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**Order data**

Serial number / Type **UMT T**

Model **UMT (/WG) T 30/45 BTDX**

Description **[UMT T] condensing unit**

Plant

**Electrical wiring diagram**

Draft nr. **0691067 - 0691067WG**

Creation date: **C.D. 09/11/16** Check: **C.D. 09/11/16** Approved: **M.B.**

Rev.	Descr.	Data, Date	Visa
01	BMS CONNECTION + ADIABATIC SYSTEM SUPPLY	12-02-18	C.D.
02	ELECTRICAL DATA CHANGED, HEATER CONNECTION ADDED ON X20	18-04-18	C.D.
03	SERIAL LINE ROUTE CHANGED, MINOR WIRING CHANGES, WATER VERSION DATA ADDED	07-01-19	C.D.
04	DIGITAL INPUT AND OUTPUT ADDED FROM CONTROLLER TO X20	26-02-19	C.D.
05	ADDED SAUTER 3 WAY VALVE MANAGEMENT	27-03-19	C.D.

**Electrical data**

Rated load amp. RLA (A) **PAG. 2<sup>(\*\*)</sup>** Dimensions (LxHxD) **CUBO 2 SMART**

Starting current (A) **PAG. 2** Degree of protection (IP/IK) **IP54 / IK10**

Starting current (A) **PAG. 2** Reference norms **IEC EN 61000-3/4  
IEC EN 61439-2  
IEC EN 60204-1**

