

**SCHEMA ELECTRIQUE
WIRING DIAGRAM
SCHALTPLAN
ESQUEMA ELECTRICO
SCHEMA ELETTRICO
ELEKTRISCH SCHEMA**

NAME	DATE 21/06/2017	SHEET 1
00DCG000258700		A

A001 VARIABLE SPEED DRIVE
 A002 MAIN CONTROL CARD
 A2 WUI (OPTIONNAL HUMAN MACHINE INTERFACE)
 BP1 LOW PRESSURE SENSOR
 CM COMPRESSOR
 EH1 HEATER PLATE EXCHANGERS
 EH90 HEATER HYDRAULIC PUMP
 EP90 HYDRAULIC PUMP
 FM1 FAN MOTOR
 FM2 FAN MOTOR
 FR90 HYDRAULIC PUMP THERMAL RELAY
 FT1 COMPRESSOR CASE THERMOSTAT
 PMV1 PULSE MOTOR VALVE
 PMV2 PULSE MOTOR VALVE
 QS100 DISCONNECTING SWITCH
 RT1 LEAVING WATER TEMPERATURE SENSOR
 RT2 ENTERING WATER TEMPERATURE SENSOR
 SP1F HIGH PRESSURE SWITCH
 SP90F EVAPORATOR PUMP FLOW SWITCH
 TC TRANSFORMER
 TD DISCHARGE TEMPERATURE SENSOR
 TE HEAT EXCHANGER SENSOR 1
 TL HEAT EXCHANGER SENSOR 2
 TO OUTSIDE TEMPERATURE SENSOR
 TR REFRIGERENT SENSOR
 TS SUCTION TEMPERATURE SENSOR
 YV21 2 WAY VALVE COIL
 YV41 4 WAY VALVE COIL
 148C/D CEN TO BACNET GATEWAY OR LON
 Y 3 WAY VALVE DOMESTIC HOT WATER

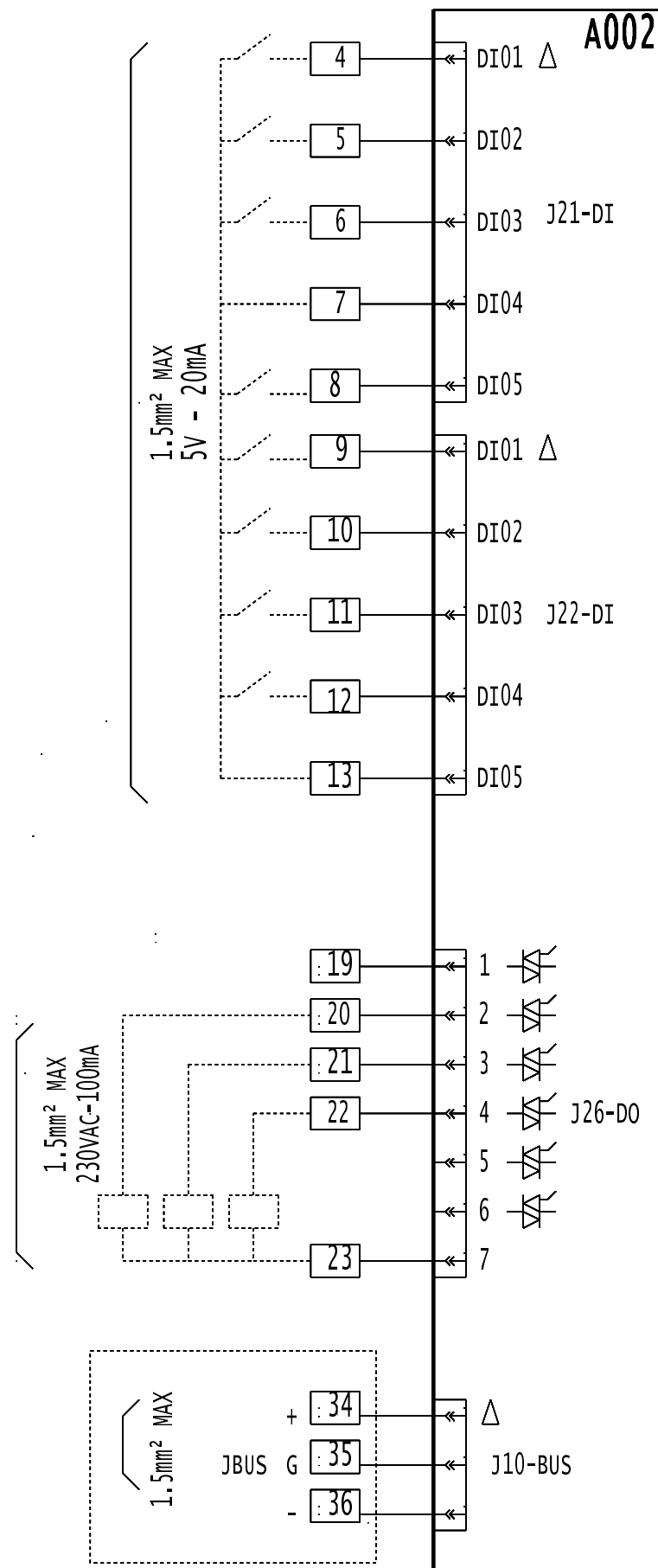
A001 VARIATEUR DE VITESSE
 A002 CARTE DE CONTROLE PRINCIPALE
 A2 WUI (INTERFACE HOMME MACHINE OPTIONNEL)
 BP1 SONDE BASSE PRESSION
 CM COMPRESSEUR
 EH1 RECHAUFFEUR DE L'ECHANGEUR A PLAQUE
 EH90 RECHAUFFEUR KIT HYDRAULIQUE
 EP90 KIT HYDRAULIQUE
 FM1 MOTEUR DU VENTILATEUR
 FM2 MOTEUR DU VENTILATEUR
 FR90 RELAIS THERMIQUE KIT HYDRAULIQUE
 FT1 PROTECTION THERMIQUE DU COMPRESSEUR
 PMV1 VANNE MOTORISE A IMPULSION
 PMV2 VANNE MOTORISE A IMPULSION
 QS100 INTERRUPTEUR SECTIONNEUR
 RT1 SONDE DE TEMPERATURE SORTIE EAU
 RT2 SONDE DE TEMPERATURE ENTREE EAU
 SP1F PRESSOSTAT
 SP90F DETECTEUR DEBIT EAU POMPE EVAPORATEUR
 TC TRANSFORMATEUR
 TD SONDE DE TEMPERATURE DE REFOULEMENT
 TE SONDE 1 DE TEMPERATURE DE LA BATTERIE
 TL SONDE 2 DE TEMPERATURE DE LA BATTERIE
 TO SONDE DE TEMPERATURE EXTERIEUR
 TR SONDE DE TEMPERATURE DU REFRIGERANT
 TS SONDE DE TEMPERATURE D'ASPIRATION
 YV21 VANNE 2 VOIES
 YV41 VANNE 4 VOIES
 148C/D PASSERELLE DE COMMUNICATION CEN VERS BACNET OU LON
 Y VANNE 3 VOIES POUR EAU CHAUDE SANITAIRE

