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**Order data**

Serial number / Type **UMT T**

Model **UMT T (/WG) 100 MTDX**

Description **[UMT T] condensing unit**

Plant

**Electrical wiring diagram**

Draft nr. **0691066 - 0691066WG**

Creation date: **C.D. 29/03/17** Check: **C.D. 29/03/17** Approved: **M.B.**

Rev.	Descr.	Data, Date	Visa
01	RS485 CONNECTION ADDED ON X20 TERMINALS	17-10-17	C.D.
02	BMS CONNECTION + ADIABATIC SYSTEM SUPPLY	12-02-18	C.D.
03	ELECTRICAL HEATING TERMINALS ADDED	18-04-18	C.D.
04	SERIAL LINE ROUTE CHANGED, MINOR WIRING CHANGES, WATER VERSION DATA ADDED	07-01-19	C.D.
05	DIGITAL INPUT AND OUTPUT ADDED FROM CONTROLLER TO X20	25-02-19	C.D.
06	ADDED SAUTER 3 WAY VALVE MANAGEMENT	10-04-19	C.D.

**Electrical data**

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

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

Max. power input (kW) **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. **400V/3Ph+N+PE/50Hz**

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

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

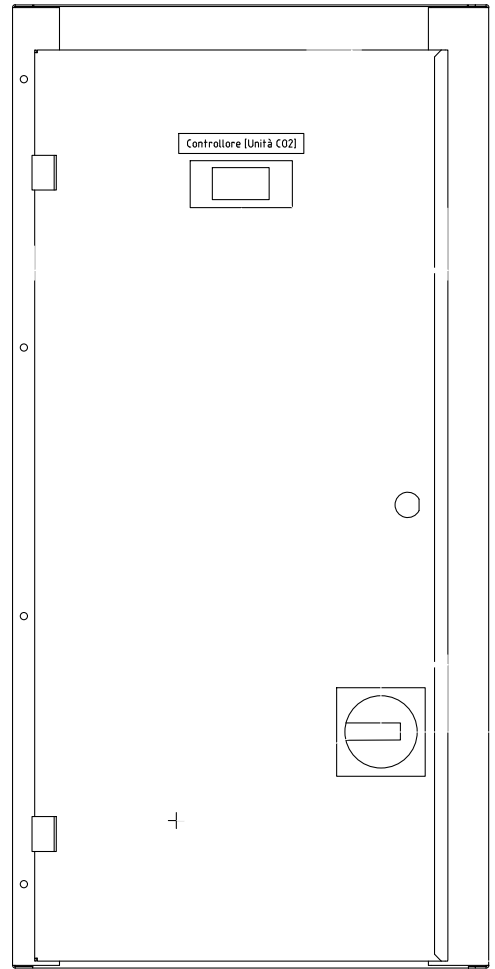
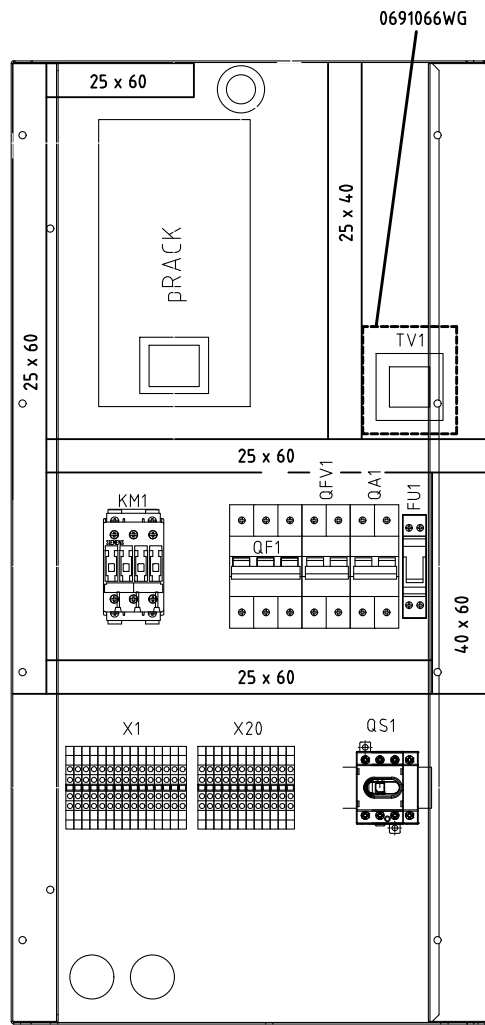
Electronic controllers **pRACK HECU CAREL**

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.