Icc/Icw (kA) **Icw(0,3sec) = 10kA**

Rated impulse withstand voltage Uimp **2,5kV-CAT II**

Power supply line. **230V/1Ph+N+PE/50Hz**

Aux command line (V) **230 Vac**

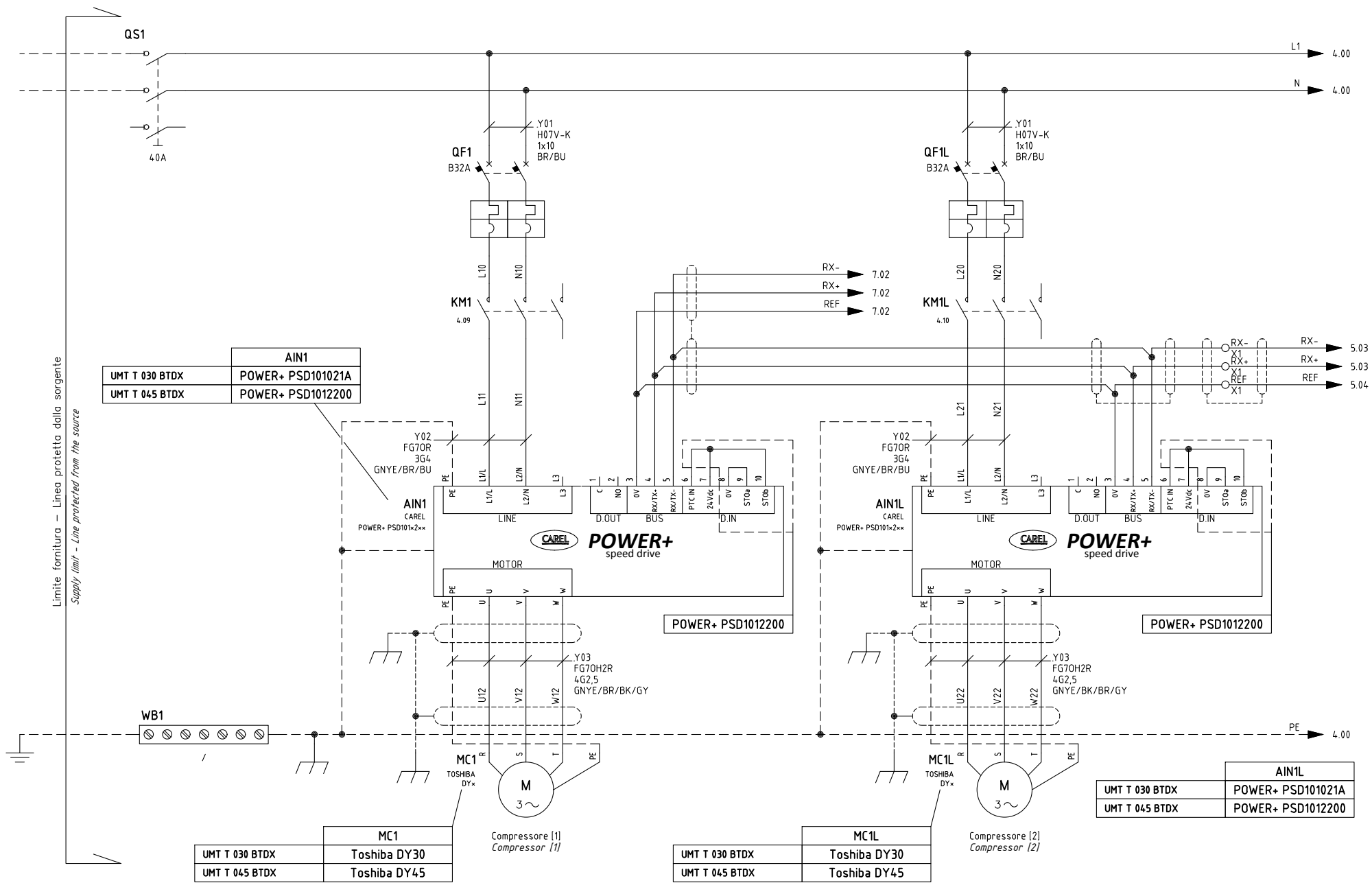
Signal line (V) **230 Vac  
24 Vdc**

Electronic controllers **pRACK HECU CAREL**

Components brand **Schneider Electric   
SIEMENS   
EATON**

**\*\*)** Dato da utilizzare per il dimensionamento della linea di alim.  
 To be used for supply line sizing  
 Pour être utilisé pour le dimensionnement de la ligne d'alimentation  
 Zur Dimensionierung der Elt.-Zuleitung verwendbar.





