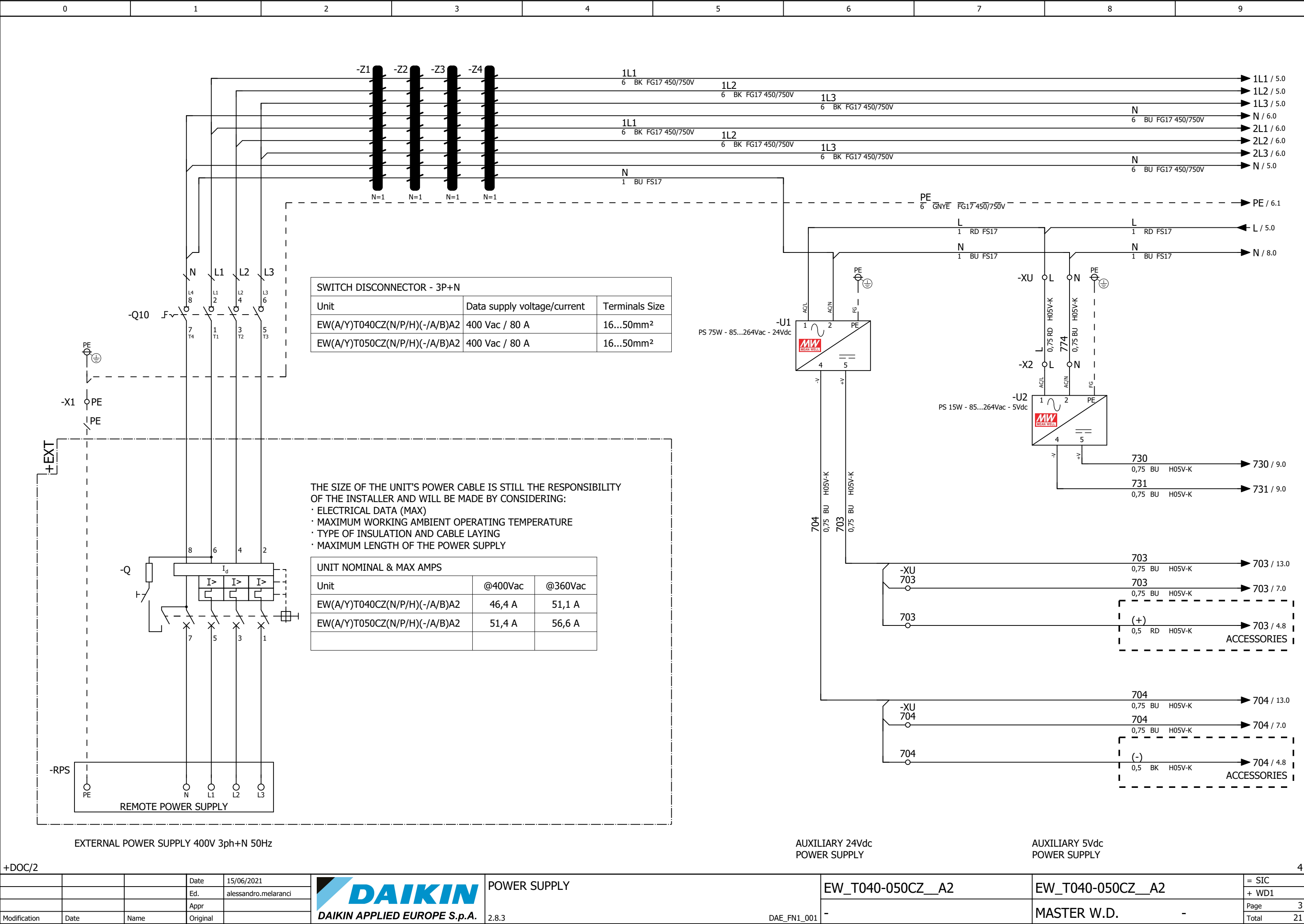
Drawing N°	Revision
EW_T040-050CZ__A2	5
Created	Last Modify
15/06/2021	15/06/2021
Project Manager	Drawn by
Salvatore sulis	alessandro.melaranci
Path/file name	Total page
EW_T040-050CZ__A2	21

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DAE_F06_002

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	WD1	4	PUMP & MODEM DAIKIN ON SITE
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	WD1	6	COMPRESSOR & FANS CIRCUIT 2
	WD1	7	UNIT CONTROL POWER SUPPLY / INTERFACE
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	WD1	9	UC - ANALOG/DIGITAL INPUT
	WD1	10	UC - ANALOG/DIGITAL OUTPUT
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	WD1	20	Terminal diagram =SIC+WD1-XD
	WD1	21	Terminal diagram =SIC+WD1-XU