A001 DREHZAHLEGLER
 A002 MIKROPROZESSOR HAUPTMODUL
 A2 BUS KARTE
 BP1 DRUCKMESSWANDLER VERFLUSSIGERDRUCK
 CM VERDICHTER
 EH1 VERDICHTER KURBELWANNENHEIZUNG
 EH90 HEIZUNG IM VERDAMPFER WASSERKREILAUF
 EP90 WASSERPUMPE
 FM1 VERFLUESSIGERVENTILATOR
 FM2 VERFLUESSIGERVENTILATOR
 FR90 UBERLASTERELAIS WASSERPUMPE
 FT1 UBERLASTRELAIS VERDICHTER
 PMV1 ELEKTRONISCHES EXPANSIONSVENTIL
 PMV2 ELEKTRONISCHES EXPANSIONSVENTIL
 QS100 HAUT TRENNSCHALTER
 RT1 TEMPERATURFUEHLER VERDAMPFER KALTWASSER AUSTRITT
 RT2 TEMPERATURFUEHLER VERDAMPFER KALTWASSER EINTRITT
 SP1F VERDICHTER HOCHDRUCK SICHERHEITS SCHALTER
 SP90F STOEMUNGSWAECHTER VERDAMPFERPUMPE
 TC TRANSFORMATOR STEUERSTROMKREIS
 TD PRÜFSPITZE TEMPER SCHLAUCH-HOCHDRUCK
 TE PRÜFSPITZE TEMPER SCHLAUCH-KONDENSAT.1
 TL PRÜFSPITZE TEMPER SCHLAUCH-KONDENSAT.2
 TO IM FREIEN TEMPERATURFUEHLER
 TR TEMPERATURSENSOR KÄLTEMITTEL
 TS TEMPERATURSENSOR SAUGGAS
 YV21 UMKERHRENTIL (2)
 YV41 UMKERHRENTIL (4)
 148C/D *
 Y WARMASSE-DREI-WEGE-VENTIL