	AIN1
UMT T 030 BTDX	POWER+ PSD101021A
UMT T 045 BTDX	POWER+ PSD1012200

	AIN1L
UMT T 030 BTDX	POWER+ PSD101021A
UMT T 045 BTDX	POWER+ PSD1012200

	MC1
UMT T 030 BTDX	Toshiba DY30
UMT T 045 BTDX	Toshiba DY45

	MC1L
UMT T 030 BTDX	Toshiba DY30
UMT T 045 BTDX	Toshiba DY45

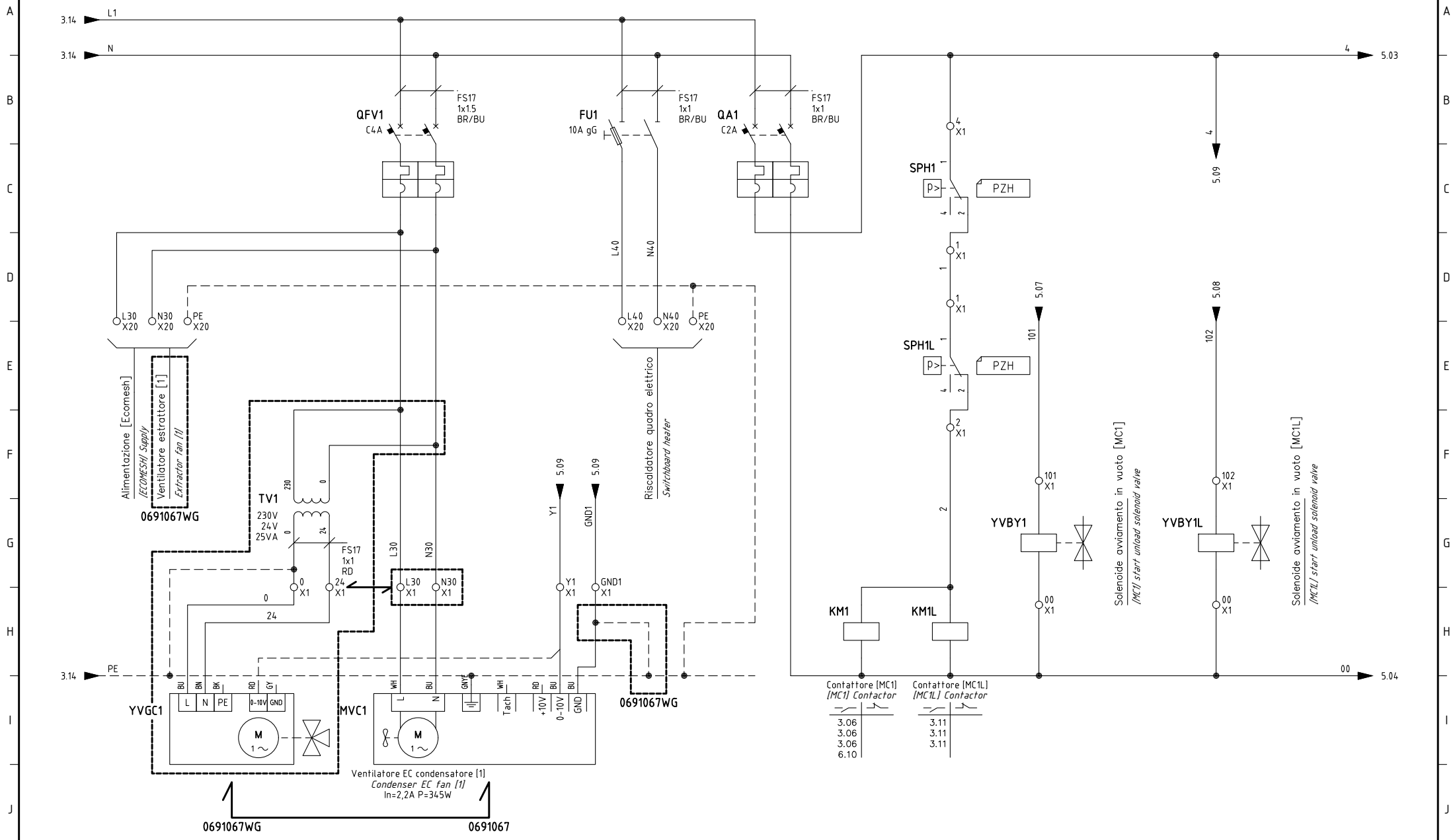
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Date - Datum	
Disegnatore - Designer	C.D.
Dessinateur - Zeichner	
Visto - Checked by	C.D.
Vu - Kontrolle	
Approvato - Approved	M.B.
Apprové - Genehmigt	



Modello - Model - Modelle - Maschine typ - bezeichnung  
**UMT T 30/45 BTDX**  
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**LINEA DI ALIMENTAZIONE**  
**POWER SUPPLY LINE**

