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Order data

Serial number _____ / Type **UMT T**

Model **UMT T 30/45/67 BTDX**

Description **[UMT T] condensing unit**

Plant _____

Electrical wiring diagram

Draft nr. **EL-UMTT BTDX**

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.

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**

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.

Data - Date	09/01/17
Date - Datum	
Disegnatore - Designer	C.D.
Dessinateur - Zeichner	
Visto - Checked by	C.D.
Vu - Kontrolle	
Approvato - Approved	M.B.
Apprové - Genehmigt	

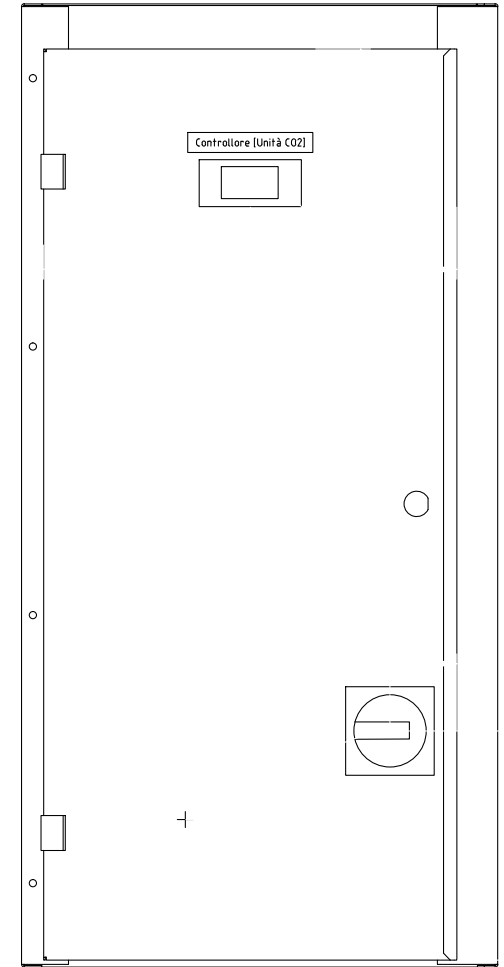
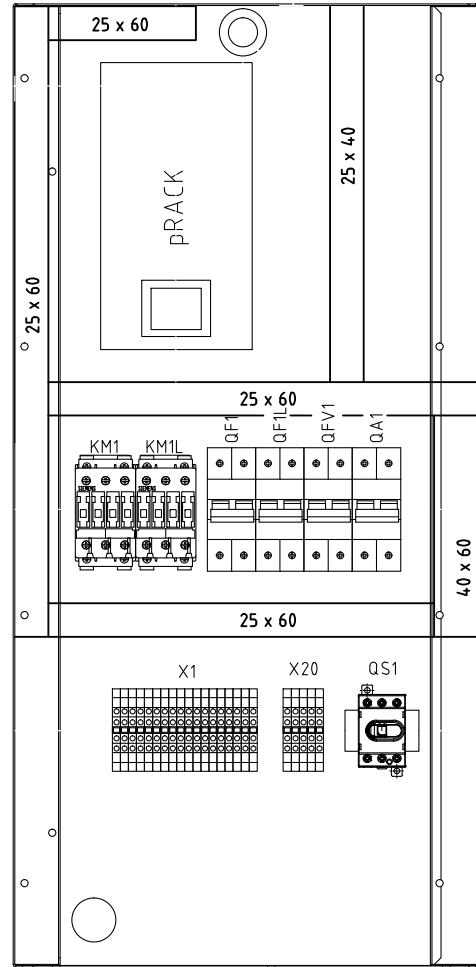


Modello - Model - Modelle - Maschine typ - bezeichnung	UMT T 30/45/67 BTDX
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Electrical data