Higher-level function	Mounting location	Page	Page description
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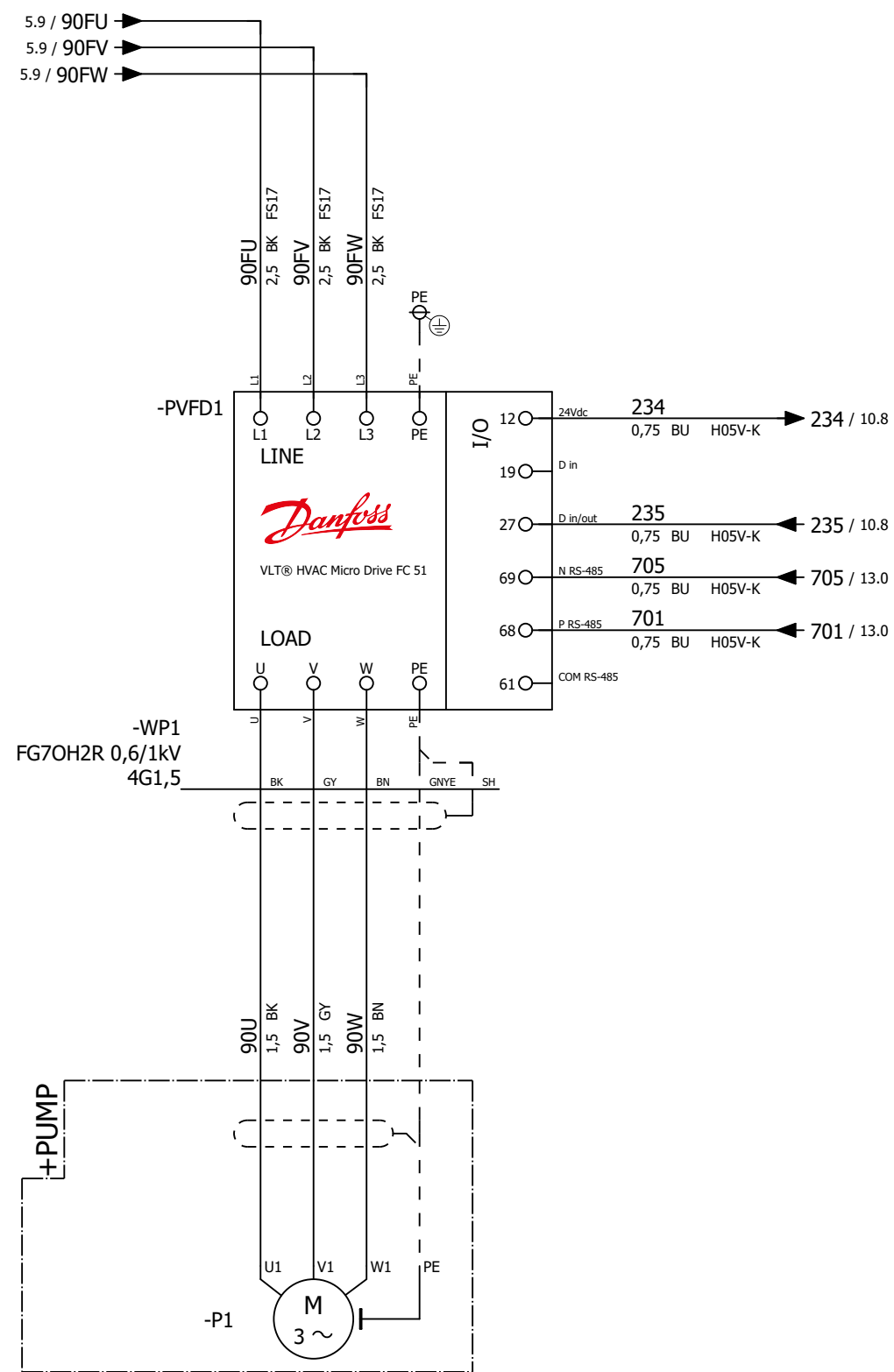


+DOC/2

			Date	15/06/2021
			Ed.	alessandro.melaranci
			Appr	
Modification	Date	Name	Original	

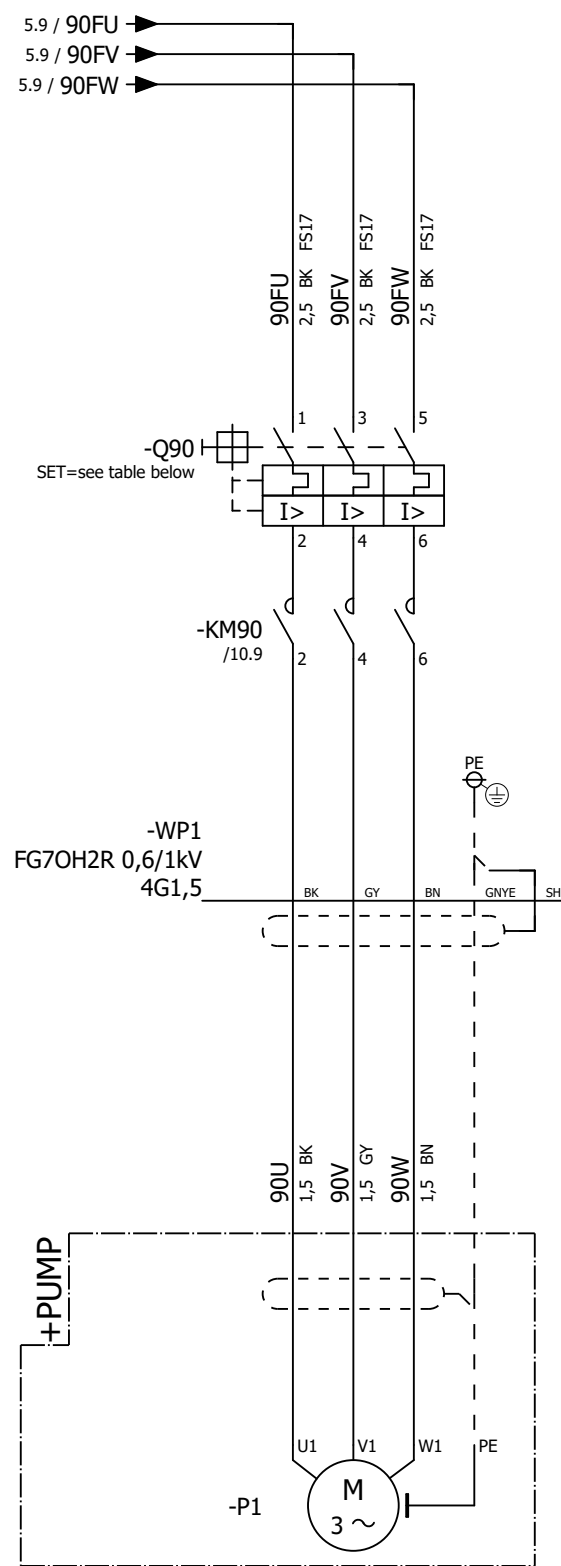


POWER SUPPLY	EW_T040-050CZ__A2	EW_T040-050CZ__A2	= SIC
2.8.3	-	MASTER W.D.	+ WD1
DAE_FN1_001			Page 3
			Total 21



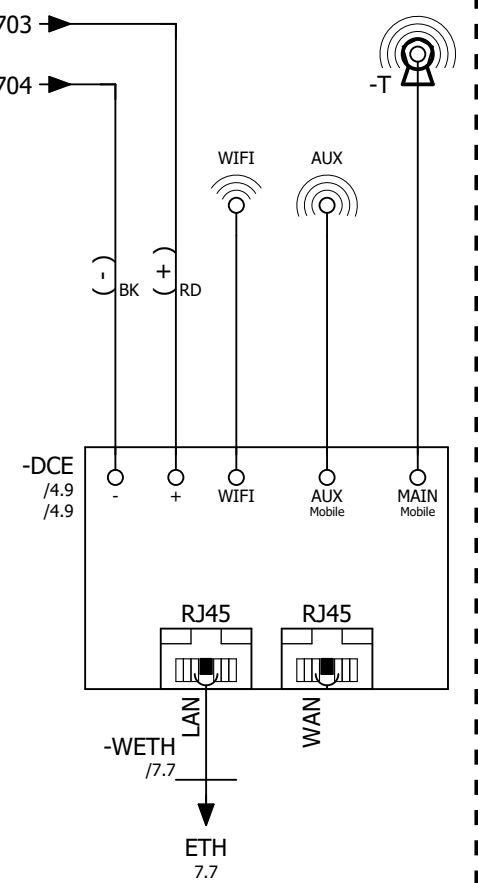
Pumps / Inverter	
Unit	Inverter pump
EW(A/Y)T040-050CZP(-/B)A2	Low Lift (1,1kW) - 10EPIFC51P1K5
EW(A/Y)T040-050CZH(-/B)A2	High Lift (2,2kW) - 10EPIFC51P2K2