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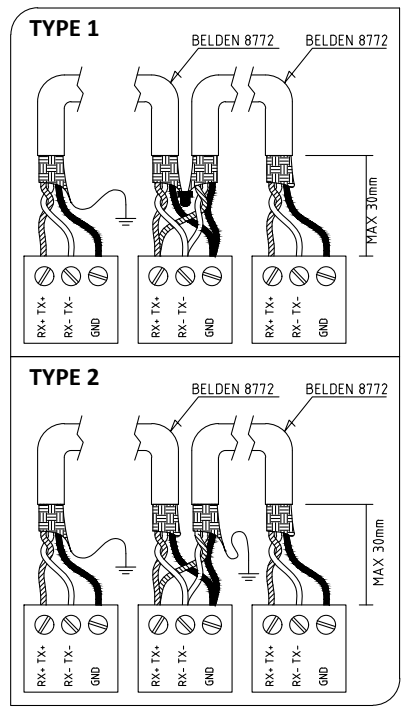
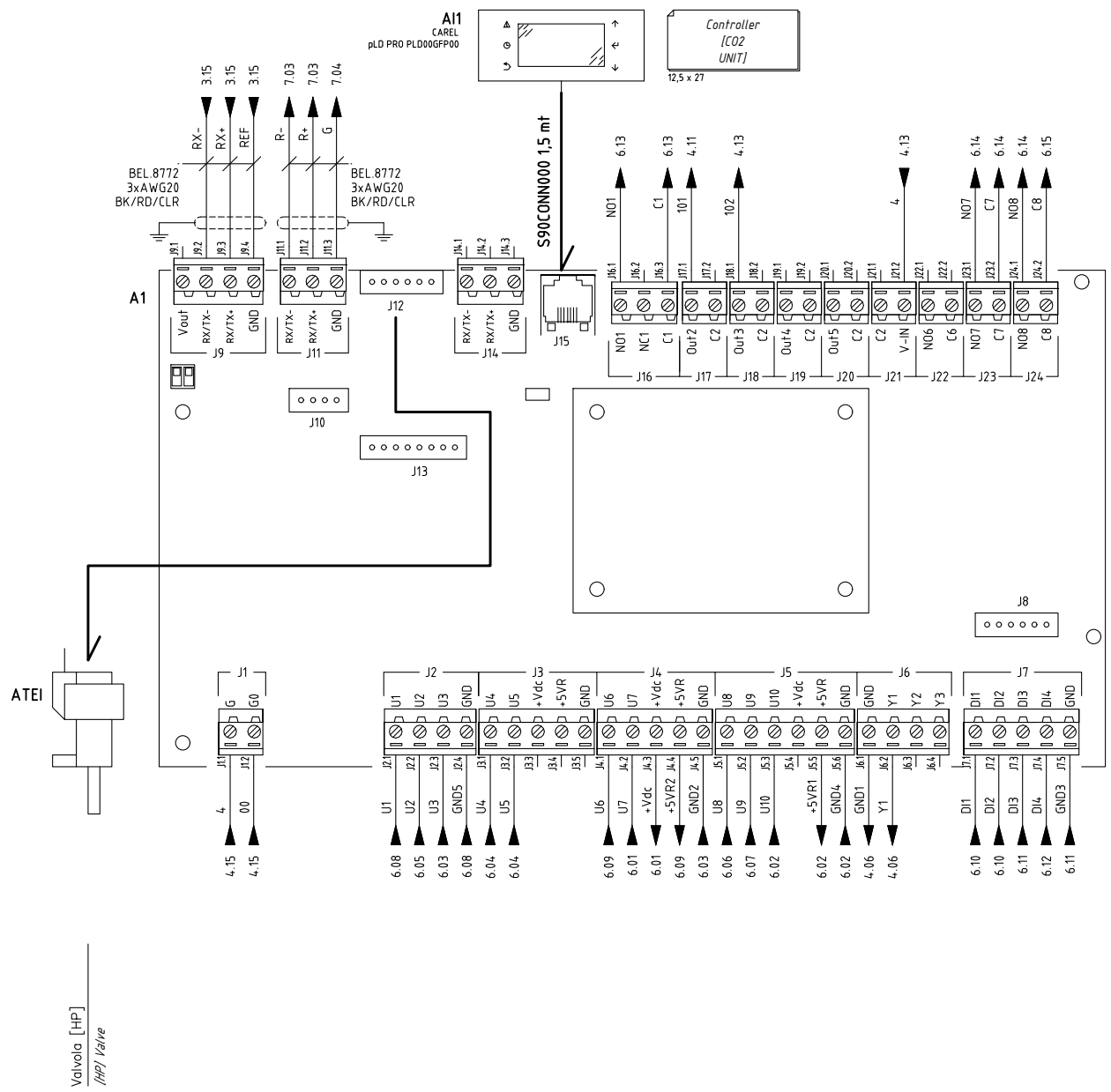