	MRA (A)	Pmax (W)
UMT T 030 BTDX	26,8	6160W
UMT T 045 BTDX	38,2	7360W
UMT T 067 BTDX	55,2	10620W

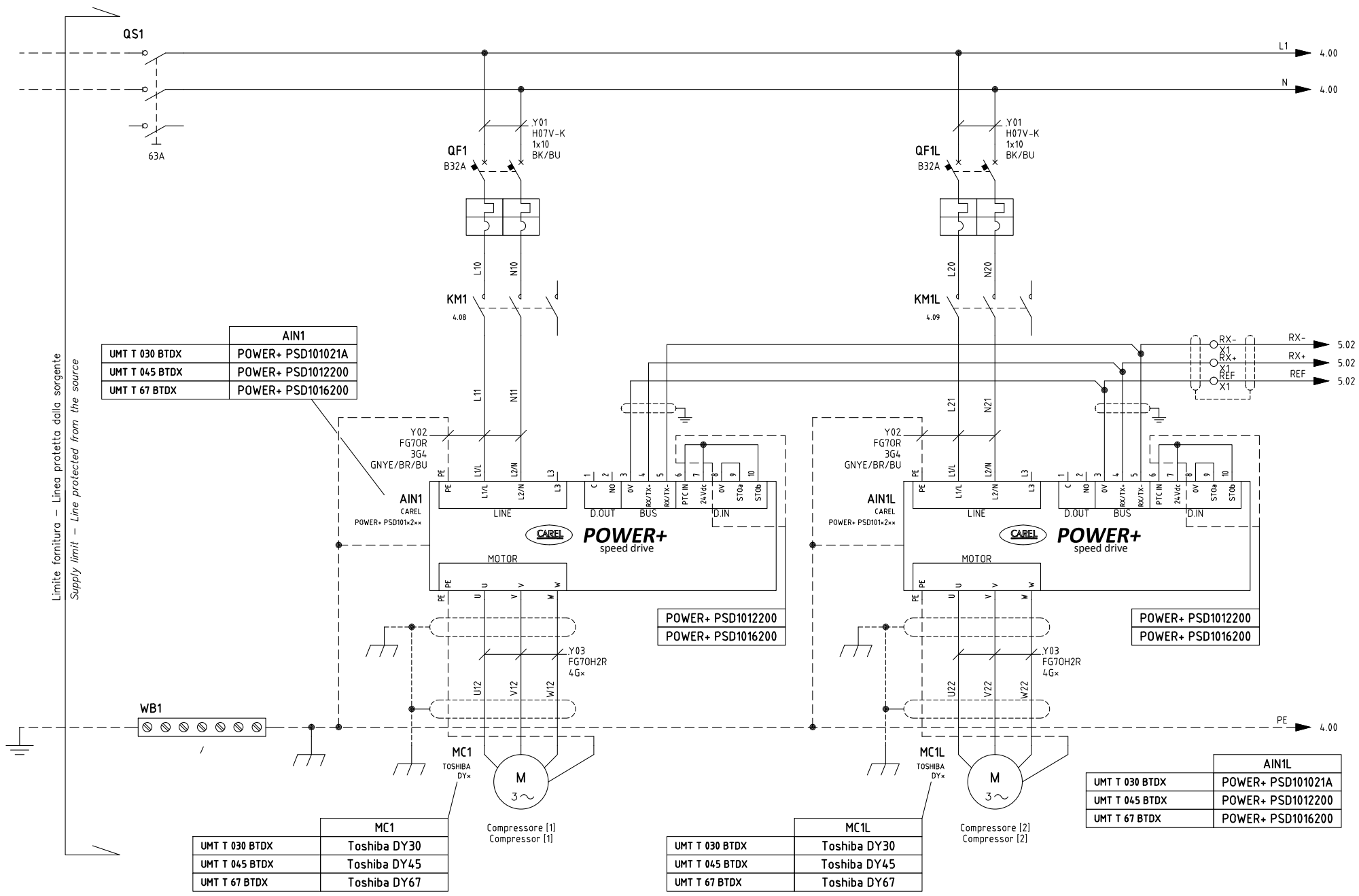


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**LAYOUT QUADRO ELETTRICO
 PANEL LAYOUT**

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AIN1	
UMT T 030 BTDX	POWER+ PSD101021A
UMT T 045 BTDX	POWER+ PSD1012200
UMT T 67 BTDX	POWER+ PSD1016200

MC1	
UMT T 030 BTDX	Toshiba DY30
UMT T 045 BTDX	Toshiba DY45
UMT T 67 BTDX	Toshiba DY67

POWER+ PSD1012200	POWER+ PSD1016200
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MC1L	
UMT T 030 BTDX	Toshiba DY30
UMT T 045 BTDX	Toshiba DY45
UMT T 67 BTDX	Toshiba DY67