OPTION INVERTER EVAPORATOR PUMP



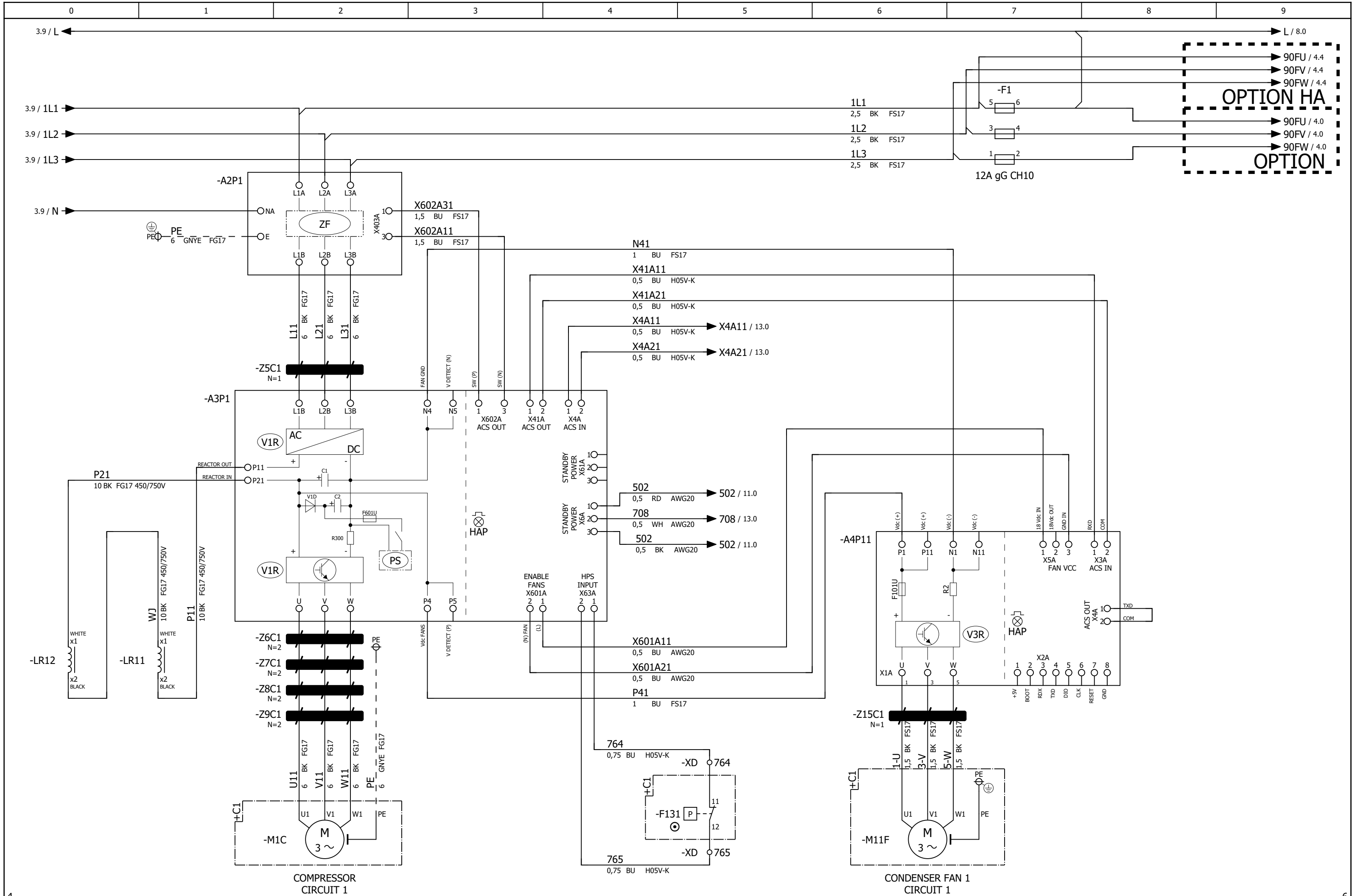
Pumps / Inverter		
Unit	Pump size	Q90 SET [A]
EW(A/Y)T040-050CZPAA2	Low Lift (1,1kW)	2,4
EW(A/Y)T040-050CZHAA2	High Lift (2,2kW)	4,6