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Descrizione pagina - Page description - Description de la page - Seite - Bezeichnung	COMPRESSORE [1] Compressor [1]

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Valvola [HP]  
[HP] Valve

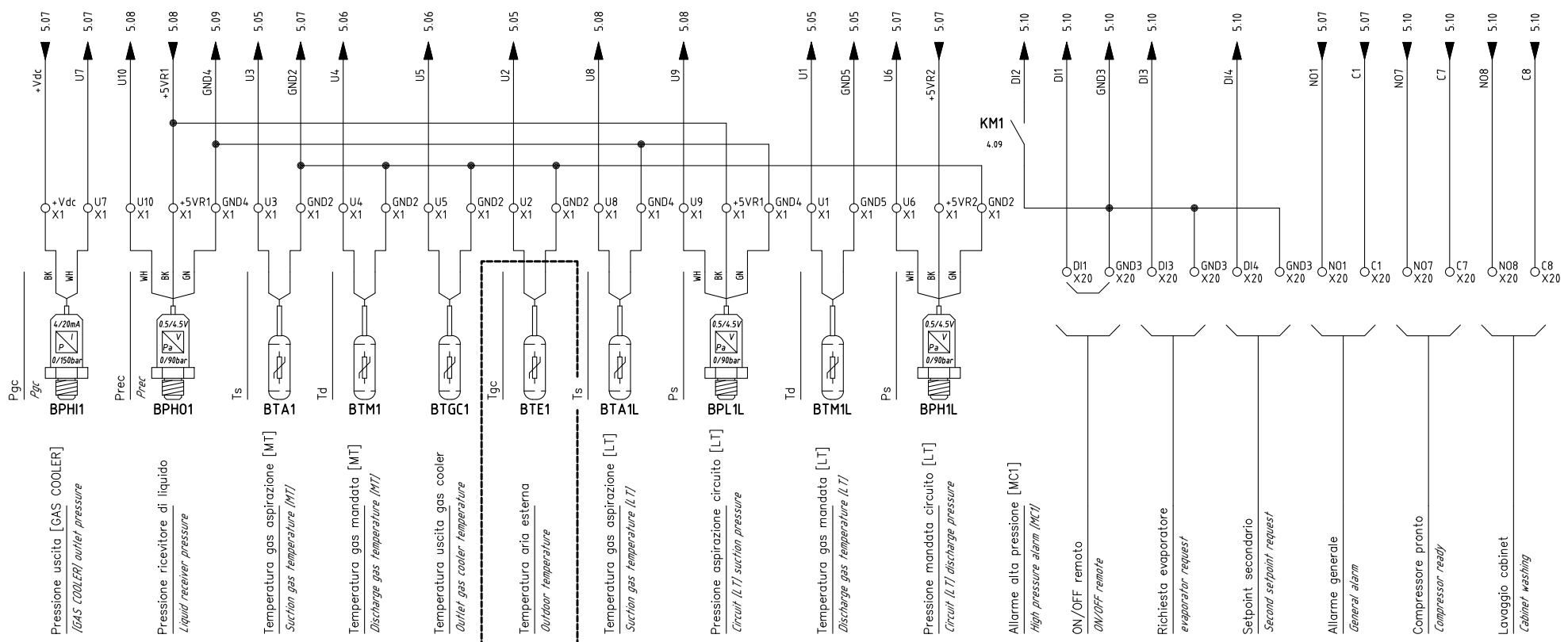
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**CONTROLLORE ELETTRONICO [PRACT]  
[PRACT] ELECTRONIC CONTROLLER**