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40																		
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A001	TOERENREGELAAR	A001	VARIADOR DE VELOCIDAD	A001	VARIATORE DI VELOCIT
A002	BASICPRINT	A002	MODULO PRINCIPAL BASADO EN MICROPROCESADOR	A002	MODULO PRINCIPALE A MICROPROCESSORE
A2	BUS PRINT	A2	PLACA BUS	A2	SCHEDA BUS
BP1	CONDENSORDRUK OPNEMER	BP1	PRESION DEL CONDENSATOR DE TRANDUSTOR	BP1	TRADUSTTORE PRESSIONE DEL CONDENSATORE
CM	COMPRESSOR	CM	COMPRESOR	CM	COMPRESSORE
EH1	COMPRESSOR CARTERVERWARING	EH1	CALENTADOR DEL CAETER DEL COMPRESOR	EH1	RISCALDATORE CARTER COMPRESSORE
EH90	VERWARING WATERCIRCUIT VERDAMPER	EH90	ELEMENTO DE CALEFACCION DEL CIRCUITO DE REFRIGENERACION DEL AGUA DEL EVAPORADOR	EH90	ELEMENTO RISCALDANTE DEL CIRCUITO IDRICO EVAPORATORE
EP90	WATER POMP	EP90	BOMBA DE AGUA	EP90	POMPA ACQUA
FM1	CONDENSORVENTILATOR	FM1	VENTILADOR DEL CONDENSADOR	FM1	VENTILATORE DEL CONDENSATORE
FM2	CONDENSORVENTILATOR	FM2	VENTILADOR DEL CONSENSADOR	FM2	VENTILATORE DEL CONDENSATORE
FR90	THERMISCHE BEVEILIGING WATERPOMP	FR90	REL TRMICO DE LA BOMBA DE AGUA	FR90	RELE TERMICO POMPA ACQUA
FT1	THERMISCHE BEVEILIGING COMPRESSOR	FT1	REL TRMICO DEL COMPRESADOR	FT1	RELE TERMICO COMPRESSORE
PMV1	ELEKTRONISCH EXPANSIEVENTIEL	PMV1	VALVULA DE EXPANSION ELECTRONICA	PMV1	VALVOLA DI ESPANSIONE ELECTRONICA
PMV2	ELEKTRONISCH EXPANSIEVENTIEL	PMV2	VALVULA DE EXPANSION ELECTRONICA	PMV2	VALVOLA DI ESPANSIONE ELECTRONICA
QS100	ALGHELE HOOFDSCHAKELAAR	QS100	SECCIONADOR GENERAL	QS100	SEZIONATORE GENERALE
RT1	TEMPERATUROPNEMER GEKOELWATER UITTREDE	RT1	SENSOR DE TEMPERATURA DEL AGUA DE SALIDA DEL EVAPORADOR	RT1	SONDA DI TEMPERATURA ACQUA IN USCITA EVAPORATORE
RT2	TEMPERATUROPNEMER GEKOELWATER INTRDE	RT2	SENSOR DE TEMPERATURA DEL AGUA DE ENTRADA DEL EVAPORADOR	RT2	SONDA DI TEMPERATURA ACQUA INGRESSO EVAPORATORE
SP1F	HOGEDRUNKBEVEILIGING	SP1F	INTERRUPTOR DE SEGURIDAD DE PRESION ALTA	SP1F	INTERRUTTORE DI SICUREZZA ALTA PRESIONE
SP90F	GEKOELD WATER STROMINGSBEVEILIGING	SP90F	INTERRUPTOR DE CAUDAL DE LA BOMBA DEL EVAPORADOR	SP90F	FLUSSOSTATO POMPA EVAPORATORE
TC	TRANSFORMATOR STUURSTROOMCIRCUIT	TC	TRANSFORMADOR DEL CIRCUITO DE CONTROL	TC	TRANSFORMATORE CIRCUITO DI REGOLAZIONE
TD	TEMPERATUROPNEMER PERSGAS	TD	SENSOR DE TEMPERATURA DE DESCARGA	TD	SONDI DI TEMPERATURA TUBO ALTA PRESS
TE	TEMPERATUROPNEMER CONDENSOR 1	TE	SENSOR DE TEMPERATURA DE CONDENSATORE 1	TE	SONDE DI TEMPERATURA TUBO CONDENSATORE 1
TL	TEMPERATUROPNEMER CONDENSER 2	TL	SENSOR DE TEMPERATURA DE CONDENSATORE 2	TL	SONDA DI TEMPERATURA TUBO CONDENSATORE 2
TO	TEMPERATUROPNEMER RUIMTELUCHT OF BUITENLUCHT	TO	SENSOR DE TEMPERATURA AMBIENTE O DEL AIR EXTERIOR	TO	SONDA DI TEMPERATURA UNITA'ESTERNA
TR	TEMPERATUROPNEMER KOELER	TR	SENSOR DE TEMPERATURA DE REFRIGERATORE	TR	SONDA DI TEMPERATURA REFRIGERADOR
TS	TEMPERATUROPNEMER ZUIGAS	TS	SENSOR DE TEMPERATURA DE ASPIRACION	TS	SONDA DI TEMPERATURA ASPIRAZIONE
YV21	BYPASSKLEP {2}	YV21	VALVULA DE DERIVACION (2)	YV21	VALVOLA D'INVERSIONE (2VIES)
YV41	BYPASSKELP (4)	YV41	VALVULA DE DERIVACION (4)	YV41	VALVOLA D'INVERSIONE (4VIES)
148C/D	*	148C/D	*	148C/D	*
Y	SANITAIR WARM WATER 3-WEGKLEP	Y	VALVULA A TRE VIE ACQUA CALDA SANITARIA	Y	VALVOLA DE TRES VIAS PARA AGUA DE LA ENFRIADORA

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RACCORDAMENTO CONTROLLE CLIENT
 CUSTOMER CONTROL CONNECTIONS
 KUNDENSEITIGE STEUERUNGSANSCHLUESSE

CONEXIONES DE CONTROL DEL CLIENTE
 COLLEGAMENTI REGOLAZIONE CLIENTE
 EXTERNE STUURSTROOM AANSLUITINGEN

TERMINAL CUSTOMERS

- 1 CCN+
- 1 WUI+
- 2 CCN GROUND
- 3 CCN-
- 3 WUI-
- 6 ON/OFF SWITCH (REMOTE)
- 7 MODE HEAT/COOL (REMOTE)
- 6 NORMAL/ECO (REMOTE)
- 7 SAFETY INPUT SWITCH
- 8 FLOW SWITCH
- 9 CUSTOMIZE DISCRETE INPUT #5
- 10 CUSTOMIZE DISCRETE INPUT #6
- 11 CUSTOMIZE DISCRETE INPUT #7
- 12 CUSTOMIZE DISCRETE INPUT #8
- 13 GROUND
- 14 DHW TANK TEMPERATURE
- 15 CHILLER WATER SYSTEM TEMPERATURE
- 16 INDOOR AIR TEMPERATURE
- 17 OUTDOOR AIR TEMP
- 18 GROUND
- 19 DOMESTIC HOT WATER 3-WAY VALVE
- 20 EHS1/BOILER
- 21 CUSTOMIZED OUTPUT #8
- 22 CUSTOMIZED OUTPUT #9
- 23 NEUTRAL
- 24 WUI 12V
- 25 WUI GROUND
- 26 VARIABLE WATER FLOW CONTROL
- 27 GROUND
- 28 UNUSED
- 29 ADDITIONAL PUMP
- 30 WATER PUMP
- 31 NEUTRAL
- 32 NEUTRAL
- 33 GROUND