OPTION HIGH AMBIENT EVAPORATOR PUMP

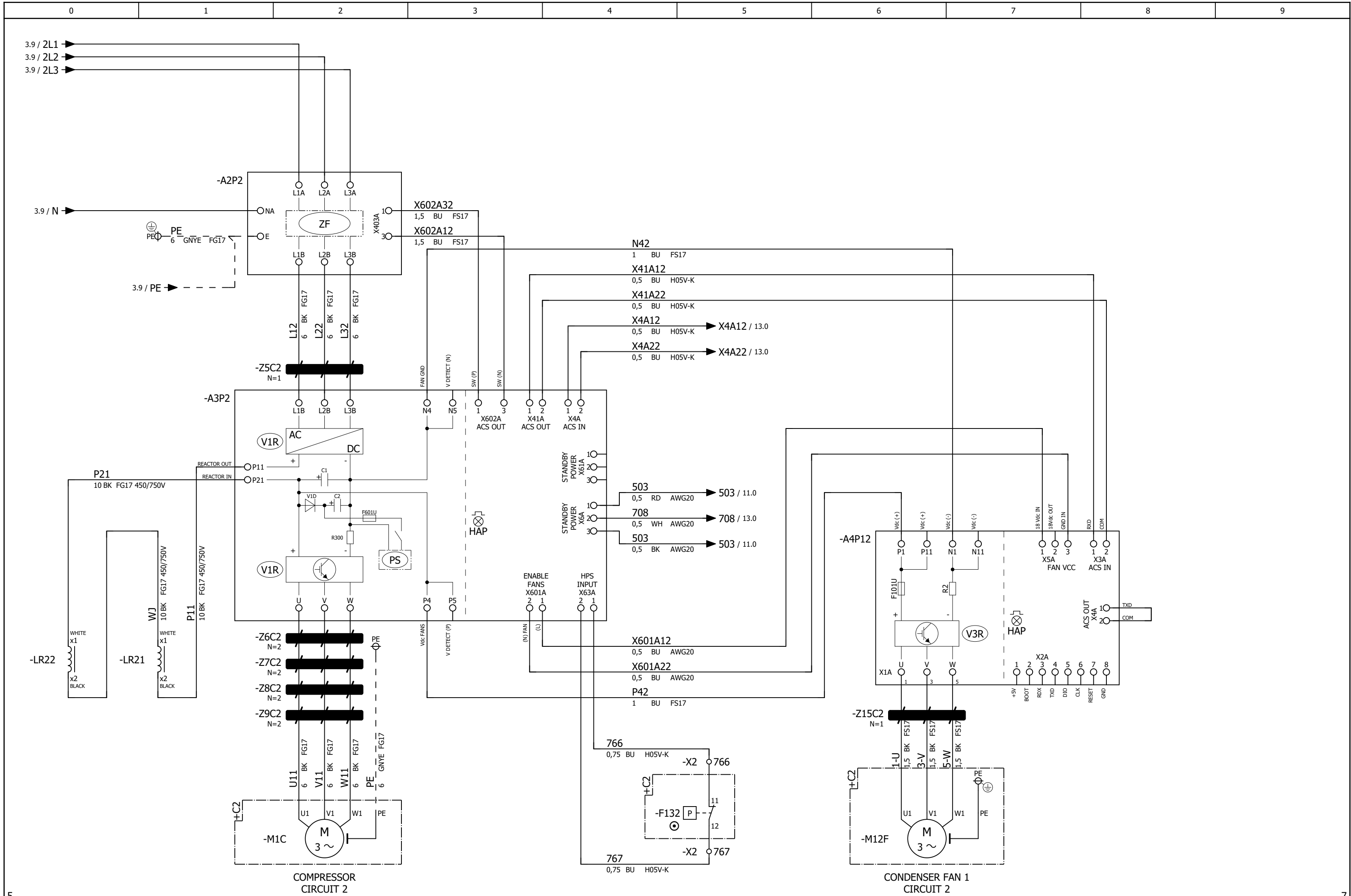


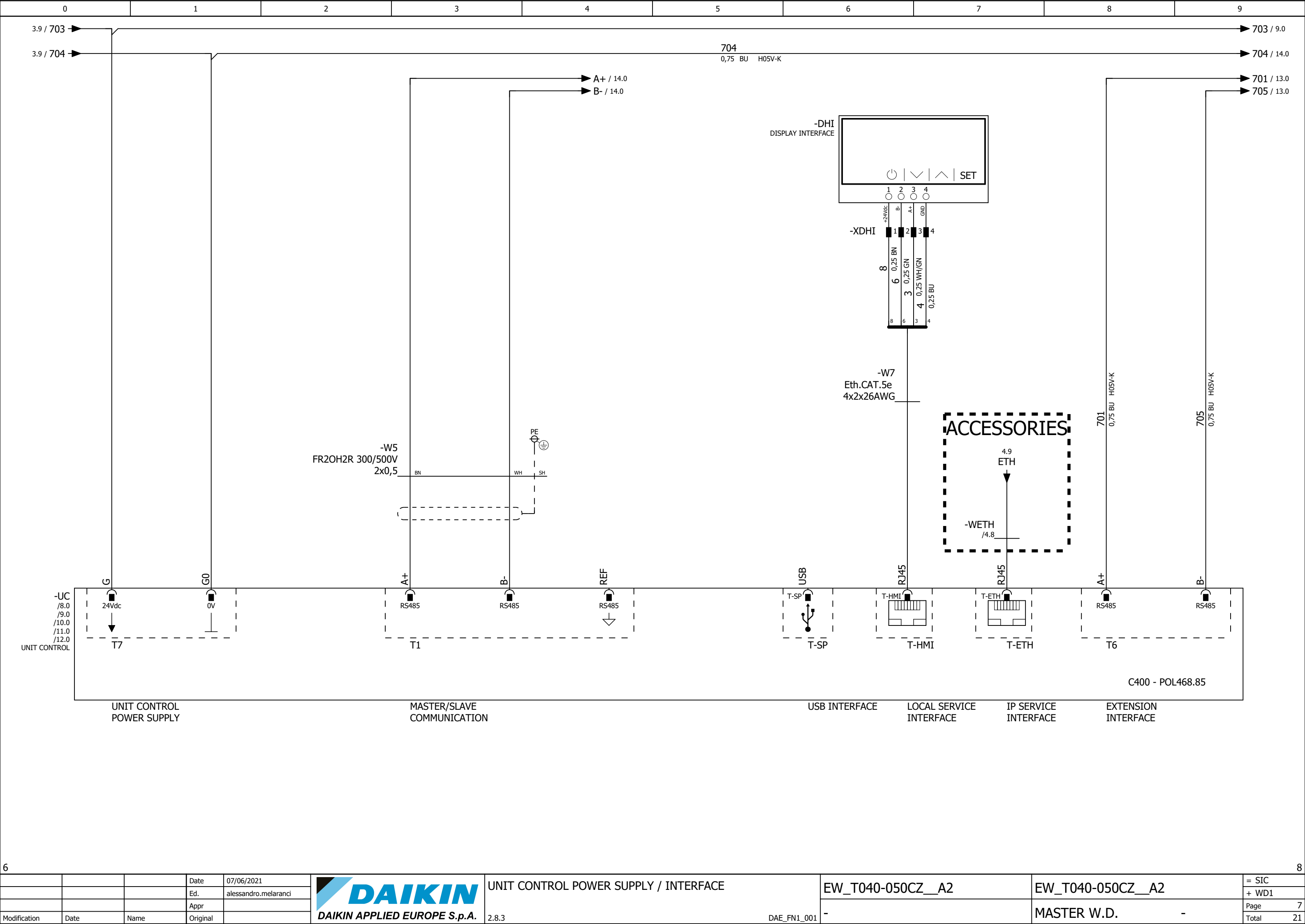
DAIKIN ON SITE MODEM

ACCESSORIES :



4			Date	08/06/2021	 DAIKIN APPLIED EUROPE S.p.A.	COMPRESSOR & FANS CIRCUIT 1	EW_T040-050CZ__A2	EW_T040-050CZ__A2	= SIC + WD1	Page 5	Total 21
			Ed.	alessandro.melaranci							
			Appr								
Modification	Date	Name	Original		2.8.3	DAE_FN1_001	-	MASTER W.D.	-		