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Pressione uscita [GAS COOLER]  
[GAS COOLER] outlet pressure

Pressione ricevitore di liquido  
Liquid receiver pressure

Temperatura gas aspirazione [MT]  
Suction gas temperature [MT]

Temperatura gas mandata [MT]  
Discharge gas temperature [MT]

Temperatura uscita gas cooler  
Outlet gas cooler temperature

Temperatura aria esterna  
Outdoor temperature

Temperatura gas aspirazione [LT]  
Suction gas temperature [LT]

Pressione aspirazione circuito [LT]  
Circuit [LT] suction pressure

Temperatura gas mandata [LT]  
Discharge gas temperature [LT]

Pressione mandata circuito [LT]  
Circuit [LT] discharge pressure

Allarme alta pressione [MCI]  
High pressure alarm [MCI]

ON/OFF remoto  
ON/OFF remote

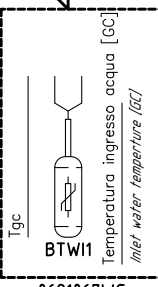
Richiesta evaporatore  
evaporator request

Setpoint secondario  
Second setpoint request

Allarme generale  
General alarm

Compressore pronto  
Compressor ready

Lavaggio cabinet  
Cabinet washing



0691067WG

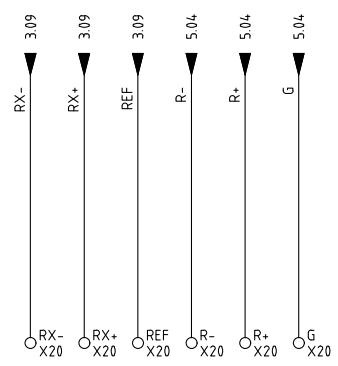
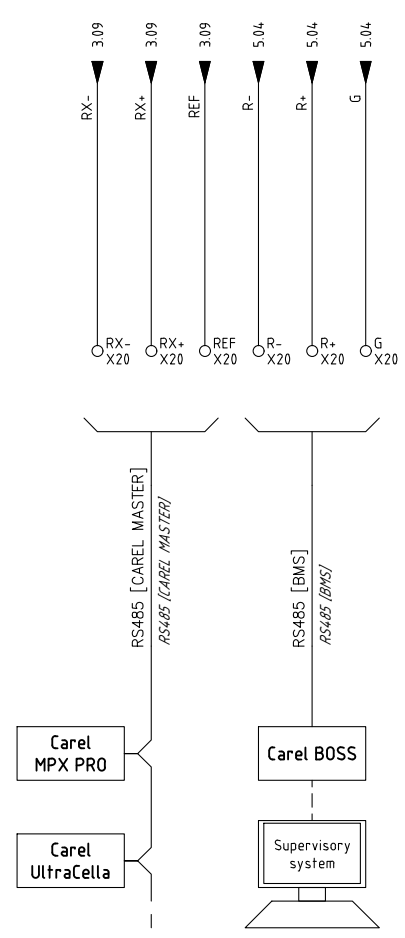
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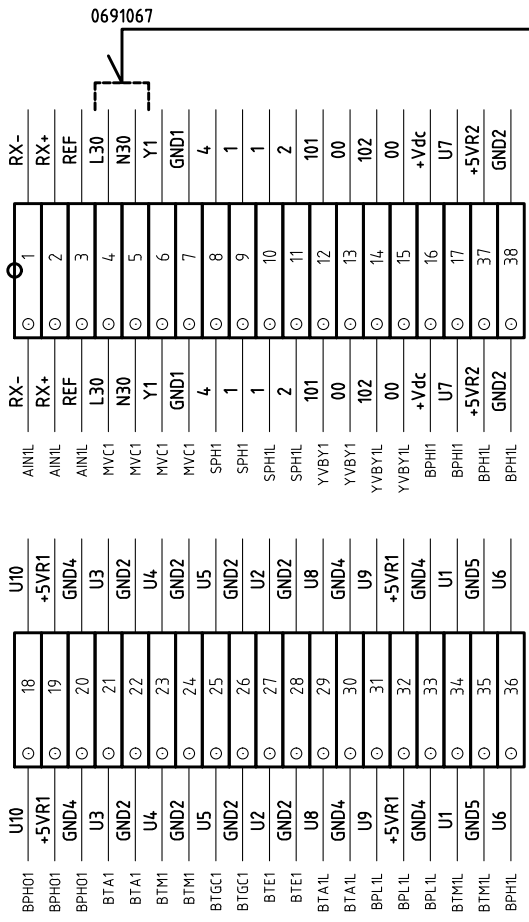
Modello - Model - Modèle - Maschine typ - bezeichnung	UMT T 30/45 BTDX
Descrizione pagina-Page description-Description de la page-Seite Beschreibung	CONTROLLORE ELETTRONICO [PRACT] [PRACT] ELECTRONIC CONTROLLER