*Electrical data*

	MRA (A)	Pmax (W)
UMT T 100 MTDX	17,3	7900W
UMT T 100 MTDX WG	15,1	7560W



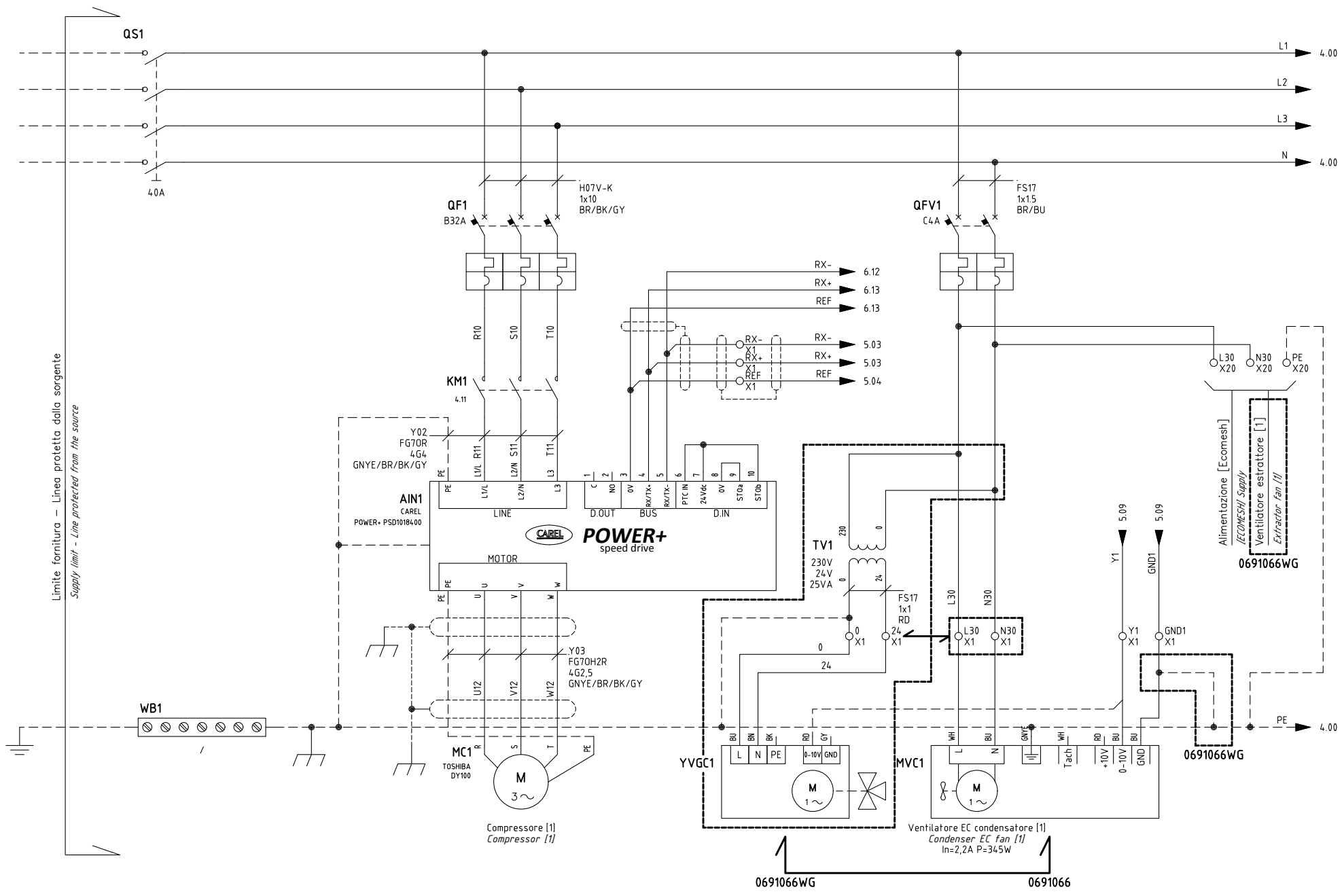
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 Date - Datum  
 Disegnatore - Designer C.D.  
 Dessinateur - Zeichner  
 Visto - Checked by C.D.  
 Vu - Kontrolle  
 Approvato - Approved M.B.  
 Approuvé - Genehmigt