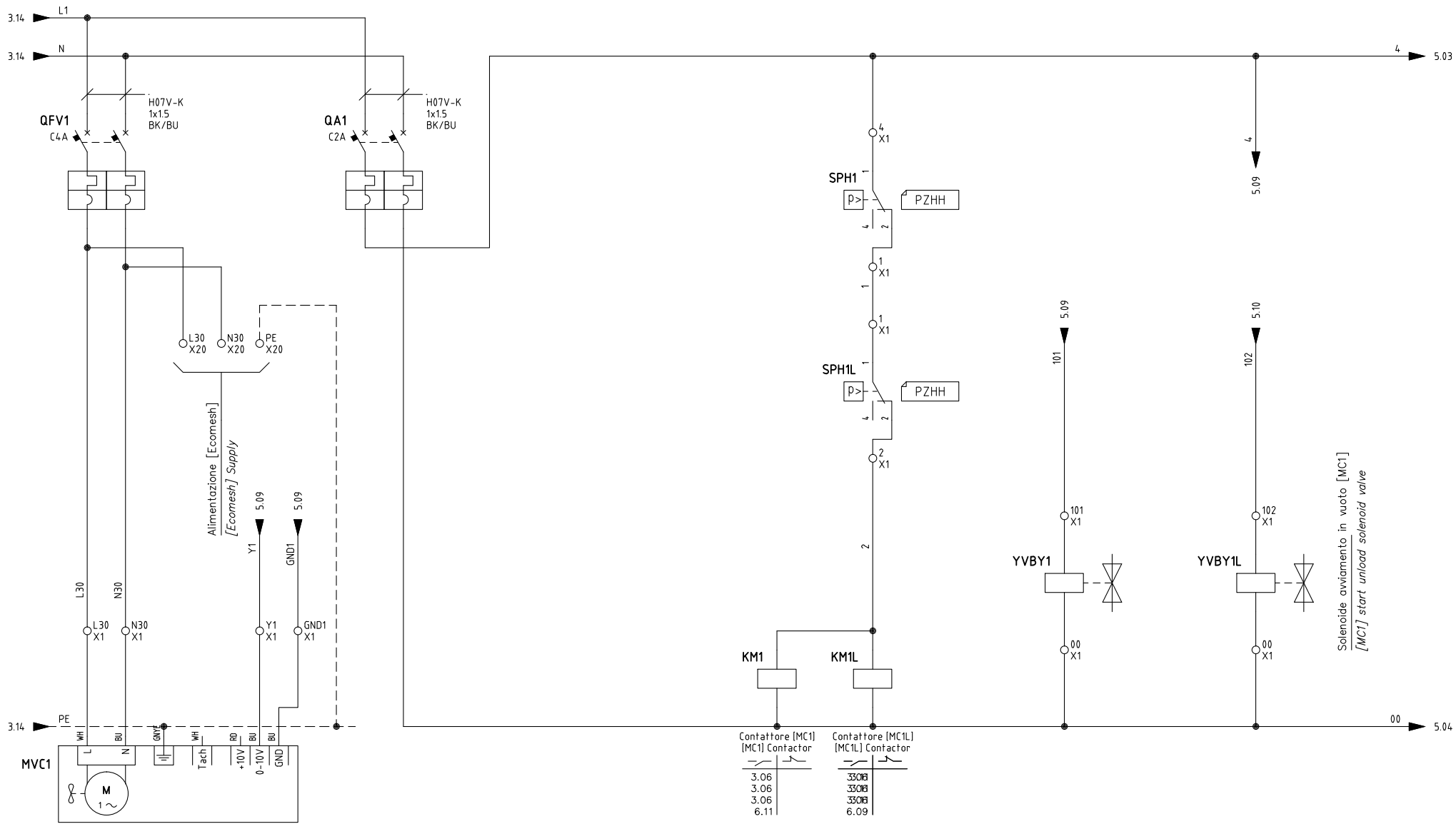
AIN1L	
UMT T 030 BTDX	POWER+ PSD101021A
UMT T 045 BTDX	POWER+ PSD1012200
UMT T 67 BTDX	POWER+ PSD1016200

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**LINEA DI ALIMENTAZIONE
 POWER SUPPLY LINE**

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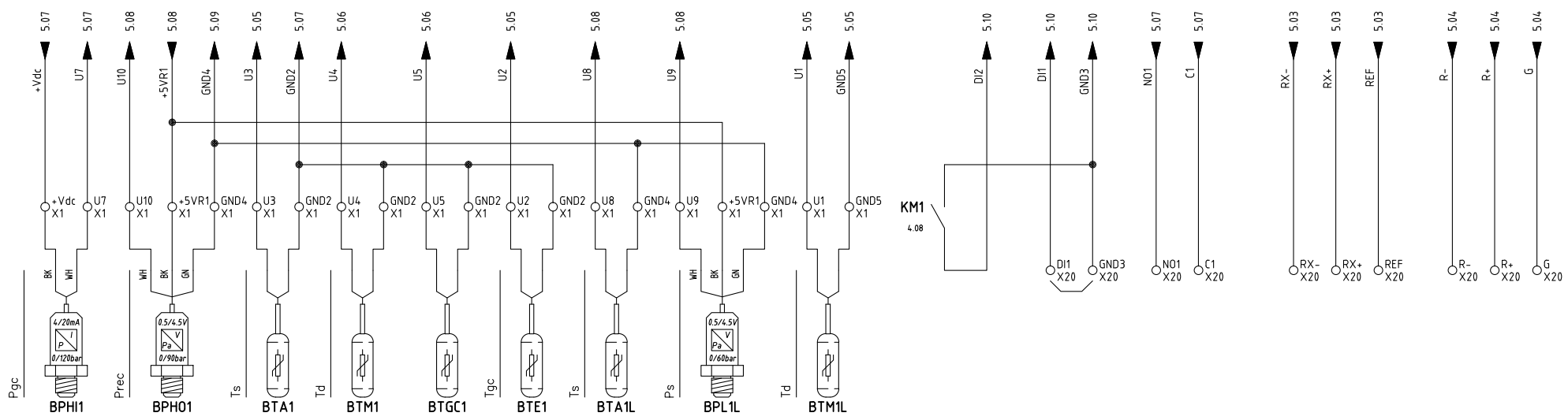


