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Order data

Serial number _____ / Type **UMT T**

Model **UMT T 030/045/067 MTDX**

Description **[UMT T] condensing unit**

Plant _____

Electrical wiring diagram

Draft nr. **EL-UMTT**

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

Rev.	Descr.	Data, Date	Visa
01	BY-PASS VALVE MANAGEMENT CHANGED, CRANKCASE HEATER OUTPUT USED	13-12-16	C.D.
02	BY-PASS VALVE MANAGEMENT CHANGED LAYOUT CHANGED, MODELS EXTENDED	23-01-17	C.D.
03	RS485 - CONNECTION FIXED	23-01-17	C.D.
04	ELECTRICAL DATA ADDED	28-03-17	C.D.
05	10A INVERTER ADDED ON 030 MODEL	18-05-17	C.D.
06	RS485 CONNECTION ADDED ON X20 TERMINALS	17-10-17	C.D.
07	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 alimentazione.
 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 09/11/16
 Date - Datum
 Designatore - Designer C.D.
 Dessinateur - Zeichner
 Visto - Checked by C.D.
 Vu - Kontrolle
 Approvato - Approved M.B.
 Genehmigt

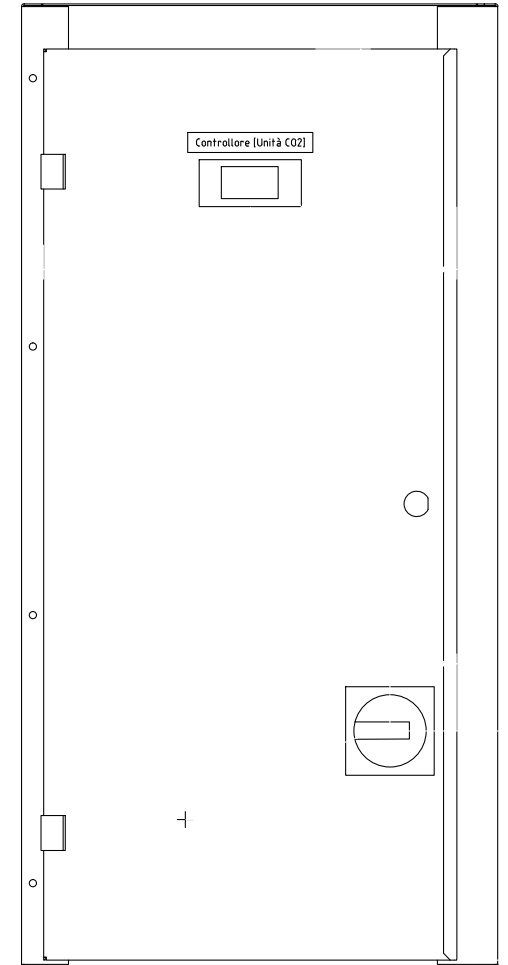
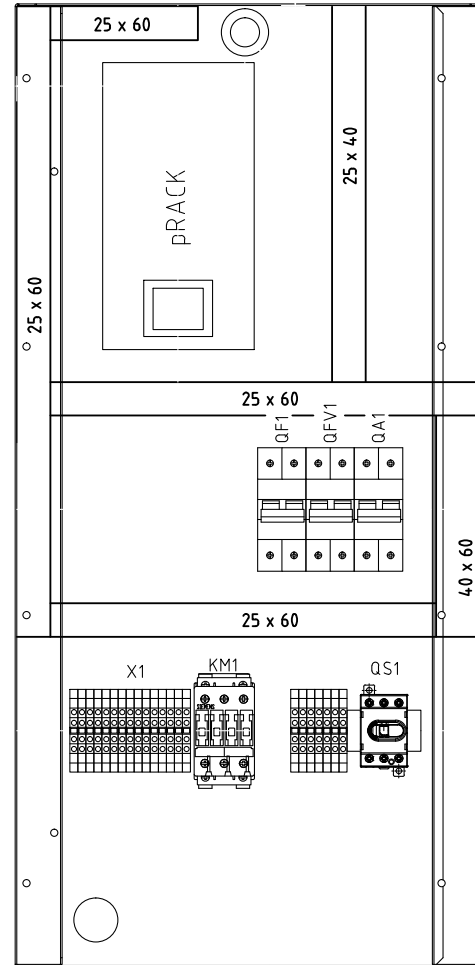


Modello - Model - Modelle - Maschine Typ - Bezeichnung
UMT T 030/045/067 MTDX
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**DATA
DATA**