			Date	07/06/2021
			Ed.	alessandro.melaranci
			Appr	
Modification	Date	Name	Original	

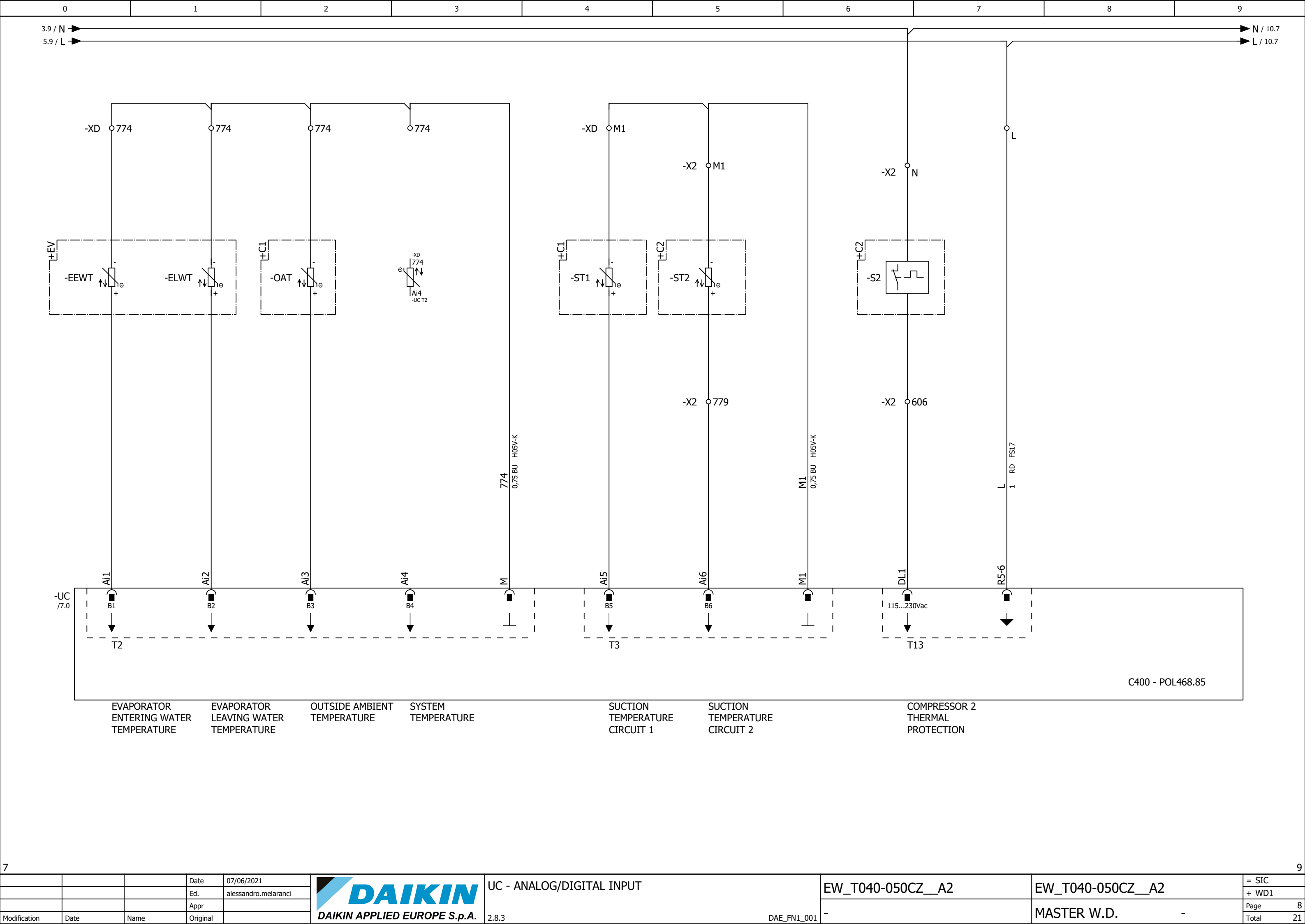


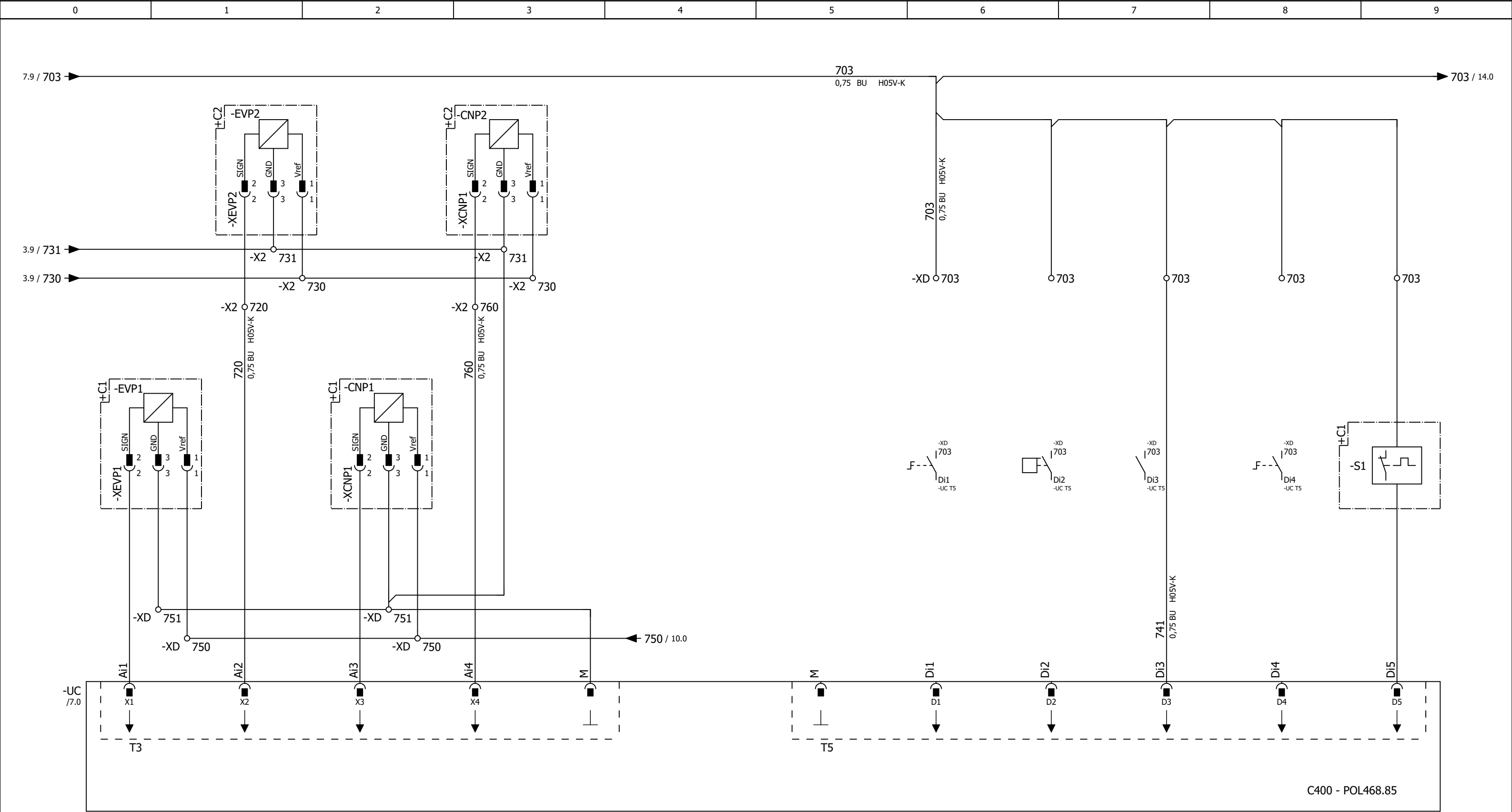
UNIT CONTROL POWER SUPPLY / INTERFACE
2.8.3
DAE_FN1_001