- 34 JBUS+
- 35 JBUS GROUND
- 36 JBUS-

BORNIER CLIENT

- 1 CCN+
- 1 WUI+
- 2 MASSE CCN-
- 3 CCN-
- 3 WUI-
- 4 INTERRUPTEUR MARCHÉ/ARRET
- 5 MODE CHAUD/FROID (TELECOMMANDE)
- 6 MODE NORMAL/ECO (TELECOMMANDE)
- 7 INTERRUPTEUR ENTREE SECURITE
- 8 DETECTEUR DE DEBIT CIRCUIT REFRIGERANT
- 9 ENTREE SEPEREE PROGRAMMABLE #5
- 10 ENTREE SEPEREE PROGRAMMABLE #6
- 11 ENTREE SEPEREE PROGRAMMABLE #7
- 12 ENTREE SEPEREE PROGRAMMABLE #8
- 13 MASSE
- 14 TEMPERATURE RESERVOIR ECS
- 15 TEMPERATURE SYSTEME DE CLIMATISATION
- 16 TEMPERATURE AIR INTERIEUR
- 17 TEMPERATURE AIR INTERIEUR
- 18 MASSE
- 19 VANNE 3 VOIES EAU CHAUDE SANITAIRE
- 20 EH1/CHAUDIERE
- 21 SORTIE PROGRAMMABLE #8
- 22 SORTIE PROGRAMMABLE #9
- 23 NEUTRE
- 24 WUI 12V
- 25 WUI MASSE
- 26 COMMANDE POMPE VITESSE VARIABLE
- 27 MASSE
- 28 INUTILISE
- 29 POMPE ADDITIONNELLE
- 30 POMPE A EAU
- 31 NEUTRE
- 32 NEUTRE
- 33 MASSE

- 34 JBUS+
- 35 JBUS MASSE
- 36 JBUS-

TERMINAL CUSTOMERS		TERMINAL CUSTOMERS		TERMINAL CUSTOMERS		TERMINAL CUSTOMERS	
1	CCN+	1	CCN+	1	CCN+	1	CCN+
1	WUI+	1	WUI+	1	WUI+	1	WUI+
2	CCN ERDE	2	CCN ARDE	2	CCN GROUND	2	TIERRA CCN-
3	CCN-	3	CCN-	3	CCN-	3	CCN-
3	WUI-	3	WUI-	3	WUI-	3	WUI-
4	EIN/AUS-SCHALTER (EXTERN)	4	AAN/UIT-SCHAKELAAR (EXTERN)	4	INTERRUTORE ON/OFF SWITCH (REMOTO)	4	INTERRUPTOR DE ENCENDIDO/APAGADO (REMOTO)
5	HEIZ-KÜHLBETRIEB (EXTERN)	5	BEDRIJSTYPE VERWARMEN/KOELEN (EXTERN)	5	MODALITA A CALDO/FREDDO (REMOTA)	5	MODO CALEFACCION/REFRIGERACCION (REMOTO)
6	NORMAL-/SPARBETRIEB (EXTERN)	6	NORMAAL-/ECO (EXTERN)	6	NORMAAL-/ECO (REMOTO)	6	NORMAL/ECO (REMOTO)
7	SICHERHEITS-EINGANGSSCHALTER	7	VEILIGHEIDSGANG SCHAKELAAR	7	INTERRUTORE DI INGRESSO SICUREZZA	7	INTERRUPTOR DE ENTRADA DE SEGURIDAD
8	STRÖMUNGSWÄCHTER IM KÄLTEMITTELKREIS	8	KOUDEMIDDEL CIRCUIT STROMINGSBEVEILLING	8	INTERRUTORE DELLA PORTATA CIRCUITO REFRIGERANTE	8	INTERRUPTOR DE CAUDAL DEL CIRCUITO DE REFRIGERANTE
9	BENUTZERSPEZIFISCHER ZWEIPUNKT-EINGANG #5	9	AANGEPASTE DISCRETE-INGANG #5	9	INGRESSO DISCRETO #5 (PERSONALIZZATO)	9	SALIDA DISCRETA PERSONALIZADA #5
10	BENUTZERSPEZIFISCHER ZWEIPUNKT-EINGANG #6	10	AANGEPASTE DISCRETE-INGANG #6	10	INGRESSO DISCRETO #6 (PERSONALIZZATO)	10	SALIDA DISCRETA PERSONALIZADA #6
11	BENUTZERSPEZIFISCHER ZWEIPUNKT-EINGANG #7	11	AANGEPASTE DISCRETE-INGANG #7	11	INGRESSO DISCRETO #7 (PERSONALIZZATO)	11	SALIDA DISCRETA PERSONALIZADA #7
12	BENUTZERSPEZIFISCHER ZWEIPUNKT-EINGANG #8	12	AANGEPASTE DISCRETE-INGANG #8	12	INGRESSO DISCRETO #8 (PERSONALIZZATO)	12	SALIDA DISCRETA PERSONALIZADA #8
13	ERDE	13	AARDE	13	GROUND	13	TIERRA
14	WARMWASSERSPEICHERTEMPERATUR	14	SWW-TANK TEMPERATUUR	14	TEMPERATURA SERBATOIO ACS	14	TEMPERATURA DEL DEPOSITO DE ACS
15	TEMPERATUR IM WASSERKREIS DES FLÜSSIGKEITSKÜHLERS	15	KOELWATER SYSTEEMTEMPERATUUR	15	TEMPERATURA SISTEMA REFRIGERATORE	15	TEMPERATURA DEL SISTEMA DE AGUA DE LA ENFRIADORA
16	RAMLUFTTEMPERATUR	16	BINNENLUCHTTEMPERATUUR	16	TEMPERATURA ARIA INTERNA	16	TEMPERATURA DEL AIR INTERIOR
17	AUBENLUFTTEMPERATUR	17	BUITENLUCHTEMPERATUUR	17	TEMPERATURA ARIA ESTERNA	17	TEMPERATURA DEL AIR EXTERIOR
18	ERDE	18	AARDE	18	GROUND	18	TIERRA
19	WARMWASSER-DREI-WEGE-VENTIL	19	SANITAIR WARM WATER 3-WEGKLEP	19	VALVOLA A TRE VIE ACQUA CALDA SANITARIA	19	VALVULA DE TRES VIAS PARA AGUA CALIENTE SANITARIA
20	EH1/HEIZKESSEL	20	EH1/KETEL	20	EH1/CALDAIA	20	EH1/CALDERA
21	BENUTZERSPEZIFISCHER ZWEIPUNKT-AUSGANG #8	21	AANGEPASTE UITGANG #8	21	ESGROSSO #8 (PERSONALIZZATO)	21	ENTRADA PERSONALIZADA #8
22	BENUTZERSPEZIFISCHER ZWEIPUNKT-AUSGANG #9	22	AANGEPASTE UITGANG #9	22	ESGROSSO #9 (PERSONALIZZATO)	22	ENTRADA PERSONALIZADA #9
23	NULLLEITER	23	NEUTRAAL	23	NEUTRO	23	NEUTRE
24	WUI 12V	24	WUI 12V	24	WUI 12V	24	WUI 12V
25	WUI ERDE	25	WUI AARDE	25	WUI GROUND	25	WUI TIERRA
26	VARIABLE WASSERMENGENREGELUNG	26	VARIABLE WATERDEBIETREGELING	26	REGOLAZIONE DELLA PORTATA D'ACQUA VARIABILE	26	CONTROL DE CAUDAL VARAIBLE DE AGUA
27	ERDE	27	AARDE	27	GROUND	27	MASSE
28	UNUSED	28	UNUSED	28	UNUSED	28	UNUSED
29	ZUSAPUMPE	29	EXTRA POMP	29	POMPA GGIUNTIVA	29	BOMBA ADICIONAL
30	EINTRITTSWASSER	30	WATER OPNEMER	30	INGRESSO ACQUA POMPA	30	ENTRADA DE AGUA BOMBA
31	NULLLEITER	31	NEUTRAAL	31	NEUTRO	31	NEUTRO
32	NULLLEITER	32	NEUTRAAL	32	NEUTRO	32	NEUTRO
33	ERDE	33	AARDE	33	GROUND	33	TIERRA
34	JBUS+	34	JBUS+	34	JBUS+	34	JBUS+
35	JBUS ERDE	35	JBUS AARDE	35	JBUS GROUND	35	JBUS TIERRA
36	JBUS-	36	JBUS-	36	JBUS-	36	JBUS-