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Electrical data

	MRA (A)	Pmax (W)
UMT T 030 MT DX	14,5	3300W
UMT T 045 MT DX	20,2	4650W
UMT T 067 MT DX	28,7	6630W

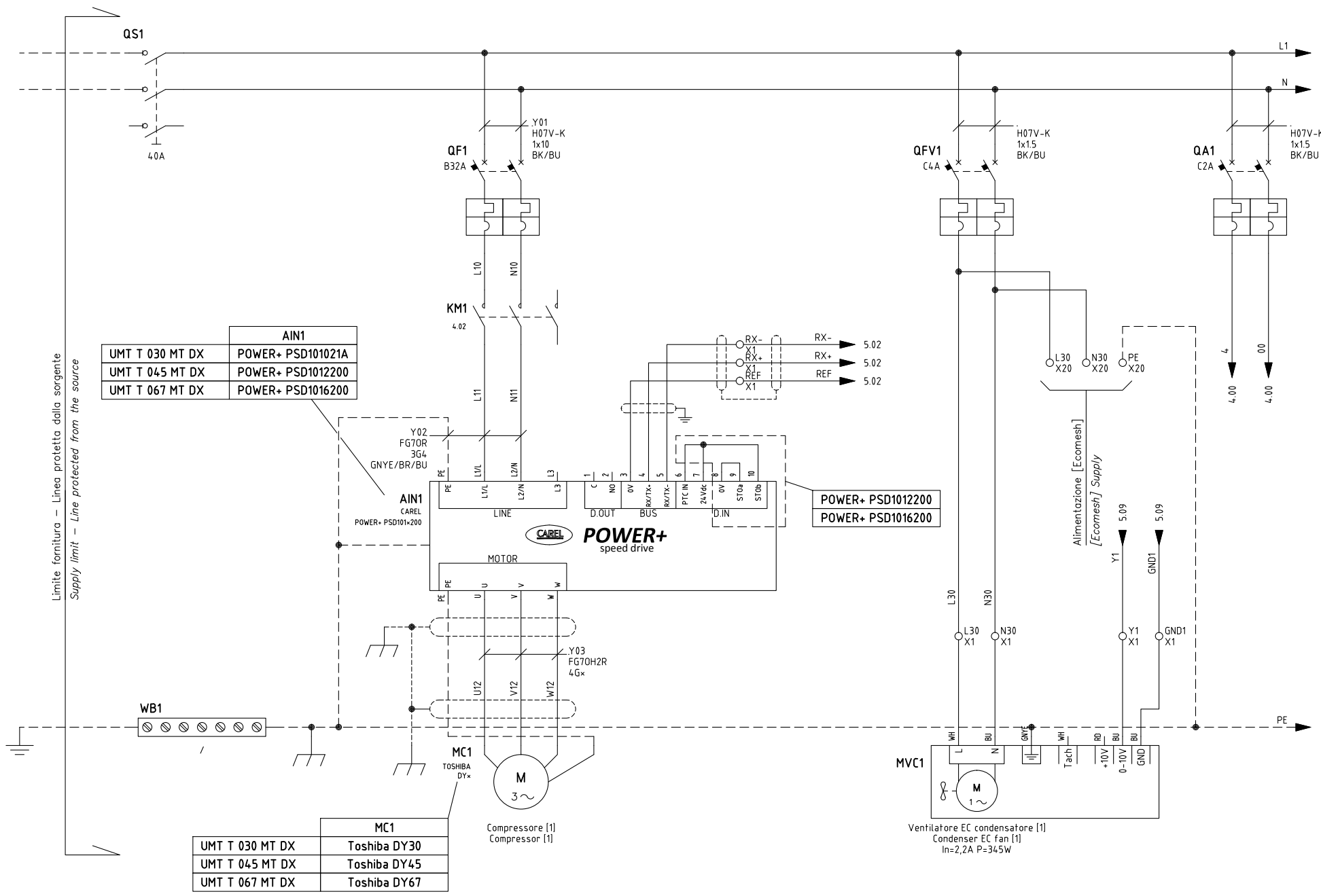


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Modello - Model - Modelle - Maschine Typ - bezeichnung: UMT T 030/045/067 MTDX
 Descrizione pagina - Page description - Description de la page - Seite Beschreibung: LAYOUT QUADRO ELETTRICO PANEL LAYOUT