Modello - Model - Modelle - Maschine typ - bezeichnung  
**UMT T 100 MTDX**  
 /  
 Descrizione pagina - Page description - Description de la page - Seite Beschreibung  
**LAYOUT QUADRO ELETTRICO**  
**PANEL LAYOUT**

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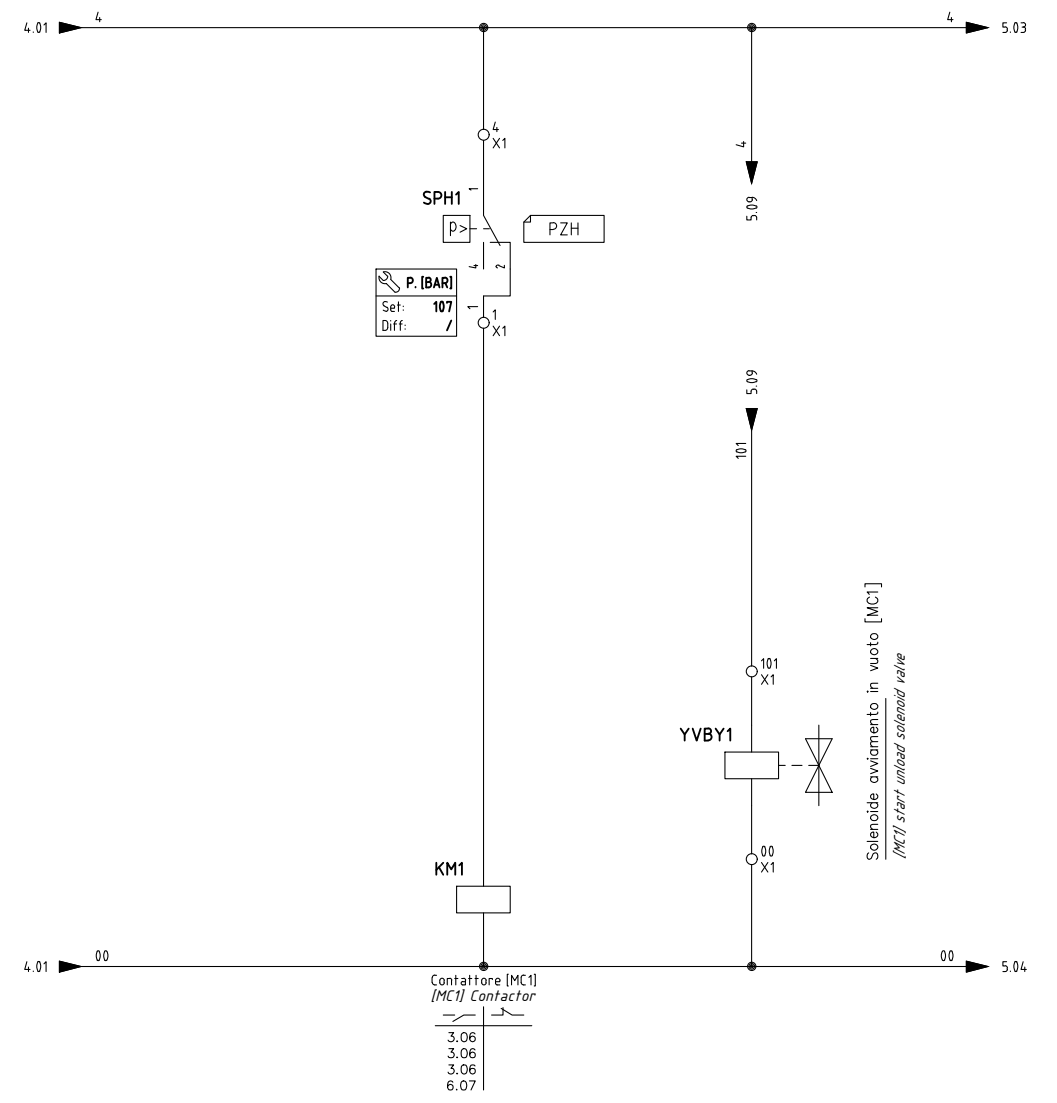
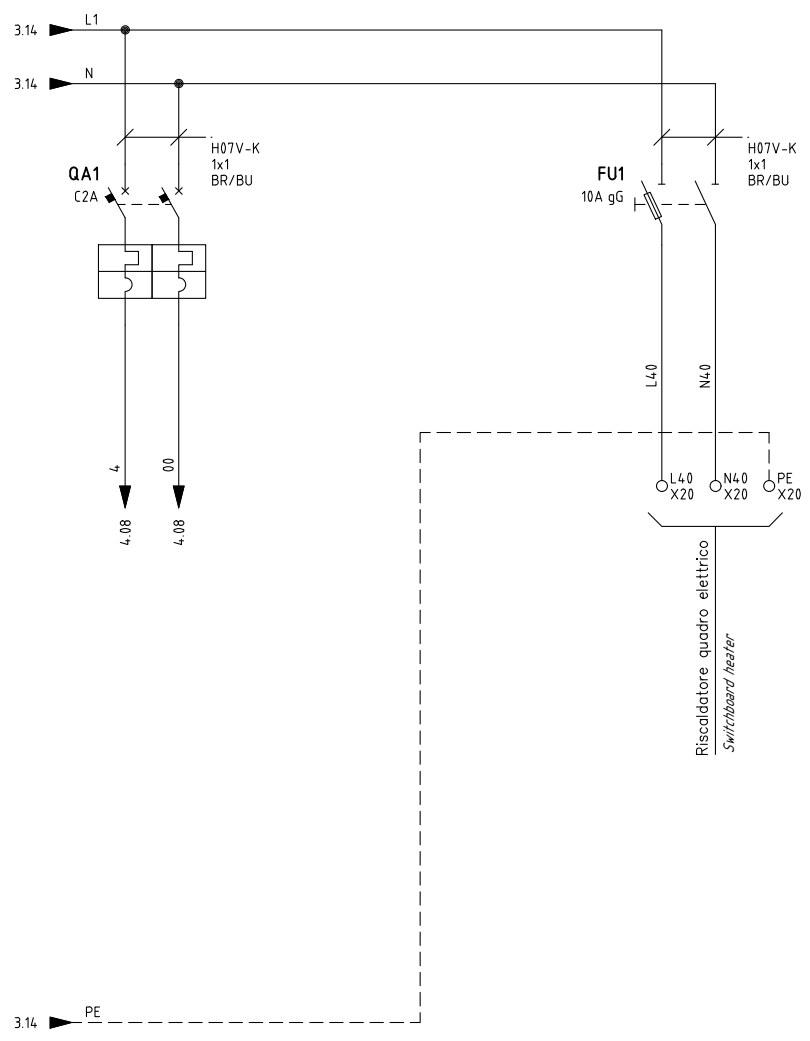
Limite fornitura - Linea protetta dalla sorgente  
Supply limit - Line protected from the source