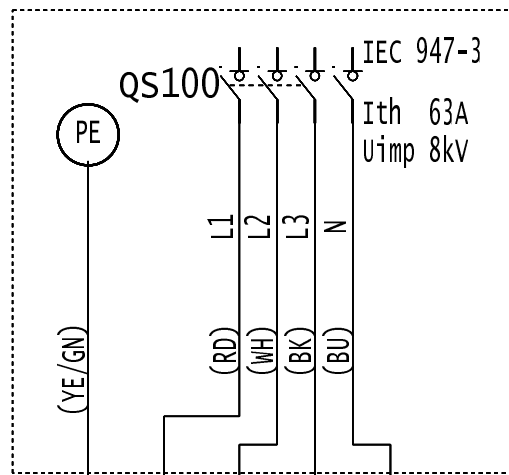
RACCORDMENT CONTROLE CLIENT
CUSTOMER CONTROL CONNECTIONS
KUNDENSEITIGE STEUERUNGSANSCHLUESSE

CONEXIONES DE CONTROL DEL CLIENTE
COLLEGAMENTI REGOLAZIONE CLIENTE
EXTERNE STUURSTROOM AANSLUITINGEN

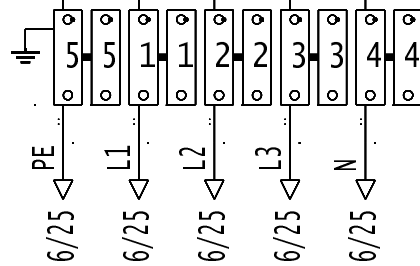
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380-415V 3N~50HZ