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

AIN1	
UMT T 030 MT DX	POWER+ PSD101021A
UMT T 045 MT DX	POWER+ PSD1012200
UMT T 067 MT DX	POWER+ PSD1016200

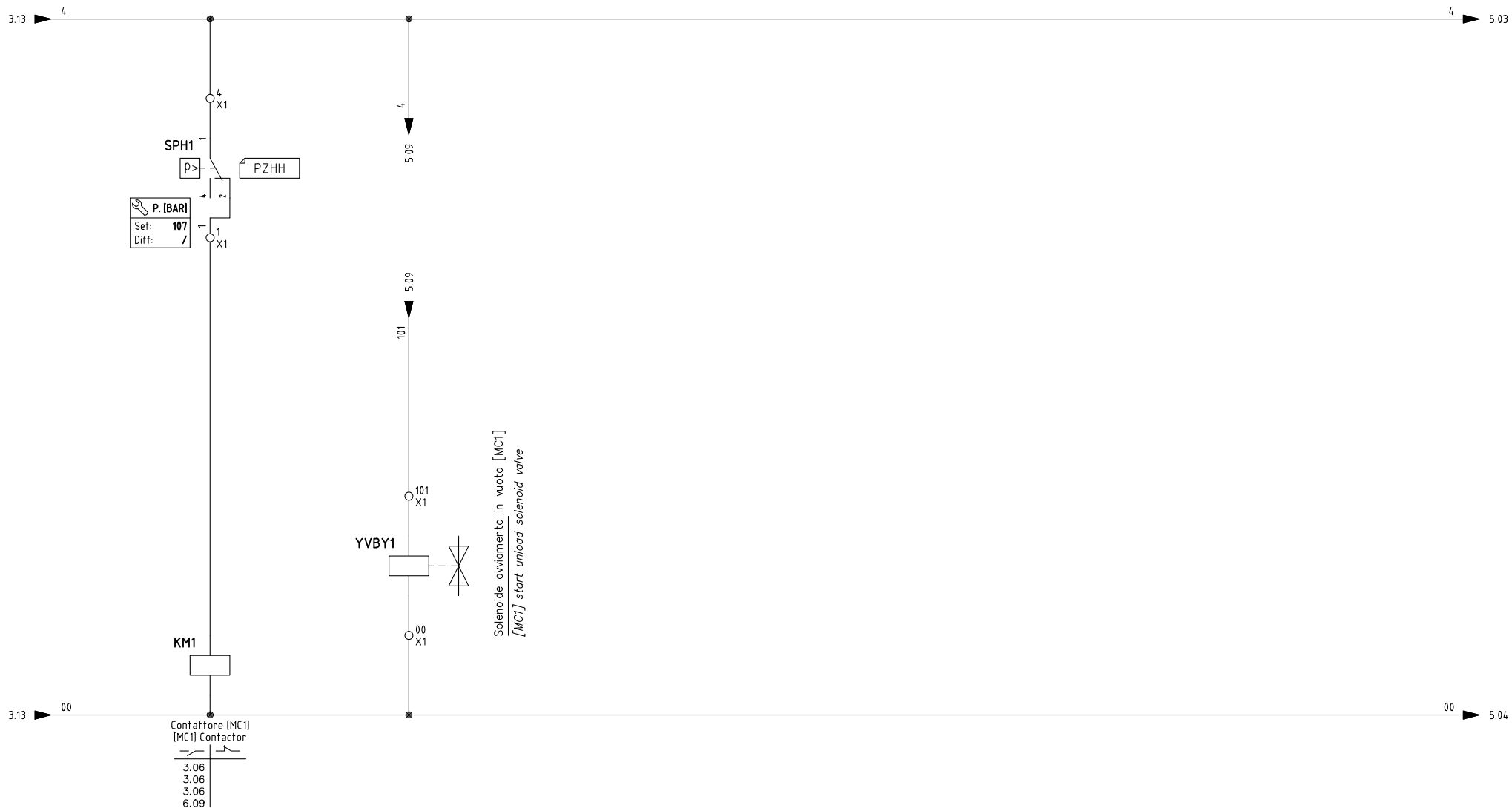
MC1	
UMT T 030 MT DX	Toshiba DY30
UMT T 045 MT DX	Toshiba DY45
UMT T 067 MT DX	Toshiba DY67

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**LINEA DI ALIMENTAZIONE
POWER SUPPLY LINE**