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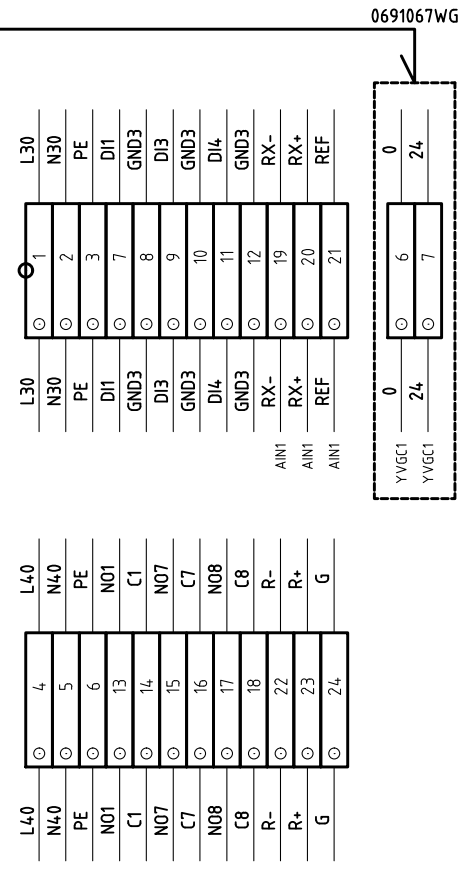
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=0G - X1



=0G - X20



**Legenda Morsettiera - Terminal Legend - Légende Bornier**

X1	Compressor [1]
X20	User terminals

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Modello - Model - Modèle - Maschine typ - Bezeichnung	UMT T 30/45 BTDX
Descrizione pagina - Page description - Description de la page - Seite Beschreibung	MORSETTIERA TERMINALS