GENERAL DISCONNECT SWITCH
INTERRUPTEUR GENERAL



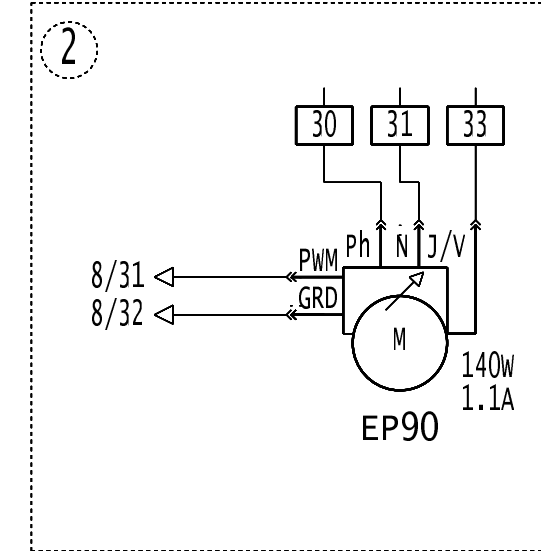
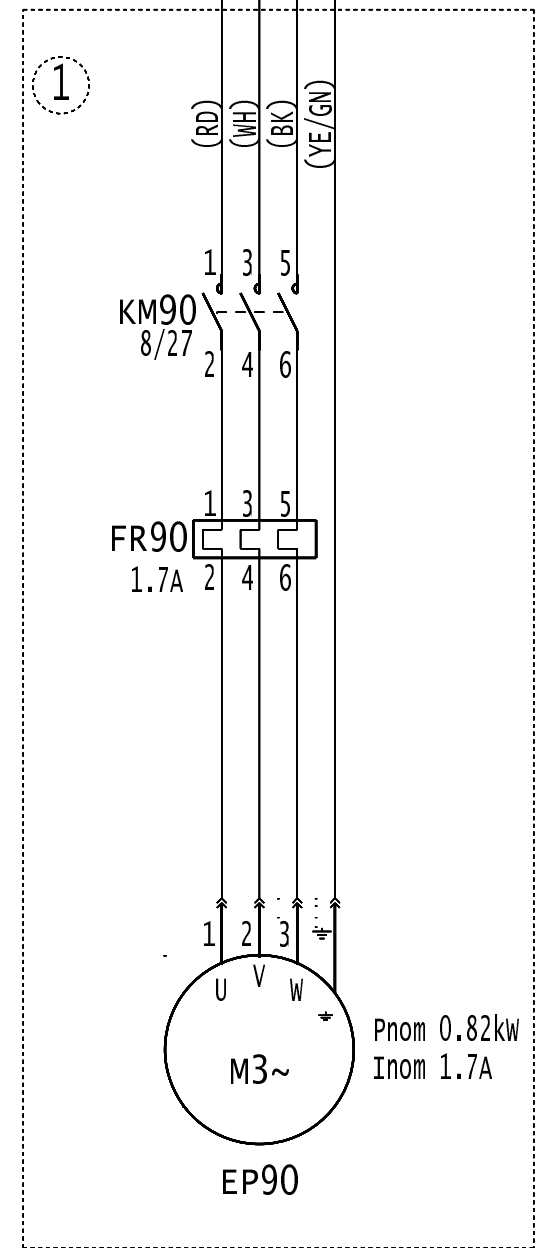
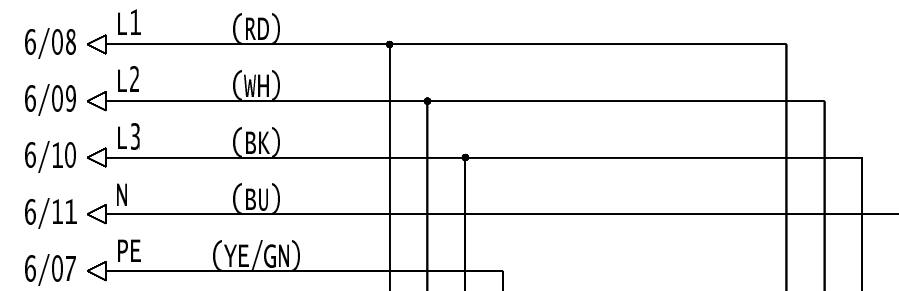
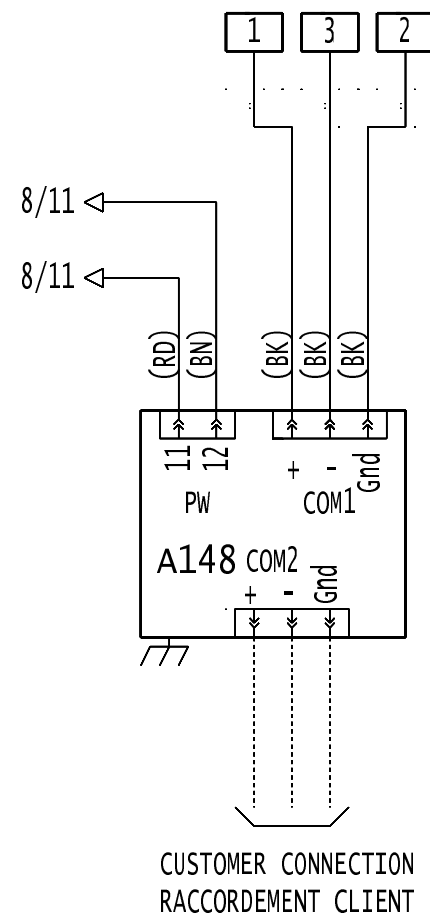
BORNIER X1
TERMINAL BLOCK X1