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Descrizione pagina - Page description - Description de la page - Seite Beschreibung	LINEA DI ALIMENTAZIONE POWER SUPPLY LINE

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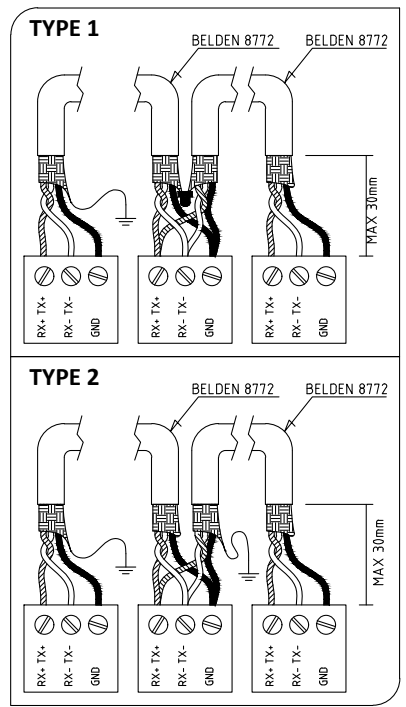
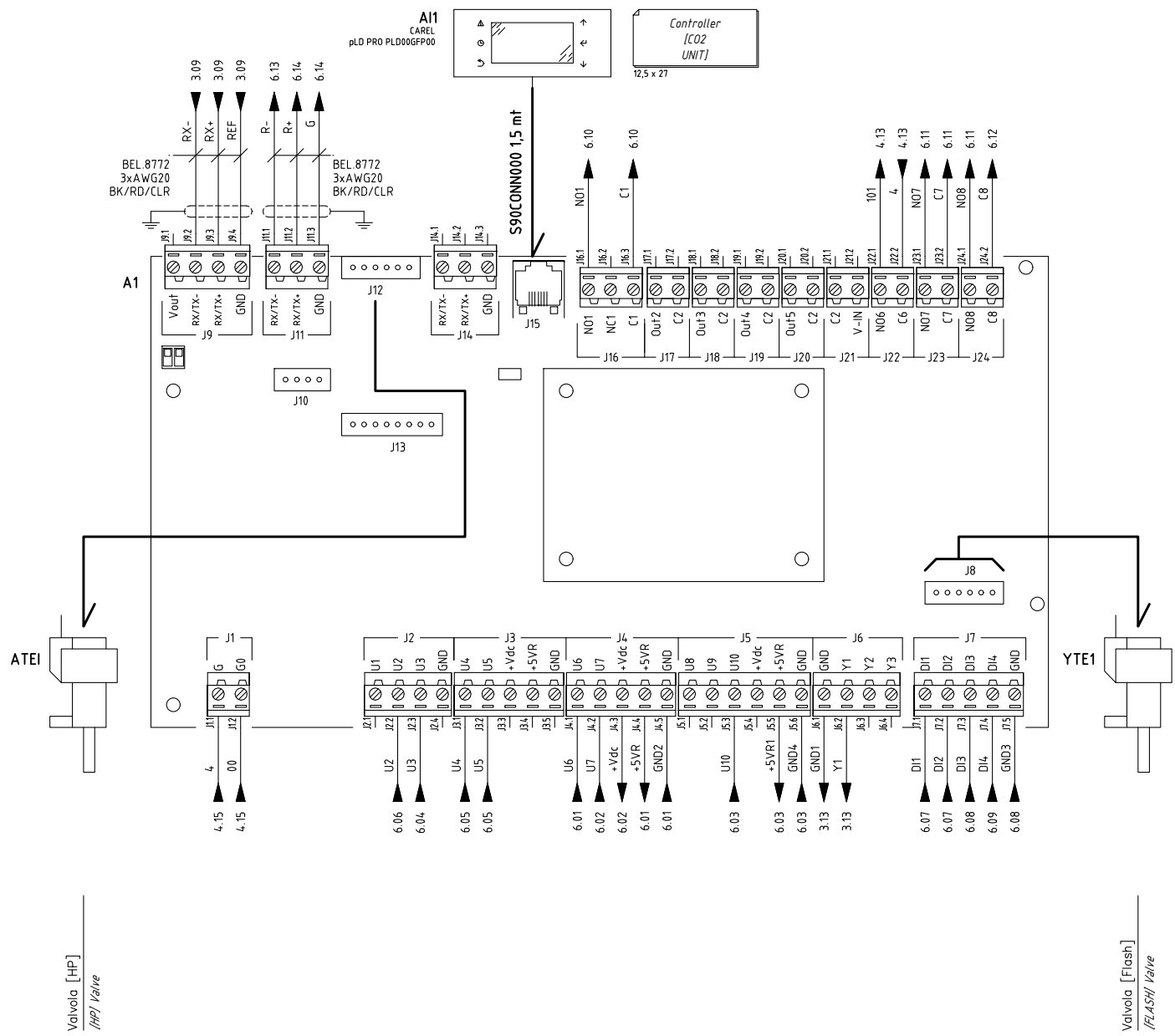
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Descrizione pagina - Page description - Description de la page - Seite Beschreibung	COMPRESSORE [1]
	Compressor [1]