EW_T040-050CZ__A2
-

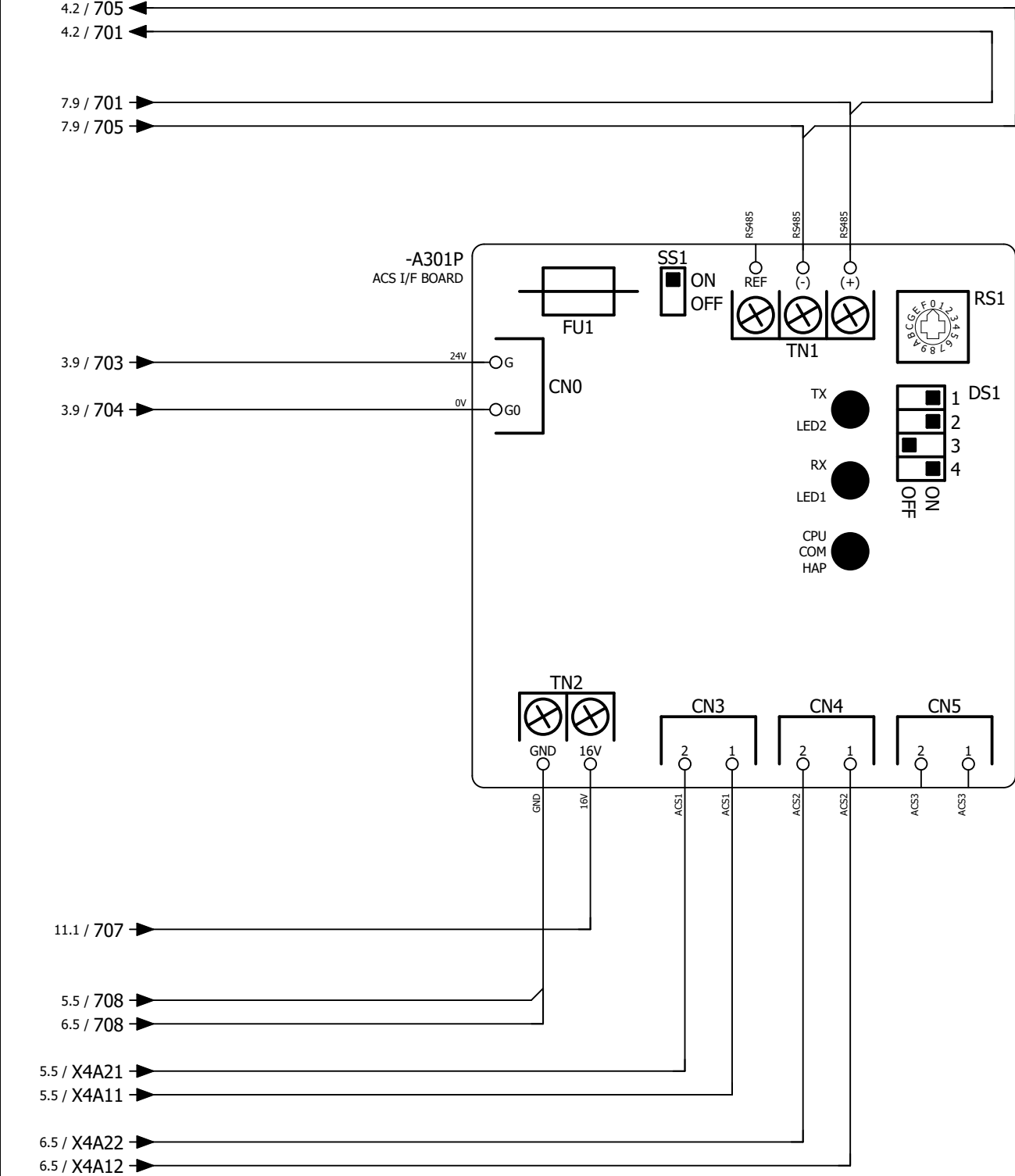
EW_T040-050CZ__A2
MASTER W.D.
-

= SIC
+ WD1
Page 7
Total 21





			Date	09/06/2021	 DAIKIN APPLIED EUROPE S.p.A.	UC - ANALOG/DIGITAL OUTPUT	EW_T040-050CZ__A2	EW_T040-050CZ__A2	= SIC	
			Ed.	alessandro.melaranci					+ WD1	
			Appr							
Modification	Date	Name	Original			2.8.3	DAE_FN1_001	-	MASTER W.D. -	Page 10 Total 21