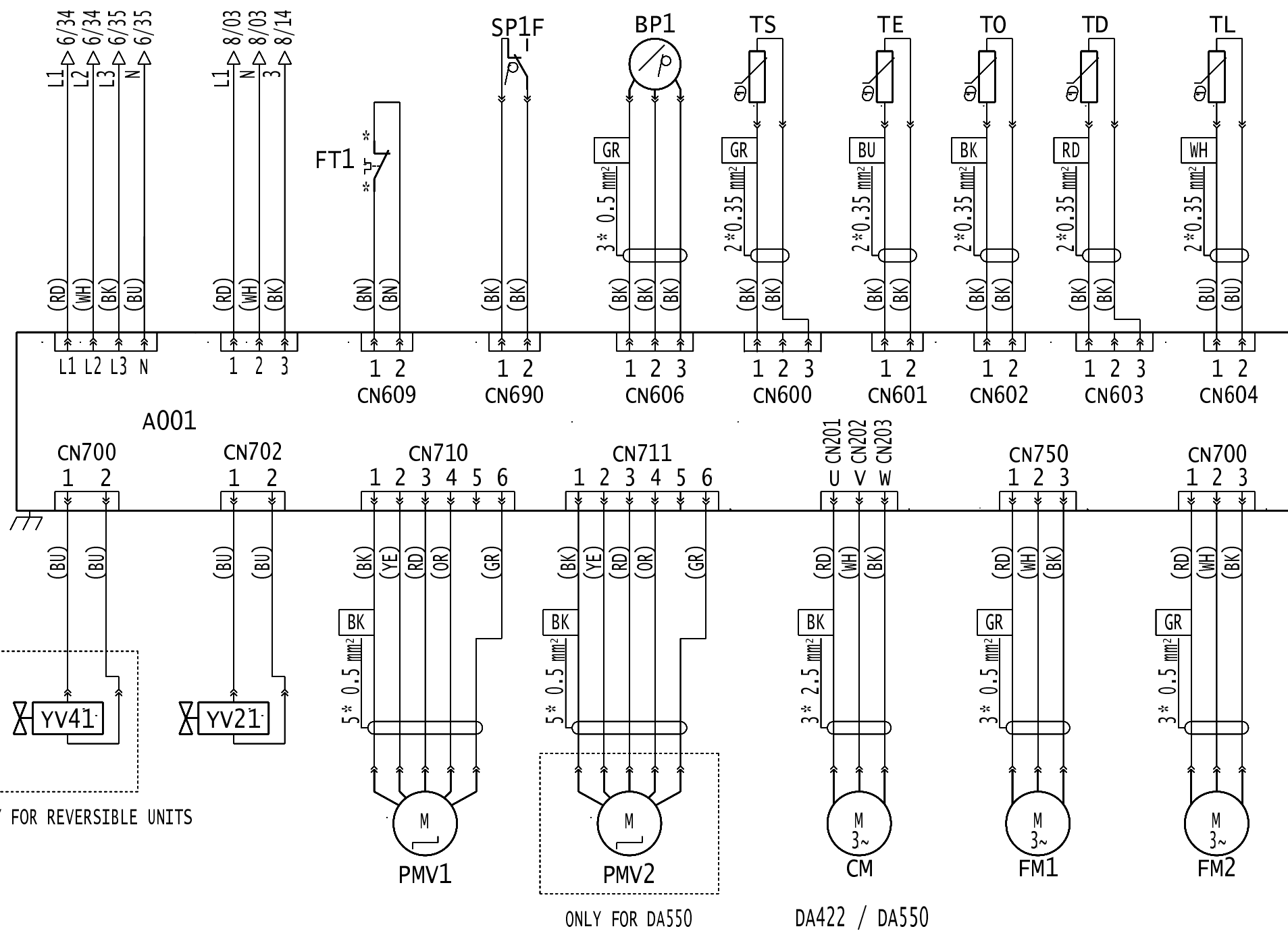
1 EVAPORATOR PUMP
POMPE EVAPORATEUR
VERDAMPERPOMPMOTOR
VERDAMPFERPUMPE
BOMBA DEL EVAPORADOR
POMPE EVAPORATORE