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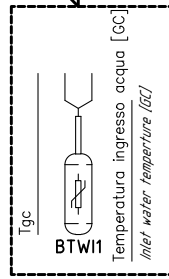
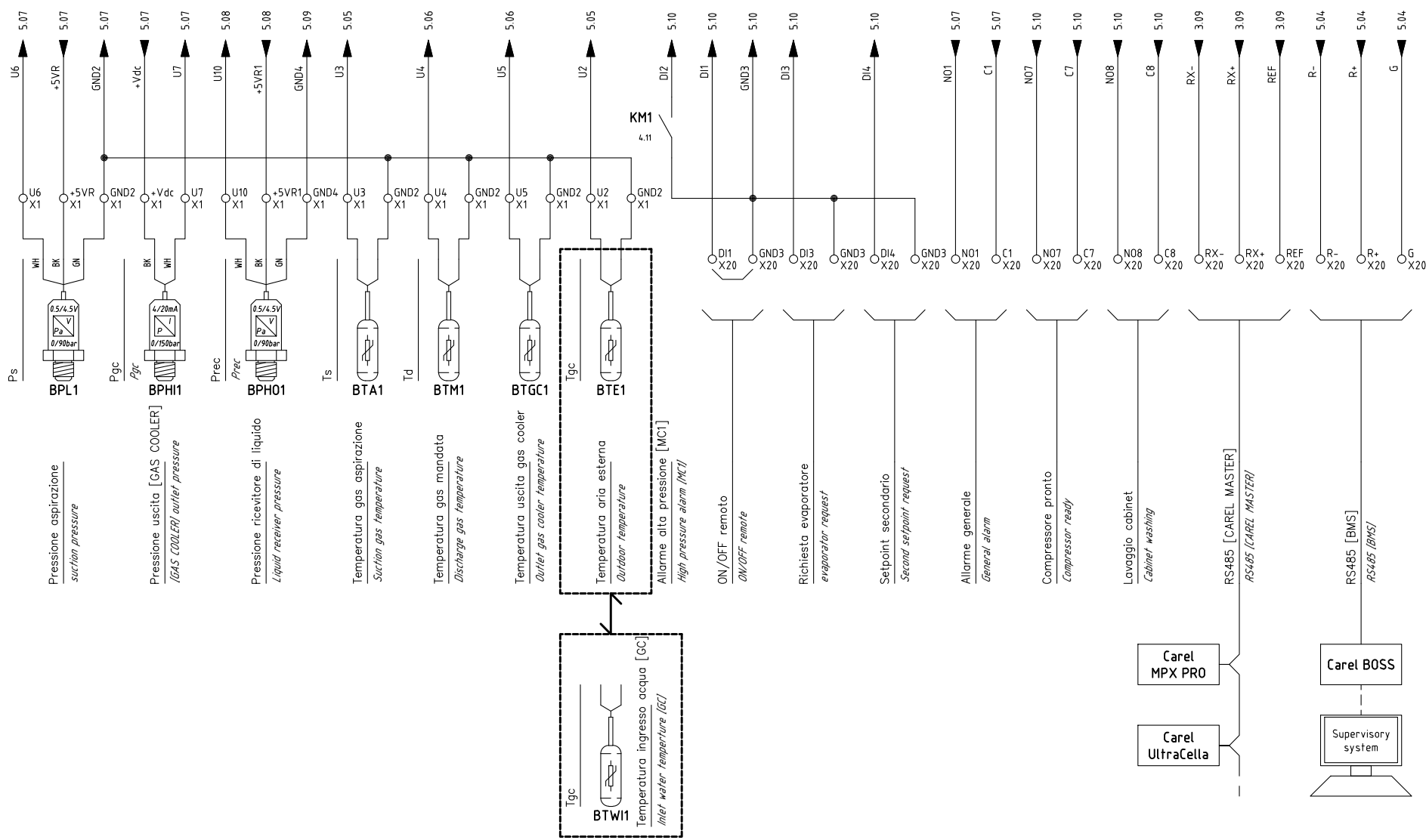
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**CONTROLORE ELETTRONICO [PRACT]  
 [PRACT] ELECTRONIC CONTROLLER**