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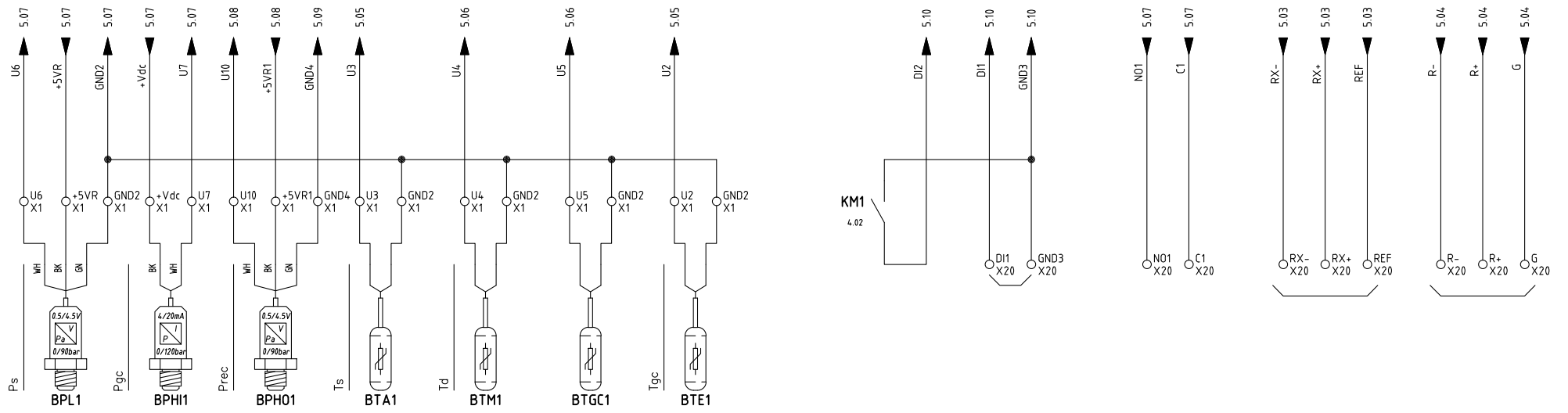


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Pressione aspirazione
suction pressure

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

Pressione ricevitore di liquido
Liquid receiver pressure

Temperatura gas aspirazione
Suction gas temperature

Temperatura gas mandata
Discharge gas temperature

Temperatura uscita gas cooler
Outlet gas cooler temperature

Temperatura aria esterna
Outdoor temperature

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

ON/OFF remoto
ON/OFF remote

Allarme generale
General alarm

RS485 [CAREL MASTER]
RS485 [CAREL MASTER]

RS485 [BMS]
RS485 [BMS]

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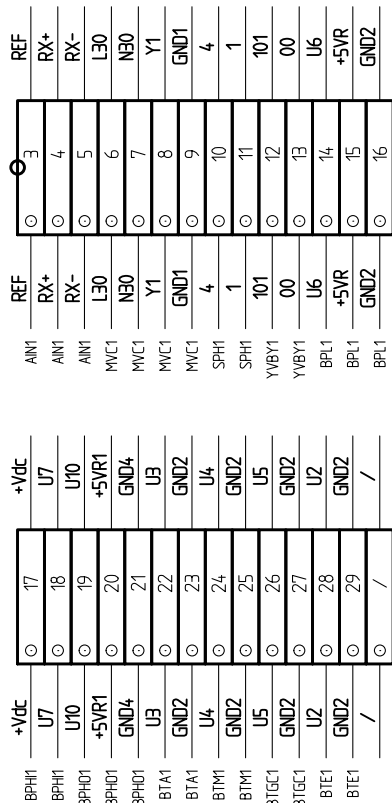


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**CONTROLLORE ELETTRONICO [pRACK]
[pRACK] ELECTRONIC CONTROLLER**

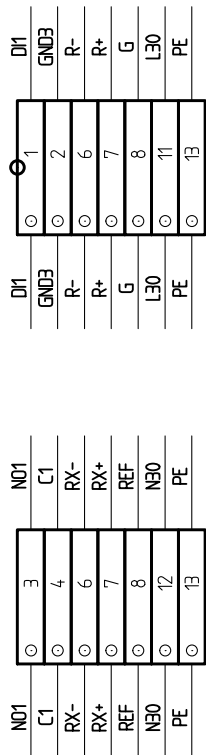
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=06 - X1



=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+ PSD101x200	CAREL	Inverter [MC1]	Inverter [MC1]	3	=BM
ATEI	MVS661	SIEMENS	Valvola elettronica [HP]	Electronic valve [HP]	5	=BM
BPHI1	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
BPL1	SPKT00L1S0 0,5/4,5V 0/90 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
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
KM1	DILM1710	EATON	Contattore [MC1]	[MC1] Contactor	4	=QG
MC1	DYx	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]	3	=QG
QF1	FAZ6-B32/2 239091	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 2200 3004	SOCOMEK	Interruttore sezionatore	Load break switch	3	=QG
SPH1	CCB-2VB04W110 AUTO	Danfoss	Pressostato alta pressione [MC1]	High pressure switch [MC1]	4	=BM
WB1	/	/	Barra distribuzione di terra	Ground distribution bar	3	=QG
YTE1	MVS661	SIEMENS	Valvola elettronica [Flash gas]	Electronic valve [Flash gas]	5	=BM
YVBY1	/	/	Solenoide avviamento in vuoto [MC1]	[MC1] start unload solenoid valve	4	=BM

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LISTA COMPONENTI
COMPONENTS LIST

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