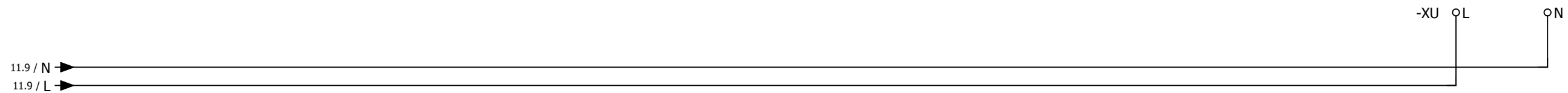
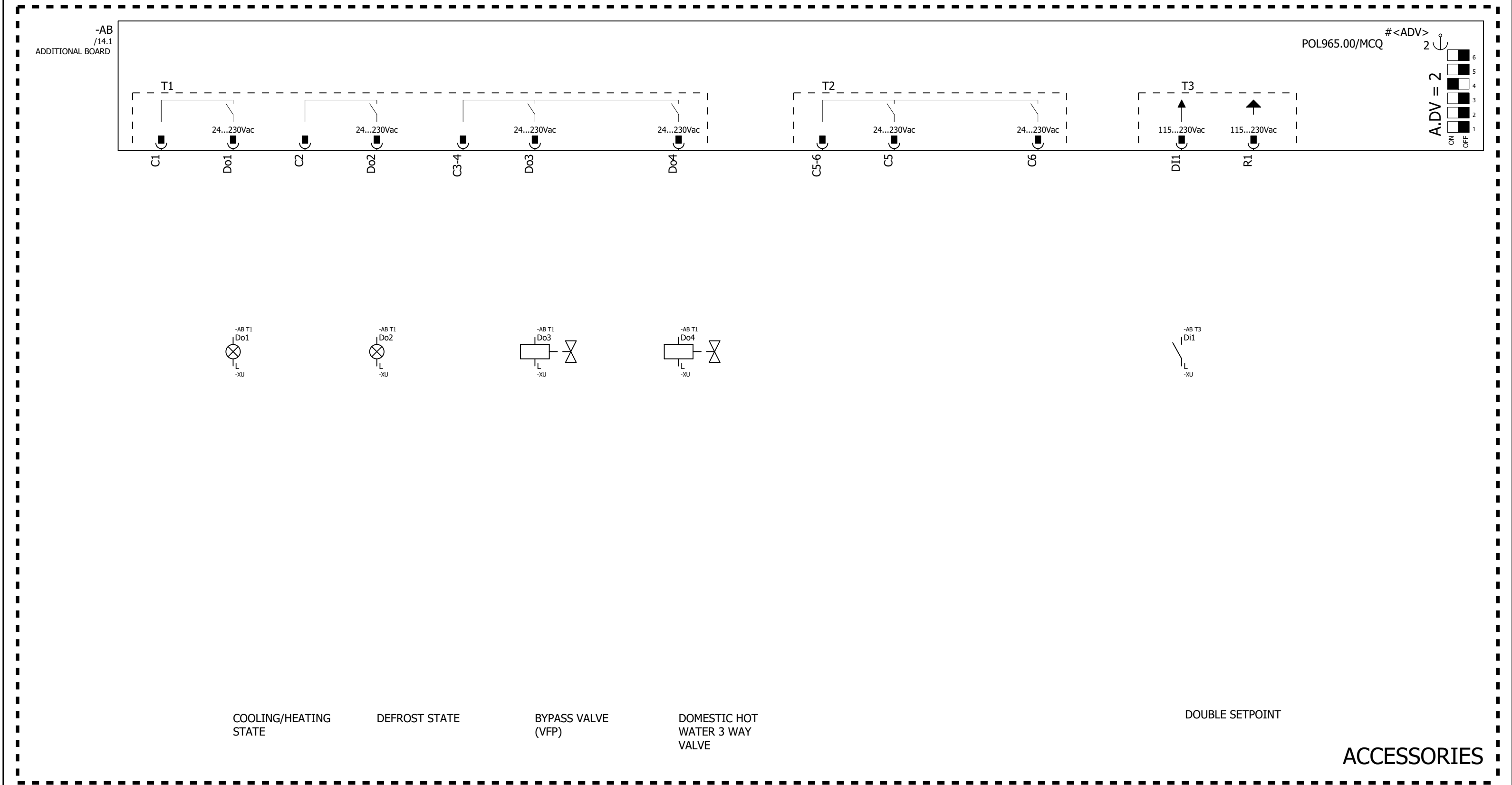


ACS I/F COMMUNICATION BOARD

			Date	08/06/2021
			Ed.	alessandro.melaranci
			Appr	
Modification	Date	Name	Original	



0	1	2	3	4	5	6	7	8	9
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			Date	20/05/2021	 DAIKIN DAIKIN APPLIED EUROPE S.p.A.	ADDITIONAL BOARD ANALOG/DIGITAL OUTPUT 2.8.3 DAE_FN1_001	EW_T040-050CZ__A2	EW_T040-050CZ__A2	= SIC
			Ed.	alessandro.melaranci					+ WD1
			Appr						Page 15
Modification	Date	Name	Original				-	MASTER W.D. -	Total 21

0	1	2	3	4	5	6	7	8	9
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Field Wiring Connection

DAE_F03_001

Type	Signal description	Function	Page / column		Symbol
Digital input	UNIT ON/OFF SWITCH		9	6	
Digital input	EVAPORATOR FLOW SWITCH	Obligatory	9	6	
Digital input	EXTERNAL ALARM/EMERGENCY STOP	Remove wire jumper 741	9	7	
Digital input	COOL/HEAT SWITCH		9	8	
Analog input	SYSTEM TEMPERATURE PROBE	NTC10K probe	8	3	
Digital output	UNIT ALARM	Max Load 10mA-16Vdc	11	1	
Analog input	DOMESTIC HOT WATER SENSOR	NTC10K probe	14	1	
Analog input	DEMAND LIMIT or CURRENT LIMIT	0 to 10V	14	1	
Analog Input	EVAPORATOR DP (VPF)	Output Signal 0...10Vdc	14	3	
Analog Input	SYSTEM DP (VPF)	Output Signal 0...10Vdc	14	4	
Digital input	DOMESTIC HOT WATER 3 WAY VALVE FEEDBACK OPEN		14	3	
Digital input	DOMESTIC HOT WATER 3 WAY VALVE FEEDBACK CLOSED		14	4	

Type	Signal description	Function	Page / column		Symbol
Analog input	SETPOINT RESET				
	0 to 10V		14	5	
Digital input	LOW NOISE ENABLE		14	6	
Digital input	DOMESTIC HOT WATER ENABLE		14	8	
Digital output	COOLING/HEATING STATE		15	1	
Digital output	DEFROST STATE		15	2	
Digital output	BYPASS VALVE (VFP)		15	3	
	Max Load 2A-230Vac				
Digital output	DOMESTIC HOT WATER 3 WAY VALVE		15	4	
	Max Load 2A-230Vac				
Digital input	DOUBLE SETPOINT		15	7	
Analogic Output	PUMP SPEED				
	0 to10V		10	4	
Digital Output	ON-OFF CONTROL EVAPORATOR PUMP		10	9	