2 VARIABLE PUMP
POMPE VARIABLE
VARIABELE POMP
VARIABLE PUMPE
VARIABLE BOMBA
VARIABLE POMPA

148C/D



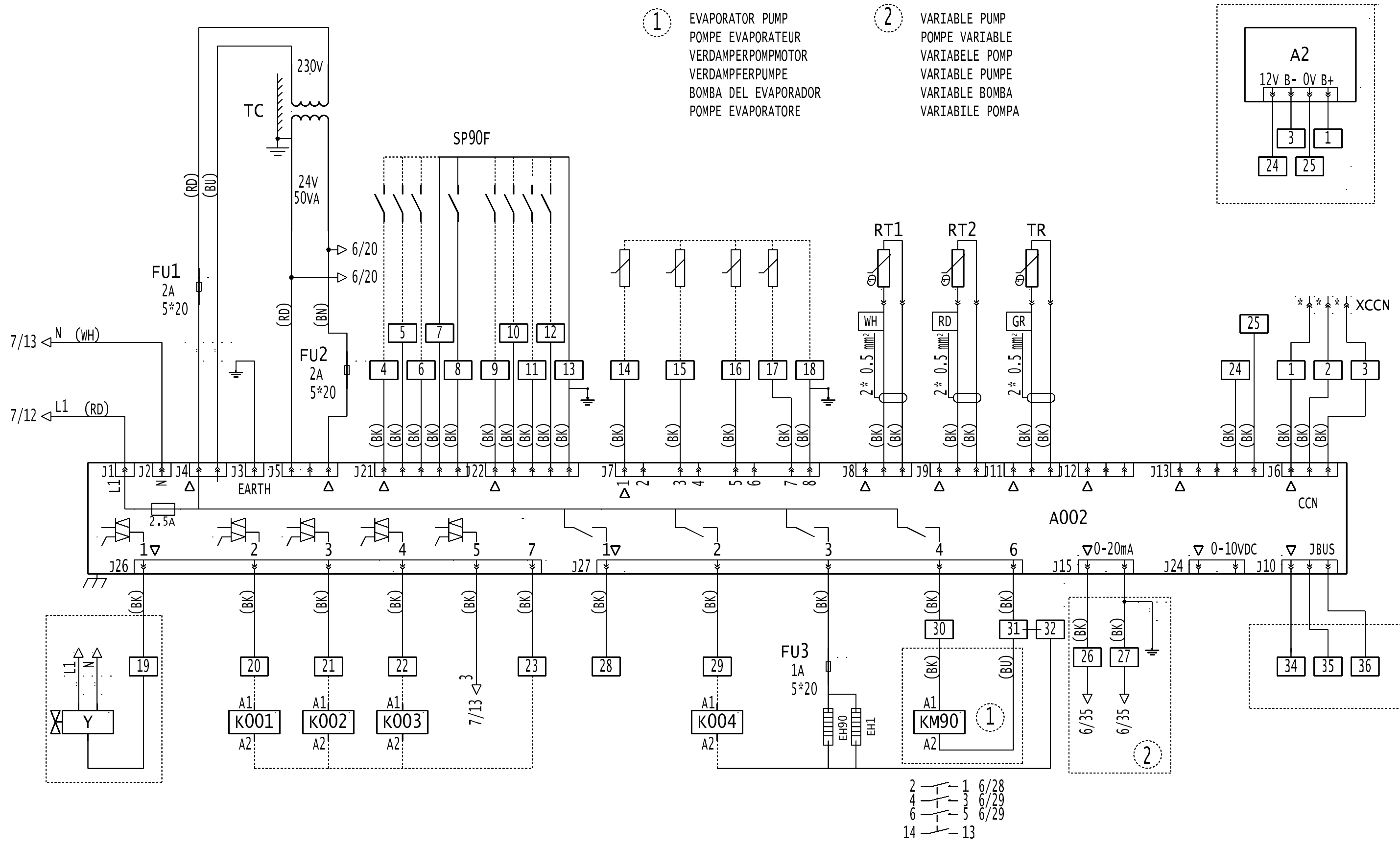
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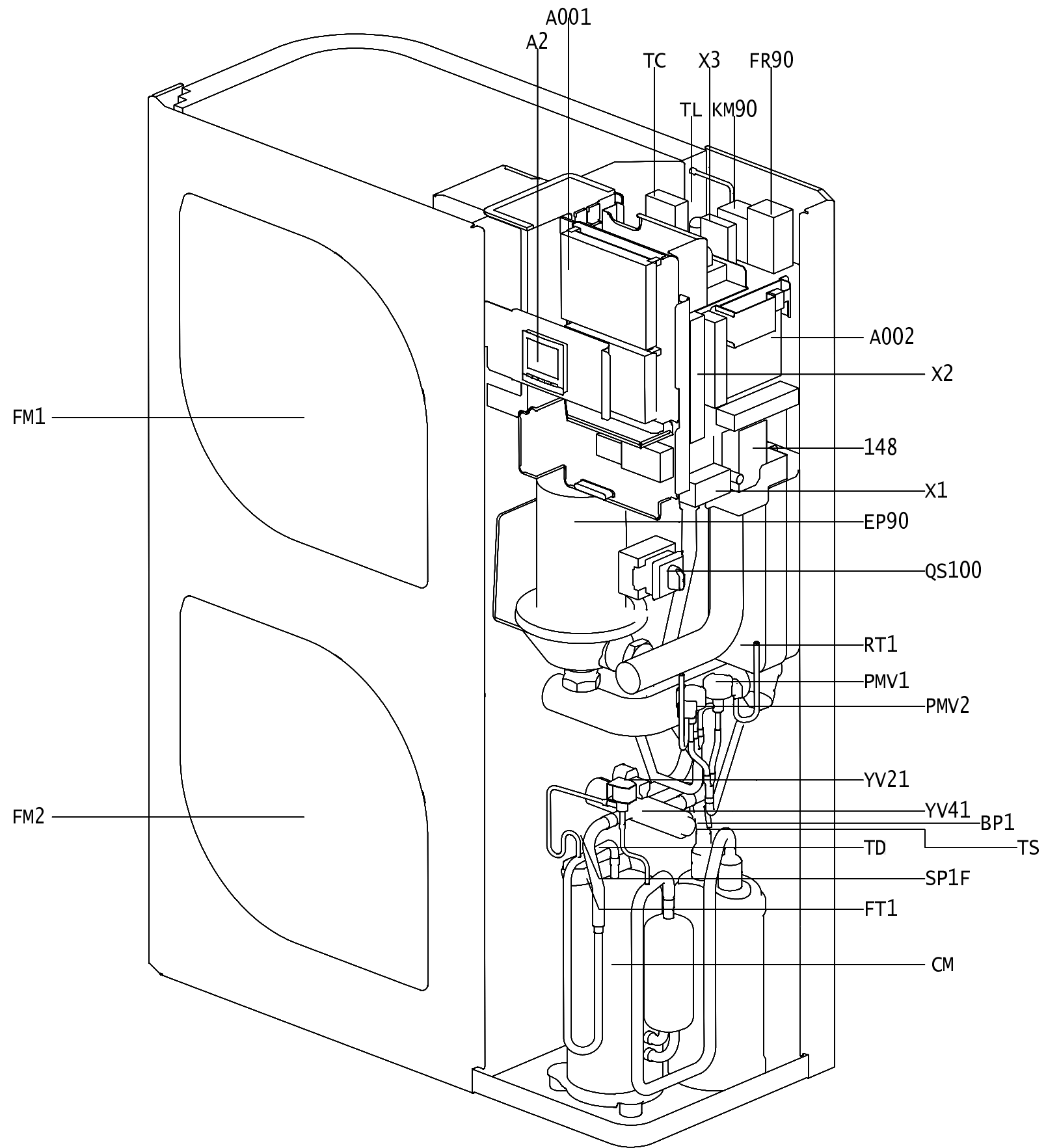


ONLY FOR REVERSIBLE UNITS

ONLY FOR DA550

DA422 / DA550





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