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**COMPRESSORE [1]
 Compressor [1]**

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Pressione uscita [CAS COOLER]
[CAS 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 mandata [LT]
Discharge gas temperature [LT]

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

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

Allarme alta pressione [MC1]
High pressure alarm [MC1]

ON/OFF remoto
ON/OFF remote

Allarme generale
General alarm

RS485 [MASTER]
RS485 [MASTER]

RS485 [BMS]
RS485 [BMS]

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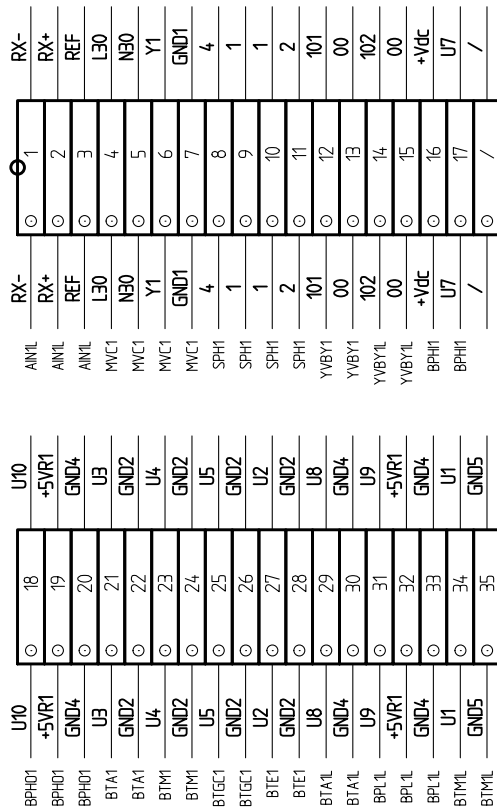
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**CONTROLLORE ELETTRONICO [pRACK]
[pRACK] ELECTRONIC CONTROLLER**

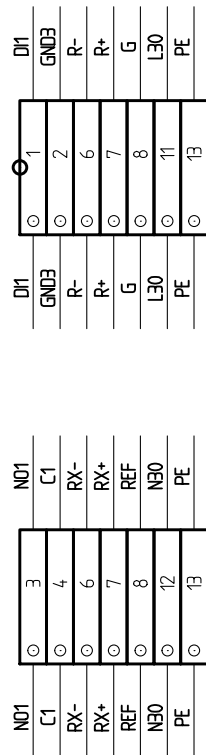
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=06 - X1



=06 - X20



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

X1	Compressor [1]
X20	User 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	MVS661	SIEMENS	Valvola elettronica [HP]	Electronic valve [HP]	5	=BM
BPH1	SPKT00D8C0 4/20mA 0/120 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 0/60 bar	CAREL	Trasduttore di pressione [0-5V]	Pressure probe [0-5V]	6	=BM
BTA1	NTC-HF	CAREL	Sonda di temperatura [NTC]	Temperature probe [NTC]	6	=BM
BTA1L	NTC-HF	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-HT	CAREL	Sonda di temperatura [NTC-HT]	Temperature probe [NTC-HT]	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
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 63A 2200 3006	SOCOMEK	Interruttore sezionatore	Load break switch	3	=QG
SPH1	CCB-2VB04W110 AUTO	Danfoss	Pressostato alta pressione [MC1]	High pressure switch [MC1]	4	=BM
SPH1L	???	Danfoss	Pressostato alta pressione [MC1L]	High pressure switch [MC1L]	4	=BM
WB1	/	/	Barra distribuzione di terra	Ground distribution bar	3	=QG
YVBY1	/	/	Solenoide avviamento in vuoto [MC1]	[MC1] start unload solenoid valve	4	=BM
YVBY1L	/	/	Solenoide avviamento in vuoto [MC1]	[MC1] start unload solenoid valve	4	=BM

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UMT T 30/45/67 BTDX
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LISTA COMPONENTI
COMPONENTS LIST

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