Type	Signal description	Function	Page / column	Symbol

			Date	08/06/2021	 DAIKIN DAIKIN APPLIED EUROPE S.p.A.	FIELD WIRING CONNECTION	EW_T040-050CZ__A2	EW_T040-050CZ__A2	= SIC
			Ed.	alessandro.melaranci					+ WD1
			Appr						Page 16
Modification	Date	Name	Original			DAE_FN1_001	-	MASTER W.D. -	Total 21

Device tag list

DAE_F03_002_WD

Device tag	Quantity	Page	Column	Function
-A2P1	1	5	1	IN LINE NOISE FILTER
-A2P2	1	6	1	IN LINE NOISE FILTER
-A3P1	1	5	1	COMPRESSOR INVERTER
-A3P2	1	6	1	COMPRESSOR INVERTER
-A4P11	1	5	6	INVERTER CONDENSER FAN 1
-A4P12	1	6	6	INVERTER CONDENSER FAN 1
-A301P	1	13	1	ACS I/F BOARD
-AB	1	14	1	ADDITIONAL BOARD
-CNP2	1	9	3	CONDENSING 2 PRESSURE TRANSDUCER
-CNP1	1	9	2	CONDENSING 1 PRESSURE TRANSDUCER
-DCE	1	4	8	DoS MODEM
-DHI	1	7	6	DISPLAY INTERFACE
-DT2	1	10	2	DISCHARGE TEMPERATURE CIRCUIT 2
-DT1	1	10	1	DISCHARGE TEMPERATURE CIRCUIT 1
-E21HC	1	11	9	OIL HEATER 2
-E11HC	1	11	8	OIL HEATER 1
-EEWT	1	8	0	EVAPORATOR ENTERING WATER TEMPERATURE
-EEXV2	1	12	3	ELECTRONIC EXPANSION VALVE
-EEXV1	1	12	1	ELECTRONIC EXPANSION VALVE
-ELWT	1	8	1	EVAPORATOR LEAVING WATER TEMPERATURE
-EVP2	1	9	1	EVAPORATING 2 PRESSURE TRANSDUCER
-EVP1	1	9	0	EVAPORATING 1 PRESSURE TRANSDUCER
-F132	1	6	5	MECHANICAL HIGH PRESSURE SWITCH
-F1	1	5	7	AUXILIARY FUSES
-F131	1	5	5	MECHANICAL HIGH PRESSURE SWITCH
-KM90	1	10	9	CONTROL EVAPORATOR PUMP RELAY
-LR11	1	5	1	REACTOR
-LR12	1	5	0	REACTOR
-LR21	1	6	1	REACTOR
-LR22	1	6	0	REACTOR
-M1C	1	6	2	COMPRESSOR
-M12F	1	6	6	CONDENSER FAN 1
-M1C	1	5	2	COMPRESSOR
-M11F	1	5	6	CONDENSER FAN 1
-OAT	1	8	2	OUTSIDE AMBIENT TEMPERATURE
-P1	1	4	1	EVAPORATOR PUMP
-PVFD1	1	4	0	EVAPORATOR PUMP INVERTER
-Q	1	3	1	EXTERNAL CIRCUIT BREAKER PROTECTION (NOT PROVIDED)
-Q10	1	3	1	MAIN SWITCH 400V 3ph+N 50Hz
-Q90	1	4	5	EVAPORATOR PUMP
-REV	1	11	4	DEFROST EVAPORATOR HEATER
-REXP	1	11	5	DEFROST EXPANSION VESSEL HEATER

Device tag	Quantity	Page	Column	Function
-S2	1	8	6	COMPRESSOR 2 THERMAL PROTECTION
-S1	1	9	9	CIRCUIT 1 THERMAL PROTECTION
-ST2	1	8	5	SUCTION TEMPERATURE CIRCUIT 2
-ST1	1	8	4	SUCTION TEMPERATURE CIRCUIT 1
-T	1	4	9	DoS EXTERNAL ANTENNA
-U1	1	3	6	AUXILIARY 24Vdc POWER SUPPLY
-U2	1	3	7	AUXILIARY 5Vdc POWER SUPPLY
-UC	1	7	0	UNIT CONTROL
-Y4W2	1	11	7	4 WAY VALVE 2
-Y4W1	1	11	6	4 WAY VALVE 1
-Z1	1	3	2	CIRCUIT 1 FERRITE CORE
-Z2	1	3	3	CIRCUIT 1 FERRITE CORE
-Z3	1	3	3	CIRCUIT 1 FERRITE CORE
-Z4	1	3	3	CIRCUIT 1 FERRITE CORE
-Z5C1	1	5	2	INVERTER CIRCUIT 1 FERRITE CORE
-Z5C2	1	6	2	INVERTER CIRCUIT 1 FERRITE CORE
-Z6C1	1	5	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z6C2	1	6	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z7C1	1	5	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z7C2	1	6	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z8C1	1	5	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z8C2	1	6	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z9C1	1	5	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z9C2	1	6	2	COMPRESSOR CIRCUIT 1 FERRITE CORE
-Z15C1	1	5	6	CONDENSER FAN CIRCUIT 1 FERRITE CORE
-Z15C2	1	6	6	CONDENSER FAN CIRCUIT 1 FERRITE CORE

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DAE_F13_004																																																					
Terminal diagram	Cable name																																																				
	Strip =SIC+WD1-X1		Connection point																																																		
			Target designation	-PE	-PE																																																
			Jumper	-																																																	
			Terminal	PE																																																	
			Terminal designation	EXTERNAL POWER SUPPLY 400V 3ph+N 50Hz																																																	
			Connection point	PE																																																	
			Target designation	+EXT-RPS																																																	
	Cable name																																																				
19																																																					
+DOC/17							Date	20/05/2021		DAIKIN DAIKIN APPLIED EUROPE S.p.A.												Terminal diagram =SIC+WD1-X1										EW_T040-050CZ__A2										EW_T040-050CZ__A2										= SIC	
			Ed.	alessandro.melaranci		+ WD1																																															
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Modification	Date	Name	Original																																	Total 21																	

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DAE_F13_004

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			Date	15/06/2021	 DAIKIN APPLIED EUROPE S.p.A.	Terminal diagram =SIC+WD1-X2 2.8.3 DAE_FN1_001	EW_T040-050CZ__A2 -	EW_T040-050CZ__A2 MASTER W.D. -	= SIC
			Ed.	alessandro.melaranci					+ WD1
			Appr						Page 19
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DAE_F13_004

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