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0691066WG

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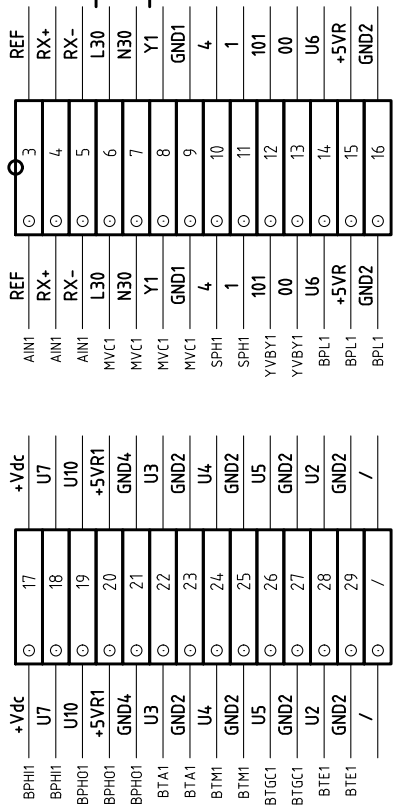
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**CONTROLLORE ELETTRONICO [DRACK]  
[PRACK] ELECTRONIC CONTROLLER**

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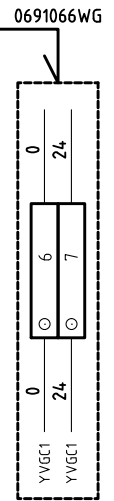
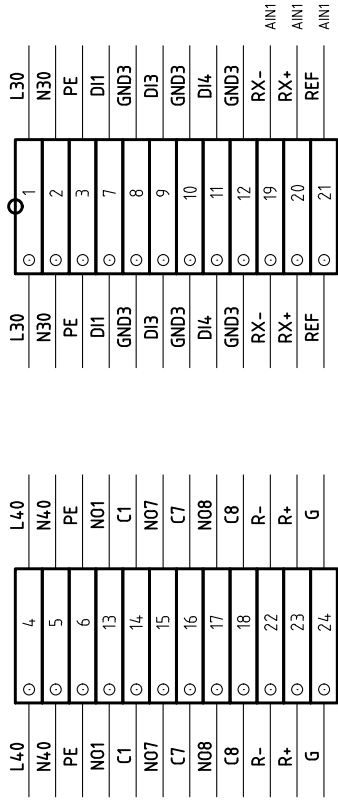
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C  
D  
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I  
J  
K

**=06 - X1**



**=06 - X20**



Legenda Morsettiera - Terminal Legend - Légende Bornier	
X1	Compressor [1]
X20	User terminals

Data - Date	29/03/17
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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+ PSD1018400	CAREL	Inverter [MC1]	Inverter [MC1]	3	=BM
ATEI	E2V-UNI	CAREL	Valvola elettronica [HP]	Electronic valve [HP]	5	=BM
BPHI1	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
BPL1	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
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
BTWI1	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
MC1	DY100	TOSHIBA	Compressore [1]	Compressor [1]	3	=BM
MVC1	A3G500-AD01-58	EBM PAPST	Ventilatore EC condensatore [1]	Condenser EC fan [1]	3	=BM
QA1	PLS6-C2/2 242868	EATON	Interruttore magnetotermico [AUX 230V]	Automatic circuit breaker [AUX 230V]	4	=QG
QF1	FAZ6-B32/3 239116	EATON	Interruttore magnetotermico [AIN1]	Automatic circuit breaker [AIN1]	3	=QG
QFV1	PLS6-C4/2 242872	EATON	Interruttore magnetotermico [MVC1]	Automatic circuit breaker [MVC1]	3	=QG
QS1	SIRCO M 40A 22003004+22003001	SOCOMEK	Interruttore sezionatore	Load break switch	3	=QG
SPH1	CCB-2VB04W110 AUTO	Danfoss	Pressostato alta pressione [MC1]	High pressure switch [MC1]	4	=BM
TV1	TM1324461	BOTTER	Trasformatore linea ausiliaria [24Vac]	Transformer auxiliary line [24VAC]	3	=QG
WB1	/	/	Barra distribuzione di terra	Ground distribution bar	3	=QG
YTE1	E2V-UNI	CAREL	Valvola elettronica [Flash gas]	Electronic valve [FLASH GAS]	5	=BM
YVBY1	GSR	/	Solenoide avviamento in vuoto [MC1]	[MC1] start unload solenoid valve	4	=BM
YVGC1	AKM1x5SF132	SAUTER	Valvola 3 vie [GC]	[GC] 3 way valve	3	=BM

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**LISTA COMPONENTI**  
**COMPONENTS LIST**

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