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Nome/Nom/Item	Tipo/Type	Cost./Marque/Brand	Descrizione	Description/Description/Beschreibung	Fg/Fi/Sh	Loc
A1	pRACK HECU CO2 230V	CAREL	Controllore [pRACK HECU]	Controller [PRACK HECU]	5	=QG
AI1	pLD PRO PLD00GFP00	CAREL	Interfaccia utente [pLD]	User interface [PLD]	5	=QG
AIN1	POWER+ PSD101x2xx	CAREL	Inverter [MC1]	Inverter [MC1]	3	=BM
AIN1L	POWER+ PSD101x2xx	CAREL	Inverter [MC1]	Inverter [MC1]	3	=BM
ATEI	E2V-UNI	CAREL	Valvola elettronica [HP]	Electronic valve [HP]	5	=BM
BPH1L	SPKT00L1S0 0,5/4,5V 0/90 bar	CAREL	Trasduttore di pressione [0-5V]	Pressure probe [0-5V]	6	=BM
BPH1I	SPKT00D8C0 4/20mA 0/150 bar	CAREL	Trasduttore di pressione [4/20mA]	Pressure probe [4/20MA]	6	=BM
BPH01	SPKT00L1S0 0,5/4,5V 0/90 bar	CAREL	Trasduttore di pressione [0-5V]	Pressure probe [0-5V]	6	=BM
BPL1L	SPKT00L1S0 0,5/4,5V 0/90 bar	CAREL	Trasduttore di pressione [0-5V]	Pressure probe [0-5V]	6	=BM
BTA1	NTC-WH	CAREL	Sonda di temperatura [NTC]	Temperature probe [NTC]	6	=BM
BTA1L	NTC-WH	CAREL	Sonda di temperatura [NTC]	Temperature probe [NTC]	6	=BM
BTE1	NTC-WH	CAREL	Sonda di temperatura [NTC]	Temperature probe [NTC]	6	=BM
BTGC1	NTC-HF	CAREL	Sonda di temperatura [NTC]	Temperature probe [NTC]	6	=BM
BTM1	NTC-HT	CAREL	Sonda di temperatura [NTC-HT]	Temperature probe [NTC-HT]	6	=BM
BTM1L	NTC-HT	CAREL	Sonda di temperatura [NTC-HT]	Temperature probe [NTC-HT]	6	=BM
BTW1I	NTC-WH	CAREL	Sonda di temperatura [NTC]	Temperature probe [NTC]	6	=BM
FU1	NBCH 1x38	Italweber	Fusibile [HT]	Fuse [HT]	4	=QG
KM1	DILM1710	EATON	Contattore [MC1]	[MC1] Contactor	4	=QG
KM1L	DILM1710	EATON	Contattore [MC1L]	[MC1L] Contactor	4	=QG
MC1	DYx	TOSHIBA	Compressore [1]	Compressor [1]	3	=BM
MC1L	DYx	TOSHIBA	Compressore [2]	Compressor [2]	3	=BM
MVC1	A3G500-AD01-58	EBM PAPST	Ventilatore EC condensatore [1]	Condenser EC fan [1]	4	=BM
QA1	PLS6-C2/2 242868	EATON	Interruttore magnetotermico [AUX 230V]	Automatic circuit breaker [AUX 230V]	4	=QG
QF1	FAZ6-B32/2 239091	EATON	Interruttore magnetotermico [AIN1]	Automatic circuit breaker [AIN1]	3	=QG
QF1L	FAZ6-B32/2 239091	EATON	Interruttore magnetotermico [AIN1L]	Automatic circuit breaker [AIN1L]	3	=QG
QFV1	PLS6-C4/2 242872	EATON	Interruttore magnetotermico [MVC1]	Automatic circuit breaker [MVC1]	4	=QG
QS1	SIRCO M 40A 2200 3004	SOCOMEQ	Interruttore sezionatore	Load break switch	3	=QG
SPH1	CCB-2VB04W110 AUTO	Danfoss	Pressostato alta pressione [MC1]	High pressure switch [MC1]	4	=BM
SPH1L	CS3-WQS 72/67BAR 814015	EMERSON	Pressostato alta pressione [MC1L]	High pressure switch [MC1L]	4	=BM
TV1	TM1324461	BOTTER	Trasformatore linea ausiliaria [24Vac]	Transformer auxiliary line [24VAC]	4	=QG
WB1	/	/	Barra distribuzione di terra	Ground distribution bar	3	=QG
YVBY1	GSR	/	Solenoide avviamento in vuoto [MC1]	[MC1] start unload solenoid valve	4	=BM
YVBY1L	GSR	/	Solenoide avviamento in vuoto [MC1]	[MC1] start unload solenoid valve	4	=BM
YVGC1	AKM1x5SF132	SAUTER	Valvola 3 vie [GC]	[GC] 3 way valve	4	=BM

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**UMT T 30/45 BTDX**  
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**LISTA COMPONENTI**  
**COMPONENTS LIST**

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